

# Fiscal Year 2026: International Journals

| No. | Beamline    | Author                                                                                                                                                                                                                                                                             | Title                                                                                                                                                                                | Source                                                                          | Q  | IF   | Field                             |
|-----|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----|------|-----------------------------------|
| 1   | BL1.1W: MXT | Aupama,V., Yoopensuk, W., <u>Wannapaiboon, S., Pakawanit, P.,</u> Hadsadee, S., Jungsuttiwong, S., Guo, L. J., Wu, T. H., Wu, H. L., Suttipong, M. and Kheawhom, S.                                                                                                                | Ion-Coordination-Active UiO-66-SO3H Coating Stabilizes Zn Metal Anodes via Sulfonate-Directed Zn2+ Desolvation                                                                       | ACS Applied Materials & Interfaces                                              | Q1 | 8.2  | Materials Science and Engineering |
| 2   | BL1.1W: MXT | Baser, M. F. H., Salleh, M. A. A. M., Said, R. M., Zakaria, M. F., Zaimi, N. S. M. <u>Wannapaiboon, S., Kamonsuangkasem, K., Tancharakorn, S., Tanthanuch, W. and Mothong, N.</u>                                                                                                  | Influence of Indium on Cu6(Sn,In)5 Formation and Microstructure Refinement in Sn-10wt.%Cu Solder Alloy                                                                               | JOM                                                                             | Q2 | 2.3  | Materials Science and Engineering |
| 3   | BL1.1W: MXT | Chen, J., Xiao, T., Yao, B., Li, M., Zhang, H., Tan, M., Xi, S., Tang, S., Jia, W., Yang, Q., Hao, Z., Zhang, Z., Lim, K. H., Han, X., Zi, X. Wang, Y., Lv, J., He, Q., Wang, Y., Kawi, S. and Ma, X.                                                                              | Inverse In2O3-x/Ni Interfaces via Ni3InC0.5 Surface Reconstruction for Efficient CO2 Hydrogenation Tomethanol                                                                        | Nature Communications 16 ( 2025): 10935                                         | Q1 | 15.7 | Chemistry                         |
| 4   | BL1.1W: MXT | Chotsawat, M., <u>Saiyasombat, C., Busavaporn, W.</u> , Sikam, P., Thirayatorn, R., Nachaithong, T., Chankhunthod, N.,Thongbai, P. and Moontragoon, P.                                                                                                                             | Effect of Nature and Formation of Defects to Optical, Magnetic and Dielectric Properties in Co-doped SrTiO3: DFT and Experiments Approaches                                          | Ceramics International 52 (May 2026): 16652-16662                               | Q1 | 5.6  | Materials Science and Engineering |
| 5   | BL1.1W: MXT | Dai, Z., Zhang, X., Lolupiman, K., Yang, C., Woottapanit, P., <u>Limphirat, W., Wannapaiboon, S.,</u> Zhang, X. and Qin, J.                                                                                                                                                        | Enhanced Stability of Vanadium-Based Electrode Materials Using Multi-Component Hybrids for High-Performance Zinc-Ion Batteries                                                       | ACS Applied Materials & Interfaces 17 (2025): 57059-57069                       | Q1 | 8.2  | Materials Science and Engineering |
| 6   | BL1.1W: MXT | Deng, C., Xu, H., Zhou, Y., Ayyub, A., Wan, Z., Yuan, W., Yao, Y., <u>Kamonsuangkasem, K.,</u> Zheng, W., Xu, M., Kawi, S. and Yang, W.                                                                                                                                            | Vertical Growth of ZnIn2S4 on Sr2MgSi2O7:Eu2+, Dy3+ Boosts Surface Area and Covalent S-scheme Charge Separation for Round-the-Clock Photocatalytic Degradation of Organic Pollutants | Journal of Environmental Chemical Engineering 14 (Feb 2026): 120547             | Q1 | 7.2  | Environmental Science             |
| 7   | BL1.1W: MXT | Englong, A., Punwong, P., Marchant, R., Jirapinyakul, A., Swangpol, S. C., Chotikarn, P., Pumijumnong, N., <u>Chirawatkul, P.,</u> Maprasop, P., Samerwong, P. and Suttiwong, A.                                                                                                   | Long-Term Vegetation Dynamics, Environmental Changes, Anthropogenic Records, and Carbon Accumulation During 3,800 Years in Krabi Mangroves, Thailand                                 | Vegetation History and Archaeobotany                                            | Q1 | 1.9  | Environmental Science             |
| 8   | BL1.1W: MXT | Hazizi, M. H. Z., Salleh, M. A. A .M., Somidin, F., Zaimi, N. S. M., Nadzri, N. I. M., <u>Kamonsuangkasem, K., Tanthanuch, W., Tancharakorn, S., Mothong, N. and Wannapaiboon, S.</u>                                                                                              | Effect of Indium on Microstructure, Phase Stability, Anisotropic Lattice Behavior and Mechanical Performance of Sn-58Bi Solder Alloy                                                 | Journal of Materials Science: Materials in Electronics 36 (2025): 2117          | Q2 | 2.8  | Materials Science and Engineering |
| 9   | BL1.1W: MXT | Kao-ian, W., Tangthuam, P., Gopalakrishnan, M., <u>Kidkhunthod, P., Wannapaiboon, S., Limphirat, W., Padchasri, J.,</u> Aubert, N., Ciatto, G., Pornprasertsuk, R., Qin, J. and Kheawhom, S.                                                                                       | Operando Elucidation of Intergrowth-Driven Stabilization in MnO2 Cathodes for Wet Nonaqueous Zinc-Ion Batteries                                                                      | Journal of Power Sources 689 (2026): 240742                                     | Q1 | 7.9  | Materials Science and Engineering |
| 10  | BL1.1W: MXT | Mehta, K. H., Made, R. I., Agrotis, S., Parkin, I. P., Sankar, G. and Handoko, A. D.                                                                                                                                                                                               | Selective and Sustainable Oxidation of Allyl Alcohol in Water Using a TS-1 Catalyst in Continuous Flow: A Machine-Learning-Driven Approach                                           | ACS Sustainable Chemistry & Engineering                                         | Q1 | 7.3  | Chemistry                         |
| 11  | BL1.1W: MXT | Munthala, D., Raman, A., Sonklin, T., Buatip, N., <u>Leuasongnoen, P., Janphuang, P., Nijpanich, S., Klysubun, W., Chirawatkul, P.,</u> Gumma, V. L. P., Raju, K. C. J. and Pojprapai, S.                                                                                          | Amorphous to Crystalline Transformation of BCZT Films: a Complex Microstructure Studied by Synchrotron X-rays, Ferro-Electric, and Optical Spectroscopy                              | Journal of Materials Science: Materials in Electronics 37 (2026): 93            | Q2 | 2.8  | Surface, Interface and Thin Films |
| 12  | BL1.1W: MXT | Nanmong, T., Obrom, W., Yingyuen, W., Jaroenchur, T., Thamthong, P., Wittayakun, J., Prayoonpokarach, S., <u>Tawachkultanadilok, P., Poo-arporn, Y., Wannapaiboon, S., Chanlek, N.,</u> Rungtaweevoranit, B., Kosawatthanakun, S., Khemthong, P., Desaulniers, J. P. and Loiha, S. | Synergistic Effects of Fe Species Distribution and Acid Site Balance in Fe/Zelite Catalysts for 5-HMF Production from Glucose                                                        | RSC Advances 16 (Apr 2026): 18591-18611                                         | Q1 | 4.6  | Chemistry                         |
| 13  | BL1.1W: MXT | Nuyang, P., Phung-on, I., Peansukmanee, S., Choungthong, P. and <u>Saivasombat, C.</u>                                                                                                                                                                                             | Enhanced Corrosion Resistance of AISI 304 Stainless Steel via Atmospheric Glazing of Boron Nitride Thin Films                                                                        | Materials Research Express 13 (2026): 046501                                    | Q1 | 2.2  | Surface, Interface and Thin Films |
| 14  | BL1.1W: MXT | Petcharat, N., Kaewmuntree, N., Krobkrong, N., Hirunpinyopas, W., Chavalekvirat, P., Iamprasertkun, P., Thanasarnsurapong, T., Boonchun, A., <u>Kamonsuangkasem, K.</u> and Sirisaksoontorn, W.                                                                                    | The Interplay of Dy Doping and Sulfur Vacancies in MoS2 for an Efficient Hydrogen Evolution Reaction                                                                                 | ACS Omega 11 (Mar 2026): 16571-16581                                            | Q1 | 4.3  | Chemistry                         |
| 15  | BL1.1W: MXT | Phongsanam, N., Phetduang, S., <u>Niipanich, S., Tasarin, S.,</u> Wannakan, K., Ngamdee, K., Ren, X. K. and Ngeontae, W.                                                                                                                                                           | Mannich-Mediated Smartphone Fluorescence Detection of Formaldehyde Using Enhanced Peroxidase-Like Nanozyme-Magnetic Nanoparticle System                                              | Sensors & Actuators: B. Chemical 453 (Apr 2026): 139510                         | Q1 | 7.7  | Food and Agricultural Science     |
| 16  | BL1.1W: MXT | Piyakulworawat, C., Morita, K., Fukumoto, Y., Hsieh, W. Y., Chen, W. T., Nakajima, K., Ohira-Kawamura, S., Zhao, Y., <u>Wannapaiboon, S.</u> Piyawongwatthana, P., Sato, T. J. and Matan, K.                                                                                       | Coupled Dimerized Alternating-Bond Quantum Spin Chains in the Distorted Honeycomb-Lattice Magnet Cu5SbO6                                                                             | Physical Review Research 8 (2026): 013247                                       | Q1 | 4.2  | Physics                           |
| 17  | BL1.1W: MXT | Pramakhamo, S., Premanond, V., Daodon, W. and Pandee, P.                                                                                                                                                                                                                           | High-Temperature Sliding Wear Behavior of Bound Metal Deposited AISI H13 Tool Steel with Different Infill Patterns                                                                   | Materials Research Express 13 (2026): 046502                                    | Q2 | 2.2  | Materials Science and Engineering |
| 18  | BL1.1W: MXT | Phattrapornpisit, P., Piyanuch, P., Amornkittithaworn, P., Santatiwongchai, J., Impeng, S., <u>Wannapaiboon, S.,</u> Chansaenpak, K. and Kamkeaw, A.                                                                                                                               | AIE-Active BODIPY Sensors for High-Sensitivity and Selective Cu2+ Detection in Environmental and Biological Applications                                                             | Journal of Photochemistry and Photobiology A: Chemistry 475 (June 2026): 117027 | Q2 | 4.7  | Chemistry                         |

| No. | Beamline    | Author                                                                                                                                                                                          | Title                                                                                                                                                                                             | Source                                                              | Q  | IF   | Field                             |
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| 19  | BL1.1W: MXT | Ponchai, P., Adpakpang, K., Inchongkol, Y., <u>Wannapaiboon, S.</u> and Bureekaew, S.                                                                                                           | Tailoring Zn-based Zeolitic Imidazolate Frameworks via Ni Substitution: A Strategy for Enhanced Selective Alcohol Adsorption and Separation                                                       | Physical Chemistry Chemical Physics 27 (2025): 20625-20635          | Q2 | 2.9  | Materials Science and Engineering |
| 20  | BL1.1W: MXT | Pongpitakdamrong, A., Uengarporn, N., <u>Chirawatkul, P.</u> and Kongpuang, M.                                                                                                                  | Trace Element Imbalances in ADHD: Hair Mineral Profiling via Synchrotron X-ray Fluorescence and Wavelength-Dispersive X-ray Fluorescence                                                          | Biological Trace Element Research 204 (2026): 2675–2685             | Q1 | 3.6  | Medical Applications              |
| 21  | BL1.1W: MXT | Ruttakorn, A., Tocho, S., Yimnirun, R., Saisopa, T., Eknapakul, T., <u>Chirawatkul, P.</u> , Noonurak, R. and Bootchanont, A.                                                                   | The Effects of Zn and Sr Co-Doping on Local Structure, Dielectric Properties, and Bioactivity of Hydroxyapatite Porous Materials                                                                  | Radiation Physics and Chemistry 236 (Nov 2025): 112928              | Q2 | 3.3  | Medical Applications              |
| 22  | BL1.1W: MXT | Saengsrichan, A., Khemthong, P., Phanthasri, J., Namuangruk, S., Youngjan, S., Phawa, C., <u>Wannapaiboon, S.</u> , <u>Pakawanit, P.</u> , Sankar, G., Khunphonoi, R. and Khamdahsag, P.        | Engineered Thioglycolate-Activated Carbon Composites via Ambient Alcohol Esterification for Enhanced Mercury(II) Adsorption Performance: The Role of Alcohols in Thioglycolic Acid Esterification | Journal of Water Process Engineering 78 (Oct 2025): 108674          | Q1 | 6.7  | Environmental Science             |
| 23  | BL1.1W: MXT | Sangar, A. S., Putthisigamany, Y., Nazeri, M. F. M., Chelvanathan, P., Jun, T. S., Bednarek, A., <u>Wannapaiboon, S.</u> and Nadzri, N. I. M.                                                   | Annealing-Induced Oxide–Matrix Interactions and Their Impact on Electrical Properties of CoCrFeMnNi High-Entropy Alloy Thin Films                                                                 | Materials Chemistry and Physics 353 (Apr 2026): 132131              | Q1 | 4.7  | Materials Science and Engineering |
| 24  | BL1.1W: MXT | Sangar, A. S., Putthisigamany, Y., Nazeri, M. F. M., Chelvanathan, P., <u>Wannapaiboon, S.</u> , Huang, H. C., Su, T. C., Nadzri, N. I. M.                                                      | In-Situ Synchrotron Study on the Oxidation Behaviour of Titanium-Doped CoCrFeMnNi Thin Film Deposited by Magnetron Sputtering                                                                     | Vacuum 249 (Jun 2026): 115271                                       | Q1 | 3.9  | Surface, Interface and Thin Films |
| 25  | BL1.1W: MXT | Somdock, N., Theekhasuk, N., Voraud, A., Limsuwan, P., Naemchanthara, K., Sakulkalavek, A., Sakdanuphab, R. and Kaewjumras, Y.                                                                  | Post-Annealing Effects on (00l) Texture, Cl/Se Ratio, and Electrical and Glass-Like Thermal Transport in Bi4O4SeCl2                                                                               | Journal of Alloys and Compounds 1064 (Apr 2026): 187840             | Q1 | 6.3  | Materials Science and Engineering |
| 26  | BL1.1W: MXT | Subudhi, S., Padhy, A., Doddi, N., Chandana D., Barik, S., Sahoo, K. K., Behera, J. N., Nukala, P., Fichtner, M. and Barpanda, P.                                                               | Effect of Alkali Metal Ions in Electrolytes on the Electrocatalytic Performance of Cobalt Vanadium Oxide                                                                                          | ChemSusChem 19 (May 2026): e202600020                               | Q1 | 6.6  | Chemistry                         |
| 27  | BL1.1W: MXT | Tangthuam, P., Pipattanachaiyanan, P., Kao-ian, W., <u>Wannapaiboon, S.</u> , <u>Pakawanit, P.</u> , Wang, Y., Nagao, Y. Suttipong, M. and Kheawhom, S.                                         | Chelation-Buffer Co-Additives Enable Compact Zn Deposition and High-Rate Cycling in Zn–Br2 Hybrid Flow Batteries                                                                                  | ACS Applied Materials & Interfaces 18 (2026): 15747-15763           | Q1 | 8.2  | Materials Science and Engineering |
| 28  | BL1.1W: MXT | Tulanon, T., <u>Wannapaiboon, S.</u> and Insin, N.                                                                                                                                              | High-Entropy Antiperovskite Metal Nitrides with Nitrogen Vacancies as Magnetic Sonocatalysts for Ciprofloxacin Degradation                                                                        | Materials Today Catalysis 13 (Jun 2026): 100140                     | Q1 | 1.28 | Environmental Science             |
| 29  | BL1.1W: MXT | Theekhasuk, N., Sakdanuphab, R., Voraud, A., Limsuwan, P., Sakulkalavek, A. and Somdock, N.                                                                                                     | Enhanced Antimony Telluride Thermoelectric Generators: from Material Synthesis to Device Applications                                                                                             | Journal of the European Ceramic Society 45 (Dec 2025): 117585       | Q1 | 5.8  | Materials Science and Engineering |
| 30  | BL1.1W: MXT | Thongnopkun, P., Phlayrahan, A.                                                                                                                                                                 | Spectroscopic and Elemental Analyses of Purplish Red to Pink Spinels from Myanmar, India, Mahenge, and Tunduru (Tanzania)                                                                         | Journal of Applied Spectroscopy 92 (2025): 1063-1072                | Q4 | 1    | Environmental Science             |
| 31  | BL1.1W: MXT | Wang, J., Wang, D., He, Z., Yan, M., Xiang, Y., Li, H., Xu, L. and Li, J.                                                                                                                       | Facet-Tailored Co3O4 as Electronic Regulator and Stabilizing Support for Ru Nanocluster: Toward Efficient Alkaline HER                                                                            | Energy & Environmental Materials 9 (Mar 2026): e70172               | Q1 | 14.1 | Chemistry                         |
| 32  | BL1.1W: MXT | Wang, X., Zhang, B., Yu, R., Jin, S., Wang, W., Xue, S., Yu, R., Zhang, L., An, Q. and Mai, L.                                                                                                  | Resolving the Kinetics-Stability Trade-Off in Prussian Blue Analogues for Aqueous Ca-Ion Batteries: A High-Entropy Vacancy Caging Strategy                                                        | Journal of the American Chemical Society                            | Q1 | 15.7 | Materials Science and Engineering |
| 33  | BL1.1W: MXT | Wechprasit, T., Bootchanont, A., Infahsaeng, Y., Wongjom, P., <u>Wannapaiboon, S.</u> , Kaewprajak, A., Kumnorkaew, P., Sailuam, W., Saisopa, T., Saenrang, W., Pecharapa, W. and Maiaugree, W. | The Influence of Palladium Doping on the Structural, Morphological, Optical and Electronic Properties of Formamidinium Lead Iodide Perovskite Films                                               | Radiation Physics and Chemistry 217 (Dec 2025): 112997              | Q2 | 3.3  | Surface, Interface and Thin Films |
| 34  | BL1.1W: MXT | Wen, T., Chen, X., Hu, H., Yan, X., <u>Kamonsuangkasem, K.</u> , Feng, G., Zhang, R., Ye, R., Kawi, S.                                                                                          | Tuning Y-Mg Supports for Improved Ni-Catalyzed NH3 Decomposition: Structural Modulation and Mechanistic Insights                                                                                  | Rare Metals 45 (Jun 2026): e70378                                   | Q1 | 11   | Chemistry                         |
| 35  | BL1.1W: MXT | Wijitsak, J., Boonprab, J., Harding, P., Harding, D. J., Clegg, J. K., Kaewket, K., Jakkrawhad, C., <u>Niipanich, S.</u> , <u>Wannapaiboon, S.</u> and Kaewraung, W.                            | Redox-Engineered Copper(II) Methylthio-Imidazole Schiff Base Complex for Electrochemical Detection of Creatinine as a Kidney Disease Biomarker                                                    | Sensors and Actuators: B. Chemical 445 (Dec 2025): 138590           | Q1 | 7.7  | Medical Applications              |
| 36  | BL1.1W: MXT | Xu, H., Liu, K., Deng, C., Ayyub, A., Zhou, Y., Wan, Z., Yuan, W., Yao, Y., <u>Kamonsuangkasem, K.</u> , Xu, M., Zheng, W., Zu, H. and Yang, W.                                                 | 0D/2D S-scheme NFCN/ZIS Heterojunction with Ultrafast Electron Transfer and Enhanced Photocatalytic Performance                                                                                   | Journal of Environmental Chemical Engineering 14 (Feb 2026): 120912 | Q1 | 7.2  | Chemistry                         |
| 37  | BL1.1W: MXT | Xue, Q., Qian, S., Lim, K. H., Wee, M. X. J., Nie, K., Cheng, S., Chen, X., <u>Chirawatkul, P.</u> , Johannessen, B., Yan, B., Yin, Z., Wang, Y., Luo, G., Gates, B. C. and Kawi, S.            | Nanoscale Core–Shell Catalysts for H2 Production by Methane Decomposition: Supported Nickel Nanoparticles Ensheathed in Metal Oxides                                                              | Journal of the American Chemical Society 147 (2025): 38141-38157    | Q1 | 15.6 | Chemistry                         |

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| 38  | BL1.1W: MXT | Yang, Z., Cheng, H., Yang, W., Shen, Y., Ding, Y., Diao, L., Feng, S. and Xu, L.                                                                                                                                                                                                                                | Local Microenvironment-Induced Dynamic Self-Adaptation for High-Performance Ammonium-Ion Batteries                                                                                           | ACS Nano 19 (Oct 2025): 37154-37164                                    | Q1 | 16.1 | Materials Science and Engineering |
| 39  | BL1.1W: MXT | Yao, R., Zhang, H. H., Lim, K. H., Li, C., Tang, H., <u>Kamonsuangkasem, K.</u> , Tan, L., Sunarso, J., Kawi, S. and Song, G.                                                                                                                                                                                   | Dual-Precursor Coating Strategy for One-Step Upgrade of LiFePO4 to LiMn0.6Fe0.4PO4 Cathodes with Atomic-Level Mn/Fe Uniformity and Enhanced Electrochemical Performance                      | Journal of Materials Chemistry A 14 (2026): 7640-7654                  | Q1 | 9.5  | Materials Science and Engineering |
| 40  | BL1.1W: MXT | Yu, Y., Zhou, X., Yan, L., Yang, L., Hong, J., <u>Kamonsuangkasem, K.</u> , Wang, P., and Kandegama, W. M. W. W., Hao, G. and Zhang, L.                                                                                                                                                                         | Spatial Organization of an Enzyme Cascade in Ni-ZIF-8 Framework for Efficient Sugar Nucleotide Synthesis                                                                                     | Green Chemistry 28 (2026): 4474-4489                                   | Q1 | 9.2  | Chemistry                         |
| 41  | BL1.1W: MXT | Zaimi, N. S. M., Salleh, M. A. A. M., Aziz, M. S. A., Nadzri, N. I. M., Hazizi, M. Z., <u>Kamonsuangkasem, K.</u> , <u>Tanthanuch, W.</u> , <u>Tancharakorn, S.</u> , <u>Mothong, N.</u> and Khor , C. Y.                                                                                                       | The Effects of Indium on the Microstructural Evolution, Lattice Characteristics, Thermal Stability and Mechanical Performance in Sn-3.0Ag-0.5Cu Solder Alloys                                | Journal of Materials Science: Materials in Electronics 37 (2026): 218  | Q2 | 2.8  | Materials Science and Engineering |
| 42  | BL1.1W: MXT | Zhang, X., Chen, X., Qu, B., Niu, J., Ma, C., Hu,Z., Xiong, Y., <u>Saivasombat, C.</u> , <u>Kamonsuangkasem, K.</u> , Feng, G., Ye, R., Ding, S., Zhang, R. and Kawi, S.                                                                                                                                        | Thermally Cured Nickel-Based Catalysts Enabling High-Activity Plasma-Assisted CO2 Hydrogenation                                                                                              | Journal of Colloid and Interface Science 718 (Sep 2026): 140478        | Q1 | 9.7  | Chemistry                         |
| 43  | BL1.2: XTM  | Angnanon, A., Kothan, S., Damdee, B., Sarumaha, C.S., Intachai, N., Triamnak, N., <u>Pakawanit, P.</u> , <u>Phoovasawat, C.</u> , <u>Busavaporn, W.</u> , Kim, H. J., Ruangtawee, Y., Nualpralaksana, S. and Kaewkhao, J.                                                                                       | Development of Eco-Friendly and Highly Efficient Red Emitting Gd(1-x)EuxCa4O(BO3)3 Scintillators for High-Resolution X-Ray Imaging Applications                                              | Radiation Physics and Chemistry                                        | Q2 | 3.3  | Materials Science and Engineering |
| 44  | BL1.2: XTM  | Aupama,V., Yoopensuk, W., <u>Wannapaiboon, S.</u> , <u>Pakawanit, P.</u> , Hadsadee, S., Jungsuttiwong, S., Guo, L. J., Wu, T. H., Wu, H. L., Suttipong, M. and Kheawhom, S.                                                                                                                                    | Ion-Coordination-Active UiO-66-SO3H Coating Stabilizes Zn Metal Anodes via Sulfonate-Directed Zn2+ Desolvation                                                                               | ACS Applied Materials & Interfaces                                     | Q1 | 8.2  | Materials Science and Engineering |
| 45  | BL1.2: XTM  | Chauntrakul, K., Photichark, P., Somnuake, P., Teeka, W., <u>Pakawanit, P.</u> , Praserttham, P. and Wacharawichanant, S.                                                                                                                                                                                       | Poly(Lactic Acid) Stereocomplex Cast Films With Microwave Resistant Properties by Cellulose From Hemp Biomass Composites                                                                     | Journal of Applied Polymer Science 143 (Apr 2026): e70542              | Q2 | 2.8  | Polymers                          |
| 46  | BL1.2: XTM  | Hajra, S., Panda, S., Kaja, K. R., Song, S., Ryu, Y., Panigrahi, B. K., Vittayakorn, N., Lee, J. H., Jeong, S. M. and Kim, H. J.                                                                                                                                                                                | Mechanoluminescent-Energy Harvesting Bimodal Sensors for Self-Powered Communication Sensors                                                                                                  | Journal of Materials Chemistry C 13 (2025): 19297-19307                | Q1 | 5.1  | Micro Nanotechnology              |
| 47  | BL1.2: XTM  | Hanpramukkun, N., Teruya, T., <u>Charoenwattanasatien, R.</u> , <u>Pakawanit, P.</u> , Limsitthichaikoon, S.                                                                                                                                                                                                    | Development and Evaluation of Modified Dioscorea hispida Starch as a Sustainable Super-Disintegrant for Immediate-Release Tablets                                                            | Polysaccharides 6 (2025): 109                                          | Q1 | 5.5  | Medical Applications              |
| 48  | BL1.2: XTM  | Hoe-Woon, T., Cheng-Yong, H., Yun-Ming, L., Qi-Hwa, N., Wei-Hao, L., Kai Loong, F., <u>Pakawanit, P.</u> , Supramanian, D., Jia Ni, L., Yu-Xin, Y., Shee-Ween, O. and Mei-Ju, L.                                                                                                                                | Elucidating the Interplay Between Pore Microstructure and Heavy Metal Leaching of Rubber Sludge in Fly Ash Geopolymers                                                                       | Journal of Environmental Chemical Engineering 13, 5 (Oct 2025): 117698 | Q1 | 7.2  | Materials Science and Engineering |
| 49  | BL1.2: XTM  | Intachai, N., Rachniyom, W., Wantana, N., Tariwong, Y., Khongchaiyaphum, F., Sarumaha, C. S., <u>Pakawanit, P.</u> , Phoovasawat, C., Kanjanaboos, P., Rucangsawang, W., Kim, H. J., Niamin, H., Kothan, S. and Kaewkhao, J.,                                                                                   | Synchrotron Radiation-Based X-rays Imaging by Dy3+ Doped Silicoborate Glass Scintillator: Fabrication, Optical, Luminescence and Scintillation Performances                                  | Radiation Physics and Chemistry 237 ( Dec 2025): 113100                | Q1 | 3.3  | Materials Science and Engineering |
| 50  | BL1.2: XTM  | Intachai, N., Rachniyom, W., Wantana, N., Thanyaphirak, W., Khongchaiyaphum, F., Sarumaha, C. S., <u>Pakawanit, P.</u> , Phoovasawat, C., Kanjanaboos, P., Choodam, K., Kim, H. J., Tariwong, Y., Niamin, H., Kothan, S. and Kaewkhao, J.,                                                                      | High Quantum Yield Glass Scintillator Based on Ta2O5 and La2O3 in Mixed Glass Former for Synchrotron and Medical X-Rays Imaging Applications                                                 | Radiation Physics and Chemistry 238 (Jan 2026): 113113                 | Q2 | 3.3  | Medical Applications              |
| 51  | BL1.2: XTM  | Jarucha, N., Ruangtawee, Y., Meejitpaisan, P., Kim, H. J., Boontueng, P., Kobdaj, C., Ritjoho, N., Sanghangthum, T., Valiev, D., Stepanov, S., <u>Pakawanit, P.</u> , Phoovasawat, C., Intachai, N., Kothan, S., Minh, P.H., Duong, P. V., Nishikawa, A., Kunikata, T., Kato, T., Yanagida, T. and Kaewkhao, J. | Tb3+ Doped Na2O-CaO-Al2O3-B2O3 Scintillating Glass: Calibration Material for Luminescence Spectrometers and X-ray Imaging Application                                                        | Radiation Physics and Chemistry 239 (Feb 2026): 113302                 | Q2 | 3.3  | Materials Science and Engineering |
| 52  | BL1.2: XTM  | Jindaina, S., Supansomboon, S., Wanakamol, P., <u>Pakawanit, P.</u> , Phinichka, N. and Boonsombuti, A.                                                                                                                                                                                                         | Valorization of Fibrous Sludge Waste in Ecofriendly Particleboard Production Using Citricsucrose Based Bio-Adhesives                                                                         | Journal of Wood Chemistry and Technology                               | Q3 | 1.7  | Materials Science and Engineering |
| 53  | BL1.2: XTM  | Kaja, K. R., Hajra, S., Panda, S., Belal, M., Nam, S., <u>Pakawanit, P.</u> , Panigrahi, B. K., Khanbareh, H., Bowen, C., Yu, J. and Kim, H. J.                                                                                                                                                                 | Waste Polyethylene-Coated Fabrics for Dual-Mode Interfaces Triboelectrification for Self-Powered Sensors                                                                                     | Results in Engineering 28 (Dec 2025): 107111                           | Q1 | 7.9  | Micro Nanotechnology              |
| 54  | BL1.2: XTM  | Kantrong, H., Prasert, W., Pantoa, T., Apisittiwong, T., <u>Roiviriya, C.</u> , <u>Phoovasawat, C.</u> and Pan-utai, W.                                                                                                                                                                                         | Influence of Low-Dose Functional Agents and Long Cooling Die Temperature on Physicochemical, Functional and Digestibility Characteristics of Microalgae-Fortified High-Moisture Meat Analogs | Applied Food Research 6 (Jun 2026): 101735                             | Q1 | 6.2  | Food and Agricultural Science     |
| 55  | BL1.2: XTM  | Kaewnuam, E., Wantana, N., Ondee, W., Kedkaew, C., Khongchaiyaphum, F., Chanthima, N., <u>Pakawanit, P.</u> , Phoovasawat, C., Sangwanatee, N., Intachai, N., Kothan, S., Kim, H. J. and Kaewkhao, J.                                                                                                           | Tri-Luminescence Centers in Barium Phosphate Glass: Toward Ultra-High Spatial Resolution, High Quantum Yield and High Scintillation Efficiency for X-ray Imaging Application                 | Journal of Alloys and Compounds 1070 (Jun 2026): 188551                | Q1 | 6.3  | Materials Science and Engineering |
| 56  | BL1.2: XTM  | Kaewsatuan, P., Khosinklang, W., Khotsalee, S., <u>Roiviriya, C.</u> , Oryza, M., Molee, A. and Molee, W.                                                                                                                                                                                                       | Rearing Systems Alter Growth Performance, Behavior, Brain Characteristics, and Meat Quality in Slow-Growing Korat Broiler Chickens                                                           | Poultry Science 105 (Jul 2026): 106916                                 | Q1 | 4.2  | Food and Agricultural Science     |

| No. | Beamline   | Author                                                                                                                                                                                                                                       | Title                                                                                                                                                                                     | Source                                                         | Q  | IF   | Field                             |
|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----|------|-----------------------------------|
| 57  | BL1.2: XTM | Kerdmanee, K., Hanpramukkun, N., <u>Charoenwattanasatien, R., Pakawanit, P.</u> and Limsitthichaikoon, S.                                                                                                                                    | Biopolymeric Composite Films of!Hyaluronic Acid and!Gellan Gum for!Localized and!Sustained Azithromycin Delivery in!Periodontal Therapy                                                   | AAPS PharmSciTech 27 (2026): 23                                | Q1 | 4    | Medical Applications              |
| 58  | BL1.2: XTM | Khanema, P., Laojinda, W., <u>Roiviriva, C.</u> and Manasathien, J.                                                                                                                                                                          | Calcium Dominance, Ion Regulation, and Metabolic Defenses Underlie Salt Tolerance in the Halophyte Azima Sarmentosa                                                                       | Plant Biology 14 (Apr 2026): e21162                            | Q1 | 3.6  | Biological and Life Science       |
| 59  | BL1.2: XTM | Khongkliang, P., Nuchdang, S., Rattanaphra, D., Issarapanacheewin, S., Phalakornkule, C., <u>Pakawanit, P.</u> , Pomroongruengchok, W. and Kingkam, W.                                                                                       | Development of Zeolite Adsorbent Efficiency using Amine Solution for Carbon Dioxide Capture Technology                                                                                    | Results in Engineering 31 (Sep 2026): 111506                   | Q1 | 7.9  | Environmental Science             |
| 60  | BL1.2: XTM | Khongtong, P., Wattana, K., Pattanasiripong, P. P., Phatchan, S., Thubsuang, U. and Khongtong, S.                                                                                                                                            | From porous to buoyant: moisture-barrier mechanism in polymer-treated oil palm trunk for floating applications                                                                            | Composite Interfaces                                           | Q2 | 2.4  | Materials Science and Engineering |
| 61  | BL1.2: XTM | Khrongchaiyaphum, F., Wantana, N., Sarumaha, C. S., Kaewnuam, E., <u>Pakawanit, P.</u> , Phoovasawat, C., Kantuptim, P., Yanagida, T., Kim, H. J., Intachai, N., Kothan, S. and Kaewkhao, J.                                                 | Ce3+ Doped Borophosphate Scintillating Glass for High Spatial Resolution Synchrotron X-rays Imaging Application                                                                           | Radiation Physics and Chemistry 237 (Dec 2025): 113093         | Q2 | 3.3  | Medical Applications              |
| 62  | BL1.2: XTM | Khrongchaiyaphum, F., Wantana, N., Ruangtawee, Y., Chanthima, N., <u>Pakawanit, P.</u> , Phoovasawat, C., Kim, H. J., Intachai, N., Kothan, S. and Kaewkhao, J.                                                                              | Energy transfer of Ce3+/Tb3+ doped in borophosphate glass scintillator for ultra high-resolution synchrotron X-ray imaging                                                                | Journal of Luminescence 288 (Dec 2025): 121559                 | Q2 | 3.6  | Materials Science and Engineering |
| 63  | BL1.2: XTM | Khrongchaiyaphum, F., Wantana, N., <u>Pakawanit, P.</u> , Phoovasawat, C., Jarucha, N., Boontueng, P., Kobdaj, C., Ritjoho, N., Sanghangthum, T., Valiev, D., Stepanov, S., Chanthima, N., Intachai, Kothan, S., Kim, H. J. and Kaewkhao, J. | Scintillation Responses and X-rays Imaging Application of Dy3+- Doped in Borophosphate Glass                                                                                              | Radiation Physics and Chemistry 239 (Feb 2026): 113368         | Q2 | 3.3  | Materials Science and Engineering |
| 64  | BL1.2: XTM | Kruangkum, T., <u>Pakawanit, P.</u> , Jaiboon, K., Sanguanrut, P., Saedan, S., Sritunyaluksana, K., Thitamadee, S. and Vanichviriyakit, R.                                                                                                   | Unlocking the Hidden Anatomy: Synchrotron Micro-Tomography of the Stomach, Midgut, and Organs in Penaeus Vannamei and the Potential Route of Enterocytozoon Hepatopaenaei (EHP) Infection | Cell and Tissue Research                                       | Q1 | 2.9  | Biological and Life Science       |
| 65  | BL1.2: XTM | Li, X., Lai, G., Deng, W., Wei, Z., Li, J., Fang, C., Zuo, T., Cheng, H., <u>Pakawanit, P.</u> , Cui, S., Qiu, B., Zhou, X., Zheng, J. and Tang, Y.                                                                                          | Interfacial Excess Charge Dynamics as a Quantitative Descriptor to Understand Lithium Dendrite Growth                                                                                     | Nature Communications                                          | Q1 | 15.7 | Materials Science and Engineering |
| 66  | BL1.2: XTM | Lobregas, M. O., Rangkupan, R., Kuo, H. P., Tu, Y. M. and Klaysom, C.                                                                                                                                                                        | Dual-Nozzle Electrospinning for Janus Membranes in Membrane Distillation of Highly Saline and Oil-Contaminated Waters                                                                     | ACS Omega 10 (Oct 2025): 45543-45556                           | Q1 | 4.3  | Materials Science and Engineering |
| 67  | BL1.2: XTM | Ondee, W., Kedkaew, C., Wantana, N., Kaewnuam, E., Khrongchaiyaphum, F., Chanthima, N., <u>Pakawanit, P.</u> , Phoovasawat, C., Sangwaranatee, N., Intachai, N., Kothan, S., Kim, H. J. and Kaewkhao, J.                                     | Ce3+ Doped BaO-Gd2O3-P2O5 Glass: New Glass Scintillator for X-rays Detector and Imaging Applications                                                                                      | Radiation Physics and Chemistry 238 (Jan 2026): 113205         | Q2 | 3.3  | Materials Science and Engineering |
| 68  | BL1.2: XTM | Panpho, P., Charoonsuk, T., <u>Pakawanit, P.</u> , Bongkarn, T., Vitayakorn, N. and Sumang, R.                                                                                                                                               | Upcycling Waste Mycelium Into Chitosan-Based Biodegradable Triboelectric Nanogenerators with Enhanced Energy Output                                                                       | Radiation Physics and Chemistry 249 (2026): 114161             | Q2 | 3.3  | Materials Science and Engineering |
| 69  | BL1.2: XTM | Payungkulan, K., Tungjai, M., Wantana, N., Chanthima, N., Sarumaha, C.S., <u>Pakawanit, P.</u> , Phoovasawat, C., Kanjanaboos, P., Choodam, K., Kim, H. J., Kothan, S. and Kaewkhao, J.                                                      | Synchrotron X-ray Imaging Material from High Quantum Yield Sm3+- Doped Li2O–Gd2O3–ZrO2–P2O5 Glass                                                                                         | Radiation Physics and Chemistry 237 (Dec 2025): 113072         | Q2 | 3.3  | Materials Science and Engineering |
| 70  | BL1.2: XTM | Payungkulan, K., Tungjai, M., Wantana, N., Chanthima, N., Sarumaha, C. N., <u>Pakawanit, P.</u> , Phoovasawat, C., Intachai, N., Kim, H. J., Kothan, S. and Kaewkhao, J.                                                                     | Dy3+-doped Li2O–Gd2O3 –ZrO2–P2O5 Glass: Scintillation behaviors and Synchrotron X-ray Imaging Application                                                                                 | Journal of Luminescence 288 (Dec 2025): 121514                 | Q2 | 3.6  | Materials Science and Engineering |
| 71  | BL1.2: XTM | Pongampai, S., Chaithawee, K., <u>Pakawanit, P.</u> , Charoonsuk, T., Bongkarn, T., Maluangnont, T., Vittayakorn, W., Hajra, S., Kim, H. J. and Vittayakorn, N.                                                                              | Kirigami-Engineered “Skeletal Framework” Composite for Ultralow Hysteresis and Highly Stable Strain Sensors                                                                               | ACS Sustainable Chemistry & Engineering 13 (2025): 20179-20193 | Q1 | 7.31 | Materials Science and Engineering |
| 72  | BL1.2: XTM | Rachakom, A., Boonsong, P., <u>Pakawanit, P.</u> , Chaipisan, K., Sirirapa, P. and Watcharapasorn, A.                                                                                                                                        | An Experimental Study on SnO2/Expanded Perlite Additive in Red Soil for Xray Shielding and Thermal Insulation Applications                                                                | Radiation Physics and Chemistry 239 (Feb 2026): 113236         | Q2 | 3.3  | Materials Science and Engineering |
| 73  | BL1.2: XTM | Rittipakorn, P., Ouyyamwongs, W. and Boonpitak, K.                                                                                                                                                                                           | Innovation of Clockwise Osseodensification Technique for Primary Stability in Dental Implant: a Low-Density Bone Cadaveric Study                                                          | Frontiers in Dental Medicine 6 (2025): 1712749                 | Q1 | 1.8  | Medical Applications              |
| 74  | BL1.2: XTM | Rueangsuwan, J., Khomlaem, C., <u>Pakawanit, P.</u> , Siengchin, S. and Suttiruengwong, S.                                                                                                                                                   | Bioaggregate Composites as Bio-based thermal Insulation Materials: Influence of Microstructure, Porosity, and Inorganic Content                                                           | Radiation Physics and Chemistry 248 (2026): 114104             | Q2 | 3.3  | Materials Science and Engineering |
| 75  | BL1.2: XTM | Rungruangkitkrai, N., Apipatpapha, T., Chartvivatpornchai, N., Boonyarit, J., Suphamitmongkol, W., Ounu, P., <u>Pakawanit, P.</u> , Rujanakraikarn, R., Mongkholrattanasit, R. and Chollakup, R.                                             | Valorization of Pineapple Leaf Agro-Residues into Bio-Based Ring-Spun Yarns: Microstructural Mapping and Mechanical Behavior of PALF–Cotton Blends                                        | Journal of Sustainability Research 8 (2026): e260046           | Q2 | 2.03 | Materials Science and Engineering |

| No. | Beamline   | Author                                                                                                                                                                                                                                   | Title                                                                                                                                                                                             | Source                                                      | Q  | IF       | Field                             |
|-----|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----|----------|-----------------------------------|
| 76  | BL1.2: XTM | Saengpoe, P., Supasai, W., Amorntep, N., Nilnumpetch, C., Nokkaew, M., Samanjit, W., Treetong, A., Saetang, C., Charoonsuk, T., <u>Pakawanit, P.</u> , Chiu, T. W., Sriphan, S., Surawanitkun, C., Siritaratiwat, A. and Vittayakorn, N. | A Self-Powered and Chemically Responsive Triboelectric Nanogenerator Based on Surface Protonation in SrO2 Nanopowder/Graphene Oxide/epoxy Composite for pH Sensing                                | ACS Applied Nano Materials 8 (Dec 2025): 23171-23185        | Q1 | 5.5      | Materials Science and Engineering |
| 77  | BL1.2: XTM | Saengsrichan, A., Khemthong, P., Phanthasri, J., Namuangruk, S., Youngjan, S., Phawa, C., <u>Wannapaiboon, S., Pakawanit, P.</u> , Sankar, G., Khunphonoi, R. and Khamdahsag, P.                                                         | Engineered Thioglycolate-Activated Carbon Composites via Ambient Alcohol Esterification for Enhanced Mercury(II) Adsorption Performance: The Role of Alcohols in Thioglycolic Acid Esterification | Journal of Water Process Engineering 78 (Oct 2025): 108674  | Q1 | 6.7      | Environmental Science             |
| 78  | BL1.2: XTM | Saichompoo, K., Rattanawongwiboon, T., Kingkam, W., <u>Pakawanit, P.</u> , Sukkha, U., Onoda, H., Hajra, S., Khanapuram, U. K., Charoonsuk, T. and Vittayakorn, N.                                                                       | The Y3+ Donor-Doped CCTO (Ca0.95Y0.05Cu3Ti4O12) Dielectric Fillers for Electrical Output Enhancement of Flexible Triboelectric Nanogenerator                                                      | Advanced Engineering Materials 28 (Jun 2026): e202503196    | Q1 | 3.3      | Materials Science and Engineering |
| 79  | BL1.2: XTM | Sahu, M., Hajra, S., Padhan, A. M., Park, K. J., Ro, S., <u>Pakawanit, P.</u> , Keum, H. and Kim, H. J.                                                                                                                                  | PDMS/BNT-BKT Composite-Based Triboelectric Nanogenerator for Self-Powered Health Monitoring                                                                                                       | ACS Applied Energy Materials 9 (2026): 1029-1037            | Q1 | 5.6      | Materials Science and Engineering |
| 80  | BL1.2: XTM | Sereerattanakorn, P., <u>Padchasri, J.</u> , Pornprasertsuk, R. and <u>Kidkhunthod, P.</u>                                                                                                                                               | A Dual-Function Lithium Borate Glass Ceramics–Copolymer Composite Interlayer for Lithium–Sulfur Batteries                                                                                         | Journal of Alloys and Compounds 1060 (Mar 2026): 187284     | Q1 | 6.3      | Materials Science and Engineering |
| 81  | BL1.2: XTM | Saowapan, T., Somna, R., Somna, K., Suebsuk, J., <u>Pakawanit, P.</u> and Chindaprasirt, P.                                                                                                                                              | Eco-Friendly Binder for Pavement Applications: Strength and Microstructure Analysis of Geopolymer Made From Fly Ash, Bagasse Ash, and Calcium Carbide Residue                                     | Advances in Materials Science and Engineering               | Q2 | F21-2.09 | Materials Science and Engineering |
| 82  | BL1.2: XTM | Sarumaha, C. S., Kaewnuam, E., Kantuptim, P., Nishikawa, A., Kato,T., Yanagida, T., Kothan, S., <u>Busavaporn, W., Pakawanit, P., Phoovasawat, C.</u> , Ruangtawee, Y., Sangwaranatee, N., Limsuwan, P. and Kaewkhao, J.                 | Enhanced Luminescence and Scintillation Performance of Ce-Doped Silico- and Germanophosphate Glasses for Ultra-High Resolution Synchrotron X-ray Imaging Applications                             | Journal of Alloys and Compounds 1071 (Jun 2026): 188693     | Q1 | 6.3      | Materials Science and Engineering |
| 83  | BL1.2: XTM | Siriroj, S., <u>Padchasri, J., Pakawanit, P., Nijapai, P., Sereerattanakorn, P., Luangthanarak, H., Pisitpipathsin, N., Nualchimplee, C.</u> and Kidkhunthod, P.                                                                         | The Impact of Fillers on Semi-Solid Electrolytes for Li-Ion Battery Applications                                                                                                                  | Journal of Alloys and Compounds 1048 (Dec 2025): 185337     | Q1 | 6.3      | Materials Science and Engineering |
| 84  | BL1.2: XTM | Sittitanadol, I., Salyajivin, S., Khuanbuppha, N., Phuendonkheng, P., Singsang, W. and Prasoetsopha, N.                                                                                                                                  | Experimental and Simulation of Teak Sawdust Reinforced in Recycled Polypropylene: A Comprehensive Evaluation of Thermal, Mechanical, and Physical Properties                                      | Polymer Composites                                          | Q1 | 4.7      | Materials Science and Engineering |
| 85  | BL1.2: XTM | Sukkha, U., Teandam, A., <u>Pakawanit, P.</u> , Kamonpha, P., Vittayakorn, W., Pulphol, P. and Vittayakorn, N.                                                                                                                           | Cold Sintering-Assisted Low Temperature Fabrication of Dense Ba5Nb4O15 Ceramics                                                                                                                   | Journal of Metals, Materials and Minerals, 36 (2026): e2564 | Q2 | 0.5      | Materials Science and Engineering |
| 86  | BL1.2: XTM | Suktep, N., Sae-tang, C., Ukasi, S., <u>Pakawanit, P.</u> , Supansomboon, S., Kaewkhao, J., Vittayakorn, W., Maluangnont, T., Chiu, T., Charoonsuk, T. and Vittayakorn, N.                                                               | An Architected Silk Fibroin-Lignin Multilayer with Deep-Level Trapping States for High-Output Triboelectric Nanogenerators                                                                        | Materials Today Nano 33 (Nov 2026): 100724                  | Q1 | 8.2      | Materials Science and Engineering |
| 87  | BL1.2: XTM | Suwanphiphat, S., Yang, J. Y., Chuang, C. H., Kitsawat, V., Siri, S., Li, P. K., Li, C. Y., Alagarsamy, S., Phisalaphong, M. and Liao, Y. C.                                                                                             | Natural Rubber-Based Nanocomposites for Strain and Pressure Sensing in Healthcare Applications                                                                                                    | Journal of the Taiwan Institute of Chemical Engineers       | Q1 | 6.3      | Materials Science and Engineering |
| 88  | BL1.2: XTM | Tangthuam, P., Pipattanachaiyanan, P., Kao-ian, W., <u>Wannapaiboon, S., Pakawanit, P.</u> , Wang, Y., Nagao, Y. Suttipong, M. and Kheawhom, S.                                                                                          | Chelation-Buffer Co-Additives Enable Compact Zn Deposition and High-Rate Cycling in Zn–Br2 Hybrid Flow Batteries                                                                                  | ACS Applied Materials & Interfaces 18 (2026): 15747-15763   | Q1 | 8.2      | Materials Science and Engineering |
| 89  | BL1.2: XTM | Tapanya, M., Kothan, S., Htun, K. T., Wantana, N., Ruangtawee, Y., Tariwong, Y., Intachai, N., Tungjai, M., <u>Pakawanit, P.</u> , Phoovasawat, C., <u>Busavaporn, W.</u> , Kim, H. J., Minh, P. H., Sangwaranatee, N. and Kaewkhao, J.  | Ce <sup>3+</sup> -Doped NaCaGdP Scintillating Glasses for Ultra High-Resolution X-ray Synchrotron Tomography Application: Energy Transfer, Concentration and Oxidation State Effect               | Journal of Alloys and Compounds 1064 (Apr 2026): 187787     | Q1 | 6.3      | Materials Science and Engineering |
| 90  | BL1.2: XTM | Tapanya, M., Kothan, S., Htun, K. T., Wantana, N., Ruangtawee, Y., Tariwong, Y., Intachai, N., Tungjai, M., <u>Pakawanit, P., Phoovasawat, C.</u> , Kim, H. J., Minh, P. H. and Kaewkhao, J.                                             | Sm3+ Doped Phosphate Glasses for Scintillation Material Application: Energy Transfer, Luminescence, and High-Resolution Synchrotron X-ray Imaging Behaviors                                       | Radiation Physics and Chemistry 248 (2026): 114126          | Q2 | 3.3      | Materials Science and Engineering |
| 91  | BL1.2: XTM | Tariwong, Y., Kothan, S., Kim, H. J., Quang, N. D., Khan, A., Ton, N. D., Danie, J., Luan, N. T., Wantana, N., Pakawanit, P., Phoovasawat, C., Intachai, N., Kaewjaeng, S., Tungjai, M. and Kaewkhao, J.                                 | Luminescence and Scintillation Behaviors of Sr co-doped CsI(Tl) Crystal Scintillator: Application to Synchrotron and Medical X-rays Imaging                                                       | Radiation Physics and Chemistry 239 (Feb 2026): 113235      | Q2 | 3.3      | Medical Applications              |
| 92  | BL1.2: XTM | Tariwong, Y., Pulphol, P., Sangtawesin, T., Seriwattanachai, C., Kanjanaboos, P., <u>Pakawanit, P., Chanlek, N.</u> , Charoonsuk, T., Onoda, H., Vittayakorn, N. and Maluangnont, T.                                                     | Titanate Nanosheets/Cellulose Composite Showing Improved Crystallinity and Decreased Water Wettability by Gamma-Irradiation                                                                       | Langmuir 41 (2025): 31569-31579                             | Q1 | 3.9      | Materials Science and Engineering |
| 93  | BL1.2: XTM | Unruan, S., Nuilek, K., Somdee, P., Unruan, M., Nithikarnjanatharn, J., <u>Pakawanit, P.</u> , Malasri, K. and Thongsodsang, C.                                                                                                          | Characterization of Banana Fiber-Reinforced Bioplastics for Environmentally Friendly Packaging Applications                                                                                       | Applied Science and Engineering Progress 19 (2026): 8035    | Q2 | 2.52     | Polymers                          |
| 94  | BL1.2: XTM | Wannasen, L., Pimsawat, A., Mingmuang, Y., Khamkhantee, N., Daengsakul, S., Wongprasod, S., Tanapongpisit, N., <u>Roiviriya, C.</u> , Vongpramate, D., Saenrang, W., Wongrakpanich, A. and Khamkongkao, A.                               | Defect-Engineered Biphasic Calcium Phosphate Scaffolds from Nile Tilapia Bone: Calcination-Controlled Phase Evolution and Structure–Bioactivity Coupling                                          | Materials & Design 268 (2026) 116429                        | Q1 | 7.9      | Materials Science and Engineering |

| No. | Beamline     | Author                                                                                                                                                                                                      | Title                                                                                                                                                  | Source                                                                                   | Q   | IF    | Field                             |
|-----|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----|-------|-----------------------------------|
| 95  | BL1.2: XTM   | Wantana, N., Kaewnuam, E., Khrongchaiyaphum, F., <u>Pakawanit, P., Phoovasawat, C., Chanlek, N.</u> , Sangwaranatee, N. W., Intachai, N., Kothan, S., Valiev, D., Stepanov, S., Kim, H. J. and Kaewkhao, J. | Innovative Eu3+-Doped Gadolinium Borogermanate Glass for X-Ray Imaging Scintillator                                                                    | Radiation Physics and Chemistry 238 (Jan 2026): 113193                                   | Q2  | 3.3   | Materials Science and Engineering |
| 96  | BL1.2: XTM   | Wu, S., Potiyaraj, P., Aumnate, C. and Kungsadalpipob, P.                                                                                                                                                   | Tailored Carbon Nanotubes (CNTs)/ Thermoplastic Polyurethane (TPU) Composite Pressure Sensors via Optimized 3D Printing for Smart Wearable Electronics | Journal of Materials Research and Technology 42 (May-Jun 2026): 9640-9653                | Q1  | 6.6   | Materials Science and Engineering |
| 97  | BL1.2: XTM   | Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., <u>Nawong, S.</u> , Wichitsathian, B. and <u>Jearanaikoon, N.</u>                                                                                   | Comparative Synthesis of Zeolite A from Agricultural Residue Ashes: Influence of Silica Source on Water Softening and Fixed-Bed Column Performance     | Results in Engineering 30 (Jun 2026): 110949                                             | Q1  | 7.9   | Environmental Science             |
| 98  | BL1.2: XTM   | Yonchai, C., Spencer-Jolly, D., Palasak, P., <u>Pakawanit, P., Phatthanakun, R., Kidkhunthod, P.</u> , Saito, N. and Kasemchainan, J.                                                                       | Cellulose Nanofiber–MWCNT Buckypaper Engineered Composite Current Collector/Electrode for Flexible and Long-Lasting Semi-Solid-State Li Batteries      | Journal of Alloys and Compounds 1056 (Feb 2026): 186594                                  | Q1  | 6.3   | Materials Science and Engineering |
| 99  | BL1.3W: SAXS | Afifah, N., Sarifudin, A., Darniadi, S., Krisanti, E. A., Purwanto, W. W. and Mulia, K.                                                                                                                     | Impact of Process Parameters and Recycling of Natural Deep Eutectic Solvent on the Physicochemical, Structural, and Gel Characteristics of Glucomannan | Food Biophysics                                                                          | Q2  | 3.2   | Food and Agricultural Science     |
| 100 | BL1.3W: SAXS | Akarapoowadol, T., Goh, K. L. and Amornsakchai, T.                                                                                                                                                          | Effect of Alkali Treatment on the Mechanical and Structural Properties of Pineapple Leaf Fiber for Epoxy Composite Reinforcement                       | ACS Omega 11 (2026): 3974-3983                                                           | Q1  | 4.3   | Materials Science and Engineering |
| 101 | BL1.3W: SAXS | Chang, X., Cao, G., Zhou, X., <u>Kamonsutthipaijit, N., Lu, X., Buangam, P., Tunmee, S., Rittihong, U.</u> , li, J., Llorca, J., Tang, Y., Cabot, A.                                                        | Closed Nanopores Enhance the Stability of Nitrogen-doped Hard Carbon in Potassium Storage by Buffer Activity Structure                                 | Journal of Materials Chemistry A 13 (2025): 29281-29293                                  | Q1  | 9.5   | Materials Science and Engineering |
| 102 | BL1.3W: SAXS | Chang, X., Zhou, X., <u>Buangam, P., Kamonsutthipaijit, N., Tunmee, S.</u> and Cabot, A.                                                                                                                    | Key Factors Influencing the Plateau Region in N-Doped Hard Carbon for Sodium Storage                                                                   | EES Batteries 1 (2025): 1583-1595                                                        | n/a | n/a   | Materials Science and Engineering |
| 103 | BL1.3W: SAXS | Chang, X., Zhou, X., Li, J., Yu, A., <u>Buangam, P., Kamonsutthipaijit, N., Tunmee, S.</u> and Cabot, A.                                                                                                    | Key Factors Influencing Initial Coulombic Efficiency and Plateau Region in N, P-co-Doped Hard Carbon: Insights from Chemical States and Microstructure | ACS Applied Energy Materials 8 (2025): 15134-15145                                       | Q1  | 5.5   | Materials Science and Engineering |
| 104 | BL1.3W: SAXS | Hariyanto, Y. A., Nikmah, A., Subadra, S. T. U. I., Susanto, H., Sunaryono, Nur, H., <u>Soontaranon, S.</u> , Tahir, D., Izzuddin, H. and Taufiq, A.                                                        | Constructing Fe3O4/HA/L-ac Hybrid Nanocomposites as Excellent Antimicrobial Agents and Drug Delivery Vehicles                                          | Journal of Biomedical Materials Research Part B: Applied Biomaterials 114 (2026): e70019 | Q2  | 3.4   | Medical Applications              |
| 105 | BL1.3W: SAXS | Jarnthong, M., Wannalak, A., Thongnuanchan, B., Kaesaman, A., Saito, H., <u>Soontaranon, S.</u> and Lopattananon, N.                                                                                        | Unveiling the Impact of Cellulose Nanofiber on the Mechanical Properties and Strain-Induced Crystallization Mechanism of ENR Nanocomposites            | Polymer Engineering & Science 65 (2025): 6658-6670                                       | Q2  | 3.2   | Polymers                          |
| 106 | BL1.3W: SAXS | Jariyasakoolroj, P., Phongtamrug, S., Pilasen, P., <u>Limphirat, W.</u> and Chirachanchai, S.                                                                                                               | Integrating Disulfide Linkages and Stretching Processes in Thermoplastic Starch/polylactide Blends: A Model Study on Retarding Retrogradation          | Polymer Degradation and Stability 247 (May 2026): 111962                                 | Q1  | 7.4   | Polymers                          |
| 107 | BL1.3W: SAXS | Junyusen, T., Junyusen, P., Treeamnuk, T., Moolkaew, P., Sonsomboonsuk, S., Sila, B. and <u>Kamonsutthipaijit, N.</u>                                                                                       | Effects of Storage Conditions on Quality and Stability of Autoclave-Sterilized Ready-to-Eat Germinated Brown Rice                                      | Applied Food Research 5 (Dec 2025): 101195                                               | Q1  | 6.2   | Food and Agricultural Science     |
| 108 | BL1.3W: SAXS | Kajornprai, T., Rungswang, W., <u>Kaewsuwan, D., Kamonsutthipaijit, N.</u> , Suppakarn, N. and Trongsatitkul, T.                                                                                            | Hierarchical Structural Evolutions in Poly(L-lactic acid) upon Heating: Insights into Crystal Transformation and Multiple Melting Behaviors            | Polymer 340 (Dec 2025): 129265                                                           | Q1  | 4.5   | Polymers                          |
| 109 | BL1.3W: SAXS | Kerdthong, P., Duangphet, S., Soykeabkaew, N., Intatha, U., <u>Kamonsutthipaijit, N. and Tastub S.</u>                                                                                                      | Impact of Die Exit Temperature on the Crystalline Orientation and Performance of Polypropylene Battery Separators                                      | Applied Science and Engineering Progress 19 (2026): 7945                                 | Q2  | 0.341 | Materials Science and Engineering |
| 110 | BL1.3W: SAXS | Keeratiburana, T., Fu, T., Sarifudin, A., <u>Soontaranon, S.</u> and Blennow, A.                                                                                                                            | Comparison of Freeze-Thawing and Ice Recrystallization-Thawing on Structural and Physicochemical Properties of Granular Rice Starch                    | Journal of Food Science and Technology                                                   | Q2  | 3.3   | Food and Agricultural Science     |
| 111 | BL1.3W: SAXS | Keeratiburana, T., <u>Tastub, S.</u> , Blennow, A. and Tongta, S.                                                                                                                                           | Synergistic Effects of Ethanol Pretreatment and Sequential Enzymatic Treatments on Structure and Functionality of Porous Cassava Starch                | International Journal of Biological Macromolecules 366 (2026) 152418                     | Q1  | 8.5   | Food and Agricultural Science     |
| 112 | BL1.3W: SAXS | Kongtaveesombat, S., Torgbo, S., <u>Kamonsutthipaijit, N.</u> , Wanikorn, B. and Sukyai, P.                                                                                                                 | Formulation of Bacterial Cellulose Nanofibrils Incorporated with Xanthone as Functional Green Ingredients for cosmeceutical Products                   | Scientific Reports 16 (2026): 5530                                                       | Q1  | 3.9   | Medical Applications              |
| 113 | BL1.3W: SAXS | Kongwut, O. and Laohhapaiboon, P.                                                                                                                                                                           | Three-Dimensional Nanofiber Integration Enhances Radiation Resistance in Protective Gloves: Molecular Mechanisms and Predictive Modeling               | Applied Radiation and Isotopes 230 (Apr 2026): 112469                                    | Q2  | 1.8   | Materials Science and Engineering |
| 114 | BL1.3W: SAXS | Masa, A., Mesa, N., <u>Soontaranon, S.</u> and Hayeemasae, N.                                                                                                                                               | Feasibility of UtilizingWaste Natural Rubber Gloves as a Primary Rubber Matrix: Aspect of Vulcanization Systems                                        | Sci 8 (2026): 67                                                                         | n/a | n/a   | Polymers                          |

| No. | Beamline     | Author                                                                                                                                                                                                                         | Title                                                                                                                                                                     | Source                                                              | Q  | IF       | Field                             |
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| 115 | BL1.3W: SAXS | Mitcharean, C., Kedsakon, K., <u>Hasdin, O., Busavaporn, W.,</u> Chunhakowit, P., Songsrirote, K. and Prayongpan, P.                                                                                                           | Fluorescent Poly(vinyl alcohol) Composite Films Incorporating Doped Carbon Dots for Heavy Metal Detection in Smart Packaging Applications                                 | ACS Omega                                                           | Q1 | 4.3      | Materials Science and Engineering |
| 116 | BL1.3W: SAXS | Muflikhah, Federico, A., Shahab, A. N., Patriati, A., Fatriansyah, J. F., Mursito, A. T., <u>Soontaranon, S.,</u> Adilina, I. B., Insani, A. and Dhaneswara, D.                                                                | Sonochemically Assisted Synthesis of Geothermal Silica Scaling-Derived Mesoporous Silica as a Green Adsorbent for Bisphenol A                                             | Environmental Science and Pollution Research 32 (2025): 28992-29008 | Q1 | IF22-5.8 | Environmental Science             |
| 117 | BL1.3W: SAXS | Najmi, M. I., Chusna, N. M., Latifah, E., Zulaikah, S., Taufiq, A., <u>Soontaranon, S.,</u> and Sunaryono, S.                                                                                                                  | Improving the Physical Properties of Mn0.25Fe2.75O4-rGO/Tw80-TiO2/PEG Nanocomposites Phase Change Materials for Thermal Energy Storage Materials                          | Colloid and Polymer Science                                         | Q2 | 2.3      | Micro Nanotechnology              |
| 118 | BL1.3W: SAXS | Ninjan, R., Thongnuanchan, B., Salach, S., Tulyapitak, T., Thitithammawong, A., Hayemasae, N., Saiwari, S., <u>Buangam, P.,</u> and Lopattananon, N.                                                                           | Developing Biodegradable Agricultural Films by Combining Modified Natural Rubber With Gelatin                                                                             | Polymers for Advanced Technologies 37 (Jan 2026): e70512            | Q2 | 3.4      | Polymers                          |
| 119 | BL1.3W: SAXS | Phongtamrug, S., Niyomsin, S. and Pilasen, P.                                                                                                                                                                                  | Structural Evolution and Barrier Enhancement of Polylactide-Based Films via Double Bubble Extrusion with Poly(butylene adipate-co-terephthalate) and Thermoplastic Starch | MRS Communications 16 (2026): 974-381                               | Q3 | 2.3      | Polymers                          |
| 120 | BL1.3W: SAXS | Pongnan, S., Robinson, R.C., <u>Kamonsutthipaijit, N.,</u> Fukamizo, T. and Suginta, W,                                                                                                                                        | The Oligomeric State of Chitooligosaccharide Deacetylase from the Marine Bacterium Vibrio Campbellii                                                                      | Biophysical Reports                                                 | Q1 | 4.7      | Biological and Life Science       |
| 121 | BL1.3W: SAXS | Pongputthipat, W., Ruksakulpiwat, Y., Ruksakulpiwat, C., Jarukumjorn, K. and Chumsamrong, P.                                                                                                                                   | Biodegradable Mulch Films from Poly(lactic acid)/Natural Rubber/Agro-Waste Biocomposites for Sustainable Agricultural Applications                                        | Polymer Bulletin 83 (2026): 52                                      | Q2 | 4        | Food and Agricultural Science     |
| 122 | BL1.3W: SAXS | Ruengsuk, A., Khamphaijun, K., Laoviwat, P., <u>Kamonsutthipaijit, N.,</u> Tuntirungrotechai, J., Shigeta, Y., Hengphasatporn, K., Harding, D. J. and Bunchuay, T.                                                             | Beyond Passive Substituents: Tosyl-Directed Self-Templation Enables Selective Pillar[4 + 1]arene Formation and Topology Switching                                         | Journal of the American Chemical Society 148 (2026): 23965-23975    | Q1 | 15.6     | Chemistry                         |
| 123 | BL1.3W: SAXS | Rungswang, W., Jiamjirangkul, P., <u>Kaewsuwan, D.,</u> <u>Soontaranon, S., Rugmai, S.,</u> and Pangon, A.                                                                                                                     | Hierarchical Alignment of Nanophase Separation in TPU/Cellulose Nanocrystal Composite Fibers via Electrospinning: A Pathway to Enhanced Mechanical Performance            | Polymer 344 (Jan 2026): 129544                                      | Q1 | 4.5      | Polymers                          |
| 124 | BL1.3W: SAXS | Saknaveeporn, K., Yingkamhaeng, N., Torgbo, S., <u>Kamonsutthipaijit, N., Thumanu, K.,</u> Nimchua, T., Watthanasakphuban, N. and Sukyai, P.                                                                                   | Bioconversion of Sugarcane Bagasse into Cellulose and Organic Acid Using Lactiplantibacillus plantarum/Laccase-Mediated Pretreatment                                      | Food Bioprocess Technology 18 (2025): 11015-11030                   | Q1 | 5.8      | Food and Agricultural Science     |
| 125 | BL1.3W: SAXS | Tang, B., Zhang, Y., Ji, B., Yu, G., Zheng, Y., Zhou, X., <u>Kamonsutthipaijit, N., Buangam, P., Tunmee, S., Nakajima, H., Rittihong, U.,</u> Pan, Q., Zhang, F. and Tang, Y.                                                  | Ion-Mediated Carbon Microdomain Engineering Boosting Enhanced Plateau Capacity of Carbon Anode under High Rate Towards High-Performance Sodium Dual-Ion Batteries         | Nano-Micro Lett. 18 (2026): 161                                     | Q1 | 36.3     | Materials Science and Engineering |
| 126 | BL1.3W: SAXS | Todee, B., Srirattanaprasit, N., Prombandachok, J., Kammoon, P., Ruengsuk, A., Namnouad, P., Depijan, M., Sangtawesin, T., <u>Kamonsutthipaijit, N.,</u> Tantirungrotechai, J., Amornsakchai, T. Smith, S. M. and Bunchuay, T. | Dialdehyde Pineapple Starch as a Reactive Carbohydrate Platform for Pyridyl–Acyldiazone Crosslinked Networks in Au and Pd Recovery                                        | Carbohydrate Polymers                                               | Q1 | 12.5     | Materials Science and Engineering |
| 127 | BL1.3W: SAXS | Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., <u>Nawong, S.,</u> Wichitsathian, B. and <u>Jearanaikoon, N.</u>                                                                                                       | Comparative Synthesis of Zeolite A from Agricultural Residue Ashes: Influence of Silica Source on Water Softening and Fixed-Bed Column Performance                        | Results in Engineering 30 (Jun 2026): 110949                        | Q1 | 7.9      | Environmental Science             |
| 128 | BL2.2: TRXAS | Ahmed, A., Khampuanbut, A., <u>Kidkhunthod, P., Limphirat, W.,</u> Uyama, H., Okhawilai, M. and Pattananuwat, P.                                                                                                               | Tailoring the Mn/Co Ratio in Electrospun Mn-Co Oxide Embedded-Carbon Nanofibers as Cathode for High-Performance Zinc-Ion Batteries                                        | Materials Science for Energy Technologies 8 (2025): 219-230         | Q1 | 7.22     | Materials Science and Engineering |
| 129 | BL2.2: TRXAS | Doungdej, K., Numpilai, T., Dolsiririttigul, N., Polsomboon, N., <u>Limphirat, W.,</u> Sudsakorn, K., Seubsai, A., Roddecha, S., Chareonpanich, M. and Witoon, T.                                                              | Tuning Cu–Support Interactions via Hydroxyethyl Cellulose-Templated Silica for Enhanced Reverse Water-Gas Shift Catalysis                                                 | Journal of Environmental Chemical Engineering 13 (Oct 2025): 118913 | Q1 | 7.2      | Chemistry                         |
| 130 | BL2.2: TRXAS | Hongmanorom, P., Neraud, A., Styskalik, A., <u>Limphirat, W.,</u> Praserthdam, P. and Debecker, D. P.                                                                                                                          | Metal Oxide-Promoted Mesoporous Silica as Support for Ru-Based CO2 Methanation Catalysts                                                                                  | Applied Catalysis B: Environment and Energy 384 (May 2026): 126142  | Q1 | 21.1     | Chemistry                         |
| 131 | BL2.2: TRXAS | Kao-ian, W., Tangthum, P., <u>Kidkhunthod, P., Limphirat, W., Padchasri, J.,</u> Aubert, N., Ciatto, G., In, I., Wu, K. C. W. and Kheawhom, S.                                                                                 | Monitoring Interfacial Dynamics of a Zinc-Ion Battery Cathode Using In Situ Grazing Incidence X-Ray Absorption Spectroscopy: A Case Study of Manganese Dioxide            | Small Methods 10 (Feb 2026): e70421                                 | Q1 | 9.1      | Surface, Interface and Thin Films |
| 132 | BL2.2: TRXAS | Khosukwiwat, K., Choojun, K., <u>Limphirat, W.,</u> Liu, T. H., Lin, U. C., Boonpong, K., Nooto, C., Preedawichitkul, Y., Promchana, P., Wengwirat, K., Praserthdam, P. and Sooknoi, T.                                        | Tuning Spatially Proximal Cu+ and Cu0 Species via Phyllosilicate Coordination Engineering for Hydrogen-Free Upgrading of Fatty Acid Methyl Esters to Fatty Alcohols       | Journal of Materials Chemistry A                                    | Q1 | 9.5      | Chemistry                         |
| 133 | BL2.2: TRXAS | Lakhani, P., Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., <u>Limphirat, W.,</u> Assabumrungrat, S. and Srifa, A.                                                                                       | Engineering Support-Dependent Structures of Co Catalysts on MgO, MgAl, and Al2O3 for Selective Transformation of Levulinic Acid to γ-Valerolactone                        | Fuel Processing Technology 282 (Apr 2026): 108397                   | Q1 | 7.7      | Chemistry                         |

| No. | Beamline     | Author                                                                                                                                                                                                                                       | Title                                                                                                                                                                                                    | Source                                                              | Q  | IF   | Field                             |
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| 134 | BL2.2: TRXAS | Likitaporn, C., Sukmas, W., Prathumrat, P., <u>Limphirat, W.</u> , Qin, J., Chanajaree, R., Osswald, T. A. Faungnawakij, K., Okhawilai, M. and Aumnate, C.                                                                                   | Effective Zinc Anode Protection from In-Situ ZIF-8 on Electrospun Electrolyte Membrane for Zinc-Ion Batteries                                                                                            | Journal of Power Sources 670 (Apr 2026): 239395                     | Q1 | 7.9  | Materials Science and Engineering |
| 135 | BL2.2: TRXAS | Lolupiman, K., Yang, C., Woottapanit, P., Sukmas, W., <u>Limphirat, W.</u> , Rodthongkum, N., Zhang, X., He, G. and Qin, J.                                                                                                                  | Sulfur-Doped Vanadium Oxide for High-Performance and Stable Cathode Material of Zinc-Ion Batteries                                                                                                       | Advanced Functional Materials 36 (Mar 2026): e24100                 | Q1 | 19   | Materials Science and Engineering |
| 136 | BL2.2: TRXAS | Maneewong, Y., Lakhani, P., Ratchahat, S., Sakdaronnarong, C., <u>Limphirat, W.</u> , Rungtaweeworanit, B., Assabumrungrat, S., Khosukwiat, K., Choojun, K., Sooknoi, T., Tomishige, K. and Srifa, A.                                        | Design of a Rhenium–Decorated Mesoporous Nickel Phyllosilicate–Derived Ni–Re/MCM-41 Catalyst for Efficient Hydrogenation of Levulinic Acid to $\gamma$ -Valerolactone                                    | Green Chemistry                                                     | Q1 | 9.2  | Chemistry                         |
| 137 | BL2.2: TRXAS | Makdee, A., Siriwong, C., Poosimma, P., Lorwanishpaisarn, N., <u>Poo-arporn, Y.</u> , <u>Kidkhunthod, P.</u> and Chanapattharapol, K. C.                                                                                                     | Synergistic Effect of Ru–Ni in ZrO2-Supported Catalysts for Robust CO2 Methanation: a Mechanistic and In-Situ Spectroscopic Study                                                                        | Journal of Catalysis 454 (Feb 2026): 116620                         | Q1 | 6.5  | Chemistry                         |
| 138 | BL2.2: TRXAS | Osakoo, N., Tawachkultanadilok, P., Loiha, S., Rakngam, I., Keawkumay, C., <u>Poo-arporn, Y.</u> , Khemthong, P., Föttinger, K., Prayoonpokarach, S. and Wittayakun, J.                                                                      | Tuning Co–Co2SiO4 Interfacial Chemistry on SBA-15 for the Reverse Water–Gas Shift Reaction: An Operando TR-XAS and in Situ DRIFTS Study                                                                  | Catalysis Today 468 (Apr 2026): 115723                              | Q1 | 5.3  | Chemistry                         |
| 139 | BL2.2: TRXAS | Praikaew, W., Prameswari, J., Ratchahat, S., Chaiwat, W., Sakdaronnarong, C., Koo-amornpattana, W., <u>Limphirat, W.</u> , Assabumrungrat, S., Lin, Y. C., Choojun, K., Sooknoi, T. and Srifa, A.                                            | Highly Active and Stable Ni–W/SiO2 Catalyst Derived from W Incorporated on Ni Phyllosilicate for Deoxygenation of Triglycerides into Green Biofuel Range Hydrocarbons                                    | Energy Conversion and Management: X 28 (Oct 2025): 101288           | Q1 | 7.6  | Chemistry                         |
| 140 | BL2.2: TRXAS | Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., <u>Limphirat, W.</u> , <u>Mahakot, S.</u> , Assabumrungrat, S. and Srifa, A.                                                                                            | Systematic Optimization of the Ni-to-Mo Ratio in Bimetallic Ni–Mo2C Catalysts for Efficient Selective Hydrogenation of Levulinic Acid to $\gamma$ -Valerolactone                                         | Fuel Processing Technology 276 (Oct 2025): 108276                   | Q1 | 7.7  | Chemistry                         |
| 141 | BL2.2: TRXAS | Soonthornkit, S., Pornphatdetaudom, T., Laoatiman, W., Aupama, V., <u>Limphirat, W.</u> , Praserttham, S., Promma, P., Rittiruam, M., Thongrita, P., <u>Kidkhunthod, P.</u> , Pattananuwat, P., Cha, S., Kheawhom, S. and Pornprasertsuk, R. | Superior Fe-Doped $\alpha$ -MnO2 Bifunctional Catalyst for Zinc-Air Batteries: Comparative Analysis of Cycle Stability and Performance in Transition Metal-Doped $\alpha$ -MnO2 Systems                  | Journal of Physics Energy                                           | Q1 | 6.3  | Chemistry                         |
| 142 | BL2.2: TRXAS | Tanalue, N., Likitaporn, C., Prathumrat, P., <u>Limphirat, W.</u> , Wongsalam, T., Okhawilai, M. and Potiyaraj, P.                                                                                                                           | Electrospun Polyacrylonitrile/Bio-Based Polyurethane Composite Membranes Filled with ZIF-8 and MXene as Durable, Thermally Stable, and High-Ionic-Conductivity Separators for Aqueous Zinc-Ion Batteries | Chemical Engineering Journal Advances 25 (Mar 2026): 101035         | Q1 | 7.1  | Materials Science and Engineering |
| 143 | BL2.2: TRXAS | Tawachkultanadilok, P., <u>Niipanich, S.</u> , Tunsound, V., <u>Chanlek, N.</u> , <u>Kidkhunthod, P.</u> , Hagio, T., Wittayakun, J., Praserttham, P. and <u>Poo-arporn, Y.</u>                                                              | Operando TR-XAS Investigation of CO2 Dry Reforming of Ethanol Over Ce-Promoted Cu/LTL Catalysts                                                                                                          | Journal of Alloys and Compounds 1050 (Jan 2026): 185758             | Q1 | 6.3  | Chemistry                         |
| 144 | BL2.2: TRXAS | Yamchumporn, P., Boonin, K., Yasaka, P., Triamnak, N., Sareein, T., Singsoog, K., Seetawan, T., <u>Limphirat, W.</u> and Kaewkhao, J.                                                                                                        | Synthesis and Thermoelectric Characterization of Li–Bi–B–Cu Oxide Glasses Doped with Te4+ Ions                                                                                                           | Radiation Physics and Chemistry 237 (Dec 2025): 113135              | Q2 | 3.3  | Materials Science and Engineering |
| 145 | BL2.2: TRXAS | Yang, C., Woottapanit, P., Hou, Q., Dai, Z., <u>Limphirat, W.</u> , Qin, J. and Zhang, X.                                                                                                                                                    | Robust Metal-Based Composite Layer Enabling Enhanced Interface Stability for Highly Reversible Zinc Anodes                                                                                               | Journal of Energy Chemistry 117 (Jun 2026): 635-644                 | Q1 | 14.9 | Materials Science and Engineering |
| 146 | BL2.2: TRXAS | Yang, C., Woottapanit, P., Hou, Q., Dai, Z., <u>Limphirat, W.</u> , Qin, J. and Zhang, X.                                                                                                                                                    | Self-Separating Biphasic Electrolyte Enables High-Performance Aqueous Zinc-Ion Batteries via Electron-Enriched Interphase Engineering                                                                    | Nanomicro Letters 18 (May 2026): 367                                | Q1 | 36.3 | Materials Science and Engineering |
| 147 | BL2.2: TRXAS | Yomthong, K., Makdee, A., Soyphet, A., Saenluang, K., Mainkawklang, N., Ittisanronnachai, S., <u>Limphirat, W.</u> , <u>Kidkhunthod, P.</u> and Wattanakit, C.                                                                               | Engineering Ultrafine Cu Nanoparticles Supported on Zeolites via Solvent-Free Inter-Zeolite Transformation for Bioethanol Dehydrogenation                                                                | Journal of Materials Chemistry A 14 (2026): 2120-2135               | Q1 | 9.5  | Chemistry                         |
| 148 | BL2.2: TRXAS | Zhang, S., Gao, Z., Zhang, D., Lolupiman, K., <u>Limphirat, W.</u> , Wu, X., Qin, J. and Cao, J.                                                                                                                                             | Hydrogen Bond Network Induced Interfacial Dipoles Enhance Built-in Electric Fields and Ion Transport in Vanadium Oxide Heterostructures                                                                  | Energy Storage Materials 86 (Mar 2026): 104969                      | Q1 | 20.2 | Materials Science and Engineering |
| 149 | BL3.1: XPS   | Adnan, R. H., Osborn, D. J., Yan, S., Shichibu, Y., <u>Nakajima, H.</u> , Konishi, K., Metha, G. F. and Andersson, G. G.                                                                                                                     | Gradually Changing the Fraction of Clusters and Nanoparticles in Au13/WO3-Derived Photocatalysts for H2O2 Synthesis                                                                                      | Dalton Transactions                                                 | Q2 | 3.3  | Chemistry                         |
| 150 | BL3.1: XPS   | Areerob, Y., Nachaithong, T., Phumuen, P., Wannabut, W., <u>Niipanich, S.</u> , Oh, W. C. and Pattarith, K.                                                                                                                                  | New Hybrid High Performance Dye-Sensitized Solar Cells using CoNi2Se4@SiO2 Core-Shell Integrated with Graphene Quantum Dots as Counter Electrodes                                                        | Materials Science and Engineering: B 332 (2026): 119621             | Q1 | 4.6  | Materials Science and Engineering |
| 151 | BL3.1: XPS   | Chanani, P., Triosod, S., Phumuen, P., <u>Chanlek, N.</u> , Kumnorkaew, P., Klangtakai, P., Srepusharawoot, P., Thongnum, A., Chompoosor, A., Pimanpang, S., Ruttanapun, C. and Amornkitbamrung, V.                                          | Synthesis of ZIF-8 Powders and their Electrochemical Role as a Protective Layer Minimizing Dendrite Formation and Elevating Anode Stability in Zn-Ion Batteries                                          | Journal of Power Sources 658 (2025): 238313                         | Q1 | 7.9  | Materials Science and Engineering |
| 152 | BL3.1: XPS   | Chankhanittha, T., Samart, N., Chalomsawatwong, P., Waracalai, P., Nanan, S., Butburee, T., Jiratanachotikul, A., Punklahan, N., Kalapakdee, S., Yodsins, N., <u>Niipanich, S.</u> , Wannakan, K., Paritmongkol, W. and Khemthong, P.        | Synergistic Effect of Zn Single Atoms and g-C3N4 for CO2 Reduction: Mechanistic Insights from DFT and Experiments                                                                                        | Journal of Environmental Chemical Engineering 14 (Jun 2026): 122617 | Q1 | 7.2  | Chemistry                         |

| No. | Beamline   | Author                                                                                                                                                                                        | Title                                                                                                                                                                                                                                                                             | Source                                                               | Q  | IF   | Field                             |
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| 153 | BL3.1: XPS | Chu, M. W., <u>Chanlek, N.</u> , Chen, C. S., Chen, P. Y., Feng, K. C., Tu, C. S., Dee, C. F. and Wei Sea Chang                                                                               | Coupled Ferroelectric–Photoelectrochemical in Water Reduction Over BiFeO3 Thin Film Heterostructure Modulated by Rare-Earth Doping                                                                                                                                                | Advanced Functional Materials 36 (2026): e16031                      | Q1 | 26.8 | Surface, Interface and Thin Films |
| 154 | BL3.1: XPS | Chu, M. W., Chen, Y. W., Chew, K. H., <u>Chanlek, N.</u> , Chen, C. S., Dee, C. F. and Chang, W. S.                                                                                           | Synergistic Role of Facet-Engineered Surface and Ferroelectric Polarization in Photoelectrochemical Water Reduction over Pure BiFeO3 Thin Film                                                                                                                                    | ACS Applied Materials & Interfaces 17 (2025): 46339-46352            | Q1 | 8.2  | Surface, Interface and Thin Films |
| 155 | BL3.1: XPS | Chinnakutti, K. K., Yun, H., Kheawhom, S., Gao, H., Tapia-Ruiz, N., <u>Kidkhunthod, P.</u> , <u>Niipanich, S.</u> , Sawada, Y., Saito, N. and Kasemchainan, J.                                | From Spent Zinc–Carbon Batteries to Lithium-Ion Batteries: An Eco-Friendly Method to Recycle Graphite                                                                                                                                                                             | Journal of Energy Storage 134 (Oct 2025): 118244                     | Q1 | 9.8  | Materials Science and Engineering |
| 156 | BL3.1: XPS | Dudngam, T., Panomsuwan, G., Yeh, C. Y., Yongprapat, S., Thanasarnsurapong, T., Boonchun, A., <u>Chanlek, N.</u> and Hasin, P.                                                                | Interface Engineering Efficient Bifunctional Electrocatalyst: Crystalline CoWO4/Amorphous CoB Heterostructure on Nitrogen-Codoped Multiwalled Carbon Nanotube@Reduced Graphene Oxide Nanoribbon for Oxygen Reduction in Anion Exchange Membrane Fuel Cells and Hydrogen Evolution | International Journal of Hydrogen Energy 237 (May 2026): 155244      | Q1 | 8.3  | Chemistry                         |
| 157 | BL3.1: XPS | Fu, X., Lei, X., Wang, Y., Cui, S., Hu, J., Lang, T., Zhou, X., <u>Tunmee, S.</u> , <u>Wannapaiboon, S.</u> , Wang, X., Zhong, X. and Xu, B.                                                  | Lattice Oxygen Activation Enabled by Fe Doping in Double Perovskite Oxides for Efficient Zinc–Air Batteries                                                                                                                                                                       | Journal of Materials Chemistry A                                     | Q1 | 9.5  | Chemistry                         |
| 158 | BL3.1: XPS | Gili, M. B. Z., Cabahug, M. L. V., Abrera, G. B., Argayosa, V. B., Jan, S. Q., Phan, M. H., <u>Assawakhajornsak, J.</u> , <u>Nakajima, H.</u> , Conato, M. T. and Vega, M. M.                 | Radiolytic Synthesis of Silver-Zeolite Nanocomposites for Long-Term Antibacterial Activity                                                                                                                                                                                        | Microporous and Mesoporous Materials 403 (Mar 2026): 114013          | Q1 | 4.7  | Materials Science and Engineering |
| 159 | BL3.1: XPS | Jakkrawhad, C., Batchelor-McAuley, C., <u>Niipanich, S.</u> and Ngamchuea, K.                                                                                                                 | Competitive Chloride–Thiol Coordination at Copper-Functionalized MIL-100(Fe) for Signal-off Glutathione Detection                                                                                                                                                                 | Sensors and Actuators B: Chemical 458 (Jul 2026): 139842             | Q1 | 7.7  | Medical Applications              |
| 160 | BL3.1: XPS | Janlon, J., Chatsuan, N., Kongparakul, S., Ratthiwal, J., Fong, Y. Y., Reubroycharoen, P., <u>Chanlek, N.</u> , Tran, T. T. V. and Samart, C.                                                 | Highly Stable Ni-based Catalysts Supported on Silica Nanofibers for the Dry Reforming of Methane with CO2-Rich Feedstock                                                                                                                                                          | Journal of the Energy Institute 123 (2025): 102313                   | Q1 | 6.2  | Chemistry                         |
| 161 | BL3.1: XPS | Janthabut, P., Athikaphan, P., Jekrukand, P., Kanjunsri, P., Kongkoed, P., <u>Niipanich, S.</u> , Theerakulpisit, S., Neramittagapong, A. and Neramittagapong, S.                             | Adsorption of Nickel (II) Ions onto Activated Carbon from Tamarind Seeds for Synthetic Wastewater Treatment: Isotherm, Kinetic, and Thermodynamic Studies                                                                                                                         | Environmental Challenges 20 (2025): 101243                           | Q1 | 6.8  | Environmental Science             |
| 162 | BL3.1: XPS | Khajonrit, J., Sichumsaeng, T., Saenrang, W., Wongprasert, S., Tanapongpisit, N., Pinitsoontorn, S., <u>Kidkhunthod, P.</u> , <u>Chanlek, N.</u> , Wongjom, P., Phumying, S. and Maensiri, S. | Effect of Ni Doping on the Structural, Magnetic, and Electrochemical Properties of BiMnFe2O6 for Energy Storage Applications                                                                                                                                                      | Radiation Physics and Chemistry 237 ( Dec 2025): 113050              | Q2 | 3.3  | Materials Science and Engineering |
| 163 | BL3.1: XPS | Khuncharoen, W., Theekhasuk, N., Rudradawong, C., Voraud, A., Sakdanuphab, R. and Sakulkalavek, A.                                                                                            | Tuning the Thermoelectric Performance of Flexible Copper Selenide Thin Films through Sputtering Pressure and Hybrid Microwave Annealing                                                                                                                                           | Journal of Alloys and Compounds 1041 (Oct 2025): 183742              | Q1 | 6.3  | Materials Science and Engineering |
| 164 | BL3.1: XPS | Krobkrong, N., Wangvisavawit, V., Itthibenchapong, V., Tan, K. B., Zhan, G., Khamprathed, S., Srinoi, P., Hirunpinyopas, W. and Sirisaksoontorn, W.                                           | Heterostructure TiO2@MoS2 Core-Shell Spheres for the Selective Catalytic Reaction Toward Hydrodeoxygenation of Oleic Acid                                                                                                                                                         | Chinese Journal of Chemical Engineering                              | Q2 | 3.7  | Chemistry                         |
| 165 | BL3.1: XPS | Kruefu, V., Leangtanom, P., Wiboon, M., Wisitsoraat, A., <u>Chanlek, N.</u> , <u>Poo-arporn, Y.</u> and Jaruwongrungsee, K.                                                                   | CeO2-Decorated NiO Nanoflowers Synthesized via a One-Pot Microwave-Assisted Hydrothermal Route for Ethanol Gas Sensing                                                                                                                                                            | Sensors and Actuators: B. Chemical 465 (2026): 140148                | Q1 | 7.7  | Materials Science and Engineering |
| 166 | BL3.1: XPS | Kulawong, S., Kulawong, J., <u>Chanlek, N.</u> , Wittayakun, J. and Osakoo, N.                                                                                                                | Magnesium Oxide on Activated Carbon with Various Nitrogen Contents as Catalysts for Glucose Isomerization to Fructose                                                                                                                                                             | Materials Today Communications 49 (Dec 2025): 114315                 | Q1 | 4.5  | Chemistry                         |
| 167 | BL3.1: XPS | Kumalayanti, L., <u>Padchasri, J.</u> , <u>Kidkhunthod, P.</u> , Harnchana, V., Moontragoon, P., Pinitsoontorn, S. and Chankhunthod, N.                                                       | Cassava Pulp-Derived N-Doped Carbon Quantum Dots/TiO2 Photocatalysts for Solar-Driven Antibiotic Degradation: Structural and Electronic Insights from XPS and XAS                                                                                                                 | Surfaces and Interfaces 94 (Aug 2026): 109447                        | Q1 | 6.3  | Chemistry                         |
| 168 | BL3.1: XPS | Leangtanom, P., Wisitsoraat, A., <u>Chanlek, N.</u> , Lawan, N., Muangpil, S., Phanichphant, S. and Kruefu, V.                                                                                | Cu2O-GO/SnO2 Quantum Dots for Selective Ethylene Sensing at PPM to Sub-ppm Levels                                                                                                                                                                                                 | Sensors & Actuators: B. Chemical 443 (Nov 2025): 138265              | Q1 | 7.7  | Micro Nanotechnology              |
| 169 | BL3.1: XPS | Li, X., Gou, X., <u>Chanlek, N.</u> , Yeoh, K. H., Chang, Y. H. R., Lee, M. K., Chang, L. J. and Goh, B. T.                                                                                   | Engineering Morphology and Crystalline Structure of Nickel Silicide Nanowires for Tunable Magnetism and Conductivity                                                                                                                                                              | Materials Science in Semiconductor Processing 206 (May 2026): 110430 | Q1 | 4.6  | Micro Nanotechnology              |
| 170 | BL3.1: XPS | <u>Luanethanrak, H.</u> , <u>Padchasri, J.</u> , <u>Siriroy, S.</u> , <u>Pakawanit, P.</u> , <u>Chanlek, N.</u> and <u>Kidkhunthod, P.</u>                                                    | Effect of Multi Wall Carbon Nanotubes (MWCNTs)/Carbon Black (CB) Contents on Enhanced Performance of Manganese-Cobalt-Lithium-Borate Glass (Mn, Co)–Li2O–B2O3                                                                                                                     | Radiation Physics and Chemistry 238 (Jan 2026): 113194               | Q2 | 3.3  | Materials Science and Engineering |
| 171 | BL3.1: XPS | Mingmuang, Y., <u>Chanlek, N.</u> , Srepusharawoot, P. and Thongbai, P.                                                                                                                       | Superior Dielectric Properties and Stability in TiO2–Based Ceramics: Roles of Intrinsic Defects and Extrinsic Polarization Mechanisms                                                                                                                                             | Ceramics International 51 (Nov 2025): 58410-58419                    | Q1 | 5.6  | Materials Science and Engineering |

| No. | Beamline   | Author                                                                                                                                                                                                                                                                             | Title                                                                                                                                                                                                                              | Source                                                               | Q  | IF  | Field                             |
|-----|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----|-----|-----------------------------------|
| 172 | BL3.1: XPS | Munthala, D., Raman, A., Sonklin, T., Buatip, N., <u>Leuasoonnoen, P., Janphuang, P., Niipanich, S., Klysubun, W., Chirawatkul, P.,</u> Gumma, V. L. P., Raju, K. C. J. and Pojprapai, S.                                                                                          | Amorphous to Crystalline Transformation of BCZT Films: a Complex Microstructure Studied by Synchrotron X-rays, Ferro-Electric, and Optical Spectroscopy                                                                            | Journal of Materials Science: Materials in Electronics 37 (2026): 93 | Q2 | 2.8 | Surface, Interface and Thin Films |
| 173 | BL3.1: XPS | Nanmong, T., Obrom, W., Yingyuen, W., Jaroenchur, T., Thamthong, P., Wittayakun, J., Prayoonpokarach, S., <u>Tawachkultanadilok, P., Poo-arporn, Y., Wannapaiboon, S., Chanlek, N.,</u> Rungtaweevoranit, B., Kosawatthanakun, S., Khemthong, P., Desaulniers, J. P. and Loiha, S. | Synergistic Effects of Fe Species Distribution and Acid Site Balance in Fe/Zelite Catalysts for 5-HMF Production from Glucose                                                                                                      | RSC Advances 16 (Apr 2026): 18591-18611                              | Q1 | 4.6 | Chemistry                         |
| 174 | BL3.1: XPS | Nukunudompanich, M., Nachaithong, T., Phumuen, P., Wannabut, W., Kunbuala, N., <u>Niipanich, S.,</u> Pattarith, K. and Areerob, Y.                                                                                                                                                 | Remodelling Hierarchical NiCo2O4@ZnS Nanorods with Multi-Walled Carbon Nanotubes as a Counter Electrode for Dye-Sensitized Solar Cell Applications                                                                                 | Scientific Reports                                                   | Q1 | 3.9 | Micro Nanotechnology              |
| 175 | BL3.1: XPS | Pengsook, W., Thanachayanont, C., Wahyuni, W. T. and Hasin, P.                                                                                                                                                                                                                     | Cobalt-Modified Exfoliated Zirconium Phosphate/Histidine-Functionalized Graphene Quantum Dots-Based Electrochemical Biosensor for Promoting Sensitive Detection of Methyl Parathion in Agricultural Foods and Water Bodies Samples | Talanta 296 (Jan 2026): 128403                                       | Q1 | 5.6 | Medical Applications              |
| 176 | BL3.1: XPS | Pimsri, P., Tabtimtong, N., Athikaphan, P., Tanusilp, S., Chankhanittha, T., <u>Niipanich, S.,</u> Wantala, K. and Suwannaruang, M.                                                                                                                                                | Architected BaTiO3/TiO2 Heterostructures via In-Situ and Ex-Situ Synthesis Routes: Tuning Interfacial Structures for Enhanced Photocatalytic Performance                                                                           | Surfaces and Interfaces 85 (Mar 2026): 108661                        | Q1 | 6.3 | Environmental Science             |
| 177 | BL3.1: XPS | Pitipuech, N., Takam, N., Sanetuntikul, J., Saejio, A., Poompipatpong, C., Chanunpanich, N., <u>Chanlek, N.,</u> Tawachkultanadilok, P. and Ketpang, K.                                                                                                                            | Autogenic Pressure Derived Fe/FeOx Encapsulated Fe-Nx Doped Carbon as Ultradurable and Superior Oxygen Reduction Reaction Electrocatalyst                                                                                          | Discover Materials                                                   | Q1 | 5.1 | Chemistry                         |
| 178 | BL3.1: XPS | Pitipuech, N., Takam, N., Saejio, A., Sanetuntikul, J., Poompipatpong, C., Chanunpanich, N., <u>Chanlek, N., Padchasri, L.,</u> Nernprom, K., Shanmugam, S. and Ketpang, K.                                                                                                        | Tailoring Electronic Metal-Support Interaction via Metallic Co Encapsulation to Accelerate Oxygen Reduction Kinetics in Single-Atom Co-Nx Catalysts                                                                                | International Journal of Hydrogen Energy 230 (Apr 2026): 154845      | Q1 | 8.3 | Chemistry                         |
| 179 | BL3.1: XPS | Phongsanam, N., Phetduang, S., <u>Niipanich, S., Tasarin, S.,</u> Wannakan, K., Ngamdee, K., Ren, X. K. and Ngeontae, W.                                                                                                                                                           | Mannich-Mediated Smartphone Fluorescence Detection of Formaldehyde Using Enhanced Peroxidase-Like Nanozyme-Magnetic Nanoparticle System                                                                                            | Sensors & Actuators: B. Chemical 453 (Apr 2026): 139510              | Q1 | 7.7 | Food and Agricultural Science     |
| 180 | BL3.1: XPS | Phongsanam, N., Sae-Foo, W., Phetduang, S., Putalun, W., <u>Niipanich, S.,</u> Tasarin, S., Srimongkon, P., Ngamdee, K. and Ngeontae, W.                                                                                                                                           | Smartphone-Enabled Magneto-Immunofluorescence Platform for Rapid Isomiroestrol Detection in Plants                                                                                                                                 | Talanta 300 (Apr 2026): 129262                                       | Q1 | 6.1 | Biological and Life Science       |
| 181 | BL3.1: XPS | Prasertboonyai, K. and Osakoo, N.                                                                                                                                                                                                                                                  | Synthesis of Nitrogen-Doped Activated Carbon from Agricultural Wastes of Durian Peel for Cr (VI) Removal from Water                                                                                                                | Desalination and Water Treatment 325 (Jan 2026): 101613              | Q3 | 1   | Environmental Science             |
| 182 | BL3.1: XPS | Preedawichitkun, Y., Numwong, N., <u>Chanlek, N.,</u> Chung, P., Kumar, R., Wattanakit, C., Prasanseang, W., Promchana, P., Nooto, C., Khenkhom, P., Choojun, K. and Sooknoi, T.                                                                                                   | Stabilized PdNanoparticles Encapsulated in MIL-101(Cr) for ChemoselectiveHydrogenation of PolyunsaturatedFAMES                                                                                                                     | ChemCatChem 17 (Nov 2025): e00985                                    | Q1 | 3.9 | Materials Science and Engineering |
| 183 | BL3.1: XPS | Rattanachai, Y., Chavalekvirat, P., Rintramee, K., Pandech, N., Klinkla, R., <u>Padchasri, J., Siriroj, S., Supruangnet, R., Busayaporn, W., Kidkhunthod, P.,</u> Songsiriritthigul, P., Ceolin, D., Iamprasertkun, P. and Saisopa, T.                                             | A structural Study of MoSe2 Nanoflakes Prepared via Liquid Phase Exfoliation: X ray Absorption and Photoemission Study                                                                                                             | Radiation Physics and Chemistry 237 (Dec 2025): 113083               | Q2 | 3.3 | Materials Science and Engineering |
| 184 | BL3.1: XPS | Rattanachai, Y., Butwong, N. and Rintramee, K.                                                                                                                                                                                                                                     | Pb(II) Adsorption on Amine-Grafted Fe3O4@MCM-41: Fast Uptake and O-Anchored Binding Revealed by DFT                                                                                                                                | ACS Omega 11 (May 2026): 28062-28071                                 | Q1 | 4.3 | Environmental Science             |
| 185 | BL3.1: XPS | Rawisod, S.,Tran, T. T. V., Samart, C., Guan, G., Reubroycharoen, P., Attanatho, L., Thanmongkhon, Y. and Kongparakul, S.                                                                                                                                                          | Carbon Sequestration from High-BOD Wastewater for Efficient Supercapacitor Electrode                                                                                                                                               | Carbon Resources Conversion 9 (Feb 2026): 100341                     | Q1 | 7.5 | Materials Science and Engineering |
| 186 | BL3.1: XPS | Sarumaha, C. S., Kaewnuam, E., <u>Chanlek, N.,</u> Chanthima, N., Kothan, S., Intachai, N., Angnanon, A., Kanjanaboos, P., Choodam, K., Kim, H. M. and Kaewkhao, J.                                                                                                                | Effect of NaF and KF in Photo and X-ray Induced Luminescence Behaviors of Sm3+-Doped Lithium Oxy-Fluorophosphate Glasses                                                                                                           | Journal of Luminescence 287 (Dec 2025): 121499                       | Q2 | 3.6 | Physics                           |
| 187 | BL3.1: XPS | Seejandee, P., Osakoo, N., Krukkratoke, P., Keawkumay, C., Deekamwong, K., Prayoonpokarach, S. and Wittayakun, J.                                                                                                                                                                  | Encapsulation of Potassium Carbonates in Collapsed Zeolite Y: A Stable and Reusable Catalyst for Biodiesel Production                                                                                                              | Journal of Physics and Chemistry of Solids 211 (Apr 2026): 113462    | Q1 | 4.9 | Chemistry                         |
| 188 | BL3.1: XPS | Senamart, N., <u>Poo-arporn, Y.,</u> Duangmanee, S., Kamonpha, P. and Poo-arporn, R. P.                                                                                                                                                                                            | Synthesis of Ag/CuO Nanoparticle-Modified Carbon Screen Print Electrode for a Non-Enzymatic Histamine Sensor                                                                                                                       | Microchemical Journal \g218 (2025): 115492                           | Q1 | 5.1 | Food and Agricultural Science     |
| 189 | BL3.1: XPS | Senasu, T. and Nanan, S.                                                                                                                                                                                                                                                           | Precursor-Driven Defect Engineering in CdS Photocatalyst: Influence of Sulfur Sources on Structure, Charge Dynamics, and Solar-Light-Driven                                                                                        | Inorganic Chemistry Communications 186 (Apr 2026): 116323            | Q1 | 5.4 | Environmental Science             |
| 190 | BL3.1: XPS | Sereewatthanawut, I., Khajonvittayakul, C., Swadchaipong, N., Tongnan, V., Maneesard, P., Ampairojanawong, R., Makdee, A., Kangsadan, T., Hartley, M. and Hartley, U. W.                                                                                                           | Enhanced Catalytic Performance of MnO2 Nanowires for Soot Combustion by Cobalt Incorporation                                                                                                                                       | Materials Advances 6 (2025): 6416-6426                               | Q1 | 4.7 | Chemistry                         |

| No. | Beamline   | Author                                                                                                                                                                                                              | Title                                                                                                                                                    | Source                                                              | Q  | IF  | Field                             |
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| 191 | BL3.1: XPS | Setsuwan, P., Waenthongkham, P., Torboon, K., Ngernyen, Y., <u>Niipanich, S.</u> , Hunt, A. J., Limtragool, O. and Noppawan, P.                                                                                     | Efficient and Green Biginelli Reactions in Palm Oil using a ZnCl2-Impregnated Sulfonated Carbon Catalyst Derived from Corn Cob Waste                     | Scientific Reports                                                  | Q1 | 3.9 | Chemistry                         |
| 192 | BL3.1: XPS | Singh, G., Shrivastav, A., Singhal, C., Roy, S., Roy, S. S., Chaudhuri, S. and Mathur, A.                                                                                                                           | Ultrasensitive Electrochemical Detection of Tyrosinase Using au Modified Laser-Induced Graphene Nanoelectrodes                                           | Microchemical Journal 221 (Feb 2026): 116857                        | Q1 | 5.1 | Medical Applications              |
| 193 | BL3.1: XPS | Sirirak, R., Klinbumrung, A., Maensiri, S., Paliphot, S. and Pinijmontree, T.                                                                                                                                       | Activation Agent-Driven Modulation of Green Tea-Derived Nitrogen-Doped Carbons for Energy Storage Applications                                           | South African Journal of Chemical Engineering 57 (Jul 2026): 100908 | Q1 | 5.1 | Materials Science and Engineering |
| 194 | BL3.1: XPS | Sresuksai, K., <u>Niipanich, S.</u> , Hunt, A. J. and Noppawan, P.                                                                                                                                                  | Corn Stalk-Derived Magnetic Humic Acid Nanocatalyst for Green Synthesis of Tetrahydridopyrazolopyridines in Water                                        | Environmental Technology & Innovation 43 (Sep 2026): 105080         | Q1 | 2   | Chemistry                         |
| 195 | BL3.1: XPS | Srisuai, N., Duangkanya, K., Intaravanne, Y., Chananonnavathorn, C., Tantiwanichapan, K., Assawakhajornsak, J., <u>Nakajima, H.</u> and Horprathum, M.                                                              | Mixed-Phase Crystallization and Resonance Tuning in Sn-Incorporated GST Thin Films: Experimental Study with THz Metasurface Simulation                   | ACS Omega 11 (2026): 34119-34                                       | Q1 | 4.3 | Surface, Interface and Thin Films |
| 196 | BL3.1: XPS | Srithong, P., <u>Chanlek, N.</u> , Srepusharawoot, P., Swatsitang, E. and Thongbai, P.                                                                                                                              | Anion Engineering of Rutile TiO2 Ceramics via Fluorine Substitution for High-Performance Dielectric Applications                                         | Materials Chemistry and Physics 349 (Feb 2026): 131766              | Q1 | 4.7 | Materials Science and Engineering |
| 197 | BL3.1: XPS | Sudsawad, K., Somjaijaroen, N., Somdock, N., Sakdanuphab, R., Sakulkalavek, A. and Rudradawong, C.                                                                                                                  | Sputter-Deposited AlN Coatings for Enhanced Tarnish Resistance and Mechanical Durability of Silver Jewelry                                               | Thin Solid Films 839 (Apr 2026): 140915                             | Q2 | 2   | Surface, Interface and Thin Films |
| 198 | BL3.1: XPS | Suktha, U., <u>Chanlek, N.</u> , <u>Kidkhunthod, P.</u> , Kolodiazhnyi, T., Vittayakorn, W. and Vittayakorn, N.                                                                                                     | Thermally Induced Phase Transition and Dielectric Relaxation in Lead-Free BaTi0.94Sn0.06O3 Ceramics: Insights from In-Situ XRD and XAS                   | Radiation Physics and Chemistry 235 (Oct 2025): 112839              | Q2 | 3.3 | Materials Science and Engineering |
| 199 | BL3.1: XPS | Thammaniphit, C., Khemthong, P., Butburee, T., Santatiwongchai, J., Sangkhun, W., Meesombat, K., Gonzalez, A. V., Hanrath, T., Chakthranont, P. and Methaapanon, R.                                                 | Engineering Cu-Ag Interfaces for Selective Acetate Production in CO2 Electroreduction                                                                    | Journal of Materials Chemistry A                                    | Q1 | 9.5 | Chemistry                         |
| 200 | BL3.1: XPS | Tariwong, Y., Pulphol, P., Sangtawesin, T., Seriwattanachai, C., Kanjanaboos, P., <u>Pakawanit, P.</u> , <u>Chanlek, N.</u> , Charoonsuk, T., Onoda, H., Vittayakorn, N. and Maluangnont, T.                        | Titanate Nanosheets/Cellulose Composite Showing Improved Crystallinity and Decreased Water Wettability by Gamma-Irradiation                              | Langmuir 41 (2025): 31569-3157                                      | Q1 | 3.9 | Materials Science and Engineering |
| 201 | BL3.1: XPS | Tanapongpisit, N., Wongprasod, S., Laohana, P., Horprathum, M., Lertvanithphol, T., Meevasana, W., Maensiri, S. and Saenrang, W.                                                                                    | Optimizing CO2 Activation Duration for Enhanced Electrochemical Performance in Electrospun Carbon Nanofiber Supercapacitors                              | Journal of Materials Engineering and Performance                    | Q2 | 2   | Materials Science and Engineering |
| 202 | BL3.1: XPS | Tawachkultanadilok, P., <u>Niipanich, S.</u> , Tunsound, V., <u>Chanlek, N.</u> , <u>Kidkhunthod, P.</u> , Hagio, T., Wittayakun, J., Praserttham,P. and Poo-arporn, Y.                                             | Operando TR-XAS Investigation of CO2 Dry Reforming of Ethanol Over Ce-Promoted Cu/LTL Catalysts                                                          | Journal of Alloys and Compounds 1050 (Jan 2026): 185758             | Q1 | 6.3 | Chemistry                         |
| 203 | BL3.1: XPS | Thanamoon, N., Takesada, M., <u>Chanlek, N.</u> , Thongyong, N., Mingmuang, Y., Wongsricha, J., Srepusharawoot, P. and Thongbai, P.                                                                                 | A Guiding Framework for Giant Dielectric Mechanisms in Antimony(V)/Yttrium(III) Co-Doped TiO2: Defect-Cluster Polarization, IBLC, and Interface Effects  | Results in Physics 84 (May 2026): 108640                            | Q1 | 4.6 | Materials Science and Engineering |
| 204 | BL3.1: XPS | Teo, P. S., Chiu, W. S., Poon, Y. T., Chia, M. Y., Lee, H. C., Zakaria, R., Khiew, P. S., <u>Chanlek, N.</u> , Haw, C. Y., Hamid, M. A. A. and Jani, N. A.                                                          | Au/MoS2/TiO2 Photoelectrode: Structural- and Photoelectrochemical-Analysis for Enhanced Water Splitting Application in Producing Hydrogen Gas            | Electrochimica Acta 556 (Apr 2026): 148360                          | Q1 | 5.6 | Materials Science and Engineering |
| 205 | BL3.1: XPS | Threerattanakulpron, N., Khongtor, N., Supasitmongkol, S., Serafin, J., Chaemchuen, S. and Klomklang, N.                                                                                                            | Non-Noble Metals Promoted MOF-Derived CuZn Catalysts for Low-Temperature CO2 Hydrogenation to Methanol                                                   | Fuel 404 (Jan 2026); 136274                                         | Q1 | 7.5 | Chemistry                         |
| 206 | BL3.1: XPS | Wannakan, K., Nonthing, S., Chankhanittha, T., Phakkhawan, A., Klangtakai, P., <u>Niipanich, S.</u> , <u>Chanlek, N.</u> and Nanan, S.                                                                              | Sunlight-Driven Detoxification of Tetracycline Antibiotic and Reactive Red Azo Dye by Hydrothermally Grown CdS/Fe2O3 Heterojunction Photocatalyst        | Optical Materials 173 (May 2026): 117887                            | Q1 | 4.2 | Environmental Science             |
| 207 | BL3.1: XPS | Wannasen, L., Karaphun, A., Maensiri, S. and Swatsitang, E.                                                                                                                                                         | Mesoporous Octagonal Microplates Co2-xNixP2O7 (x = 0.00, 0.50,1.00, 1.50, and 2.00) Metal Pyrophosphates for High-Performance Asymmetric Supercapacitors | ACS Omega 10 (2025): 54256-54273                                    | Q1 | 4.3 | Materials Science and Engineering |
| 208 | BL3.1: XPS | Wantana, N., Kaewnuam, E., Khrongchaiyaphum, F., <u>Pakawanit, P.</u> , Phoovasawat, C., <u>Chanlek, N.</u> , Sangwaranatee, N. W., Intachai, N., Kothan, S., Valiev, D., Stepanov, S., Kim, H. J. and Kaewkhao, J. | Innovative Eu3+-Doped Gadolinium Borogermanate Glass for X-Ray Imaging Scintillator                                                                      | Radiation Physics and Chemistry 238 (Jan 2026): 113193              | Q2 | 3.3 | Materials Science and Engineering |
| 209 | BL3.1: XPS | Wibowo, A., Khan, M. J., Sawatdee, S., Pornputthapitak, W., Tuntithavornwat, S., Srifa, A., Posoknistakul, P., Pornsuwan, S., Laosiripojana, N., Jiang, Y., Sansanaphongpricha, K. and Sakdaronnarong, C.           | Structure-Property Relationships in Saccharide-Derived Carbon Dots: Tuning Oxygen Functionalities and sp2 Domains for Antioxidant Performance            | Journal of Colloid and Interface Science 710 (May 2026): 139939     | Q1 | 9.7 | Materials Science and Engineering |

| No. | Beamline         | Author                                                                                                                                                                                                                                               | Title                                                                                                                                                                                                       | Source                                                                | Q   | IF   | Field                             |
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| 210 | BL3.1: XPS       | Wijitsak, J., Boonprab, J., Harding, P., Harding, D. J., Clegg, J. K., Kaewket, K., Jakkrawhad, C., <u>Niipanich, S., Wannapaiboon, S.</u> and Kaewraung, W.                                                                                         | Redox-Engineered Copper(II) Methylthio-Imidazole Schiff Base Complex for Electrochemical Detection of Creatinine as a Kidney Disease Biomarker                                                              | Sensors and Actuators: B. Chemical 445 (Dec 2025): 138590             | Q1  | 7.7  | Medical Applications              |
| 211 |                  | Wongpratad, U., Phromviyo, N., Wongsricha, J., Srilarueang, S., <u>Chanlek, N.</u> , Khamkongkao, A. and Thongbai, P.                                                                                                                                | Enhanced Dielectric Properties of In + Ta Co-Doped TiO2 Ceramics Synthesized via a Green Egg White Route: Low-Temperature Sintering and Microstructural Insights                                            | Sci 7 (2025): 170                                                     | Q1  | n/a  | Materials Science and Engineering |
| 212 |                  | Wongpratad, U., Phromviyo, N., <u>Chanlek, N.</u> , Lertvanithphol, T., Horprathum, M., Khamkongkao, A. and Thongbai, P.                                                                                                                             | High-Performance Capacitive Humidity Sensors based on (Sb5+/In3+) Co-Doped TiO2 Ceramics with Low Hysteresis and Rapid Recovery                                                                             | Journal of Physics and Chemistry of Solids 211 (Apr 2026): 113415     | Q1  | 4.9  | Materials Science and Engineering |
| 213 |                  | Wongpratad, U., Banjong, N., Phromviyo, N., <u>Chanlek, N.</u> and Thongbai, P.                                                                                                                                                                      | Preparation, Phase Evolution, and Microstructural Control for Enhanced Nonlinear Properties in CaCu3Ti4O12/CaTiO3 Ceramics via Tetrabutyl Titanate-Driven Sintering                                         | Journal of Alloys and Compounds 1041 (Oct 2025): 183742               | Q1  | 5.7  | Materials Science and Engineering |
| 214 |                  | Wongrat, E., Moonmuang, I., <u>Chanlek, N.</u> , Hongsinh, N., Pramchu, S. and Choopun, S.                                                                                                                                                           | Enhanced Ammonia Gas Sensing Performance of In Situ-Polymerised ZnO/PANI-HCl-Doped Emeraldine Base: Experimental and Theoretical Investigations                                                             | Sensors and Actuators: B. Chemical 441 (Oct 2025): 137981             | Q1  | 8    | Micro Nanotechnology              |
| 215 | BL3.1: XPS       | Wongrat, E., Sirirak, R., Mangthas, W., Unai, S., <u>Chanlek, N.</u> , Chaiworn, P. and Choopun, S.                                                                                                                                                  | Au Nanoparticle-Decorated Conducting Polymer/Carbon Hybrid for Room-Temperature Ammonia Sensing via AC Impedance Spectroscopy                                                                               | Journal of Alloys and Compounds                                       | Q1  | 6.3  | Micro Nanotechnology              |
| 216 | BL3.1: XPS       | Wongsaken, N., Chinnakutti, K. K., Spencer-Jolly, D., Bovornratanarak, T., Tunghathaithip, N., <u>Niipanich, S.</u> , Sriprachuabwong, C. and Kasemchainan, J.                                                                                       | Biomass-Derived Carbon Electrode for High Capacity and Stable Lithium-Ion Batteries                                                                                                                         | Journal of Environmental Chemical Engineering 14 (April 2026): 121579 | Q1  | 7.2  | Materials Science and Engineering |
| 217 | BL3.1: XPS       | Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., <u>Nawong, S.</u> , Wichitsathian, B. and <u>Jearanaikoon, N.</u>                                                                                                                            | Comparative Synthesis of Zeolite A from Agricultural Residue Ashes: Influence of Silica Source on Water Softening and Fixed-Bed Column Performance                                                          | Results in Engineering 30 (Jun 2026): 110949                          | Q1  | 7.9  | Environmental Science             |
| 218 | BL3.1: XPS       | Yun, H., Chinnakutti, K. K., Noerochim, L., <u>Niipanich, S.</u> , Pornprasertsuk, R., Sawada, Y., Saito, N. and Kasemchainan, J.                                                                                                                    | Achieving Waste-Valorized Anode Materials for Li-Ion Batteries by Surface Engineering of Recycled Graphite from Spent Zn-C Batteries                                                                        | ACS Sustainable Chemistry & Engineering 13 (2025): 13908-13919        | Q1  | 7.3  | Materials Science and Engineering |
| 219 | BL3.2U: PES/PEEM | Chaiyachad, S., Vo, T. P., Jindata, W., Singesen, S., Eknapakul, T., Jaisuk, C., Fevre, P. L., Bertran, F., Lu, D., Huang, Y., <u>Nakajima, H.</u> , Liewrian, W., Fongkaew, I., Minar, J. and Meevasana, W.                                         | Emergence of a Bandgap in Nano-Scale Graphite: A Computational and Experimental Study                                                                                                                       | Applied Surface Science 708 (Nov 2025): 163756                        | Q1  | 6.9  | Physics                           |
| 220 | BL3.2U: PES/PEEM | Chananonnavathorn, C., Hinceeranan, W., <u>Nakajima, H.</u> , Songsiririthigul, P., Nuntawong, N., Aiempanakit, M., Watcharapasorn, A., He, Y., Meng, G., Horprathum, M. and Aiempanakit, K.                                                         | Reactive Co-Sputtered WxTayOz Thin Films with Tailored Electrochromic Performance                                                                                                                           | Materials Research Bulletin 196 (Mar 2026): 113889                    | Q1  | 5.7  | Materials Science and Engineering |
| 221 | BL3.2U: PES/PEEM | Chang, X., Zhou, X., <u>Buangam, P., Kamonsutthipaijit, N., Tunmee, S.</u> and Cabot, A.                                                                                                                                                             | Key Factors Influencing the Plateau Region in N-Doped Hard Carbon for Sodium Storage                                                                                                                        | EES Batteries 1 (2025): 1583-1595                                     | n/a | n/a  | Materials Science and Engineering |
| 222 | BL3.2U: PES/PEEM | Chang, X., Zhou, X., Li, J., Yu, A., <u>Buangam, P., Kamonsutthipaijit, N., Tunmee, S.</u> and Cabot, A.                                                                                                                                             | Key Factors Influencing Initial Coulombic Efficiency and Plateau Region in N, P-co-Doped Hard Carbon: Insights from Chemical States and Microstructure                                                      | ACS Applied Energy Materials 8 (2025): 11490-11501                    | Q1  | 5.5  | Materials Science and Engineering |
| 223 | BL3.2U: PES/PEEM | Choodam, K. Kamjam, N., Sukpan, N., Seriwattanachai, C., Inna, A., Thant, K. S., Srathongsian, L., <u>Supruangnet, R., Nakajima, H.</u> , Kaewprajak, A., Kumnorkaew, P., Wongratanaphisan, D., Ruankham, P., Pakawatpanurut, P. and Kanjanaboos, P. | Economical Perovskite Solar Cell Enabled by Triple Cost-Reduction Strategies                                                                                                                                | Small Science 6 (2026): e202500451                                    | Q1  | 8.3  | Materials Science and Engineering |
| 224 | BL3.2U: PES/PEEM | Kaiyasuan, C., Kongkansarn, J., Waengdongbung, W., Sudyoadsuk, T., Songsiririthigul, P., <u>Nakajima, H.</u> , Promarak, V. and Kongpatpanich, K.                                                                                                    | Zeolitic Imidazole Framework as Defect Passivation Layer for Enhanced Electron Injection Efficiency in Organic Light-Emitting Diodes                                                                        | Small 21 (Nov 2025): e02234                                           | Q1  | 12.1 | Surface, Interface and Thin Films |
| 225 | BL3.2U: PES/PEEM | Kamjam, N., Choodam, K., Sukpan, N., Kittikool, T., Seriwattanachai, C., Kamnoedmanee, S., Hu, Y., <u>Supruangnet, R., Nakajima, H.</u> , Kaewprajak, A., Kumnorkaew, P., Wongratanaphisan, D., Ruankham, P., Pakawatpanurut, P. and Kanjanaboos, P. | ETL-Free and HTL-Free Perovskite Solar Cell as the Simplified Power Source for Energy-Frugal Indoor IoTs                                                                                                    | Results in Engineering 30 (Jun 2026): 110377                          | Q1  | 7.9  | Materials Science and Engineering |
| 226 | BL3.2U: PES/PEEM | Kanlayapattamapong, T., Pudkon, W., Thongimboon, K., Ruengsuk, A., Seriwattanachai, C., Sukwiboon, T., Kanjanaboos, P., Goubard, F., Bui, T., Sagawa, T., Wongratanaphisan, D. and Ruankham, P.                                                      | Single-Step SnO2 Deposition Enabled by Colloidal Engineering with Additive Polyoxyethylene Tridecyl Ether and Carbon Nanodots for Simplified and Effective Perovskite Solar Cells in Low-Light Applications | Journal of Colloid and Interface Science 700 (Dec 2025): 138436       | Q1  | 9.7  | Surface, Interface and Thin Films |
| 227 | BL3.2U: PES/PEEM | Kamal, S. A. A., Ritikos, R. A., Goh, B. T., Hafiz, S. M., <u>Nakajima, H. and Tunmee, S.</u>                                                                                                                                                        | Comparative Study on Nitrogen Doping and Bending Performance of rGO and rGO-PEDOT:PSS for Deformation Sensors                                                                                               | Journal of Materials Science 61 (2026): 3047-3068                     | Q1  | 3.9  | Materials Science and Engineering |
| 228 | BL3.2U: PES/PEEM | Kooking, P., Henjongchom, N., Choochottiros, C., <u>Supruangnet, R.</u> , Rujisamphan, N. and Supasai, T.                                                                                                                                            | Polyaniline-Enabled Dual Passivation of SnOx Oxygen Vacancies and Perovskite Surface Defects                                                                                                                | ACS Applied Materials & Interfaces                                    | Q1  | 8.2  | Materials Science and Engineering |

| No. | Beamline            | Author                                                                                                                                                                                                                                                                                                      | Title                                                                                                                                                             | Source                                                                    | Q  | IF   | Field                             |
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| 229 | BL3.2U:<br>PES/PEEM | Kulawong, S., Kulawong, J., <u>Chanlek, N.</u> , Wittayakun, J. and Osakoo, N.                                                                                                                                                                                                                              | Magnesium Oxide on Activated Carbon with Various Nitrogen Contents as Catalysts for Glucose Isomerization to Fructose                                             | Materials Today Communications 49 (Dec 2025): 114315                      | Q1 | 4.5  | Chemistry                         |
| 230 | BL3.2U:<br>PES/PEEM | Mas’udah, K. W., Anggoro, D., <u>Nakajima, H.</u> , <u>Sapruangnet, R.</u> , Astuti, F., Asih, R. and Darminto, D.                                                                                                                                                                                          | Palm Oil Shell-Derived SiO2/Hard-Carbon-Like Nanocomposites for a Potential Application as Dual Carbon Battery Electrode                                          | Biomass and Bioenergy 203 (Dec 2025): 108332                              | Q1 | 5.8  | Materials Science and Engineering |
| 231 | BL3.2U:<br>PES/PEEM | <u>Nakajima, H.</u> , <u>Wongpinij, T.</u> , <u>Tunmee, S.</u> , Horprathum, M., Chaikereee, T., Lertvanithphol, T., Niibe, M. and Akasaka, H.                                                                                                                                                              | Temperature-Dependent Electronic Structures in Diamond-Like Carbon Films Fabricated by Pulsed Plasma Chemical Vapor Deposition with Different Hydrocarbon Sources | Diamond and Related Materials 160 (dec 2025): 113017                      | Q1 | 5.1  | Materials Science and Engineering |
| 232 | BL3.2U:<br>PES/PEEM | Nammahachak, N., Sriondee, M., Eknapakul, T., <u>Rattanachata, A.</u> , <u>Nakajima, H.</u> , Best, J. P., Meevasana, W., Triamnak, N. and Ratanaphan, S.                                                                                                                                                   | Dynamic change in light-regulated hardness in SrTiO3                                                                                                              | Applied Physics Letters 127 (Oct 2025): 171602                            | Q1 | 3.6  | Materials Science and Engineering |
| 233 | BL3.2U:<br>PES/PEEM | Nazri, N. A. A., Azis, R. S., Ismail, I., Man, H. C., Kasmuri, N., <u>Nakajima, H.</u> , <u>Chanlek, N.</u> and Hanafiah, M. A. K. M.                                                                                                                                                                       | Colloidal Stability and Cadmium Removal Efficiency of Chitosan-Modified Magnetite Nanoparticles from Mill Scale Waste                                             | International Journal of Biological Macromolecules 339 (Jan 2026): 149736 | Q1 | 8.5  | Environmental Science             |
| 234 | BL3.2U:<br>PES/PEEM | Nuchuay, P., Sriporaya, K., Chananonwathorn, C., Daniels, T. M., Lertvanithphol, T., Eiamchai, P., Promjantuk, C., <u>Nakajima, H.</u> , Horprathum, M. and Limwichean, S.                                                                                                                                  | Influence of Duty Cycle Ratios in HiPIMS with GLAD Techniques on the Preparation of WO3 Nanorod Films for Electrochromic Properties                               | Radiation Physics and Chemistry 237 (Dec 2025): 113138                    | Q2 | 3.3  | Surface, Interface and Thin Films |
| 235 | BL3.2U:<br>PES/PEEM | Sani, S. F. A., Dimashqi, W. A. M. W., Ismail, S. S., Kean, L. S., Goh, B. T., <u>Nakajima, H.</u> , <u>Tunmee, S.</u> and Bradley, D. A.                                                                                                                                                                   | Structural Defect Analysis of Graphene Nanoplatelets under Sub-kGy Gamma Irradiation for Dosimetric Applications                                                  | Radiation Physics and Chemistry 238 (Jan 2026): 113254                    | Q2 | 3.3  | Materials Science and Engineering |
| 236 | BL3.2U:<br>PES/PEEM | Sawatmongkhon, B., Sawatdimongkon, A., Promhuad, P., Wongchang, T., Sukjit, E., Theinnoi, N. and Theinnoi, K.                                                                                                                                                                                               | Advanced Kinetic Analysis of Ag/Al2O3-Catalysed Diesel Particulate Matter Oxidation: Multi-Step Modelling and Peak Deconvolution                                  | Thermochimica Acta 756 (Feb 2026): 180201                                 | Q2 | 3.5  | Chemistry                         |
| 237 | BL3.2U:<br>PES/PEEM | Singh, S., Usulor, C. E., Khampa, W., Musikpan, W., Passatorntaschakorn, W., Tipparak, P., Seriwattanachai, C., <u>Nakajima, H.</u> , Ngamjarurojana, A., Gardchareon, A., Kanjanaboos, P., Ruankham, P. and Wongratanaphisan, D.                                                                           | Facile Ethylvanillin Passivation for High-Performance CsFA Perovskite Solar Cells in Variable Lighting Environments                                               | ACS Applied Electronic Materials 7 (2025): 7616-7630                      | Q1 | 4.7  | Surface, Interface and Thin Films |
| 238 | BL3.2U:<br>PES/PEEM | Sriondee, M., Chongsatan, W., Thammaacheep, P., Nunocha, P., Meechob, J., <u>Rattanachata, A.</u> , <u>Nakajima, H.</u> , Bongkarn,T. and Suriwong, T.                                                                                                                                                      | Synergistic Charge Transfer and Oxygen Vacancy in SrTiO3/LaFeO3 Heterojunction Photocatalysts for Enhanced Lignin Decolorization                                  | Journal of Alloys and Compounds 1057 (Mar 2025): 186307                   | Q1 | 6.3  | Chemistry                         |
| 239 | BL3.2U:<br>PES/PEEM | Sukgorn, N., Kaewprajak, A., Lapawae, K., Sinthiptharakoon, K.,Treetong, A., Hasuchon, C., Gamonchuang, J., Kayunkid, N., <u>Nakajima, H.</u> , Amloy, S., Maiaugree, W., Infahsaeng, Y., Rujisamphan, N., Kanjanaboos, P., Ruankham, P., Wongratanaphisan, D., Promarak, V., Sagawa, T. and Kumnorkaew, P. | NiO Nanoparticle-Modified PTAA Hole Transport Layers for High-Efficiency and Stable Large-Area Perovskite Solar Cells                                             | ACS Applied Energy Materials                                              | Q1 | 5.6  | Materials Science and Engineering |
| 240 | BL3.2U:<br>PES/PEEM | Tang, B., Zhang, Y., Ji, B., Yu, G., Zheng, Y., Zhou, X., <u>Kamonsutthipaijit, N.</u> , <u>Buangam, P.</u> , <u>Tunmee, S.</u> , <u>Nakajima, H.</u> , <u>Rittihong, U.</u> , Pan, Q., Zhang, F. and Tang, Y.                                                                                              | Ion-Mediated Carbon Microdomain Engineering Boosting Enhanced Plateau Capacity of Carbon Anode under High Rate Towards High-Performance Sodium Dual-Ion Batteries | Nano-Micro Lett. 18 (2026): 161                                           | Q1 | 36.3 | Materials Science and Engineering |
| 241 | BL3.2U:<br>PES/PEEM | Thant, K. K. S., Pangsa-Ngat, P., Sakata, P., Srathongsian, L., Seriwattanachai, C., Tun, M. Z., Tun, P. T., Kanlayapattamapong, T., Rueangsawang, W., Choodam, K., Ruankham, P., Chattham, N., <u>Supruangnet, R.</u> , <u>Nakajima, H.</u> and Kanjanaboos, P                                             | Self-Powered Perovskite Photodetector with Chocolate-Chip-Cookie Structure                                                                                        | Light: Advanced Manufacturing                                             | Q1 | 10.6 | Materials Science and Engineering |
| 242 | BL3.2U:<br>PES/PEEM | Then, M. Y., Sookhakian, M., Goh, B. T., Teridi, M. A. M., Aspanut, Z., <u>Nakajima, H.</u> , <u>Chanlek, N.</u> and Alias, Y.                                                                                                                                                                              | Supercapacitors Based on Ternary Composites of Ceria-Manganese Oxide Nitrogen-Doped Graphene                                                                      | ACS Applied Nano Materials 8 (2025): 16802-16814                          | Q1 | 5.5  | Materials Science and Engineering |
| 243 | BL3.2U:<br>PES/PEEM | Usulor, C. E., Passatorntaschakorn, W., Khampa, W., Musikpan, W., Tipparak, P., Singh, S., Ogbuagu, I. C., Seriwattanachai, C., <u>Nakajima, H.</u> , Ngamjarurojana, A., Gardchareon, A., Kanjanaboos, P., Ruankham, P. and Wongratanaphisan, D.                                                           | Multifunctional DIPAI Surface Passivation: Enhancing Efficiency and Stability of Perovskite Solar Cells Across Lighting Conditions                                | ACS Applied Energy Materials 8 (2025): 11490-11501                        | Q1 | 5.5  | Surface, Interface and Thin Films |
| 244 | BL3.2U:<br>PES/PEEM | Wongthawachnugool, S., Limwichean, S., Lertvanithphol, T., Pattanasettakul, V., Somboonsaksri, P., <u>Nakajima, H.</u> , Horprathum, M., Triroj, N. and Jaroenapibal, P.                                                                                                                                    | Reactive Gas-Timing Control for Photo-Responsive TiO2 Slanted Nanorod Films Fabricated by Oblique Angle Magnetron Sputtering                                      | Materials Chemistry and Physics 354 (Apr 2026): 132157                    | Q1 | 4.7  | Micro Nanotechnology              |
| 245 | BL3.2U:<br>PES/PEEM | Wu, F., Lei, X. Pan, X., Nie, H., Xiao, Q., Zhou, X., Deng, W., <u>Kidkhunthod, P.</u> , <u>Padchasri, J.</u> , <u>Tunmee, S.</u> , <u>Rittihong, U.</u> , <u>Nakajima, H.</u> , Wen, J. and Tang, Y.                                                                                                       | Synergistic Mechanism of Nanochannels and Chain Migration in Bioinspired Solid-State Gel Electrolytes for Ultrahigh-Rate, Long-Life Flexible Tin-Air Batteries    | Angewandte Chemie International Edition                                   | Q1 | 16.9 | Materials Science and Engineering |
| 246 | BL4.1: IR           | Chinnakorn, A., Weeranantanapan, O., <u>Thumanu, K.</u> , Poopisut, P., Boontawan, A. and Nuansing, W.                                                                                                                                                                                                      | Synchrotron FTIR Microspectroscopy Imaging for Evaluating Cell Distribution on Electrospun Fibrous Scaffolds                                                      | ACS Omega                                                                 | Q1 | 4.3  | Medical Applications              |

| No. | Beamline   | Author                                                                                                                                                                                                                                          | Title                                                                                                                                                                 | Source                                                               | Q  | IF   | Field                             |
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| 247 | BL4.1: IR  | <u>Chio-Srichan, S., Attarataya, J., Phonthongchanthuek, T., Tarawarakarn, P., Srisamut, D., Chantarakorn, C., Saivasombat, C., Soontaranon, S., Rugmai, S.,</u> Songsiriritthigul, P., Moreno, T. and Dumas, P.                                | Design and Performance of the First Infrared Beamline at Siam Photon Laboratory (SPL) , Thailand                                                                      | Infrared Physics & Technology 152 (Jan 2026): 106248                 | Q2 | 3.4  | Physics                           |
| 248 | BL4.1: IR  | Indriani, S., Srisakultiew, N., Benjakul, S. Andriani, C., <u>Thumanu, K.</u> Kingwascharapong, P., Sai-ut, S. and Pongsetkul, J.                                                                                                               | Molecular Structural Changes of Korat Chicken Meat as Affected by Packaging Conditions During Cold Storage: Correlation to Textural Traits and Sensory Acceptance     | Poultry Science 105 (Feb 2026): 106315                               | Q1 | 4.2  | Food and Agricultural Science     |
| 249 | BL4.1: IR  | Junyusen, P., Taengsopha, P., Labut, K., Chatchavanthatri, N. and Junyusen, T.                                                                                                                                                                  | Process Development for Producing High-Purity Inulin Powder from Jerusalem Artichokes through Hot Water Extraction, Purification, and Drying                          | LWT - Food Science and Technology 245 (Apr 2026): 119267             | Q1 | 6.6  | Food and Agricultural Science     |
| 250 | BL4.1: IR  | Matphang, S., Aueboonprasert, N., Rattanakam, R., Teanchai, C., Sinthuvanich, C., <u>Attarataya, J.</u> , Sonthisathaporn, M. and Akkarachaneeyakorn, K.                                                                                        | Multifunctional Strontium-MOFs-Based Dental Adhesive: Innovation for Enhanced Bonding Performance and Bioactivity                                                     | International Journal of Adhesion & Adhesives 144 (Jan 2026): 104189 | Q2 | 3.2  | Medical Applications              |
| 251 | BL4.1: IR  | Pongsetkul, J., Watchasit, S., Petcharat, T., Arnold, M., Rajagukguk, Y. V., Kingwascharapong, P., Karnjanapratum, S., Kaewprachu, P., Grossmann, L., Jung, Y. H., Rawdkuen, S. and Sai-Ut, S.                                                  | Plant-Based Protein Bioinks with Transglutaminase Crosslinking: 3D Printability and Molecular Insights from NMR and Synchrotron-FTIR                                  | Foods. 15 (Jan 2026): 322                                            | Q1 | 5.1  | Food and Agricultural Science     |
| 252 | BL4.1: IR  | Saknaveeporn, K., Yingkamhaeng, N., Torgbo, S., <u>Kamonsutthipaijit, N., Thumanu, K.,</u> Nimchua, T., Watthanasakphuban, N. and Sukyai, P.                                                                                                    | Bioconversion of Sugarcane Bagasse into Cellulose and Organic Acid Using Lactiplantibacillus plantarum/Laccase-Mediated Pretreatment                                  | Food Bioprocess Technology 18 (2025): 11015-11030                    | Q1 | 5.8  | Food and Agricultural Science     |
| 253 | BL4.1: IR  | Thaiwong, N., Keawrangsi, N., Ruenphoklang, S., Kongsuk, M., Phetsuk, N., Vasupen, K., Rabpairee, K., Toommuangpak, W., Sinprachim, T., Lohalaksanadech, S., <u>Nawong, S.</u> and Kachenpukdee, N.                                             | Multi-Scale Structural Analysis and Hierarchical Discrimination of Natural Chitin from Diverse Biological Sources                                                     | Trends in Sciences 23 (2026): 12776                                  | Q2 | 1.33 | Materials Science and Engineering |
| 254 | BL4.1: IR  | Yimrattanabovorn, J., Kanjanaputhipong, K., Wonglertarak, W., Wichitsathian, B., Khowattana, M. and <u>Nawong, S.</u>                                                                                                                           | Microplastic Removal in Coagulation-Flocculation: Optimization through Chemometric and Morphological Insights                                                         | Journal of Ecological Engineering 27 (2026): 277-292                 | Q2 | 1.5  | Environmental Science             |
| 255 | BL4.1: IR  | Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., <u>Nawong, S.,</u> Wichitsathian, B. and <u>Jearanaikoon, N.</u>                                                                                                                        | Comparative Synthesis of Zeolite A from Agricultural Residue Ashes: Influence of Silica Source on Water Softening and Fixed-Bed Column Performance                    | Results in Engineering 30 (Jun 2026): 110949                         | Q1 | 7.9  | Environmental Science             |
| 256 | BL5.2: XAS | Chankhanittha, T., Yodsin, N., Khemthong, P., Sangkhun, W., Ponchai, J., Punklahan, N., Phanthasri, J., Youngjan, S., Jiratanachotikul, A., Khunphonoi, R., Chuaicham, C., Trakulmututa, J., Sasaki, K., Wannakan, K., Yin, L. and Butburee, T. | In Situ Growth of Amine-Rich g-C3N4 with Carbon Defects for Boosting Visible-Light Photocatalytic CO2 Reduction Performance                                           | ACS Applied Energy Materials                                         | Q1 | 5.6  | Chemistry                         |
| 257 | BL5.2: XAS | Chankhanittha, T., Samart, N., Chaloeawsawatwong, P., Waracalai, P., Nanan, S., Butburee, T., Jiratanachotikul, A., Punklahan, N., Kalapakdee, S., Yodsin, N., <u>Niipanich, S.</u> , Wannakan, K., Paritmongkol, W. and Khemthong, P.          | Synergistic Effect of Zn Single Atoms and g-C3N4 for CO2 Reduction: Mechanistic Insights from DFT and Experiments                                                     | Journal of Environmental Chemical Engineering 14 (Jun 2026): 122617  | Q1 | 7.2  | Chemistry                         |
| 258 | BL5.2: XAS | Chinnakutti, K. K., Yun, H., Kheawhom, S., Gao, H., Tapia-Ruiz, N., <u>Kidkhunthod, P., Niipanich, S.,</u> Sawada, Y., Saito, N. and Kasemchainan, J.                                                                                           | From Spent Zinc–Carbon Batteries to Lithium-Ion Batteries: An Eco-Friendly Method to Recycle Graphite                                                                 | Journal of Energy Storage 134 (Oct 2025): 118244                     | Q1 | 9.8  | Materials Science and Engineering |
| 259 | BL5.2: XAS | Fu, X., Lei, X., Wang, Y., Cui, S., Hu, J., Lang, T., Zhou, X., <u>Tunmee, S., Wannapaiboon, S.,</u> Wang, X., Zhong, X. and Xu, B.                                                                                                             | Lattice Oxygen Activation Enabled by Fe Doping in Double Perovskite Oxides for Efficient Zinc–Air Batteries                                                           | Journal of Materials Chemistry A                                     | Q1 | 9.5  | Chemistry                         |
| 260 | BL5.2: XAS | Hu, J., Li, Z., Lei, X., Wang, Y., Peng, W., Cui, S., Chen, K., Liu, G., Lang, T., Zhu, P., Zhou, X., <u>Tunmee, S., Padchasri, J., Wannapaiboon, S.,</u> Wang, X., Yan, L., Zhong, X. and Xu, B.                                               | Rare-Earth Element-Induced Charge Redistribution in High-Entropy Alloys toward Highly Stable Oxygen Evolution Catalysis                                               | ACS Nano                                                             | Q1 | 16.1 | Chemistry                         |
| 261 | BL5.2: XAS | Jutimoosik, J., Nunocha, P., <u>Kidkhunthod, P.,</u> Suriwong, T. and Bongkarn, T.                                                                                                                                                              | Local Structure Analysis of Sr-doped LaFeO3 Perovskite by Synchrotron X-ray Absorption Spectroscopy                                                                   | Radiation Physics and Chemistry 239 (Feb 2026): 113244               | Q2 | 3.3  | Materials Science and Engineering |
| 262 | BL5.2: XAS | Khajonrit, J., Sichumsaeng, T., Saenrang, W., Wongprasert, S., Tanapongpisit, N., Pinitsoontorn, S., <u>Kidkhunthod, P., Chanlek, N.,</u> Wongjom, P., Phumying, S. and Maensiri, S.                                                            | Effect of Ni Doping on the Structural, Magnetic, and Electrochemical Properties of BiMnFe2O6 for Energy Storage Applications                                          | Radiation Physics and Chemistry 237 ( Dec 2025): 113050              | Q2 | 3.3  | Materials Science and Engineering |
| 263 | BL5.2: XAS | Khamlue, R., Chatsiri, P., Sakurada, T., Chotimook, J., Leangtanom, P., Prayongkul, P., Atitthep, T., <u>Padchasri, J., Kidkhunthod, P.,</u> Vacha, M., Pattanasattayavong, P. and Paritmongkol, P.                                             | Chelation-Driven Dissolution and Single-Crystal Growth of Hybrid Metal Organochalcogenide Semiconductors by Polydentate Amines                                        | Journal of the American Chemical Society 147 (2025): 37242-37254     | Q1 | 15.6 | Materials Science and Engineering |
| 264 | BL5.2: XAS | Kantha, P., Unruan, M., Tunkasiri, T., Pengpat, K., Sukkha, U., Jaiban, P., <u>Padchasri, J., Siriroy, S. and Kidkhunthod, P.</u> and Pisitpipathsin, N.                                                                                        | Effect of Ba0.93Ca0.04La0.03Sn0.1Ti0.9O3 Addition on Structural and Electrical Properties of Lead-Free 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3 Piezoelectric Ceramics | Radiation Physics and Chemistry 237 (Dec 2025): 113011               | Q2 | 3.3  | Materials Science and Engineering |
| 265 | BL5.2: XAS | Kao-ian, W., Tangthum, P., <u>Kidkhunthod, P., Limphirat, W., Padchasri, J.,</u> Aubert, N., Ciatto, G., In, I., Wu, K. C. W. and Kheawhom, S.                                                                                                  | Monitoring Interfacial Dynamics of a Zinc-Ion Battery Cathode Using In Situ Grazing Incidence X-Ray Absorption Spectroscopy: A Case Study of Manganese Dioxide        | Small Methods 10 (Feb 2026): e70421                                  | Q1 | 9.1  | Surface, Interface and Thin Films |

| No. | Beamline   | Author                                                                                                                                                                                          | Title                                                                                                                                                                                      | Source                                                            | Q  | IF   | Field                             |
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| 266 | BL5.2: XAS | Kruefu, V., Leangtanom, P., Wiboon, M., Wisitsoraat, A., <u>Chanlek, N., Poo-arporn, Y.</u> and Jaruwongrungee, K.                                                                              | CeO2-Decorated NiO Nanoflowers Synthesized via a One-Pot Microwave-Assisted Hydrothermal Route for Ethanol Gas Sensing                                                                     | Sensors and Actuators: B. Chemical 465 (2026): 140148             | Q1 | 7.7  | Materials Science and Engineering |
| 267 | BL5.2: XAS | Kumalayanti, L., <u>Padchasri, J., Kidkhunthod, P.</u> , Harnchana, V., Moontragoon, P., Pinitsoontorn, S. and Chankhunthod, N.                                                                 | Cassava Pulp-Derived N-Doped Carbon Quantum Dots/TiO2 Photocatalysts for Solar-Driven Antibiotic Degradation: Structural and Electronic Insights from XPS and XAS                          | Surfaces and Interfaces 94 (Aug 2026): 109447                     | Q1 | 6.3  | Chemistry                         |
| 268 | BL5.2: XAS | Kumalayanti, L., Phianjing, C., <u>Padchasri, J., Kidkhunthod, P.</u> , Chimupala, Y., Harnchana, V., Srepusharawoot, P., Moontragoon, P., Thongbai, P., Pinitsoontorn, S. and Chankhunthod, N. | Ti3+-Vo Defect-Engineered In-Nb co-doped TiO2: XPS and XAS Insights into Photocatalytic Oxytetracycline Degradation and Dielectric Interfacial Behavior                                    | Radiation Physics and Chemistry 248 (2026): 114074                | Q2 | 3.3  | Materials Science and Engineering |
| 269 | BL5.2: XAS | Kumchompoo, J., Yang, J., <u>Padchasri, J., Kidkhunthod, P.</u> , Lee, J. T. and Li, C. C.                                                                                                      | LiFePO4/Nano-LLZTO Composite Cathodes for Enhanced Performance of Solid-State Lithium Batterie                                                                                             | ACS Applied Materials & Interfaces 18 (2026): 13848-13860         | Q1 | 8.2  | Materials Science and Engineering |
| 270 | BL5.2: XAS | Latief, F., Arrosyid, B. H., Amalia, R., Fahroji, M., Ghariy, G., Aryanto, D., Fajar, A., <u>Kidkhunthod, P.</u> , Suasgoro, S., Pramono, A. W. and Noviyanto, A.                               | Composition and Annealing Process Influence on Structure, Local Structure, Electrical, and Magnetic Properties of MnFe2O4                                                                  | The Journal of Physical Chemistry C 129 (2025): 15724-15735       | Q1 | 3.2  | Micro Nanotechnology              |
| 271 | BL5.2: XAS | Makdee, A., Siriwoong, C., Poosimma, P., Lorwanishpaisarn, N., <u>Poo-arporn, Y., Kidkhunthod, P.</u> and Chanapattarapol, K. C.                                                                | Synergistic Effect of Ru-Ni in ZrO2-Supported Catalysts for Robust CO2 Methanation: a Mechanistic and In-Situ Spectroscopic Study                                                          | Journal of Catalysis 454 (Feb 2026): 116620                       | Q1 | 6.5  | Chemistry                         |
| 272 | BL5.2: XAS | Masakul, P., Krongkitsiri, P., Thongbai, P., <u>Kidkhunthod, P.</u> , Maensiri, S. and Sonsupap, S.                                                                                             | Dielectric and Electrochemical Behavior of Hydrothermally Synthesized Zn-Doped Titanate Nanotubes                                                                                          | Radiation Physics and Chemistry 248 (2026): 114103                | Q2 | 3.3  | Materials Science and Engineering |
| 273 | BL5.2: XAS | <u>Padchasri, J., Siriraj, S. and Kidkhunthod, P.</u>                                                                                                                                           | Enhanced Capacity and Cyclic Performance of Lithium-Ion Battery Using a Mixture of V2O5 and Lithium Borate Glasses Doped with Manganese, Cobalt, and Nickel as the Cathode Active Material | Radiation Physics and Chemistry 235 (Oct 2025): 112839            | Q2 | 3.3  | Materials Science and Engineering |
| 274 | BL5.2: XAS | Pitipuech, N., Takam, N., Saejio, A., Sanetuntikul, J., Poompipatpong, C., Chanunpanich, N., <u>Chanlek, N., Padchasri, J.</u> , Nernprom, K., Shanmugam, S. and Ketpang, K.                    | Tailoring Electronic Metal-Support Interaction via Metallic Co Encapsulation to Accelerate Oxygen Reduction Kinetics in Single-Atom Co-Nx Catalysts                                        | International Journal of Hydrogen Energy 230 (Apr 2026): 154845   | Q1 | 8.3  | Chemistry                         |
| 275 | BL5.2: XAS | Prasertboonyai, K. and Osakoo, N.                                                                                                                                                               | Synthesis of Nitrogen-Doped Activated Carbon from Agricultural Wastes of Durian Peel for Cr (VI) Removal from Water                                                                        | Radiation Physics and Chemistry 235 (Jan 2026): 101613            | Q3 | 1    | Environmental Science             |
| 276 | BL5.2: XAS | Putjuso, S., Hunyek, A., Nonglek, S. and Putjuso, T.                                                                                                                                            | Breaking the Loss Barrier in CCTO: Sol-Gel Tin Enables High Permittivity with Capacitor-Grade Loss Tangent                                                                                 | Results in Physics 81 (Feb 2026): 108584                          | Q1 | 5.04 | Materials Science and Engineering |
| 277 | BL5.2: XAS | Seejandee, P., Osakoo, N., Krukkratoke, P., Keawkumay, C., Deekamwong, K., Prayoonpokarach, S. and Wittayakun, J.                                                                               | Encapsulation of Potassium Carbonates in Collapsed Zeolite Y: A Stable and Reusable Catalyst for Biodiesel Production                                                                      | Journal of Physics and Chemistry of Solids 211 (Apr 2026): 113462 | Q1 | 4.9  | Chemistry                         |
| 278 | BL5.2: XAS | Sereerattanakorn, P., <u>Padchasri, J.</u> , Pornprasertsuk, R. and <u>Kidkhunthod, P.</u>                                                                                                      | A Dual-Function Lithium Borate Glass Ceramics-Copolymer Composite Interlayer for Lithium-Sulfur Batteries                                                                                  | Journal of Alloys and Compounds 1060 (Mar 2026): 187284           | Q1 | 6.3  | Materials Science and Engineering |
| 279 | BL5.2: XAS | Shin, J., Li, H.-Y., Wu, Y., Park, K., Shin, J. W., <u>Wannapaiboon, S., Limphirat, W.</u> , An, J., and Su, P. C.                                                                              | Reconciling the Stability-Activity Dilemma on Perovskite Oxide Electrode Surfaces with Oxygen-Deficient ZrOx Nanocoatings                                                                  | ACS Energy Letters 11 (2026): 782-789                             | Q1 | 18.9 | Materials Science and Engineering |
| 280 | BL5.2: XAS | Sim, W. J., Nguyen, M. T. Kao-ian, W., <u>Kidkhunthod, P.</u> , Chiu, T. W., Khaewhom, S., Somwangthanaroj, A., Pu, Y. C. and Yonezawa, T.                                                      | Stabilisation of Lanthanum Nickelate Electrocatalysts via Pt-doping for High Current Density Rechargeable Zinc-Air Battery                                                                 | Journal of Materials Chemistry A 14 (Feb 2026): 6479-6492         | Q1 | 9.5  | Chemistry                         |
| 281 | BL5.2: XAS | Sriwichai, S., Sakulsermsuk, S., Wetchakun, K., <u>Kidkhunthod, P.</u> and Wetchakun, N.                                                                                                        | Promotion of Single-Phase Tetragonal BiVO4 by Y Doping for Improving Photocatalytic Activities                                                                                             | Ceramics International 51 (Nov 2025): 48146-48160                 | Q1 | 5.6  | Chemistry                         |
| 282 | BL5.2: XAS | Sukkha, U., <u>Chanlek, N., Kidkhunthod, P.</u> , Kolodiaznyi, T., Vittayakorn, W. and Vittayakorn, N.                                                                                          | Thermally Induced Phase Transition and Dielectric Relaxation in Lead-Free BaTi0.94Sn0.06O3 Ceramics: Insights from In-Situ XRD and XAS                                                     | Radiation Physics and Chemistry 235 (Oct 2025): 112839            | Q2 | 3.3  | Materials Science and Engineering |
| 283 | BL5.2: XAS | Suwannaruang, M., Triroj, N., Kaewmaraya, T., Nachaithong, T., <u>Padchasri, J., Kidkhunthod, P.</u> , Knijnenburg, J. T. N. and Tanusilp, S.                                                   | Exploring the Atomic and Electronic Structures of Low Thermal Conductivity Materials using a Combined XAS and DFT Approach                                                                 | Radiation Physics and Chemistry 237 (Dec 2025): 113088            | Q2 | 3.3  | Materials Science and Engineering |
| 284 | BL5.2: XAS | Termsombut, P., Plerdsranoy, P., Thiangviriyi, S., Untarabut, P., Suthirakun, S., <u>Tanthanuch, W.</u> and Utke, R.                                                                            | Hydrogen Sorption Properties of La-Ce-Ni-Al: Experimental and Computational Studies                                                                                                        | Journal of Alloys and Compounds 1070 (Jun 2026): 188538           | Q1 | 6.3  | Materials Science and Engineering |

| No. | Beamline   | Author                                                                                                                                                                                                    | Title                                                                                                                                                                                 | Source                                                                    | Q  | IF   | Field                             |
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| 285 | BL5.2: XAS | Thammaniphit, C., Khemthong, P., Butburee, T., Santatiwongchai, J., Sangkhun, W., Meesombat, K., Gonzalez, A. V., Hanrath, T., Chakthranont, P. and Methaapanon, R.                                       | Engineering Cu-Ag Interfaces for Selective Acetate Production in CO2 Electroreduction                                                                                                 | Journal of Materials Chemistry A                                          | Q1 | 9.5  | Chemistry                         |
| 286 | BL5.2: XAS | Thammaniphit, C., Santatiwongchai, J., Impeng, S., Khemthong, P., Meesombad, K., Faungnawakij, K., Hanrath, T., Methaapanon, R. and Chakthranont, P.                                                      | Spikes Effect: Decoding and Redesigning Pulsed Electrochemical CO2 Reduction for Enhanced C–C Coupling on Oxide-Derived Copper                                                        | ACS Catalysis 15 (Oct 2025): 17003-17014                                  | Q1 | 3.1  | Chemistry                         |
| 287 | BL5.2: XAS | Thaweelap, N., Plerdsranoy, P., Thiangviriya, S., Pangon, A., <u>Tanthanuch, W.</u> and Utke, R.                                                                                                          | Dehydrogenation Kinetics, Reversibility, and Reaction Mechanisms of Mg-Co-Ni-H                                                                                                        | Journal of Alloys and Compounds 1044 (Nov 2025): 184199                   | Q1 | 6.3  | Materials Science and Engineering |
| 288 | BL5.2: XAS | Wu, F., Lei, X. Pan, X., Nie, H., Xiao, Q., Zhou, X., Deng, W., <u>Kidkhunthod, P., Padchasri, J., Tunmee, S., Rittihong, U., Nakaiima, H.</u> , Wen, J. and Tang, Y.                                     | Synergistic Mechanism of Nanochannels and Chain Migration in Bioinspired Solid-State Gel Electrolytes for Ultrahigh-Rate, Long-Life Flexible Tin-Air Batteries                        | Angewandte Chemie International Edition                                   | Q1 | 16.9 | Materials Science and Engineering |
| 289 | BL5.2: XAS | Yodkantee, D., Prasatkhetragarn, C., Klinbumrung, A., Kaewjaeng, S., Kothan, S., <u>Padchasri, J., Kidkhunthod, P.</u> , Kaewkhao, J., Sangwaranatee, N. and Prasatkhetragarn, A.                         | Heat-Treatment-Induced GdPO4 Crystallization in a Transparent Phosphate Glassceramic: Linking the Structure to Photoluminescence and X-Ray Shielding                                  | Radiation Physics and Chemistry 248 (2026): 114091                        | Q2 | 3.3  | Materials Science and Engineering |
| 290 | BL5.2: XAS | Yomthong, K., Saenluang, K., Soyphet, A., Ittisanronnchai, S., <u>Padchasri, J., Kidkhunthod, P.</u> , Sooknoi, T., Montoya, A. and Wattanakit, C.                                                        | Dry-Gel Synthesis of Ti-beta for Epoxidation of Unsaturated Fatty Acid Methylesters (FAMES)                                                                                           | Microporous and Mesoporous Materials 413 (2026) 114282                    | Q1 | 4.7  | Chemistry                         |
| 291 | BL5.2: XAS | Yomthong, K., Makdee, A., Soyphet, A., Saenluang, K., Mainewklang, N., Ittisanronnchai, S., <u>Limphirat, W., Kidkhunthod, P.</u> and Wattanakit, C.                                                      | Engineering Ultrafine Cu Nanoparticles Supported on Zeolites via Solvent-Free Inter-Zeolite Transformation for Bioethanol Dehydrogenation                                             | Journal of Materials Chemistry A 14 (2026): 2120-2135                     | Q1 | 9.5  | Chemistry                         |
| 292 | BL5.2: XAS | Yu, M., Wang, Z., Zhao, L., Wang, Y., Kamchombo, S., Liu, K., Wang, J., <u>Padchasri, J.</u> , Yuan, S., Fang, Y., Jungsuttiwong, S., Maitarad, P., <u>Kidkhunthod, P.</u> , Shi, L., Zhao, D. and Lv, Y. | MXene-Scaffolded Planner Mesoporous Carbon with Homogeneous Electric Field Enabling Uniform and Robust SEI for Ultra-Stable Sodium Storage                                            | Advanced Energy Materials 15 (Dec 2025): e03682                           | Q1 | 26   | Materials Science and Engineering |
| 293 | BL6: DXL   | Klinsuk, J., Sunongbua, P., <u>Srisom, K., Janphuag, P.</u> and Lertsiriyothin, W.                                                                                                                        | Microscale Resonator Antenna Array Design on a Silica-Aerogel Substrate for Surface-Enhanced Raman Scattering in the Detection of Diluted Furfural                                    | ACS Omega 11 (Jan 2026): 797-809                                          | Q1 | 4.3  | Micro Nanotechnology              |
| 294 | BL6: DXL   | Tiskratok, W., Kyawsoewin, M., Thuephut, R., Ketkrathok, K., Leerahakanch, C., Chanwises, P., Jitprasertwong, P., Yamada, M., Egusa, H. and Limraksasin, P.                                               | Matrix Stiffness Drives Aggressive Phenotype in Tongue Squamous Cell Carcinoma via Mechanotransduction–Stromal Signalling                                                             | International Dental Journal 76 (Aug 2026): 109581                        | Q1 | 3.7  | Medical Applications              |
| 295 | BL7.2: MX  | Baser, M. F. H., Salleh, M. A. A. M., Said, R. M., Zakaria, M. F., Zaimi, N. S. M. <u>Wannapaiboon, S., Kamonsuangkasem, K., Tancharakorn, S., Tanthanuch, W. and Mothong, N.</u>                         | Influence of Indium on Cu6(Sn,In)5 Formation and Microstructure Refinement in Sn-10wt.%Cu Solder Alloy                                                                                | JOM                                                                       | Q2 | 2.3  | Materials Science and Engineering |
| 296 | BL7.2: MX  | Baser, M. F. H., Salleh, M. A. A. M., Said, R. M., Zaimi, N. S. M., <u>Tancharakorn, S., Tanthanuch, W., Mothong, N.</u> , Vazureanu, P. and Sandu, A. V.                                                 | Effect of Indium on Interfacial Intermetallic Compound (IMC) Growth, Thermal Behaviour and Mechanical Properties of Sn-10Cu-xIn Solder Joints under Multiple Reflow Cycles            | Materials Chemistry and Physics 349 (Feb 2026): 131748                    | Q1 | 4.7  | Materials Science and Engineering |
| 297 | BL7.2: MX  | Beagbandee, C., <u>Charoenwattanasatien, R.</u> , Pengthaisong, S., Kurisu, G., Cairns, J. R. K.                                                                                                          | The Structure of Thermosynechococcus Elongatus Glycoside Hydrolase Family 116 β-glucosidase Shows the Role of the Noncatalytic N-terminal Domain in Controlling Substrate Specificity | International Journal of Biological Macromolecules 332 (Dec 2025): 148566 | Q1 | 8.5  | Chemistry                         |
| 298 | BL7.2: MX  | Bootkul, D., Intayot, S., Uthaichana, K., Wattanachai, P., Intarasiri, S., <u>Songsiriritthigul, C.</u> , Songsiriritthigul, P. and Hauenberger, C. A.                                                    | Reliability of LA-ICP-MS and Synchrotron XANES for Provenance Identification of Rubies                                                                                                | Spectrochimica Acta Part B: Atomic Spectroscopy 232 (Oct 2025): 107271    | Q2 | 3.8  | Earth Science and Archeology      |
| 299 | BL7.2: MX  | Cousin, F. E., Hongkailers, S., Pongpimai, K., <u>Saivasombat, C.</u> , Hinchiranan, N., Samec, J. S. M. and Tungasmita, D. N.                                                                            | Selective Hydrogenation of Fatty Acids to Fatty Alcohols over Bifunctional Ni-Mo-Based Catalyst Supported on Zr-SBA-15                                                                | ACS Sustainable Chemistry & Engineering 13 (2025): 21430-21444            | Q1 | 7.3  | Chemistry                         |
| 300 | BL7.2: MX  | Dai, Z., Zhang, X., Lolupiman, K., Yang, C., Woottapanit, P., <u>Limphirat, W., Wannapaiboon, S.</u> , Zhang, X. and Qin, J.                                                                              | Enhanced Stability of Vanadium-Based Electrode Materials Using Multi-Component Hybrids for High-Performance Zinc-Ion Batteries                                                        | ACS Applied Materials & Interfaces 17 (2025): 57059-57069                 | Q1 | 8.2  | Materials Science and Engineering |
| 301 | BL7.2: MX  | Hazizi, M. H. Z., Salleh, M. A. A. M., Somidin, F., Zaimi, N. S. M., Nadzri, N. I. M., <u>Kamonsuangkasem, K., Tanthanuch, W., Tancharakorn, S., Mothong, N. and Wannapaiboon, S.</u>                     | Effect of Indium on Microstructure, Phase Stability, Anisotropic Lattice Behavior and Mechanical Performance of Sn-58Bi Solder Alloy                                                  | Journal of Materials Science: Materials in Electronics 36 (2025): 2117    | Q2 | 2.8  | Materials Science and Engineering |
| 302 | BL7.2: MX  | Hu, J., Li, Z., Lei, X., Wang, Y., Peng, W., Cui, S., Chen, K., Liu, G., Lang, T., Zhu, P., Zhou, X., <u>Tunmee, S., Padchasri, J., Wannapaiboon, S.</u> , Wang, X., Yan, L., Zhong, X. and Xu, B.        | Rare-Earth Element-Induced Charge Redistribution in High-Entropy Alloys toward Highly Stable Oxygen Evolution Catalysis                                                               | ACS Nano                                                                  | Q1 | 16.1 | Chemistry                         |
| 303 | BL7.2: MX  | Kaewmuangphet, S., Phowang, P., <u>Saivasombat, C.</u> and Tungasmita, D. N.                                                                                                                              | Copper-Loaded KX Zeolite Catalyst for Efficient β-alkylated Dimer Alcohol Formation via Guerbet Reaction of 1-Decanol                                                                 | Journal of Industrial and Engineering Chemistry                           | Q1 | 6    | Chemistry                         |

| No. | Beamline  | Author                                                                                                                                                                                                                                         | Title                                                                                                                                                                    | Source                                                                | Q  | IF   | Field                             |
|-----|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----|------|-----------------------------------|
| 304 | BL7.2: MX | Kao-ian, W., Tangthuum, P., Gopalakrishnan, M., <u>Kidkhunthod, P., Wannapaiboon, S., Limphirat, W., Padchasri, J.</u> , Aubert, N., Ciatto, G., Pornprasertsuk, R., Qin, J. and Kheawhom, S.                                                  | Operando Elucidation of Intergrowth-Driven Stabilization in MnO2 Cathodes for Wet Nonaqueous Zinc-Ion Batteries                                                          | Journal of Power Sources 689 (2026): 240742                           | Q1 | 7.9  | Materials Science and Engineering |
| 305 |           | Peng, P., Chen, Z., Chen, Q., Li, D., Song, L., Lu, J., Luo, Y., Li, K., Hu, K., <u>Tunmee, S., Kidkhunthod, P., Wannapaiboon, S.</u> , Zhen, L., Xu, C. Y. and Pei, Y.                                                                        | Weakened Interfacial Hybridization Unlocks High-Capacity Operation of Commercial Spinel Cathodes                                                                         | Advanced Materials 38 (Apr 2026): e20303                              | Q1 | 26.8 | Materials Science and Engineering |
| 306 |           | Pongpiachan, P., Pripdeevech, P., <u>Wannapaiboon, S., Thumanu, K.</u> , Khruengsai, S., Sripahco, T., Tipmanee, D., Haemanwichian, D., Kanchanaratchataphong, W., Fakkaew, K., Sirimongkonlertkun, N., Aekakkararungroj, A. and Kunpradid, T. | Multi-matrix Investigation of Heavy Metals and Arsenic Speciation in the Mae-Kok River System: Chemical Characterization and Source Attribution                          | Archives of Environmental Contamination and Toxicology 90 (Apr 2026)  | Q1 | 2.2  | Environmental Science             |
| 307 | BL7.2: MX | Shin, J., Li, H.-Y., Wu, Y., Park, K., Shin, J. W., <u>Wannapaiboon, S., Limphirat, W.</u> , An, J., and Su, P. C.                                                                                                                             | Reconciling the Stability-Activity Dilemma on Perovskite Oxide Electrode Surfaces with Oxygen-Deficient ZrOx Nanocoatings                                                | ACS Energy Letters 11 (2026): 782-789                                 | Q1 | 18.9 | Materials Science and Engineering |
| 308 |           | Tayraukham, P., Somteds, A., Pipattanachaiyanan, P., Suppaso, C., Kao-ian, W., <u>Niipanich, S.</u> , Loiha, S., <u>Wannapaiboon, S.</u> , Suttipong, M., Guo, J., Kheawhom, S. and Unruangsri, J.                                             | In Situ Rapid-Photocured Hydrated Eutectogels for Uniform Zn Plating and Stable Anode in Flexible Zinc-Ion Batteries                                                     | Small 22 (Feb 2026): e08702                                           | Q1 | 12.1 | Polymers                          |
| 309 |           | Wang, X., Zhang, B., Yu, R., Jin, S., Wang, W., Xue, S., Yu, R., Zhang, L., An, Q. and Mai, L.                                                                                                                                                 | Resolving the Kinetics-Stability Trade-Off in Prussian Blue Analogues for Aqueous Ca-Ion Batteries: A High-Entropy Vacancy Caging Strategy                               | Journal of the American Chemical Society                              | Q1 | 15.7 | Materials Science and Engineering |
| 310 | BL7.2: MX | Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., <u>Nawong, S.</u> , Wichitsathian, B. and <u>Jearanaikoon, N.</u>                                                                                                                      | Comparative Synthesis of Zeolite A from Agricultural Residue Ashes: Influence of Silica Source on Water Softening and Fixed-Bed Column Performance                       | Results in Engineering 30 (Jun 2026): 110949                          | Q1 | 7.9  | Environmental Science             |
| 311 |           | Zaimi, N. S. M., Salleh, M. A. A. M., Aziz, M. S. A., Nadzri, N. I. M., Hazizi, M. Z., <u>Kamonsuangkasem, K., Tanthanuch, W., Tancharakorn, S., Mothong, N.</u> and Khor , C. Y.                                                              | The Effects of Indium on the Microstructural Evolution, Lattice Characteristics, Thermal Stability and Mechanical Performance in Sn-3.0Ag-0.5Cu Solder Alloys            | Journal of Materials Science: Materials in Electronics 37 (2026): 218 | Q2 | 2.8  | Materials Science and Engineering |
| 312 |           | Ahmed, A., Khampuanbut, A., <u>Kidkhunthod, P., Limphirat, W.</u> , Uyama, H., Okhawilai, M. and Pattananuwat, P.                                                                                                                              | Tailoring the Mn/Co Ratio in Electrospun Mn-Co Oxide Embedded-Carbon Nanofibers as Cathode for High-Performance \Zinc-Ion Batteries                                      | Materials Science for Energy Technologies 8 (2025): 219-230           | Q1 | 7.22 | Materials Science and Engineering |
| 313 | BL8: XAS  | Angnanon, A., Kothan, S., Damdee, B., Sarumaha, C.S., Intachai, N., Triamnak, N., <u>Pakawanit, P., Phoovasawat, C., Busavaporn, W.</u> , Kim, H. J., Ruangtawee, Y., Nualpralaksana, S. and Kaewkhao, J.                                      | Development of Eco-Friendly and Highly Efficient Red Emitting Gd(1-x)EuxCa4O(BO3)3 Scintillators for High-Resolution X-Ray Imaging Applications                          | Radiation Physics and Chemistry                                       | Q2 | 3.3  | Materials Science and Engineering |
| 314 |           | Boonchu, P., Kaewmuangphet, S., <u>Saivasombat, C.</u> , Nakajima, K. and Tungasmita, D. N.                                                                                                                                                    | Synergistic MoO3 and Sn-Incorporated Faujasite Catalysts for Efficient Ethyl Lactate Production from Biomass                                                             | Energy & Fuels 39, 45 (2025): 21937-21952                             | Q1 | 5.3  | Chemistry                         |
| 315 |           | Cao, J., Rao, X., Zhang, Y., Yang, X., Zhang, D., Lolupiman, K., <u>Limphirat, W.</u> and Qin, J.                                                                                                                                              | Anisotropic Chemical Etching Toward Cavitated and Crystal-Faceted Zinc Anodes with Enhanced Electrochemical Kinetics and Stability                                       | Energy Storage Materials 84 (Jan 2026): 104762                        | Q1 | 20.2 | Materials Science and Engineering |
| 316 | BL8: XAS  | Chen, L., Liu, X., Zhao, F., Liu, Y., Yuan, D., Wang, Y., Zhu, Z., <u>Limphirat, W.</u> , Pei, Y., Tian, F. Zhang, L.                                                                                                                          | Electronic Modulation of Fe-N-C by the Coexisted Cu Single-Atoms and FeCu Atomic Clusters on Lignin-Derived Porous Carbon Boosting Bifunctional ORR/OER Electrocatalysis | Nano Micro Small                                                      | Q1 | 12.1 | Chemistry                         |
| 317 |           | Dai, Z., Zhang, X., Lolupiman, K., Yang, C., Woottapanit, P., <u>Limphirat, W., Wannapaiboon, S.</u> , Zhang, X. and Qin, J.                                                                                                                   | Enhanced Stability of Vanadium-Based Electrode Materials Using Multi-Component Hybrids for High-Performance Zinc-Ion Batteries                                           | ACS Applied Materials & Interfaces 17 (2025): 57059-57069             | Q1 | 8.2  | Materials Science and Engineering |
| 318 |           | Damdee, B., Kaewnuam, E., Angnanon, A., Yamanoi, K., Horprathum, M., Intachai, N., Kothan, S., Kirdsiri, K., Sangwaranatee, N., Kim, H.J. and Kaewkhao, J.                                                                                     | Eu3+ / Cu2+ Co-doped Rice Husk Ash Borate glass: A Sustainable Material with Red Luminescence and NIR Shielding                                                          | Radiation Physics and Chemistry 238 (Jan 2026): 113154                | Q2 | 3.3  | Materials Science and Engineering |
| 319 | BL8: XAS  | Doungdej, K., Numpilai, T., Dolsirittigul, N., Polsomboon, N., <u>Limphirat, W.</u> , Sudsakorn, K., Seubsai, A., Roddech, S., Chareonpanich, M. and Witoon, T.                                                                                | Tuning Cu-Support Interactions via Hydroxyethyl Cellulose-Templated Silica for Enhanced Reverse Water-Gas Shift Catalysis                                                | Journal of Environmental Chemical Engineering 13 (Oct 2025): 118913   | Q1 | 7.2  | Chemistry                         |
| 320 |           | Du, Z., Chotchaipitakul, R., Donphai, W., Sirijaraensre, J., Limphirat, W., Kiatphuengporn, S., Jantaratana, P., Witoon, T., Rupprechter, G. and Chareonpanich, M.                                                                             | Selective Production of BTX Aromatics from LPG using Moderate-Range External Magnetic Field-Assisted Pt-Ga/ZSM-5 Molecular Sieves Catalysts                              | Molecular Catalysis 600 (2026): 116070                                | Q2 | 4.9  | Chemistry                         |
| 321 |           | Go, W., Senthil, R. A., Cherusseri, J., Kumar, A., Moon, C. J. <u>Limphirat, W.</u> , Ubaidullah, M. and Choi, M. Y.                                                                                                                           | Harnessing Surface-Tuned Ag/Cu Interfaces in Ag/Ag2O/CuO for High-Efficiency Ammonia Synthesis and Co-Electricity Generation in Zn-Nitrate Batteries                     | Advanced Functional Materials 35 (Nov 2025): e11876                   | Q1 | 19   | Chemistry                         |
| 322 | BL8: XAS  | Gonzalez-Correa, E., Mazumder, M., Kumar, K., Ghosh, S., Senguttuvan, P. and Clement, R. J.                                                                                                                                                    | High Voltage Irreversibilities in NASICON Na3+yV2-yMgy(PO4)3 Cathodes                                                                                                    | Chemistry of Materials 37 (2025): 6323-6334                           | Q1 | 7    | Materials Science and Engineering |

| No. | Beamline | Author                                                                                                                                                                                                                | Title                                                                                                                                                        | Source                                                             | Q  | IF    | Field                             |
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| 323 | BL8: XAS | Haasler, S., Herzog, S. D., O'Connell, D. W., Wisawapipat, W., Wang, Q., Hupfer, M., Papera, J., Kragh, T., Klamt, A. M. and Reitzel, K.                                                                              | Evaluation of a Modified Sequential P Extraction Protocol: Quantification of Fe(II)-P as a Separate Phase in Seven Different Freshwater Sediments            | Limnol Oceanogr Methods 23 (2025): 765-784                         | Q1 | 0.724 | Environmental Science             |
| 324 | BL8: XAS | Huang, C., Zhang, G., Guo, H., Yang, L., Feng, Y., Man, Q., Zhang, Q., Li, C., Du, P., <u>Limphirat, W.</u> , Mu, Y. and Zeng, L.                                                                                     | Amorphous Aluminum-Based Oxychloride Superionic Conductors via Cation–Oxygen Coupled Modification for Durable High-Rate All-Solid-State Lithium Batteries    | Energy & Environmental Science 19 (2026): 2084-2093                | Q1 | 30.8  | Physics                           |
| 325 | BL8: XAS | Jariyasakoolroj, P., Phongtamrug, S., Pilasen, P., <u>Limphirat, W.</u> and Chirachanchai, S.                                                                                                                         | Integrating Disulfide Linkages and Stretching Processes in Thermoplastic Starch/polylactide Blends: A Model Study on Retarding Retrogradation                | Polymer Degradation and Stability 247 (May 2026): 111962           | Q1 | 7.4   | Polymers                          |
| 326 | BL8: XAS | Jin, Y., Cao, J., Huang, C., An, X., Wang, S. and Yang, X.                                                                                                                                                            | Dual-Site Functional Orchestration Enables Synergistic Anodic Modulation and Cathodic Mooring for Durable Zinc–Iodine Batteries                              | Nano-Micro Letters 18 (2026): 301                                  | Q1 | 36.3  | Materials Science and Engineering |
| 327 | BL8: XAS | Kaewmala, S., Kamma, N., Sujeera, P., Pornjira, P., <u>Limphirat, W.</u> , Prasongthum, N., Nash, J. and Meethong, N.                                                                                                 | Linking Local Atomic Structure and Carbon Network Architecture to Electrochemical Performance and Na+ Diffusivity in Na4VMn(PO4)3/C Cathodes                 | ACS Omega 10 (2025): 49845-49855                                   | Q1 | 4.3   | Materials Science and Engineering |
| 328 | BL8: XAS | Kaewmuangphet, S., Phowang, P., <u>Saivasombat, C.</u> and Tungasmita, D. N.                                                                                                                                          | Copper-Loaded KX Zeolite Catalyst for Efficient β-alkylated Dimer Alcohol Formation via Guerbet Reaction of 1-Decanol                                        | Journal of Industrial and Engineering Chemistry                    | Q1 | 6     | Chemistry                         |
| 329 | BL8: XAS | Kaewnuam, E., Yonphan, S., Borisut, P., Sarumaha, C. S., <u>Busayaporn, W.</u> , Son, Y. J., Kim, S. W., Kim, H. M., Jeong, D. Y., Wantana, N., Minh, P. H., Chaiphaksa, W. and Kaewkhao, J.,                         | Nd3+ Doped Multicomponent Metal (Gd, Y, Al, Ga)-Oxides Borate Glass for Laser and Optical Amplifier Material                                                 | Radiation Physics and Chemistry 238 (Jan 2026): 113206             | Q2 | 3.3   | Materials Science and Engineering |
| 330 | BL8: XAS | Kaewkhao, J., Wongwan, W., Reerong, K., Khondara, S., Boonin, K., Minh, P. H., <u>Busayaporn, W.</u> , Angnanon, A., Intachai, N., Kothan, S., Xayheungsy, S., Mounphoumy, K., Bradley, D. A., Kim, H. J., Yasaka, P. | Effect of Annealing-Induced Local Asymmetry on the Photoluminescence of Eu3+-doped Telluro-silicate Glasses                                                  | Radiation Physics and Chemistry                                    | Q2 | 3.3   | Materials Science and Engineering |
| 331 | BL8: XAS | <u>Klysubun, W., Mahakot, S., Kaewsuwan, D., Bussayaporn, W.</u> and Priezel, J.                                                                                                                                      | Challenges and Approaches for Measuring Dilute Samples in Tender-Energy X-ray Absorption Near-Edge Structure Spectroscopy                                    | Radiation Physics and Chemistry                                    | Q2 | 3.3   | Physics                           |
| 332 | BL8: XAS | Krabao, P., Pleuksachat, S., Kamma, N., Puarsa, S., Kaewmaraya, T., Kaewmala, S., <u>Limphirat, W.</u> and Meethong, N.                                                                                               | Aluminum Doping Enhances Structural Integrity and Electrochemical Performance in NASICON-Type Cathodes for Sodium-Ion Batteries                              | Energy Fuels 40 (Jan 2025): 857-864                                | Q1 | 5.3   | Materials Science and Engineering |
| 333 | BL8: XAS | Kulandaivel, T., Gopalakrishnan, M., <u>Limphirat, W.</u> , Yu, S. H., Lin, J. Y., Kheawhom, S. Dubas, S. T.                                                                                                          | Thermally Engineered Cationic Defects in MOF-Derived Inverse Spinel Al8[Fe16-xMnx]O32 for High-Energy Hybrid Supercapacitors                                 | Journal of Alloys and Compounds 1053 (Feb 2026): 186166            | Q1 | 6.3   | Materials Science and Engineering |
| 334 | BL8: XAS | Kumar, S., Chinnadurai, D., Handoko, A. D., Ng, M. F., Wu, G., Wang, H., Aabdin,Z., Ghosh, T., Xing, Z., Wang, J., <u>Busayaporn, W., Limphirat, W.</u> , Yu, G., She, Z. W.                                          | Aluminum-Magnesium Alloys: A Better Alternative to Using High Purity Al for Reversible Non-Aqueous Aluminum Electrodeposition                                | Energy Storage Materials 88 (May 2026): 105142                     | Q1 | 20.2  | Materials Science and Engineering |
| 335 | BL8: XAS | Lakhani, P., Kliengklaio, K., Pratchayakul, C., Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., <u>Limphirat, W.</u> , Assabumrungrat, S. and Srifa, A.                                          | Unveiling the Role of Ni-Re Catalyst on Diverse Supports for Efficient Hydrogenation of Levulinic Acid to γ-valerolactone under Near Atmospheric H2 Pressure | Biomass and Bioenergy 205 (Feb 2026): 108563                       | Q1 | 5.8   | Chemistry                         |
| 336 | BL8: XAS | Lee, Y., Rajan, A. P. S., Theerthagiri, J., Kumar, A., <u>Limphirat, W.</u> , Min, A. and Choi, M. Y.                                                                                                                 | Asymmetrically Cu–O–Cu Bridged Dual-Atom Sites on Bio-Functionalized Oxides for Molecular Nitrate Upcycling                                                  | Advanced Powder Materials 5 (Oct 2026): 100407                     | Q1 | 4.2   | Chemistry                         |
| 337 | BL8: XAS | Lee, D. H., Theerthagiri, J., Yodsin, N., <u>Limphirat, W.</u> , Jungsuttiwong, S. and Choi, M. Y.                                                                                                                    | Paradigm for Swift Dual Single-Atom Stabilization on MBene using a CO2 Laser in Trifecta Energy with Ammonia Production                                      | Applied Catalysis B: Environment and Energy 385 (May 2026): 126246 | Q1 | 21.1  | Chemistry                         |
| 338 | BL8: XAS | Lee, D. H., Theerthagiri, J., Yodsin, N., Junmon, P., Kumari, M. L. A., Limphirat, W., <u>Song, J. K.</u> and Choi, M. Y.                                                                                             | Boron-Bridged AuPt/MBene Interfaces Enable Selective PET Electroreforming to Formate and Hydrogen                                                            | Chemical Engineering Journal 538 (Jun 2026): 176739                | Q1 | 13.2  | Chemistry                         |
| 339 | BL8: XAS | Li, Z., Qiao, X., Zheng, H., Ma, X., Jiang, Y., Li, H., Qiu, L., Wan, H., Cai, J., <u>Limphirat, W.</u> , Deng, Y. P., Xiao, B. and Wu, Z.                                                                            | One-Step Maturation Pathway of Polyanion-Type Na3V2(PO4)3 Towards Scalable Production and High-Performance Na-Ion Pouch Cells                                | Nano Energy 148 (Feb 2026): 111676                                 | Q1 | 17.1  | Materials Science and Engineering |
| 340 | BL8: XAS | Lin, W., Zhou, K., Yang, C., Huang, H., Lan, J., Peng, H., Zheng, S., Jiao, T., Wang, S., Zheng, J., <u>Limphirat, W.</u> , <u>Huang, L.</u> , Sun, S. G. and Deng, Y. P.                                             | Dynamic Anode/Cathode-Electrolyte Interface Induced through Polymer Evolution for Durable Lithium Metal Batteries                                            | Journal of the American Chemical Society 148 (2026): 7056-7064     | Q1 | 15.7  | Materials Science and Engineering |
| 341 | BL8: XAS | Lolupiman, K., Yang, C., Woottapanit, P., Sukmas, W., <u>Limphirat, W.</u> , Rodthongkum, N., Zhang, X., He, G. and Qin, J.                                                                                           | Sulfur-Doped Vanadium Oxide for High-Performance and Stable Cathode Material of Zinc-Ion Batteries                                                           | Advanced Functional Materials 36 (Mar 2026): e24100                | Q1 | 19    | Materials Science and Engineering |

| No. | Beamline | Author                                                                                                                                                                                                                                                                 | Title                                                                                                                                                                      | Source                                                               | Q  | IF   | Field                             |
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| 342 | BL8: XAS | Maneewong, Y., Lakhani, P., Ratchahat, S., Sakdaronnarong, C., <u>Limphirat, W.</u> , Rungtaweeworanit, B., Assabumrungrat, S., Khosukwiwat, K., Choojun, K., Sooknoi, T., Tomishige, K. and Srifa, A.                                                                 | Design of a Rhenium–Decorated Mesoporous Nickel Phyllosilicate–Derived Ni–Re/MCM-41 Catalyst for Efficient Hydrogenation of Levulinic Acid to $\gamma$ -Valerolactone      | Green Chemistry                                                      | Q1 | 9.2  | Chemistry                         |
| 343 | BL8: XAS | Maneewong, Y., Lakhani, P., Ratchahat, S., Sakdaronnarong, C., Assabumrungrat, S., <u>Limphirat, W.</u> , Choojun, K., Sooknoi, T., Tomishige, K. and Srifa, A.                                                                                                        | Tailoring Re-Loaded Core-Shell Ni Constructions Embedded in Mesoporous Silica for the Selective Transformation of Levulinic Acid into $\gamma$ -Valerolactone              | Journal of Materials Chemistry A 14 (2026): 19432-19453              | Q1 | 9.5  | Chemistry                         |
| 344 | BL8: XAS | Mitcharean, C., Kedsakon, K., <u>Hasdin, O.</u> , <u>Busavaporn, W.</u> , Chunhakowit, P., Songsrirote, K. and Prayongpan, P.                                                                                                                                          | Fluorescent Poly(vinyl alcohol) Composite Films Incorporating Doped Carbon Dots for Heavy Metal Detection in Smart Packaging Applications                                  | ACS Omega                                                            | Q1 | 4.3  | Materials Science and Engineering |
| 345 | BL8: XAS | Munthala, D., Raman, A., Sonklin, T., Buatip, N., <u>Leuasoonoen, P.</u> , <u>Janphuang, P.</u> , <u>Niipanich, S.</u> , <u>Klysubun, W.</u> , <u>Chirawatkul, P.</u> , Gumma, V. L. P., Raju, K. C. J. and Pojprapai, S.                                              | Amorphous to Crystalline Transformation of BCZT Films: a Complex Microstructure Studied by Synchrotron X-rays, Ferro-Electric, and Optical Spectroscopy                    | Journal of Materials Science: Materials in Electronics 37 (2026): 93 | Q2 | 2.8  | Surface, Interface and Thin Films |
| 346 | BL8: XAS | Nilmoung, S., <u>Limphirat, W.</u> , <u>Mahakot, S.</u> and Ausavasukhi, A.                                                                                                                                                                                            | Sugarcane Bagasse-Derived Activated Carbon/LiFePO4 Composite Nanostructures for Lithium-Ion Battery Applications                                                           | Radiation Physics and Chemistry 237 (dec 2025): 113084               | Q2 | 3.3  | Materials Science and Engineering |
| 347 | BL8: XAS | Numpilai, T., Polsomboon, N., Jitapunkul, K., <u>Limphirat, W.</u> , Chareonpanich, M. and Witoon, T.                                                                                                                                                                  | Engineering Cu Dispersion and Metal–Support Interactions via Gelatin-Templated Silica Nanospheres for Efficient Low-Temperature Reverse Water–Gas Shift Catalysis          | Journal of Environmental Chemical Engineering 14 (Jun 2026): 123027  | Q1 | 7.2  | Chemistry                         |
| 348 | BL8: XAS | Numpilai, T., Polsomboon, N., Dolsiririttigul, N., <u>Limphirat, W.</u> , Donphai, W., Seubsai, A., Chareonpanich, M. and Witoon, T.                                                                                                                                   | Unraveling Pore-Dependent Metal–Support Interactions in CuO/SiO2 Catalysts for Low-Temperature Reverse Water–Gas Shift Catalysis                                           | Molecular Catalysis 591 (Feb 2026): 115691                           | Q1 | 4.9  | Chemistry                         |
| 349 | BL8: XAS | Rajan, A. P. S., Theerthagiri, J., Junmon, P., <u>Limphirat, W.</u> , Yodsin, N. and Choi, M. Y.                                                                                                                                                                       | Atomic Precision CoCu Heterodimers with Pseudo-D3h Symmetry Enable Tandem Nitrate Reduction                                                                                | Advanced Science 13 (Feb 2026): e23909                               | Q1 | 14.1 | Chemistry                         |
| 350 | BL8: XAS | Rattanachai, Y., Chavalekvirat, P., Rinramee, K., Pandech, N., Klinkla, R., <u>Padchasri, J.</u> , <u>Sirirot, S.</u> , <u>Supruangnet, R.</u> , <u>Busavaporn, W.</u> , <u>Kidkhunthod, P.</u> , Songsiriritthigul, P., Ceolin, D., Iamprasertkun, P. and Saisopa, T. | A structural Study of MoSe2 Nanoflakes Prepared via Liquid Phase Exfoliation: X ray Absorption and Photoemission Study                                                     | Radiation Physics and Chemistry 237 (Dec 2025): 113083               | Q2 | 3.3  | Materials Science and Engineering |
| 351 | BL8: XAS | Rittidach, T., Kuimalee, S., Bootchanont, A., Porjai,P., Wattanawikkam, C., Noonuruk, R., Ruttakorn, A., Amonpattaratkit, P., Pimsawat, A., Daengsakul, S. and Khamkongkao, A.                                                                                         | Structural and Mechanical Properties of Gypsum-Biphasic Calcium Phosphate Biowaste Composites: Role of Composition Ratio                                                   | Radiation Physics and Chemistry 236 (Nov 2025): 112881               | Q2 | 3.3  | Medical Applications              |
| 352 | BL8: XAS | Saenthao, A., Sricharoenvech, P., Prietzel, J., <u>Klysubun, W.</u> And Wisawapipat, W.                                                                                                                                                                                | Calcium Speciation and Solubility in Tropical Agricultural Soil Clays                                                                                                      | Applied Clay Science 276 (2025): 107912                              | Q1 | 5.8  | Environmental Science             |
| 353 | BL8: XAS | Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., <u>Limphirat, W.</u> , <u>Mahakot, S.</u> , Assabumrungrat, S. and Srifa, A.                                                                                                                      | Systematic Optimization of the Ni-to-Mo Ratio in Bimetallic Ni–Mo2C Catalysts for Efficient Selective Hydrogenation of Levulinic Acid to $\gamma$ -Valerolactone           | Fuel Processing Technology 276 (Oct 2025): 108276                    | Q1 | 7.7  | Chemistry                         |
| 354 | BL8: XAS | Sanni, A., Govindarajan, D., Selvaraj, M., <u>Limphirat, W.</u> , Tipplook, M., Teshima, K., Sangaraju, S. and Kheawhom, S.                                                                                                                                            | Mechanistically Tailored Ag-Fe3O4@Co3O4 Ternary Nanohybrids on Biomass-Derived Carbon for High-Performance Asymmetric Supercapacitors                                      | Materials Research Bulletin 194 (Feb 2026): 113740                   | Q1 | 5.7  | Materials Science and Engineering |
| 355 | BL8: XAS | Sarumaha, C. S., Kaewnuam, E., Chanthima, N., <u>Busavaporn, W.</u> , Minh, P. H., Ruangtawee, Y., Kothan, S., Intachai, N., Kim, H. J. and Kaewkhao, J.                                                                                                               | Effect of Alkali (Na/K) on Erbium-Doped Gadolinium Oxyfluoride Phosphate Glasses for Broadband Optical Amplifiers and Laser Medium Materials                               | Radiation Physics and Chemistry 238 (Jan 2026): 113169               | Q2 | 3.3  | Materials Science and Engineering |
| 356 | BL8: XAS | Sarumaha, C. S., Kaewnuam, E., Kantuptim, P., Nishikawa, A., Kato,T., Yanagida, T., Kothan, S., <u>Busavaporn, W.</u> , <u>Pakawanit, P.</u> , <u>Phoovasawat, C.</u> , Ruangtawee, Y., Sangwanatee, N., Limsuwan, P. and Kaewkhao, J.                                 | Enhanced Luminescence and Scintillation Performance of Ce-Doped Silico- and Germanophosphate Glasses for Ultra-High Resolution Synchrotron X-ray Imaging Applications      | Journal of Alloys and Compounds 1071 (Jun 2026): 188693              | Q1 | 6.3  | Materials Science and Engineering |
| 357 | BL8: XAS | Shaltout, A. A., Ali, S. S., Das, G., Aquilanti, G., Imam, N. G., Almalawi, D. R., <u>Tanthanuch, W.</u> , <u>Tancharakorn, S.</u> and <u>Busavaporn, W.</u>                                                                                                           | Investigation of the Occurrence and Sources of Calcium (Ca) in Urinary Stones using Synchrotron Radiation Based X-ray Fluorescence and X-ray absorption spectroscopy (XAS) | Analytical Methods 17 (2025): 9870                                   | Q2 | 2.6  | Medical Applications              |
| 358 | BL8: XAS | Solehudin, M., Wengwirat, K., Promchana, P., <u>Poo-arporn, Y.</u> , <u>Limphirat, W.</u> , Choojun, K. and Sooknoi, T.                                                                                                                                                | Bifunctional WOx/SiO2 Catalysts for Hydrogen-Free Upgrading of B100 and Bio-Ethylene to SAF and Green Diesel Precursors via Olefin Metathesis and Deoxygenation            | Fuel 420 (Sep 2026): 138769                                          | Q1 | 7.5  | Chemistry                         |
| 359 | BL8: XAS | Sudrajat, H., Kusuma, D. S., Prastika, A., Arrohim, K. K. S. and Giandita, E. N.                                                                                                                                                                                       | Improved Co-Generation of Hydrogen and Benzaldehyde over Calcium-Doped Sodium Tantalate Photocatalysts                                                                     | Journal of The Electrochemical Society 172 (2026): 046505            | Q1 | 3.3  | Chemistry                         |
| 360 | BL8: XAS | Tangcharoen, T.                                                                                                                                                                                                                                                        | Effect of Nickel and Zinc Contents on the Phase Formation, Magnetism, Local Atomic Structure, and Cation Distribution of Fe–Ni–Zn Trimetallic Oxides                       | Physics of Metals and Metallography 126 (2025): 1451-1461            | Q3 | 1    | Materials Science and Engineering |

| No. | Beamline        | Author                                                                                                                                                                                                                                    | Title                                                                                                                                                                                                   | Source                                                                    | Q  | IF   | Field                             |
|-----|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----|------|-----------------------------------|
| 361 | BL8: XAS        | Tangcharoen, T.                                                                                                                                                                                                                           | Role of Ni, Cu, and Zn Contents on Structural, Optical, Magnetic, and Photoluminescence Properties of Al-Fe Intermetallic Powders                                                                       | Physica Scripta 100 (2025): 125937                                        | Q2 | 2.6  | Materials Science and Engineering |
| 362 | BL8: XAS        | Tapanya, M., Kothan, S., Htun, K. T., Wantana, N., Ruangtaweeep, Y., Tariwong, Y., Intachai, N., Tungjai, M., <u>Pakawanit, P.</u> , Phoovasawat, C., <u>Busavaporn, W.</u> , Kim, H. J., Minh, P. H., Sangwaranatee, N. and Kaewkhao, J. | Ce <sup>3+</sup> -Doped NaCaGdP Scintillating Glasses for Ultra High-Resolution X-ray Synchrotron Tomography Application: Energy Transfer, Concentration and Oxidation State Effect                     | Journal of Alloys and Compounds 1064 (Apr 2026): 187787                   | Q1 | 6.3  | Materials Science and Engineering |
| 363 | BL8: XAS        | Thongnoppakhun, N., Amnuaypanich, S., Tharat, B., Suthirakun, S., Kleebmek, T., <u>Busavaporn, W.</u> , Patdhanagul, N. and Amnuaypanich, S.                                                                                              | Single-Site Cr(III) Catalyst on Polyethylenimine-Modified Dendritic Mesoporous Silica particles for Efficient Conversion of Glucose to 5-Hydroxymethylfurfural                                          | Fuel 423 (2026): 139244                                                   | Q1 | 7.5  | Chemistry                         |
| 364 | BL8: XAS        | Tirdtrakool, W., Kreethatorn, H., Sataman, P., <u>Klysubun, W.</u> , Pornsuwan, S., Bunchuay, T. and Tantrungrotechai, J.                                                                                                                 | Fabrication of Cerium-Doped Manganese Oxide Yolk-Shell Microspheres for Selective Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Diformylfuran                                                     | ChemCatChem 18 (Jun 2026): e70867                                         | Q1 | 3.9  | Chemistry                         |
| 365 | BL8: XAS        | Wang, J., Chong, P., <u>Limphirat, W.</u> , Wang, H., <u>Busavaporn, W.</u> , Zhang, L., Seng, D. H. L., Sun, S., Aabdin, Z., Dong, C., Wei, M. and She, Z. W.                                                                            | Hierarchical Vanadium Sulfide Nanosheets with Expanded Interchain Spacing for High-Performance Sodium-Ion Batteries                                                                                     | Journal of Materials Chemistry A 13 (2025): 30158-30166                   | Q1 | 9.5  | Materials Science and Engineering |
| 366 | BL8: XAS        | Wang, J., Tan, X. Y., Ng, M. F., Wu, G.,Yang, G., Ghosh, T., Lim, C. Y. J., <u>Busavaporn, W.</u> , <u>Limphirat, W.</u> , <u>Kaewsuwan, D.</u> , Chinnadurai, D., Xing, Z., Liu, H., Ren, Y., Yan, Q. and She, Z. W.                     | Hybrid Redox Chemistry in Defective Titanium Polyanion Nanobelt Cathodes for Advanced Magnesium–Ion Batteries                                                                                           | Advanced Functional Materials 36 (Jan 2026): e12519                       | Q1 | 19   | Materials Science and Engineering |
| 367 | BL8: XAS        | Wisawapipat, W., Saenthon, A., Boontong, I., Sricharoenvech, P., <u>Mahakot, S. and Klysubun, W.</u>                                                                                                                                      | Dominance of 2:1 Clay Minerals in Soil Potassium Across a Weathering Gradient: Insights from XANES Speciation and Sequential Extraction                                                                 | Soil & Environmental Health 4 (Apr 2026): 100194                          | Q1 | 8.04 | Food and Agricultural Science     |
| 368 | BL8: XAS        | Yan, K., Wu, B., Mu, Y., Luo, J., Tang, Z., Zhang, Q., Jiang, Y., Zhong, X., <u>Limphirat, W.</u> , Yang, Y., Wei, L. and Zeng, L.                                                                                                        | Multiscale Engineering of Ni4Mo/MoO2 Heterointerfaces on N-doped Vertical Graphene for Efficient AEMWE Hydrogen Evolution                                                                               | Applied Catalysis B: Environment and Energy 387 (Jun 2026): 126457        | Q1 | 21.1 | Chemistry                         |
| 369 | BL8: XAS        | Zhang, S., Gao, Z., Zhang, D., Lolupiman, K., <u>Limphirat, W.</u> , Wu, X., Qin, J. and Cao, J.                                                                                                                                          | Hydrogen Bond Network Induced Interfacial Dipoles Enhance Built-in Electric Fields and Ion Transport in Vanadium Oxide Heterostructures                                                                 | Energy Storage Materials 86 (Mar 2026): 104969                            | Q1 | 20.2 | Materials Science and Engineering |
| 370 | BL8: XAS        | Zhang, D.,Yue, Y., Rao, X., Zhang, D., <u>Limphirat, W.</u> , Qin, J., Yang, X. and Cao, J.                                                                                                                                               | Redox-Guided Hydration Engineering of Sodium Vanadate for Ultrastable Aqueous Zinc-Ion Storage                                                                                                          | Nano Energy 145 (Dec 2025): 111450                                        | Q1 | 17.1 | Materials Science and Engineering |
| 371 | Instrumentation | <u>Phimsen, T.</u> , <u>Sumklang, S.</u> , <u>Sonsuphap, N.</u> , <u>Seegauncha, O.</u> , <u>Boonsuva, S.</u> , <u>Chitthaisong, S.</u> , <u>Prawanta, S.</u> , <u>Sunwong, P.</u> , <u>Sudmuang, P.</u> and <u>Klysubun, P.</u>          | Vacuum System Design and Simulation for Siam Photon Source II: Towards Thailand's Fourth-Generation Synchrotron Light Source                                                                            | Vacuum 240 (Oct 2025): 114569                                             | Q1 | 3.9  | Physics                           |
| 372 | Laboratory      | Ali, Q., Boonsod, T., Boonkerd, K., Pornprasertsuk, R., <u>Limphirat, W.</u> and Taweepreda, W.                                                                                                                                           | A Study of Developing the Structural, Thermal, and Electrochemical Properties of Plasticized Chitosan/ZnO-Based Nanocomposite Polymer Electrolyte Membranes                                             | Next Materials 11 (Apr 2026): 101637                                      | Q1 | n/a  | Polymers                          |
| 373 | Laboratory      | Ali, Q., Boonsod, T., Pornprasertsuk, R., <u>Limphirat, W.</u> , Taweepreda, W. and Boonkerd, K.                                                                                                                                          | Role of Hygroscopic Nanofillers and Plasticizer in Enhancing Ionic Transport and Structural Stability of Plasticized Chitosan-Based Nanocomposite Polymer Electrolyte Membranes for Fuel Cells          | Materials Chemistry and Physics 354 (Apr 2026): 132212                    | Q1 | 4.7  | Polymers                          |
| 374 | Laboratory      | Boonkong, S., Laosam, P., Luasiri, P., Senanok, P., <u>Tastub, S.</u> , Suwanangul, S., Molee, W., Nakharuthai, C., Pinyo, J., Purba, R. A. P. and Sangsawad, P.                                                                          | From Slaughterhouse Waste to Functional Feed: Pilot-Scale Bovine Blood Hydrolysate Improves Antioxidant Activities and Meat Quality in Slow-Growing Chickens                                            | Food Science of Animal Resources 46 (2026): 39                            | Q1 | 3.7  | Food and Agricultural Science     |
| 375 | Laboratory      | Choknud, S., Arthanareeswaran, K., Rungsarityotin, W., Beagbandee, C., Sanram, S., <u>Kamonsutthipaijit, N.</u> , Mo-mai, P., Lai, R. Y., Suginta, W., Wangkanont, K., Ounjai, P. and Cairns, J. R. K.                                    | Structural Analysis of the Plant Glycoside Hydrolase Family 116 Glucosylceramidase AtGCD3 by Cryogenic Electron Microscopy                                                                              | International Journal of Biological Macromolecules 350 (Mar 2026): 150988 | Q1 | 8.5  | Biological and Life Science       |
| 376 | Laboratory      | Hamzeh, A., Saelee, L., <u>Thumanu, K.</u> , Park, J. W. and Yongsawatdigul, J.                                                                                                                                                           | Impact of Ultrasound-Assisted Single Washing Process on Tilapia Mince: Biochemical Changes, Structural Modifications, and Gel formation                                                                 | Ultrasonics Sonochemistry 124 (Jan 2026): 107707                          | Q1 | 9.7  | Food and Agricultural Science     |
| 377 | Laboratory      | Kachenpukdee, N., Sinprachim, T., Lohalaksanadech, S., Toommuangpak, W., Rabpairee, K., Vasupen, E., <u>Nawong, S.</u> and Thaiwong, N.                                                                                                   | Sequential Extraction of Caulerpa Lentillifera and C. Racemosa var. Corynephora: FTIR-Based Phytochemical Characterization, Antioxidant Properties, and Bioaccessibility                                | Applied Food Research 6 (Jun 2026): 102026                                | Q1 | 6.2  | Food and Agricultural Science     |
| 378 | Laboratory      | Kanchanapiboon, J., Tuntoaw, S., Poonsatha, S., Maiuthed, A., Rukthong, P., <u>Thumanu, K.</u> , Siriwong, S., Thunyaharn, S., Wachisuthon, D., Sakpetch, A. and Chuennangchee, V.                                                        | Boesenbergia Rotunda Extract Decreases Biofilm Formation and Host-Pathogen Interaction of Bloodstream-Isolated Candida Albicans by Interfering with Biomolecule Composition and Metabolomics Adaptation | Microbial Pathogenesis 214 (May 2026): 108417                             | Q1 | 3.5  | Medical Applications              |
| 379 | Laboratory      | Kraithong, S., Shi, X., Rungraeng, N., Bunyameen, N., Jaisan, C., Suwanangul, S., <u>Tastub, S.</u> , Sorndech, W., Laosam, P.. and Sangsawad, P.                                                                                         | Modulation of Cassava Starch Digestibility and Functional Properties by Alginate and Fucoidan: Digestive Enzyme Polysaccharide Docking, Antioxidant Activity, and Gel–Structural Characteristics        | Food Bioscience 79 (May 2026): 108645                                     | Q1 | 5.9  | Food and Agricultural Science     |

| No. | Beamline   | Author                                                                                                                                                                                                                                                    | Title                                                                                                                                                                               | Source                                                                                                                | Q  | IF    | Field                             |
|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----|-------|-----------------------------------|
| 380 | Laboratory | Keeratiburana, T., <u>Tastub, S.</u> , Blennow, A. and Tongta, S.                                                                                                                                                                                         | Synergistic Effects of Ethanol Pretreatment and Sequential Enzymatic Treatments on Structure and Functionality of Porous Cassava Starch                                             | International Journal of Biological Macromolecules 366 (2026) 152418                                                  | Q1 | 8.5   | Food and Agricultural Science     |
| 381 | Laboratory | Palee, I., Kurisu, F. and Phungsai, P.                                                                                                                                                                                                                    | Characterizing Disinfection Byproduct Precursors Through Organic Matter Fractionation and Correlation Analysis Using Nontargeted Screening Analysis with Orbitrap Mass Spectrometry | Water Research 288 (Jan 2026): 124566                                                                                 | Q1 | 12.4  | Environmental Science             |
| 382 | Laboratory | Phosri, S., Tastub, S., Kheawfu, K., Intharuksa, A., Daduang, S., Maddocks, S. E. and and Theansungnoen, T.                                                                                                                                               | Preparation and Characterization of Niosomes Containing Cationic Antimicrobial Peptides WSKK11 and WSRR11                                                                           | ACS Omega 11 (2026): 8446-8456                                                                                        | Q1 | 4.3   | Medical Applications              |
| 383 | Laboratory | Phosri, S., <u>Tastub, S.</u> , Intharuksa, A., Techarang, T., Srisucharitpanit, K., Hooper, S. E. and Theansungnoen, T.                                                                                                                                  | Therapeutic Potential, Antimicrobial Activity Against Acne-Causing Bacteria, and Modes of Action of WKK10 and WRR10, Novel Cationic Antimicrobial Peptides                          | Bioorganic Chemistry 165 (Oct 2025): 108965                                                                           | Q1 | 4.7   | Medical Applications              |
| 384 | Laboratory | Pocasap, P., Kaimuangpak, K., Phukmee, K., Prawan, A., Kongpetch, S. and Senggunprai, L.                                                                                                                                                                  | Unveiling the Anticancer Potential and Molecular Mechanisms of Fangchinoline Against Cholangiocarcinoma Using FTIR Microspectroscopy, In Vitro and In Silico Approaches             | Integrative Cancer Therapies                                                                                          | Q1 | 2.8   | Biological and Life Science       |
| 385 | Laboratory | Sinsuwan, S., Rodtong, S., Tanasupawat, S., Kanklang, E., <u>Nawong, S.</u> and Yongsawatdigul, J.                                                                                                                                                        | Degradation of Biogenic Amines and Histamine Reduction in Salted Anchovy Fermentation by Halalkalibacterium Halodurans SK35-1                                                       | Food Control 181 (Mar 2026): 111713                                                                                   | Q1 | 6.3   | Food and Agricultural Science     |
| 386 | Laboratory | Sintupattanapun, P., Namvichaisirikul, N., Tongdee, P., Suwannobol, N., Thueng-in, K., Chueadet, A. and <u>Tastub, S.</u>                                                                                                                                 | Efficacy and Safety of the Plook-Fire-Thatu Recipe on Breast Milk Volume and Breast Milk Macronutrient Composition in Postpartum Women: A Randomised Controlled Trial               | Complementary Therapies in Medicine 94 (2025): 103255                                                                 | Q1 | 3.5   | Medical Applications              |
| 387 | Laboratory | Sornsan, S., <u>Thumanu, K.</u> , Siripattaraprat, K., Noisa, P., Pain, B. and Molee, A.                                                                                                                                                                  | Biochemical Components of Chicken Primordial Germ Cells are Modified by Cryopreservation: Original Analysis by Fourier Transform Infrared (FTIR) Microspectroscopy                  | Poultry Science 105 (Jun 2026): 106709                                                                                | Q1 | 4.2   | Biological and Life Science       |
| 388 | Laboratory | Tepnarong, P., <u>Chio-Srichan, S.</u> , Phakdimek, S. and Chitnarin, A.                                                                                                                                                                                  | Rock control on evolution of Khorat Cuesta, Khorat UNESCO Geopark, Northeastern Thailand                                                                                            | Open Geosciences 17 (2025): <a href="https://doi.org/10.1515/geo-2025-0896">https://doi.org/10.1515/geo-2025-0896</a> | Q2 | 1.3   | Earth Science and Archeology      |
| 389 | Laboratory | Trasaktaweesakul, T., Asavaritikrai, P., Talabnin, K., Kongnawakul, D., <u>Tastub, S.</u> , Jaturutthaweechot, P., Naewwan, N. and Talabnin, C.                                                                                                           | In Vitro Properties of Four Benign Meningioma Cells Derived from WHO Grade 1 Meningiomas                                                                                            | Human Cell                                                                                                            | Q2 | 3.1   | Medical Applications              |
| 390 | Laboratory | <u>Thumanu, K.</u> , <u>Khamgasem, T.</u> , Sukpong, S., <u>Phatthanakun, R.</u> , Puangplruk, R., <u>Tanthanuch, W.</u> , <u>Kuaprasert, B.</u> , <u>Tastub, S.</u> , <u>Rujanakraikarn, R.</u> , Tun, S., Saovana, T., Munkongdee, T. and Wongthong, S. | A New Method for Screening Thalassemia Patients Using Mid-Infrared Spectroscopy                                                                                                     | Diagnostics 16 (2026): 67                                                                                             | Q1 | 3.3   | Medical Applications              |
| 391 | Laboratory | <u>Thumanu, K.</u> , Wattanananitchakorn, S., Wansuksri, R., Cael, S., <u>Nawong, S.</u> , <u>Pakawanit, P.</u> and Suwannaporn, P.                                                                                                                       | Infrared Imaging and Multivariate Analysis of Structure, Bioactive Compounds, and Starch Digestibility of Dough and Mature Stages Rice                                              | Journal of Cereal Science 128 (Mar 2026): 104396                                                                      | Q1 | 3.7   | Food and Agricultural Science     |
| 392 | Laboratory | Vasupen, E., Toommuangpak, W., <u>Nawong, S.</u> , Khotsakde, J., Yuthachit, P., Kachenpukdee, N. and Thaiwong, N.                                                                                                                                        | Extraction Solvent Effects on Banana Blossom Bioactive Compounds: Enhanced Bioaccessibility via Gastrointestinal Digestion                                                          | Trends in Sciences 23 (2026): 12055                                                                                   | Q2 | 0.231 | Food and Agricultural Science     |
| 393 | Laboratory | Vasupen, E., Rabpairee, K., Toommuangpak, W., Sompeerapun, O., Chaiwong, U., Yuthachit, P., Kachenpukdee, N., <u>Nawong, S.</u> and Thaiwong, N.                                                                                                          | Fig Leaf Bioactivity and Safety: Temperature Optimization and FTIR Authentication                                                                                                   | Food Science & Nutrition 14 (Feb 2026): e71508                                                                        | Q1 | 3.8   | Food and Agricultural Science     |
| 394 | MES        | Chaiyachad, S., Jindata, W., Kaeowkhamchan, Y., Mooltang, A., Chuewangkam, N., Pinitsoontorn, S., <u>Janphuang, P.</u> and Meevasana, J.                                                                                                                  | Enhanced and Tunable Ferromagnetism in Periodic-Arrays of CVD-Synthesized Carbon Films                                                                                              | Carbon Trends 23 (Jun 2026): 100622                                                                                   | Q2 | 3.9   | Micro Nanotechnology              |
| 395 | MES        | Klinsuk, J., Sunongbua, P., <u>Srisom, K.</u> , <u>Janphuang, P.</u> and Lertsiriyothin, W.                                                                                                                                                               | Microscale Resonator Antenna Array Design on a Silica-Aerogel Substrate for Surface-Enhanced Raman Scattering in the Detection of Diluted Furfural                                  | ACS Omega 11 (Jan 2026): 797-809                                                                                      | Q1 | 4.3   | Micro Nanotechnology              |
| 396 | MES        | Sinchangreed, A., Watcharamaisakul, S. and <u>Janphuang, P.</u>                                                                                                                                                                                           | Preparation and Characterization of Zeolite A Synthesized from Narathiwat White Clay                                                                                                | Bulletin of Chemical Reaction Engineering & Catalysis 20 (Oct 2025): 553-559                                          | Q3 | 1.3   | Materials Science and Engineering |
| 397 | CSEc       | Chotsawat, M., <u>Saivasombat, C.</u> , <u>Busavaporn, W.</u> , Sikam, P., Thirayatorn, R., Nachaithong, T., Chankhunthod, N., Thongbai, P. and Moontragoon, P.                                                                                           | Effect of Nature and Formation of Defects to Optical, Magnetic and Dielectric Properties in Co-doped SrTiO3: DFT and Experiments Approaches                                         | Ceramics International 52 (May 2026): 16652-16662                                                                     | Q1 | 5.6   | Materials Science and Engineering |
| 398 | CSEc       | Kotutha, I., Boonkaung, A., <u>Busavaporn, W.</u> , Klinkla, R., Nachaithong, T., Waritkraikul, P. and Sailuam, W.                                                                                                                                        | First-Principles Insights Into the Structural, Electronic, and Optical Properties of Ag, Zn, and Ag/Zn Co-Doped Anatase TiO2 for Enhanced Photocatalysis                            | Micro and Nanostructures 212 (Apr 2026): 208574                                                                       | Q2 | 3     | Materials Science and Engineering |

| No. | Beamline | Author                                                                                                                                                                                       | Title                                                                                                                                                                        | Source                                                 | Q  | IF  | Field                |
|-----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----|-----|----------------------|
| 399 | CSEc     | Rattanachai, Y., Klinkla, R., <u>Busavaporn, W.</u> , Kotutha, I., Waritkraikul, P. and Sailuam, W.                                                                                          | Electronic Structure and Optical properties of RE-doped GdBO <sub>3</sub> (RE = Tb <sup>3+</sup> , Ce <sup>3+</sup> , Eu <sup>3+</sup> ) for X-Ray Scintillator Applications | Computational Materials Science 269 (May 2026): 114679 | Q1 | 3.3 | Micro Nanotechnology |
| 400 | CSEc     | Waritkraikul, P., Ektarawong, A., <u>Busavaporn, W.</u> , Wongjom, P. and Pijitrojana, W.                                                                                                    | First-Principles Investigation of Spin-Dependent Thermoelectric Transport and Spin Seebeck in Fe(110)/Co(11 $\bar{2}$ 0) Heterostructures                                    | Scientific Reports                                     | Q1 | 3.9 | Physics              |
| 401 | AI       | Lwin, E. H., Mongmonsin, U., Panyakaew, T., Khammanthool, S., Tonkanya, K., Kraiklang, R., Rachawangmuang, P., Chatchawal, P., Wongwattanakul, M., <u>Phatthanakun, R.</u> and Tipayawat, P. | Detection of Narcotic Drugs in Urine Samples Using Attenuated Total Reflectance–Fourier Transform Infrared Spectroscopy and Machine Learning Algorithms                      | ACS Omega 11 (2026): 5122-5130                         | Q1 | 4.3 | Medical Applications |
| 402 | AI       | Phiphattanaphiphop , C., Leksakul , K., <u>Phattanakun , R.</u> , Charoenchait , N. and Khamlor, T.                                                                                          | Automatic On-Farm Detection of Mastitis in Raw Cow Milk Using Optical Spectroscopy and Edge Artificial Intelligence                                                          | Smart Agricultural Technology 14 (Aug 2026): 102001    | Q1 | 5.7 | Micro Nanotechnology |

## Fiscal Year 2026: International Proceedings

| no | Author                                                                                                                                     | Title                                                                                                                                                               | Source                                                                                                                                                                    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Jummunt, S., Yan, T., Boonpornprasert, P., Chunjarean, S., Sunwong, P., Sudmuang, P. and Klysubun, P.                                      | Beam Dynamics Studies for the SPS-II3 GeV Booster Synchrotron with 270 MeV Linac Injection                                                                          | The 17th International Particle Accelerator Conference (IPAC2026). 17-22 May, 2026, Deauville/ Normandy, France                                                           |
| 2  | Hariyanto, B., Kaimuddin, S. A., Wahyuni, A. E. and Saiyasombat, C.                                                                        | Structural–Microstructural Characteristics and Oxygen Vacancy Formation in CaO-doped Tetragonal ZrO2 Derived from Natural Minerals: Synchrotron XRD and TEM Studies | The 4th International Symposium on Physics and Applications 2025 (ISPA 2025). 5 Dec, 2025, Surabaya, Indonesia/ Journal of Physics: Conference Series 3238 (2026): 012020 |
| 3  | Klinkhieo, S., Chunjarean, S., Suradet, N., Pulampong, T. and Chanwattana, T.                                                              | A Sliding Mode Control Approach for Photon Beam Stability at the Siam Photon Source                                                                                 | The 17th International Particle Accelerator Conference (IPAC2026). 17-22 May, 2026, Deauville/ Normandy, France                                                           |
| 4  | Leetha, T., Numanoy, P., Phimsen, T., Prawanta, S. and Sunwong, P.                                                                         | Validation of an Improved Quadrupole Design for the 3 GeV SPS-II Storage Ring                                                                                       | The 17th International Particle Accelerator Conference (IPAC2026). 17-22 May, 2026, Deauville/ Normandy, France                                                           |
| 5  | Phochanasombut, K., Chaijaroenmaitree, N., Morakul, S., Leetha, T., Phimsen, T., Sunwong, P. and Yan, T.                                   | Mechanical Design and Structural Analysis of Septum Magnet for Thailand New Synchrotron Light Source (SPS-II)                                                       | The 17th International Particle Accelerator Conference (IPAC2026). 17-22 May, 2026, Deauville/ Normandy, France                                                           |
| 6  | Sunwong, P., Chaithaweep, P., Kwankasem, A., Leetha, T., Numanoy, P., Prawanta S., Pruekthaisong, P., Sroison, M., Thiabsi, N. and Yan, T. | Measurements of magnet prototypes for storage ring of Siam Photon Source II                                                                                         | The 17th International Particle Accelerator Conference (IPAC2026). 17-22 May, 2026, Deauville/ Normandy, France                                                           |
| 7  | Yachum, N., Kokkrathoke, S., Phacheerak, W., Nadeedanklang, J. and Khampiranon, D.                                                         | Peltier-Based Fuzzy Logic Temperature Control in Magnet Power Supply                                                                                                | The 11th International Conference on Engineering and Emerging Technologies (ICEET 2025), 22-23 October 2025, Kuala Lumpur, Malaysia                                       |