Fiscal Year 2026: International Journals

No.	Beamline	Author	Title	Source	Q	IF	Field
1	BL1.1W: MXT	Aupama,V., Yoopensuk, W., Wannapaiboon, S., Pakawanit, P., 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 18 (2026): 33290-33302	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. Wannapaiboon, S., Kamonsuangkasem, K., Tancharakorn, S., Tanthanuch, W. and Mothong, N.	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	Chairat, P., Namuangruk, S., Luangchaiyaporn, J., Mano, P., Jitrada, J., Parvilairut, N., Kheawhom, S., Wannapaiboon, S. and Thamyongkit, P.	Enhancing Electrochemical CO2 Reduction Performance of CoII-phthalocyanine Polymer through Axial Ligand Coordination	ACS Applied Energy Materials	Q1	5.5	Chemistry
4	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
5	BL1.1W: MXT	Chotsawat, M., Saiyasombat, C., Busayaporn, W., 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
6	BL1.1W: MXT	Dai, Z., Zhang, X., Lolupiman, K., Yang, C., Woottapanit, P., Limphirat, W., Wannapaiboon, S., 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
7	BL1.1W: MXT	Deekamwong, K., Pornnongsan, N., Tawachkultanadilok, P., Poo-Arporn, Y., Limphirat, W., Loiha, S., Promchan, P., Wittayakun, J. and Prayoonpokarach, S.	Core–Shell Zn–Co Zeolitic Imidazolate Framework-Derived Catalysts for the Reverse Water–Gas Shift Reaction	Catalysts 16 (2026): 737	Q2	4	Chemistry
8	BL1.1W: MXT	Deng, C., Xu, H., Zhou, Y., Ayyub, A., Wan, Z., Yuan, W., Yao, Y., Kamonsuangkasem, K., 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
9	BL1.1W: MXT	Englong, A., Punwong, P., Marchant, R., Jirapinyakul, A., Swangpol, S. C., Chotikarn, P., Pumijumnong, N., Chirawatkul, P., 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
10	BL1.1W: MXT	Hazizi, M. H. Z., Salleh, M. A. A .M., Somidin, F., Zaimi, N. S. M., Nadzri, N. I. M., Kamonsuangkasem, K., Tanthanuch, W., Tancharakorn, S., Mothong, N. and Wannapaiboon, S.	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
11	BL1.1W: MXT	Hu, Q., Li, L., Chen, X., Li, C., Kamonsuangkasem, K., Ye, R., Gong, L., Feng, G., Hu, F. and Zhang, R.	Competitive Adsorption Mechanisms in CO and Preferential Oxidation in Rich Hydrogen over MnCoOx Catalyst	International Journal of Hydrogen Energy 218 (2026): 153986	Q1	8.3	Chemistry
12	BL1.1W: MXT	Kao-ian, W., Tangthuam, P., Gopalakrishnan, M., Kidkhunthod, P., Wannapaiboon, S., Limphirat, W., Padchasri, J., 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
13	BL1.1W: MXT	Klomranok, C., Sakkaravej, S., Wongkokua, W., Saiyasombat, C. and Monarumit, N.	The Blue Coloration of Natural Sapphires After Heating in Oxidizing and Reducing Environments	Crystal 16 (2026): 475	Q2	2.4	Earth Science and Archeology
14	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
15	BL1.1W: MXT	Munthala, D., Raman, A., Sonklin, T., Buatip, N., Leuasoongnoen, P., Janphuang, P., Nijpanich, S., Klysubun, W., Chirawatkul, P., 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
16	BL1.1W: MXT	Nanmong, T., Obrom, W., Yingyuen, W., Jaroenchur, T., Thamthong, P., Wittayakun, J., Prayoonpokarach, S., Tawachkultanadilok, P., Poo-arporn, Y., Wannapaiboon, S., Chanlek, N., Rungtaweevoranit, B., Kosawatthanakun, S., Khemthong, P., Desaulniers, J. P. and Loiha, S.	Synergistic Effects of Fe Species Distribution and Acid Site Balance in Fe/Zeolite Catalysts for 5-HMF Production from Glucose	RSC Advances 16 (Apr 2026): 18591-18611	Q1	4.6	Chemistry
17	BL1.1W: MXT	Nuyang, P., Phung-on, I., Peansukmanee, S., Choungthong, P. and Saiyasombat, C.	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
18	BL1.1W: MXT	Nuyang, P., Phung-on, I., Peansukmanee, S., Saiyasombat, C., Photongkam, P., Wongpinij, T.	High-Temperature Stability of h-BN Thin Films on AISI 304 Stainless Steel from Atmospheric Glazing Process	Materials Research Express	Q2	2.2	Surface, Interface and Thin Films
19	BL1.1W: MXT	Peng, L., Ma, H., Tang, S., Wei, J., Chen, X., Kamonsuangkasem, K., Zhang, R. and Wang, X.	Resolving the Diffusion–Reaction Trade-off in SrTiO3 Model Photocatalysts via Periodic Multi-Scale Macroporous Architecture and La-Induced Defect Modulation	Chemical Engineering Journal 545 (2026): 179371	Q1	13.2	Chemistry
20	BL1.1W: MXT	Petcharat, N., Kaewmuntree, N., Krobkrong, N., Hirunpinyopas, W., Chavalekvirat, P., Iamprasertkun, P., Thanasarnsurapong, T., Boonchun, A., Kamonsuangkasem, K. 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
21	BL1.1W: MXT	Phongsanam, N., Phetduang, S., Nijpanich, S., Tasarin, S., 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
22	BL1.1W: MXT	Piyakulworawat, C., Morita, K., Fukumoto, Y., Hsieh, W. Y., Chen, W. T., Nakajima, K., Ohira-Kawamura, S., Zhao, Y., Wannapaiboon, S., 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
23	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
24	BL1.1W: MXT	Phattrapornpisit, P., Piyanuch, P., Amornkittithaworn, P., Santatiwongchai, J., Impeng, S., Wannapaiboon, S., 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
25	BL1.1W: MXT	Ponchai, P., Adpakpang, K., Inchongkol, Y., Wannapaiboon, S. 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
26	BL1.1W: MXT	Pongpitakdamrong, A., Uengarporn, N., Chirawatkul, P. 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
27	BL1.1W: MXT	Prasertpalichat, S., Batra, K., Premwichit, P., Siritanon, T., Wannapaiboon, S., McQuade, R. R., Cann, D. P. and Koruza, J.	Hardening Effects and High-Power Electromechanical Properties in Ag-doped 0.93(Bi0.5Na0.5)TiO3-0.07BaTiO3 Lead-Free Piezoceramics	Journal of the European Ceramic Society 46 (2026): 118642	Q1	6.2	Materials Science and Engineering
28	BL1.1W: MXT	Ruttakorn, A., Tocho, S., Yimnirun, R., Saisopa, T., Eknapakul, T., Chirawatkul, P., 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
29	BL1.1W: MXT	Saengsrichan, A., Khemthong, P., Phanthasri, J., Namuangruk, S., Youngjan, S., Phawa, C., Wannapaiboon, S., Pakawanit, P., 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
30	BL1.1W: MXT	Sangar, A. S., Putthisigamany, Y., Nazeri, M. F. M., Chelvanathan, P., Jun, T. S., Bednarek, A., Wannapaiboon, S. 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
31	BL1.1W: MXT	Sangar, A. S., Putthisigamany, Y., Nazeri, M. F. M., Chelvanathan, P., Wannapaiboon, S., 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
32	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 $Bi_4O_4SeCl_2$	Journal of Alloys and Compounds 1064 (Apr 2026): 187840	Q1	6.3	Materials Science and Engineering
33	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
34	BL1.1W: MXT	Tangthuam, P., Pipattanachaiyanan, P., Kao-ian, W., Wannapaiboon, S., Pakawanit, P., 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
35	BL1.1W: MXT	Tulanon, T., Wannapaiboon, S. 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
36	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
37	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
38	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
39	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 148 (2026): 21858-21870	Q1	15.7	Materials Science and Engineering
40	BL1.1W: MXT	Wechprasit, T., Bootchanont, A., Infahsaeng, Y., Wongjom, P., Wannapaiboon, S., 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
41	BL1.1W: MXT	Wen, T., Chen, X., Hu, H., Yan, X., Kamonsuangkasem, K., 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
42	BL1.1W: MXT	Wijitsak, J., Boonprab, J., Harding, P., Harding, D. J., Clegg, J. K., Kaewket, K., Jakkrawhad, C., Nijpanich, S., Wannapaiboon, S. 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
43	BL1.1W: MXT	Xu, H., Liu, K., Deng, C., Ayyub, A., Zhou, Y., Wan, Z., Yuan, W., Yao, Y., Kamonsuangkasem, K., 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
44	BL1.1W: MXT	Xue, Q., Qian, S., Lim, K. H., Wee, M. X. J., Nie, K., Cheng, S., Chen, X., Chirawatkul, P., 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
45	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
46	BL1.1W: MXT	Yao, R., Zhang, H. H., Lim, K. H., Li, C., Tang, H., Kamonsuangkasem, K., 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
47	BL1.1W: MXT	Yu, Y., Zhou, X., Yan, L., Yang, L., Hong, J., Kamonsuangkasem, K., 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
48	BL1.1W: MXT	Zaimi, N. S. M., Salleh, M. A. A. M., Aziz, M. S. A., Nadzri,N. I. M., Hazizi, M. Z., Kamonsuangkasem, K., Tanthanuch, W., Tancharakorn, S., Mothong, N. 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
49	BL1.1W: MXT	Zhang, X., Chen, X., Qu, B., Niu, J., Ma, C., Hu,Z., Xiong, Y., Saiyasombat, C., Kamonsuangkasem, K., 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

No.	Beamline	Author	Title	Source	Q	IF	Field
50	BL1.2: XTM	Angnanon, A., Kothan, S., Damdee, B., Sarumaha, C.S., Intachai, N., Triamnak, N., Pakawanit, P., Phoovasawat, C., Busayaporn, W., Kim, H. J., Ruangtaweep, 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 249 (2026): 114117	Q2	3.3	Materials Science and Engineering
51	BL1.2: XTM	Aupama,V., Yoopensuk, W., Wannapaiboon, S., Pakawanit, P., 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 18 (2026): 33290-33302	Q1	8.2	Materials Science and Engineering
52	BL1.2: XTM	Bongkarn, T., Panpho, P., Charoonsuk, T., Vittayakorn, N., Pakawanit, P. and Sumang, R.	Integration of CCTAO/PDMS Composite Films into Proximity Capacitive Sensor Devices	Radiation Physics and Chemistry 249 (2026): 114229	Q2	3.3	Materials Science and Engineering
53	BL1.2: XTM	Chauntrakul, K., Photichark, P., Somnuake, P., Teeka, W., Pakawanit, P., Praserthdam, 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
54	BL1.2: XTM	Hajra, S., Kaja, K. R., Jena, S. S., Hong, S., Panigrahi, B. K., Panda, S., Pakawanit, P., Vittayakorn, N. and Kim, H. J.	Upcycling Disposable Food Plates Based Triboelectric Nanogenerator for Body Motion Sensing and Enhancing Cell Migration	Energy Technology 14 (2026): e70591	Q2	3.6	Medical Applications
55	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
56	BL1.2: XTM	Hanpramukkun, N., Teruya, T., Charoenwattanasatien, R., Pakawanit, P., 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
57	BL1.2: XTM	Hoe-Woon, T., Cheng-Yong, H., Yun-Ming, L., Qi-Hwa, N., Wei-Hao, L., Kai Loong, F., Pakawanit, P., 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
58	BL1.2: XTM	Htun, K. T., Kothan, S., Wantana, N., Kaewnuam, E., Tapanya, M., Ruangtaweep, Y., Tariwong, Y., Intachai, N., Tungjai, M., Pakawanit, P., Phoovasawat, C., Punyodom, W., Kim, H. J. and Kaewkhao, J.	Borophosphate Glass Scintillators Co-Doped with Gd3+ and Eu3+: Energy Transfer Dynamics and X-ray Imaging Performance	Radiation Physics and Chemistry 249 (2026): 114237	Q2	3.3	Materials Science and Engineering
59	BL1.2: XTM	Intachai, N., Rachniyom, W., Wantana, N., Tariwong, Y., Khrongchaiyaphum, F., Sarumaha, C. S., Pakawanit, P., Phoovasawat, C., Kanjanaboos, P., Rueangsawang, 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
60	BL1.2: XTM	Intachai, N., Rachniyom, W., Wantana, N., Thanyaphirak, W., Khrongchaiyaphum, F., Sarumaha, C. S., Pakawanit, P., 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
61	BL1.2: XTM	Jarucha, N., Ruangtaweep, Y., Meejitpaisan, P., Kim, H. J., Boontueng, P., Kobdaj, C., Ritjoho, N., Sanghangthum, T., Valiev, D., Stepanov, S., Pakawanit, P., 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
62	BL1.2: XTM	Jindaina, S., Supansomboon, S., Wanakamol, P., Pakawanit, P., 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
63	BL1.2: XTM	Kaewbangkerd, K., Kanklang, E., Ngernsoungnern, A., Rojviriya, C., Tastub, S., Sinthusamran, S. and Yongsawatdigul, J.	High-Intensity Ultrasound-Assisted Recovery of Type II Collagen from Porcine Trachea: Enhanced Recovery and Multiscale Structural Organization	Ultrasonics Sonochemistry 132 (2026): 107973	Q1	4.1	Materials Science and Engineering
64	BL1.2: XTM	Kaewsawad, C., Klabsook, R., Sae-Tang, C., Pakawanit, P., Hajra, S., Kim, H. J., Vittayakorn, W., Maluangnont, T., Sriphan, S., Charoonsuk, T. and Vittayakorn, N.	Tribo-Thermoelectric Energy Harvesting in Ag2Se-Modified Rayon Fabric Triboelectric Nanogenerators	The Chemical Engineering Journal	Q1	13.2	Materials Science and Engineering
65	BL1.2: XTM	Kaja, K. R., Hajra, S., Panda, S., Belal, M., Nam, S., Pakawanit, P., 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
66	BL1.2: XTM	Kantrong, H., Prasert, W., Pantoa, T., Apisittiwong, T., Rojviriya, C., Phoovasawat, C. 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
67	BL1.2: XTM	Kaewnuam, E., Wantana, N., Ondee, W., Kedkaew, C., Khrongchaiyaphum, F., Chanthima, N., Pakawanit, P., Phoovasawat, C., Sangwaranatee, 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
68	BL1.2: XTM	Kaewsatuan, P., Khosinklang, W., Khotsalee, S., Rojviriya, C., 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
69	BL1.2: XTM	Kerdmanee, K., Hanpramukkun, N., Charoenwattanasatien, R., Pakawanit , P. 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
70	BL1.2: XTM	Khan, M. J., Rashid, R., Karim, Z., Pongchaikul, P., Sawatdee, S., Deeleepojananan, C., Botalo, A., Posoknistakul, P., Srifa, A., Samwang, T., Pakawanit, P., Supruangnet, R., Laosiripojana, N., Wu, K. C. W. and Sakdaronnarong, C.	Interfacial Hydrogen Bonding and Phase-Inversion Kinetics Drive 3D Pore Networks in PLA–CNF Membranes for Dialysis-Grade Selectivity	Materials & Design	Q1	7.9	Medical Applications
71	BL1.2: XTM	Khanema, P., Laojinda, W., Rojviriya, C. 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
72	BL1.2: XTM	Khongkliang, P., Nuchdang, S., Rattanaphra, D., Issarapanacheewin, S., Phalakornkule, C., Pakawanit, P., Pornroongruengchok, 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
73	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

No.	Beamline	Author	Title	Source	Q	IF	Field
74	BL1.2: XTM	Khrongchaiyaphum, F., Wantana, N., Sarumaha, C. S., Kaewnuam, E., Pakawanit, P., 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
75	BL1.2: XTM	Khrongchaiyaphum, F., Wantana, N., Ruangtaweep, Y., Chanthima, N., Pakawanit, P., 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
76	BL1.2: XTM	Khrongchaiyaphum, F., Wantana, N., Pakawanit, P., 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
77	BL1.2: XTM	Kruangkum, T., Pakawanit, P., Jaiboon, K., Sanguanrut, P., Saedan, S., Sritunyalucksana, 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
78	BL1.2: XTM	Li, X., Lai, G., Deng,, W., Wei, Z., Li , J., Fang , C., Zuo, T., Cheng, H., Pakawanit, P., 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
79	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
80	BL1.2: XTM	Ntarisa, A. V., Khrongchaiyaphum, F., Wantana, N., Keawmon, T., Cheewasukhanont, W., Intachai, N., Saha, S., Sangwaranatee, N., Cho, J., Pakawanit, P., Phoovasawat, C., Felix, A. T., Ollotu, E. R., Kim, H. J., Kothan, S. and Kaewkhao, J.	Fast Timing Resolution and Scintillation Performances of Ce^{3+} Doped Gadolinium Phosphate Glasses for Radiation Detection Application	Ceramics International	Q1	5.6	Materials Science and Engineering
81	BL1.2: XTM	Ondee, W., Kedkaew, C., Wantana, N., Kaewnuam, E., Khrongchaiyaphum, F., Chanthima, N., Pakawanit, P., 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
82	BL1.2: XTM	Padchasri, J., Siriroj, S., Pakawanit, P., Nijpanich, S., Kheawhom, S. and Kidkhunthod, P.	Carbon-Assisted Electronic Percolation in Ni-doped Lithium Borate-Sulphate Glass-Ceramics	Ceramics International	Q1	5.6	Materials Science and Engineering
83	BL1.2: XTM	Panpho, P., Charoonsuk, T., Pakawanit, P., 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
84	BL1.2: XTM	Payungkulanan, K., Tungjai, M., Wantana, N., Chanthima, N., Sarumaha, C.S., Pakawanit, P., 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
85	BL1.2: XTM	Payungkulanan, K., Tungjai, M., Wantana, N., Chanthima, N., Sarumaha, C. N., Pakawanit, P., 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
86	BL1.2: XTM	Pongampai, S., Chaithaweep, K., Pakawanit, P., 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
87	BL1.2: XTM	Rachakom, A., Boonsong, P., Pakawanit, P., Chaipisan, K., Siriprapa, 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
88	BL1.2: XTM	Rachniyom, W., Kothan, S., Tariwong, Y., Sarumaha,C.S., Wantana, N., Kim, H. J., Intachai, N., Pakawanit, P., Phoovasawat, C., Ruangtaweep, Y. and Kaewkhao, J.	Reddish–Orange Lighting from Sm3+ Doped Y2O3–K2O–Li2O–SiO2 Glass and their Judd-Ofelt Analysis for Photonics and Radiography Applications	Radiation Physics and Chemistry 249 (2026): 114241	Q2	3.3	Materials Science and Engineering
89	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
90	BL1.2: XTM	Rueangsuwan, J., Khomlaem, C., Pakawanit, P., 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
91	BL1.2: XTM	Rungruangkitkrai, N., Apipatpapha, T., Chartvivatpornchai, N., Boonyarit, J., Suphamitmongkol, W., Ounu, P., Pakawanit, P., 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
92	BL1.2: XTM	Saengpoe, P., Supasai, W., Amorntep, N., Nilnumpetch, C., Nokkaew, M., Samanjit, W., Treetong, A., Saetang, C., Charoonsuk, T., Pakawanit, P., 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
93	BL1.2: XTM	Saengsrichan, A., Khemthong, P., Phanthasri, J., Namuangruk, S., Youngjan, S., Phawa, C., Wannapaiboon, S., Pakawanit, P., 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
94	BL1.2: XTM	Saichompoo, K., Rattanawongwiboon, T., Kingkam, W., Pakawanit, P., 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
95	BL1.2: XTM	Sahu, M., Hajra, S., Padhan, A. M., Park, K. J., Ro, S., Pakawanit, P., 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
96	BL1.2: XTM	Sereerattanakorn, P., Padchasri, J., Pornprasertsuk, R. and Kidkhunthod, P.	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
97	BL1.2: XTM	Saowapan, T., Somna, R., Somna, K., Suebsuk, J., Pakawanit, P. 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

No.	Beamline	Author	Title	Source	Q	IF	Field
98	BL1.2: XTM	Sarumaha, C. S., Kaewnuam, E., Kantuptim, P., Nishikawa, A., Kato,T., Yanagida, T., Kothan, S., Busayaporn, W., Pakawanit, P., Phoovasawat, C., Ruangtaweep, 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
99	BL1.2: XTM	Siriroj, S., Padchasri, J., Pakawanit, P., Nijapai, P., Sereerattanakorn, P., Luangthanarak, H., Pisitpipathsin, N., Nualchimplee, C. 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
100	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
101	BL1.2: XTM	Sukkha, U., Teandam, A., Pakawanit, P., 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
102	BL1.2: XTM	Suktep, N., Sae-tang, C., Ukasi, S., Pakawanit, P., 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
103	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
104	BL1.2: XTM	Tangthuam, P., Pipattanachaiyanan, P., Kao-ian, W., Wannapaiboon, S., Pakawanit, P., 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
105	BL1.2: XTM	Tapanya, M., Kothan, S., Htun, K. T., Wantana, N., Ruangtaweep, Y., Tariwong, Y., Intachai, N., Tungjai, M., Pakawanit, P., Phoovasawat, C., Busayaporn, W., Kim, H. J., Minh, P. H., Sangwaranatee, N. and Kaewkhao, J.	Ce^{3+}-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
106	BL1.2: XTM	Tapanya, M., Kothan, S., Htun, K. T., Wantana, N., Ruangtaweep, Y., Tariwong, Y., Intachai, N., Tungjai, M., Pakawanit, P., Phoovasawat, C., 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
107	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
108	BL1.2: XTM	Tariwong, Y., Pulphol, P., Sangtawesin, T., Seriwattanachai, C., Kanjanaboos, P., Pakawanit, P., Chanlek, N., 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
109	BL1.2: XTM	Unruan, S., Nuilek, K., Somdee, P., Unruan, M., Nithikarnjanatharn, J., Pakawanit, P., 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
110	BL1.2: XTM	Wannasen, L., Pimsawat, A., Mingmuang, Y., Khamkhantee, N., Daengsakul, S., Wongprasod, S., Tanapongpisit, N., Rojviriya, C., Vongpramate, D., Saenrang, W., Wongrakpanich, A. and Khamkongkaeo, 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
111	BL1.2: XTM	Wantana, N., Kaewnuam, E., Khrongchaiyaphum, F., Pakawanit, P., Phoovasawat, C., Chanlek, N., 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
112	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
113	BL1.2: XTM	Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., Nawong, S., Wichitsathian, B. and Jearanaikoon, N.	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
114	BL1.2: XTM	Yonchai, C., Spencer-Jolly, D., Palasak, P., Pakawanit, P., Phatthanakun, R., Kidkhunthod, P., 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
115	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
116	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
117	BL1.3W: SAXS	Chang, X., Cao, G., Zhou, X., Kamonsutthipaijit, N., Lu, X., Buangam, P., Tunmee, S., Rittihong, 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
118	BL1.3W: SAXS	Chang, X., Zhou, X., Buangam, P., Kamonsutthipaijit, N., Tunmee, S. 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
119	BL1.3W: SAXS	Chang, X., Zhou, X., Li, J., Yu, A., Buangam, P., Kamonsutthipaijit, N., Tunmee, S. 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
120	BL1.3W: SAXS	Hariyanto, Y. A., Nikmah, A., Subadra, S. T. U. I., Susanto, H., Sunaryono, Nur, H., Soontaranoon, S., 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
121	BL1.3W: SAXS	Jarnthong, M., Wannalak, A., Thongnuanchan, B., Kaesaman, A., Saito, H., Soontaranon, S. 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

No.	Beamline	Author	Title	Source	Q	IF	Field
122	BL1.3W: SAXS	Jariyasakoolroj, P., Phongtamrug, S., Pilasen, P., Limphirat, W. 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
123	BL1.3W: SAXS	Junyusen, T., Junyusen, P., Treeamnuk, T., Moolkaew, P., Sonsomboonsuk, S., Sila, B. and Kamonsutthipaijit, N.	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
124	BL1.3W: SAXS	Kajornprai, T., Rungswang, W., Kaewsuwan, D., Kamonsutthipaijit, N., 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
125	BL1.3W: SAXS	Kaewbangkerd, K., Kanklang, E., Ngernsoungnern, A., Rojviriya, C., Tastub, S., Sinthusamran, S. and Yongsawatdigul, J.	High-Intensity Ultrasound-Assisted Recovery of Type II Collagen from Porcine Trachea: Enhanced Recovery and Multiscale Structural Organization	Ultrasonics Sonochemistry 132 (2026): 107973	Q1	4.1	Materials Science and Engineering
126	BL1.3W: SAXS	Kerdthong, P., Duangphet, S., Soykeabkaew, N., Intatha, U., Kamonsutthipaijit, N. and Tastub S.	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
127	BL1.3W: SAXS	Keeratiburana, T., Fu, T., Sarifudin, A., Soontaranon, S. 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
128	BL1.3W: SAXS	Keeratiburana, T., Tastub, S., 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
129	BL1.3W: SAXS	Kongtaveesombat, S., Torgbo, S., Kamonsutthipaijit, N., 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
130	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
131	BL1.3W: SAXS	Masa, A., Mesa, N., Soontaranon, S. 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
132	BL1.3W: SAXS	Mitcharean, C., Kedsakon, K., Hasdin, O., Busayaporn, W., 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
133	BL1.3W: SAXS	Muflikhah, Federico, A., Shahab, A. N., Patriati, A., Fatriansyah, J. F., Mursito, A. T., Soontaranon, S., 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
134	BL1.3W: SAXS	Najmi, M. I., Chusna, N. M., Latifah, E., Zulaikah, S., Taufiq, A., Soontaranon, S. 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
135	BL1.3W: SAXS	Ninjan, R., Thongnuanchan, B., Salaeh, S., Tulyapitak, T., Thitithammawong, A., Hayeemasae, N., Saiwari, S., Buangam, P. 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
136	BL1.3W: SAXS	Patriati, A., Muflikhah, Hauli, L., Safaat, M., Tasfiyati, A. N., Suparno, N., Mursito, A. T., Rodiansono, Soontaranoon, S., Wood, K. and Adilina, I. B.	Molecular Insights on the Pore Structure Ordering of Mesoporous Silica Catalysts Synthesised From Geothermal Silica Scaling: Alcohol Co-Solvent Effects	ChemNanoMat 12 (Jul 2026): e70329	Q2	2.6	Materials Science and Engineering
137	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
138	BL1.3W: SAXS	Pongnan, S., Robinson, R.C., Kamonsutthipaijit, N., 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
139	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
140	BL1.3W: SAXS	Ruengsuk, A., Khamphaijun, K., Laoviwat, P., Kamonsutthipaijit, N., 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
141	BL1.3W: SAXS	Rungswang, W., Jiamjirangkul, P., Kaewsuwan, D., Soontaranon, S., Rugmai, S. 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
142	BL1.3W: SAXS	Saknaveeporn, K., Yingkamhaeng, N., Torgbo, S., Kamonsutthipaijit, N., Thumanu, K., 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
143	BL1.3W: SAXS	Tang, B., Zhang, Y., Ji, B., Yu, G., Zheng, Y., Zhou, X., Kamonsutthipaijit, N., Buangam, P., Tunmee, S., Nakajima, H., Rittihong, 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
144	BL1.3W: SAXS	Todee, B., Srirattanaprasit, N., Prombandachok, J., Kammoon, P., Ruengsuk, A., Namnouad, P., Depijan, M., Sangtawesin, T., Kamonsutthipaijit, N., Tantirungrotechai, J., Amornsakchai, T. Smith, S. M. and Bunchuay, T.	Dialdehyde Pineapple Starch as a Reactive Carbohydrate Platform for Pyridyl–Acylhydrazone Crosslinked Networks in Au and Pd Recovery	Carbohydrate Polymers 388 (Sep 2026): 125546	Q1	12.5	Materials Science and Engineering
145	BL1.3W: SAXS	Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., Nawong, S., Wichitsathian, B. and Jearanaikoon, N.	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
146	BL2.2: TRXAS	Ahmed, A., Khampuanbut, A., Kidkhunthod, P., Limphirat, W., 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
147	BL2.2: TRXAS	Deekamwong, K., Pornnongsan, N., Tawachkultanadilok, P., Poo-Arporn, Y., Limphirat, W., Loiha, S., Promchan, P., Wittayakun, J. and Prayoonpokarach, S.	Core–Shell Zn–Co Zeolitic Imidazolate Framework-Derived Catalysts for the Reverse Water–Gas Shift Reaction	Catalysts 16 (2026): 737	Q2	4	Chemistry

No.	Beamline	Author	Title	Source	Q	IF	Field
148	BL2.2: TRXAS	Doungdej, K., Numpilai, T., Dolsiririttigul, N., Polsomboon, N., Limphirat, W., 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
149	BL2.2: TRXAS	Hongmanorom, P., Neraud, A., Styskalik, A., Limphirat, W., 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
150	BL2.2: TRXAS	Kao-ian, W., Tangthuam, P., Kidkhunthod, P., Limphirat, W., Padchasri, J., 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
151	BL2.2: TRXAS	Khosukwiwat, K., Choojun, K., Limphirat, W., 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
152	BL2.2: TRXAS	Lakhani, P., Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., Limphirat, W., Assabumrungrat, S. and Srifa, A.	Engineering Support-Dependent Structures of Co Catalysts on MgO, MgAl, and Al_2O_3 for Selective Transformation of Levulinic Acid to γ-Valerolactone	Fuel Processing Technology 282 (Apr 2026): 108397	Q1	7.7	Chemistry
153	BL2.2: TRXAS	Likitaporn, C., Sukmas, W., Prathumrat, P., Limphirat, W., 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
154	BL2.2: TRXAS	Lolupiman, K., Yang, C., Woottapanit, P., Sukmas, W., Limphirat, W., 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
155	BL2.2: TRXAS	Maneewong, Y., Lakhani, P., Ratchahat, S., Sakdaronnarong, C., Limphirat, W., Rungtaweevoranit, 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 γ-Valerolactone	Green Chemistry 28, 16 (Apr 2026): 6936-3957	Q1	9.2	Chemistry
156	BL2.2: TRXAS	Makdee, A., Siriwong, C., Poosimma, P., Lorwanishpaisarn, N., Poo-arporn, Y., Kidkhunthod, P. 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
157	BL2.2: TRXAS	Osakoo, N., Tawachkultanadilok, P., Loiha, S., Rakngam, I., Keawkumay, C., Poo-arporn, Y., 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
158	BL2.2: TRXAS	Poson, S., Teerawatananond, T., Shoosri, T., Miyake, T., Panpranot, J. and Weerachawanasak, P.	Sustainable Liquid-Phase Selective Hydrogenation of CO2 to C1–C3 Alcohols over Mg-, Zn-, and Pt-Modified Copper Phyllosilicate Catalysts: Insight Reaction Pathways	ACS Sustainable Chemistry & Engineering 14 (Jul 2026): 13076-13089	Q1	7.3	Chemistry
159	BL2.2: TRXAS	Praikaew, W., Prameswari, J., Ratchahat, S., Chaiwat, W., Sakdaronnarong, C., Koo-amornpattana, W., Limphirat, W., 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
160	BL2.2: TRXAS	Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., Limphirat, W., Mahakot, S., Assabumrungrat, S. and Srifa, A.	Systematic Optimization of the Ni-to-Mo Ratio in Bimetallic Ni–Mo_2C Catalysts for Efficient Selective Hydrogenation of Levulinic Acid to γ-Valerolactone	Fuel Processing Technology 276 (Oct 2025): 108276	Q1	7.7	Chemistry
161	BL2.2: TRXAS	Selvaraj, Y., Nangan, S., Gopalakrishnan, M., Venkattappan, A., Eswaramoorthy, N., Kao-ian, W., Limphirat, W., Yu, S. H. and Kheawhom, S.	Coupled Dielectric Polarization and Fe Redox Charge Storage in Ta2O5/ Bismuth Ferrite Heterostructures for Aqueous Supercapacitors	Journal of Alloys and Compounds 1080 (Sep 2026): 190516	Q1	6.3	Materials Science and Engineering
162	BL2.2: TRXAS	Soonthornkit, S., Pornphatdetaudom, T., Laoatiman, W., Aupama, V., Limphirat, W., Praserthdam, S., Promma, P., Rittiruam, M., Thongrita, P., Kidkhunthod, P., Pattananuwat, P., Cha, S., Kheawhom, S. and Pornprasertsuk, R.	Superior Fe-Doped α-MnO_2 Bifunctional Catalyst for Zinc-Air Batteries: Comparative Analysis of Cycle Stability and Performance in Transition Metal-Doped α-MnO_2 Systems	Journal of Physics Energy	Q1	6.3	Chemistry
163	BL2.2: TRXAS	Tanalue, N., Likitaporn, C., Prathumrat, P., Limphirat, W., 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
164	BL2.2: TRXAS	Tawachkultanadilok, P., Nijpanich, S., Tunsound, V., Chanlek, N., Kidkhunthod, P., Hagio, T., Wittayakun, J., Praserthdam,P. and Poo-arporn, Y.	Operando TR-XAS Investigation of CO_2 Dry Reforming of Ethanol Over Ce-Promoted Cu/LTL Catalysts	Journal of Alloys and Compounds 1050 (Jan 2026): 185758	Q1	6.3	Chemistry
165	BL2.2: TRXAS	Yamchumporn, P., Boonin, K., Yasaka, P., Triamnak, N., Sareein, T., Singsoog, K., Seetawan, T., Limphirat, W. 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
166	BL2.2: TRXAS	Yang, C., Woottapanit, P., Hou, Q., Dai, Z., Limphirat, W., 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
167	BL2.2: TRXAS	Yang, C., Woottapanit, P., Hou, Q., Dai, Z., Limphirat, W., 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
168	BL2.2: TRXAS	Yomthong, K., Makdee, A., Soyphet, A., Saenluang, K., Maineawklang, N., Ittisanronnachai, S., Limphirat, W., Kidkhunthod, P. 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
169	BL2.2: TRXAS	Zhang, S., Gao, Z., Zhang, D., Lolupiman, K., Limphirat, W., 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
170	BL3.1: XPS	Adnan, R. H., Osborn, D. J., Yan, S., Shichibu, Y., Nakajima, H., 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
171	BL3.1: XPS	Areerob, Y., Nachaithong, T., Phumuen, P., Wannabut, W., Nijpanich, S., 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
172	BL3.1: XPS	Chaisit, S., Sichumsaeng, T., Toaran, W., Chanlek, N., Kidkhunthod, P., Tanthanuch, W., Padchasri, J., Thiwatwaranikul, T., Meevasana, W. and Maensiri, S.	Improved Specific Capacitance of Cassava Root-Based Activated Carbon by KOH/KMnO4 Activating Agent	Diamond & Related Materials	Q1	5.1	Materials Science and Engineering

No.	Beamline	Author	Title	Source	Q	IF	Field
173	BL3.1: XPS	Chananil, P., Triosod, S., Phumuen, P., Chanlek, N., 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
174	BL3.1: XPS	Chankhanittha, T., Samart, N., Chaloemsawatwong, P., Waracalai, P., Nanan, S., Butburee, T., Jiratanachotikul, A., Punklahan, N., Kalapakdee, S., Yodsin, N., Nijpanich, S., 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
175	BL3.1: XPS	Chu, M. W., Chanlek, N., 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
176	BL3.1: XPS	Chu, M. W., Chen, Y. W., Chew, K. H., Chanlek, N., 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
177	BL3.1: XPS	Chinnakutti, K. K., Yun, H., Kheawhom, S., Gao, H., Tapia-Ruiz, N., Kidkhunthod, P., Nijpanich, S., 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
178	BL3.1: XPS	Deekamwong, K., Pornnongsan, N., Tawachkultanadilok, P., Poo-Arporn, Y., Limphirat, W., Loiha, S., Promchan, P., Wittayakun, J. and Prayoonpokarach, S.	Core–Shell Zn–Co Zeolitic Imidazolate Framework-Derived Catalysts for the Reverse Water–Gas Shift Reaction	Catalysts 16 (2026): 737	Q2	4	Chemistry
179	BL3.1: XPS	Dudngam, T., Panomsuwan, G., Yeh, C. Y., Yongprapat, S., Thanasarnsurapong, T., Boonchun, A., Chanlek, N. and Hasin, P.	Interface Engineering Efficient Bifunctional Electrocatalyst: Crystalline $CoWO_4$/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
180	BL3.1: XPS	Fu, X., Lei, X., Wang, Y., Cui, S., Hu, J., Lang, T., Zhou, X., Tunmee, S., Wannapaiboon, S., 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
181	BL3.1: XPS	Gili, M. B. Z., Cabahug, M. L. V., Abrera, G. B., Argayosa, V. B., Jan, S. Q., Phan, M. H., Assawakhajornsak, J., Nakajima, H., 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
182	BL3.1: XPS	Hamzi, A., Ouardas, L., Saleh, M., Leuasoongnoen, P., Sonklin, T., David, P., Denmat, S. I., Leynaud, O., Mossang, E., Fernandez, B., Pojprapai, S., Mornex, D. and Songmuang, R.	Low-Temperature Sputtering and Polarity Determination of Vertically Aligned ZnO Nanocolumns	ACS Applied Nano Materials 9 (2026): 11218-11226	Q1	5.5	Materials Science and Engineering
183	BL3.1: XPS	Jakkrawhad, C., Batchelor-McAuley, C., Nijpanich, S. 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
184	BL3.1: XPS	Janlon, J., Chatsuwan, N., Kongparakul, S., Ratthiwal, J., Fong, Y. Y., Reubroycharoen, P., Chanlek, N., 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
185	BL3.1: XPS	Janthabut, P., Athikaphan, P., Jekrukand, P., Kanjunsi, P., Kongkoed, P., Nijpanich, S., Theerakulpisut, 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
186	BL3.1: XPS	Khajonrit, J., Sichumsaeng, T., Saenrang, W., Wongprasert, S., Tanapongpisit, N., Pinitsoontorn, S., Kidkhunthod, P., Chanlek, N., 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
187	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
188	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
189	BL3.1: XPS	Kruefu, V., Leangtanom, P., Wiboon, M., Wisitsoraat, A., Chanlek, N., Poo-arporn, Y. 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
190	BL3.1: XPS	Kulawong, S., Kulawong, J., Chanlek, N., 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
191	BL3.1: XPS	Kumalayanti, L., Padchasri, J., Kidkhunthod, P., Harnchana, V., Moontragoon, P., Pinitsoontorn, S. and Chankhunthod, N.	Cassava Pulp-Derived N-Doped Carbon Quantum Dots/TiO_2 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
192	BL3.1: XPS	Leangtanom, P., Wisitsoraat, A., Chanlek, N., 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
193	BL3.1: XPS	Li, X., Gou, X., Chanlek, N., 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
194	BL3.1: XPS	Luangthanrak, H., Padchasri, J., Siriroj, S., Pakawanit, P., Chanlek, N. and Kidkhunthod, P.	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
195	BL3.1: XPS	Mingmuang, Y., Chanlek, N., 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
196	BL3.1: XPS	Munthala, D., Raman, A., Sonklin, T., Buatip, N., Leuasoongnoen, P., Janphuang, P., Nijpanich, S., Klysubun, W., Chirawatkul, P., 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
197	BL3.1: XPS	Nanmong, T., Obrom, W., Yingyuen, W., Jaroenchur, T., Thamthong, P., Wittayakun, J., Prayoonpokarach, S., Tawachkultanadilok, P., Poo-arporn, Y., Wannapaiboon, S., Chanlek, N., Rungtaweevoranit, B., Kosawatthanakun, S., Khemthong, P., Desaulniers, J. P. and Loiha, S.	Synergistic Effects of Fe Species Distribution and Acid Site Balance in Fe/Zeolite Catalysts for 5-HMF Production from Glucose	RSC Advances 16 (Apr 2026): 18591-18611	Q1	4.6	Chemistry

No.	Beamline	Author	Title	Source	Q	IF	Field
198	BL3.1: XPS	Nukunudompanich, M., Nachaithong, T., Phumuen, P., Wannabut, W., Kunbuala, N., Nijpanich, S., 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
199	BL3.1: XPS	Padchasri, J., Siriroj, S., Pakawanit, P., Nijpanich, S., Kheawhom, S. and Kidkhunthod, P.	Carbon-Assisted Electronic Percolation in Ni-doped Lithium Borate-Sulphate Glass-Ceramics	Ceramics International	Q1	5.6	Materials Science and Engineering
200	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
201	BL3.1: XPS	Pimsri, P., Tabtimtong, N., Athikaphan, P., Tanusilp, S., Chankhanittha, T., Nijpanich, S., Wantala, K. and Suwannaruang, M.	Architectured 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
202	BL3.1: XPS	Pitipuech, N., Takam, N., Sanetuntikul, J., Saejio, A., Poompipatpong, C., Chanunpanich, N., Chanlek, N., 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
203	BL3.1: XPS	Pitipuech, N., Takam, N., Saejio, A., Sanetuntikul, J., Poompipatpong, C., Chanunpanich, N., Chanlek,N., Padchasri, J., 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
204	BL3.1: XPS	Phongsanam, N., Phetduang, S., Nijpanich, S., Tasarin, S., 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
205	BL3.1: XPS	Phongsanam, N., Sae-Foo, W., Phetduang, S., Putalun, W., Nijpanich, S., 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	Bological and Life Science
206	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
207	BL3.1: XPS	Preedawichitkun, Y., Numwong, N., Chanlek, N., 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
208	BL3.1: XPS	Rattanachai, Y., Chavalekvirat, P., Rintramee, K., Pandech, N., Klinkla, R., Padchasri, J., Siriroj, S., Supruangnet, R., Busayaporn, W., Kidkhunthod, P., 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
209	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
210	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
211	BL3.1: XPS	Sarumaha, C. S., Kaewnuam, E., Chanlek, N., 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
212	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
213	BL3.1: XPS	Senamart, N., Poo-arporn, Y., 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
214	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
215	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
216	BL3.1: XPS	Setsuwan, P., Waenthongkham, P., Torboon, K., Ngernyen, Y., Nijpanich, S., 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
217	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
218	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
219	BL3.1: XPS	Sunon, P., Jakkrawhad, C., Nijpanich, S., Kasemphong, T. and Ngamchue, K.	Molecular Control of Electrochemically Deposited Cobalt–Polymer Composite Interfaces for Nonenzymatic Lactate Detection	RSC Advances	Q1	4.6	Chemistry
220	BL3.1: XPS	Sresuksai, K., Nijpanich, S., Hunt, A. J. and Noppawan, P.	Corn Stalk-Derived Magnetic Humic Acid Nanocatalyst for Green Synthesis of Tetrahydrodipyrazolopyridines in Water	Environmental Technology & Innovation 43 (Sep 2026): 105080	Q1	2	Chemistry
221	BL3.1: XPS	Srisuai, N., Duangkanya, K., Intaravanne, Y., Chananonnawathorn, C., Tantiwanichapan, K., Assawakhajornsak, J., Nakajima, H. 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): 34119-341	Q1	4.3	Surface, Interface and Thin Films
222	BL3.1: XPS	Srithong, P., Chanlek, N., 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
223	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
224	BL3.1: XPS	Sukkha, U., Chanlek, N., Kidkhunthod, P., 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

No.	Beamline	Author	Title	Source	Q	IF	Field
225	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
226	BL3.1: XPS	Tariwong, Y., Pulphol, P., Sangtawesin, T., Seriwattanachai, C., Kanjanaboos, P., Pakawanit, P., Chanlek, N., 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
227	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
228	BL3.1: XPS	Tawachkultanadilok, P., Nijpanich, S., Tunsound, V., Chanlek, N., Kidkhunthod, P., Hagio, T., Wittayakun, J., Praserthdam,P. and Poo-arporn, Y.	Operando TR-XAS Investigation of CO_2 Dry Reforming of Ethanol Over Ce-Promoted Cu/LTL Catalysts	Journal of Alloys and Compounds 1050 (Jan 2026): 185758	Q1	6.3	Chemistry
229	BL3.1: XPS	Thanamoon, N., Takesada, M., Chanlek, N., 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
230	BL3.1: XPS	Teo, P. S., Chiu, W. S., Poon, Y. T., Chia, M. Y., Lee, H. C., Zakaria, R., Khiew, P. S., Chanlek, N., 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
231	BL3.1: XPS	Threerattanakulpron, N., Khongtor, N., Supasitmongkol, S., Serafin, J., Chaemchuen, S. and Klomkliang, 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
232	BL3.1: XPS	Wannakan, K., Nonthing, S., Chankhanittha, T., Phakkhawan, A., Klangtakai, P., Nijpanich, S., Chanlek, N. 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
233	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
234	BL3.1: XPS	Wantana, N., Kaewnuam, E., Khrongchaiyaphum, F., Pakawanit, P., Phoovasawat, C., Chanlek, N., 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
235	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
236	BL3.1: XPS	Wijitsak, J., Boonprab, J., Harding, P., Harding, D. J., Clegg, J. K., Kaewket, K., Jakkrawhad, C., Nijpanich, S., Wannapaiboon, S. 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
237	BL3.1: XPS	Wongpan, A., Keo, S., Siri, W., Chanlek, N., Luksirikul, P., Baowan, D. and Katewongsa, K. P.	Doxorubicin-Loaded Cerium Oxide Nanoparticles Suppress Cell Proliferation, Migration and Invasion of Triple-Negative Breast Cancer Cells	ACS Omega	Q1	4.3	Medical Applications
238	BL3.1: XPS	Wongpratat, U., Phromviyo, N., Wongsricha, J., Srilarueang, S., Chanlek, N., Khamkongkaeo, 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
239	BL3.1: XPS	Wongpratat, U., Phromviyo, N., Chanlek, N., Lertvanithphol, T., Horprathum, M., Khamkongkaeo, 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
240	BL3.1: XPS	Wongpratat, U., Banjong, N., Phromviyo, N., Chanlek, N. 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
241	BL3.1: XPS	Wongrat, E., Moonmuang, I., Chanlek, N., Hongsith, 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
242	BL3.1: XPS	Wongrat, E., Sirirak, R., Mangthas, W., Unai, S., Chanlek, N., 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
243	BL3.1: XPS	Wongsaken, N., Chinnakutti, K. K., Spencer-Jolly, D., Bovornratanaraks, T., Tunghathaithip, N., Nijpanich, S., 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
244	BL3.1: XPS	Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., Nawong, S., Wichitsathian, B. and Jearanaikoon, N.	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
245	BL3.1: XPS	Yun, H., Chinnakutti, K. K., Noerochim, L., Nijpanich, S., 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
246	BL3.2U: PES/PEEM	Anggoro, D., Fatimah, L., Karim, N. A., Sulistiyo, Y. A., Sudarsono, Noerochim, L., Nakajima, H. and Darminto	Sustainable PVA/rGO Carbon Nanofibers from Coconut Shell Waste for Supercapacitor Electrodes	Next Materials 13 (2026): 103147	Q1	3.2	Materials Science and Engineering
247	BL3.2U: PES/PEEM	Apichai, P., Pudkon, W., Kanlayapattamapong, T., Ruengsuk, A., Baba, A., Wongratanaphisan, D. and Ruankham, P.	Defect Suppression via Doping-Induced Stepped Energy Alignment in SnO2 Bilayers for Stable Carbon-Based Perovskite Solar Cells	Materials Science in Semiconductor Processing 214 (2026): 110910	Q1	4.6	Materials Science and Engineering
248	BL3.2U: PES/PEEM	Borwornpornmetee, N., Noosawat, C., Saenchantha, T., Khuanpanya, T., Kaewsai, C., Srisom, K., Phatthanakun, P., Janphuang, P., Nakajima, H., Paosawatyanyong, B., Yoshitake, T. and Promros, N.	Impact of Argon Plasma Etching Duration on the Induced Oxidation Process and Physical Properties of Fe3Si Films	Vacuum 254 (2026): 115693	Q1	3.9	Surface, Interface and Thin Films
249	BL3.2U: PES/PEEM	Borwornpornmetee, N., Kardkaew, T., Sansit, R., Kaewsai, C., Srisom, K., Phatthanakun, P., Janphuang, P., Nakajima, H., Paosawatyanyong, B., Yoshitake, T. and Promros, N.	Induced Hydrophilicity and Oxidation of β-Iron Disilicide Films by Varying Ar Plasma Etching Durations	ACS Omega	Q1	4.3	Surface, Interface and Thin Films
250	BL3.2U: PES/PEEM	Chaiyachad, S., Vo, T. P., Jindata, W., Singsen, S., Eknapakul, T., Jaisuk, C., Fevre, P. L., Bertran, F., Lu, D., Huang, Y., Nakajima, H., 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
251	BL3.2U: PES/PEEM	Chananonnawathorn, C., Hincheeranan, W., Nakajima, H., Songsiriritthigul, 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

No.	Beamline	Author	Title	Source	Q	IF	Field
252	BL3.2U: PES/PEEM	Chang, X., Zhou, X., Buangam, P., Kamonsutthipaijit, N., Tunmee, S. 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
253	BL3.2U: PES/PEEM	Chang, X., Zhou, X., Li, J., Yu, A., Buangam, P., Kamonsutthipaijit, N., Tunmee, S. 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
254	BL3.2U: PES/PEEM	Choodam, K. Kamjam, N., Sukpan, N., Seriwattanachai, C., Inna, A., Thant, K. S., Srathongsian, L., Supruangnet, R., Nakajima, H., 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
255	BL3.2U: PES/PEEM	Kaiyasuan, C., Kongkansarn, J., Waengdongbung, W., Sudyoadsuk, T., Songsiriritthigul, P., Nakajima, H., 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
256	BL3.2U: PES/PEEM	Kamjam, N., Choodam, K., Sukpan, N., Kittikool, T., Seriwattanachai, C., Kamnoedmanee, S., Hu, Y., Supruangnet, R., Nakajima, H., 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
257	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
258	BL3.2U: PES/PEEM	Kamal, S. A. A., Ritikos, R. A., Goh, B. T., Hafiz, S. M., Nakajima, H. and Tunmee, S.	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
259	BL3.2U: PES/PEEM	Khan, M. J., Rashid, R., Karim, Z., Pongchaikul, P., Sawatdee, S., Deeleepojananan, C., Botalo, A., Posoknistakul, P., Srifa, A., Samwang, T., Pakawanit, P., Supruangnet, R., Laosiripojana, N., Wu, K. C. W. and Sakdaronnarong, C.	Interfacial Hydrogen Bonding and Phase-Inversion Kinetics Drive 3D Pore Networks in PLA–CNF Membranes for Dialysis-Grade Selectivity	Materials & Design	Q1	7.9	Medical Applications
260	BL3.2U: PES/PEEM	Kooking, P., Henjongchom, N., Choochottiros, C., Supruangnet, R., 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
261	BL3.2U: PES/PEEM	Kulawong, S., Kulawong, J., Chanlek, N., 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
262	BL3.2U: PES/PEEM	Mas'udah, K. W., Anggoro, D., Nakajima, H., Sapruangnet, R., 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
263	BL3.2U: PES/PEEM	Nakajima, H., Wongpinij, T., Tunmee, S., Horprathum, M., Chaikeeree, 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
264	BL3.2U: PES/PEEM	Nammahachak, N., Sriondee, M., Eknapakul, T., Rattanachata, A., Nakajima, H., 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
265	BL3.2U: PES/PEEM	Nazri, N. A. A., Azis, R. S., Ismail, I., Man, H. C., Kasmuri, N., Nakajima, H., Chanlek, N. 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
266	BL3.2U: PES/PEEM	Nuchuay, P., Sriporaya, K., Chananonnawathorn, C., Daniels, T. M., Lertvanithphol, T., Eiamchai, P., Promjantuk, C., Nakajima, H., 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
267	BL3.2U: PES/PEEM	Nuyang, P., Phung-on, I., Peansukmanee, S., Saiyasombat, C., Photongkam, P., Wongpinij, T.	High-Temperature Stability of h-BN Thin Films on AISI 304 Stainless Steel from Atmospheric Glazing Process	Materials Research Express	Q2	2.2	Surface, Interface and Thin Films
268	BL3.2U: PES/PEEM	Rittihong, U., Sarapat, N., Wongpinij, T., Euaruksakul, C., Limwichean, S., Horprathum, M. and Songsiriritthigul, P.	Evidence of Crystallization from Amorphous VOx to VO2 (M1) Thin Film Investigated by In-situ LEEM and NEXAFS Techniques	Chiang Mai Journal of Science 53 (Jul 2026): e2026076	Q3	0.8	Surface, Interface and Thin Films
269	BL3.2U: PES/PEEM	Sani, S. F. A., Dimashqi, W. A. M. W., Ismail, S. S., Kean, L. S., Goh, B. T., Nakajima, H., Tunmee, S. 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
270	BL3.2U: PES/PEEM	Sawatmongkhon, B., Sawatdimongkon, A., Promhuad, P., Wongchang, T., Sukjit, E., Theinnoi, N. and Theinnoi, K.	Advanced Kinetic Analysis of Ag/Al_2O_3-Catalysed Diesel Particulate Matter Oxidation: Multi-Step Modelling and Peak Deconvolution	Thermochimica Acta 756 (Feb 2026): 180201	Q2	3.5	Chemistry
271	BL3.2U: PES/PEEM	Singh, S., Usulor, C. E., Khampa, W., Musikpan, W., Passatorntaschakorn, W., Tipparak, P., Seriwattanachai, C., Nakajima, H., 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
272	BL3.2U: PES/PEEM	Sriondee, M., Chongsatan, W., Thammaacheep, P., Nunocha, P., Meechob, J., Rattanachata, A., Nakajima, H., 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
273	BL3.2U: PES/PEEM	Sukgorn, N., Kaewprajak, A., Lapawae, K., Sinthiptharakoon, K.,Treetong, A., Hasuchon, C., Gamonchuang, J., Kayunkid, N., Nakajima, H., 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
274	BL3.2U: PES/PEEM	Thammaacheep, P., Sriondee, M., Kamei, T., Suriwong, T., Bongkarn, T., Phanichphant, S., Rattanachata, A., Nakajima , H., Jannoey , P. and Channei, D.	BiOBr-Modified SrTiO3 Heterojunction for Efficient Antibiotic Degradation and Bacterial Inactivation	Photochem 6 (2026): 31	Q2	2.3	Chemistry
275	BL3.2U: PES/PEEM	Thatawong, B., Sriondee, M., Chongsatan, W., Palaporn, D., Pinitsoontorn, S., Rittidech, A., Rattanachata, A., Suriwong, T., Vittayakorn, N. and Bongkarn, T.	Enhanced Densification and Thermoelectric Properties of Ca3Co4O9 Ceramics Fabricated by Solid-State Combustion and Hot-Pressing	Materials Science in Semiconductor Processing 215 (2026): 111024	Q1	4.6	Materials Science and Engineering
276	BL3.2U: PES/PEEM	Tang, B., Zhang, Y., Ji, B., Yu, G., Zheng, Y., Zhou, X., Kamonsutthipaijit, N., Buangam, P., Tunmee, S., Nakajima, H., Rittihong, 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

No.	Beamline	Author	Title	Source	Q	IF	Field
277	BL3.2U: PES/PEEM	Tee, L. C., Goh, B. T., Pujiarti, H., Diantoro, M., Alias, Y., Nakajima, H. and Tunmee, S.	Controlled Growth of 2D Tungsten Carbide Nanosheets Using Hot-Wire Chemical Vapor Deposition	Vacuum 254 (2026): 115679	Q1	3.9	Materials Science and Engineering
278	BL3.2U: 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., Supruangnet, R., Nakajima, H. and Kanjanaboos, P	Self-Powered Perovskite Photodetector with Chocolate-Chip-Cookie Structure	Light: Advanced Manufacturing	Q1	10.6	Materials Science and Engineering
279	BL3.2U: PES/PEEM	Then, M. Y., Sookhakian, M., Goh, B. T., Teridi, M. A. M., Aspanut, Z., Nakajima, H., Chanlek, N. 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
280	BL3.2U: PES/PEEM	Usulor, C. E., Passatorntaschakorn, W., Khampa, W., Musikpan, W., Tipparak, P., Singh, S., Ogbuagu, I. C., Seriwattanachai, C., Nakajima, H., 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
281	BL3.2U: PES/PEEM	Usulor, C. E., Passatorntaschakorn, W., Singh, S., Khampa, W., Musikpan, W., Ogbuagu, I. C., Kamjam, N., Ngamjarurojana, A., Kumnorkaew, P., Kaewprajak, A., Kanjanaboos, P., Ruankham, P. and Wongratanaphisan, D.	Surface Engineering-Induced 2D/3D Interfacial Reconstruction for Stable Low-Light Perovskite Solar Cells	ACS Applied Materials & Interfaces 18 (2026): 36330-36342	Q1	8.2	Surface, Interface and Thin Films
282	BL3.2U: PES/PEEM	Wongthawachnugool, S., Limwichean, S., Lertvanithphol, T., Pattanasettakul, V., Somboonsaksri, P., Nakajima, H., 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
283	BL3.2U: PES/PEEM	Wu, F., Lei, X. Pan, X., Nie, H., Xiao, Q., Zhou, X., Deng, W., Kidkhunthod, P., Padchasri, J., Tunmee, S., Rittihong, U., Nakajima, H., 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
284	BL3.2U: PES/PEEM	Yilmaz, T., Ng, Y. S., Jain, M., Tong, X., Wongpinij, T., Photongkam, P., Rajapitamahuni, A., Kundu, A. K. and Zheng, J. C.	Electronic Coherence Evolution at the Nearly Commensurate-Incommensurate CDW Boundary of 1T−TaS2	Physical Review Materials 10 (2026): 034007	Q1	3.4	Physics
285	BL4.1: IR	Chinnakorn, A., Weeranantanapan, O., Thumanu, K., Poopisut, P., Boontawan, A. and Nuansing, W.	Synchrotron FTIR Microspectroscopy Imaging for Evaluating Cell Distribution on Electrospun Fibrous Scaffolds	ACS Omega 11 (2026): 29933-29942	Q1	4.3	Medical Applications
286	BL4.1: IR	Chio-Srichan, S., Attarataya, J., Phonthongchanthuek, T., Tarawarakarn, P., Srisamut, D., Chantarakorn, C., Saiyasombat, C., Soontaranon, S., Rugmai, S., 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
287	BL4.1: IR	Indriani, S., Srisakultiew, N., Benjakul, S. Andriani, C., Thumanu, K. 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
288	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
289	BL4.1: IR	Khoutsavang, P., Bunnom, R., Pengsanthia, S., Phanhiran, P., Kubota, S., Douangvilay, D., Phonxaiya, T., Phimphachanhvongsod, V., Molee, W., Thumanu, K. and Molee, A.	Breed Classification of Lao People's Democratic Republic (Lao PDR) and Thai Native Chickens Using Synchrotron Radiation-Based Fourier Transform Infrared Spectroscopy and Genotyping by Sequencing	Poultry Science	Q1	4.2	Biological and Life Science
290	BL4.1: IR	Manasathien, J., Laojinda, W., Attarataya, J. and Khanema, P.	Soil Salinity Modulates Fatty Acid Composition and Antioxidant Capacity of Rice Bran Oil	PeerJ 14 (2026): e21476	Q1	2.4	Food and Agricultural Science
291	BL4.1: IR	Matphang, S., Aueboonprasert, N., Rattanakam, R., Teanchai, C., Sinthuvanich, C., Attarataya, J., 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
292	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
293	BL4.1: IR	Roddee, J., Pola, W., Pimkhonburee, S., Nawong, S. and Jearanaikoon, N.	Emamectin Benzoate Seed Coating Provides Systemic Protection of Maize Against Fall Armyworm (Spodoptera frugiperda)	Journal of Pesticide Science	Q2	1.8	Food and Agricultural Science
294	BL4.1: IR	Saknaveeporn, K., Yingkamhaeng, N., Torgbo, S., Kamonsutthipaijit, N., Thumanu, K., 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
295	BL4.1: IR	Thaiwong, N., Keawrangsi, N., Ruenphoklang, S., Kongsuk, M., Phetsuk, N., Vasupen, K., Rabpairee, K., Toommuangpak, W., Sinprachim, T., Lohalaksanadech, S., Nawong, S. 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
296	BL4.1: IR	Tonpho, K., Pagamas, P., Hoang, N. H., Sangpueak, R., Saengchan, C., Cael, S., Thumanu, K. and Buensanteai, K.	Integrated Seed Pelleting and Foliar Application of Bacillus Subtilis for Control of Alternaria Leaf Spot in Lettuce	Journal of Plant Diseases and Protection 133 (2026): 127	Q1	2.2	Food and Agricultural Science
297	BL4.1: IR	Yimrattanabovorn, J., Kanjanapruthipong, K., Wonglertarak, W., Wichitsathian, B., Khowattana, M. and Nawong, S.	Microplastic Removal in Coagulation-Flocculation: Optimization through Chemometric and Morphological Insights	Journal of Ecological Engineering 27 (2026): 277-292	Q2	1.5	Environmental Science
298	BL4.1: IR	Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., Nawong, S., Wichitsathian, B. and Jearanaikoon, N.	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
299	BL5.2: XAS	Abubakar, H. M., Palasak, P., Jampaiboon, N., Tapia-Ruiz, N., Limphirat, W., Wannapaiboon, S., Sukmas, W. and Kasemchainan, J.	Experimental and Computational Investigation of Failure Evolution of β-MnO2 Cathode in Sodium-Ion Batteries	Materials Science and Engineering B 333 (2026): 119779	Q1	4.6	Materials Science and Engineering
300	BL5.2: XAS	Chaisit, S., Sichumsaeng, T., Toaran, W., Chanlek, N., Kidkhunthod, P., Tanthanuch, W., Padchasri, J., Thiwatwaranikul, T., Meevasana, W. and Maensiri, S.	Improved Specific Capacitance of Cassava Root-Based Activated Carbon by KOH/KMnO4 Activating Agent	Diamond & Related Materials	Q1	5.1	Materials Science and Engineering

No.	Beamline	Author	Title	Source	Q	IF	Field
301	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
302	BL5.2: XAS	Chankhanittha, T., Samart, N., Chaloemsawatwong, P., Waracalai, P., Nanan, S., Butburee, T., Jiratanachotikul, A., Punklahan, N., Kalapakdee, S., Yodsin, N., Nijpanich, S., 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
303	BL5.2: XAS	Chinnakutti, K. K., Yun, H., Kheawhom, S., Gao, H., Tapia-Ruiz, N., Kidkhunthod, P., Nijpanich, S., 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
304	BL5.2: XAS	Deekamwong, K., Pornnongsan, N., Tawachkultanadilok, P., Poo-Arporn, Y., Limphirat, W., Loiha, S., Promchan, P., Wittayakun, J. and Prayoonpokarach, S.	Core–Shell Zn–Co Zeolitic Imidazolate Framework-Derived Catalysts for the Reverse Water–Gas Shift Reaction	Catalysts 16 (2026): 737	Q2	4	Chemistry
305	BL5.2: XAS	Devi, Y. and Chen, C. H.	Liquid-Assisted Redox Synthesis Enables High-Yield Metastable Tetragonal Spinel Oxides	ACS Materials Au	Q1	6.5	Chemistry
306	BL5.2: XAS	Fu, X., Lei, X., Wang, Y., Cui, S., Hu, J., Lang, T., Zhou, X., Tunmee, S., Wannapaiboon, S., 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
307	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., Tunmee, S., Padchasri, J., Wannapaiboon, S., 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
308	BL5.2: XAS	Jutimoosik, J., Nunocha, P., Kidkhunthod, P., 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
309	BL5.2: XAS	Khajonrit, J., Sichumsaeng, T., Saenrang, W., Wongprasert, S., Tanapongpisit, N., Pinitsoontorn, S., Kidkhunthod, P., Chanlek, N., 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
310	BL5.2: XAS	Khamlue, R., Chatsiri, P., Sakurada, T., Chotimook, J., Leangtanom, P., Prayongkul, P., Atithep, T., Padchasri, J., Kidkhunthod, P., 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
311	BL5.2: XAS	Kantha, P., Unruan, M., Tunkasiri, T., Pengpat, K., Sukkha, U., Jaiban, P., Padchasri, J., Siriroj, S. and Kidkhunthod, P. 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
312	BL5.2: XAS	Kao-ian, W., Tangthuam, P., Kidkhunthod, P., Limphirat, W., Padchasri, J., 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
313	BL5.2: XAS	Kruefu, V., Leangtanom, P., Wiboon, M., Wisitsoraat, A., Chanlek, N., Poo-arporn, Y. 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
314	BL5.2: XAS	Kumalayanti, L., Padchasri, J., Kidkhunthod, P., Harnchana, V., Moontragoon, P., Pinitsoontorn, S. and Chankhunthod, N.	Cassava Pulp-Derived N-Doped Carbon Quantum Dots/TiO_2 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
315	BL5.2: XAS	Kumalayanti, L., Phianjing, C., Padchasri, J., Kidkhunthod, P., 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
316	BL5.2: XAS	Kumchompoo, J., Yang, J., Padchasri, J., Kidkhunthod, P., 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
317	BL5.2: XAS	Latief, F., Arrosyid, B. H., Amalia, R., Fahroji, M., Ghariy, G., Aryanto, D., Fajar, A., Kidkhunthod, P., Suasmoro, 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
318	BL5.2: XAS	Makdee, A., Siriwong, C., Poosimma, P., Lorwanishpaisarn, N., Poo-arporn, Y., Kidkhunthod, P. 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
319	BL5.2: XAS	Masakul, P., Krongkitsiri, P., Thongbai, P., Kidkhunthod, P., 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
320	BL5.2: XAS	Padchasri, J., Siriroj, S., Pakawanit, P., Nijpanich, S., Kheawhom, S. and Kidkhunthod, P.	Carbon-Assisted Electronic Percolation in Ni-doped Lithium Borate-Sulphate Glass-Ceramics	Ceramics International	Q1	5.6	Materials Science and Engineering
321	BL5.2: XAS	Padchasri, J., Siriroj, S. and Kidkhunthod, P.	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
322	BL5.2: XAS	Pitipuech, N., Takam, N., Saejio, A., Sanetuntikul, J., Poompipatpong, C., Chanunpanich, N., Chanlek,N., Padchasri, J., 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
323	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
324	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
325	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

No.	Beamline	Author	Title	Source	Q	IF	Field
326	BL5.2: XAS	Sereerattanakorn, P., Padchasri, J., Pornprasertsuk, R. and Kidkhunthod, P.	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
327	BL5.2: XAS	Shin, J., Li, H.-Y., Wu, Y., Park, K., Shin, J. W., Wannapaiboon, S., Limphirat, W., 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
328	BL5.2: XAS	Sim, W. J., Nguyen, M. T. Kao-ian, W., Kidkhunthod, P., 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
329	BL5.2: XAS	Shin, J., Jung, M. J., Li, H. Y., Wu, Y., Limphirat, W., Kwon, S. H. and Su, P. C.	Hydrogen-Free Exsolution of Ir–Fe Nanoalloys on the Surface of Solid Oxide Cell Perovskite Air Electrodes	Energy & Environmental Science	Q1	30.8	Materials Science and Engineering
330	BL5.2: XAS	Sriwichai, S., Sakulsermsuk, S., Wetchakun, K., Kidkhunthod, P. 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
331	BL5.2: XAS	Sukkha, U., Chanlek, N., Kidkhunthod, P., 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
332	BL5.2: XAS	Suwannaruang, M., Triroj, N., Kaewmaraya,T., Nachaithong, T., Padchasri, J., Kidkhunthod, P., 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
333	BL5.2: XAS	Termsombut, P., Plerdsranoy, P., Thiangviriya, S., Untarabut, P., Suthirakun, S., Tanthanuch, W. 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
334	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
335	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
336	BL5.2: XAS	Thaweelap, N., Plerdsranoy, P., Thiangviriya, S., Pangon, A., Tanthanuch, W. 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
337	BL5.2: XAS	Wang, Y., Zhao, H., Niu, J., Weahayee, A., Limphirat, W., Siritanon, T., Ren, J., Jiang, P., Sun, Y. and Lu, T.	A-Site Cation Engineering of Mn5+-Activated ABaPO4 (A=Li, Na, K) Phosphors for High-Performance NIR-II Luminescence and Optical Thermometry	Progress in Solid State Chemistry,	Q1	10.5	Materials Science and Engineering
338	BL5.2: XAS	Wu, F., Lei, X. Pan, X., Nie, H., Xiao, Q., Zhou, X., Deng, W., Kidkhunthod, P., Padchasri, J., Tunmee, S., Rittihong, U., Nakajima, H., 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
339	BL5.2: XAS	Yodkantee, D., Prasatkhetragarn, C., Klinbumrung, A., Kaewjaeng, S., Kothan, S., Padchasri, J., Kidkhunthod, P., 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
340	BL5.2: XAS	Yomthong, K., Saenluang, K., Soyphet, A., Ittisanronnachai, S., Padchasri, J., Kidkhunthod, P., 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
341	BL5.2: XAS	Yomthong, K., Makdee, A., Soyphet, A., Saenluang, K., Maineawklang, N., Ittisanronnachai, S., Limphirat, W., Kidkhunthod, P. 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
342	BL5.2: XAS	Yu, M., Wang, Z., Zhao, L., Wang, Y., Kamchompo, S., Liu, K., Wang, J., Padchasri, J., Yuan, S., Fang, Y., Jungsuttiwong, S., Maitarad, P., Kidkhunthod, P., 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
343	BL6: DXL	Klinsuk, J., Sunongbua, P., Srisom, K., Janphuang, P. 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
344	BL6: DXL	Sonklin, T., Chedurupalli, S., Munthala, D., Luangjiranotai, N., Janphuang, P., Raju, J. K. C., Pojprapai, S. and Suksaweang, S.	FEA-Guided Design and Experimental Validation of ZnO-Based Surface AcousticWave Biosensor with Au Sensing Layer for Label-Free EGFR L858R Mutation Detection	Micro 6 (2026): 64	Q2	n/a	Micro Nanotechnology
345	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
346	BL7.2: MX	Abubakar, H. M., Palasak, P., Jampaiboon, N., Tapia-Ruiz, N., Limphirat, W., Wannapaiboon, S., Sukmas, W. and Kasemchainan, J.	Experimental and Computational Investigation of Failure Evolution of β-MnO2 Cathode in Sodium-Ion Batteries	Materials Science and Engineering B 333 (2026): 119779	Q1	4.6	Materials Science and Engineering
347	BL7.2: MX	Baser, M. F. H., Salleh, M. A. A. M., Said, R. M., Zakaria, M. F., Zaimi, N. S. M. Wannapaiboon, S., Kamonsuangkasem, K., Tancharakorn, S., Tanthanuch, W. and Mothong, N.	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
348	BL7.2: MX	Baser, M. F. H., Salleh, M. A. A. M., Said, R. M., Zaimi, N. S. M., Tancharakorn, S., Tanthanuch, W., Mothong, N., Vizureanu, 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
349	BL7.2: MX	Beagbandee, C., Charoenwattanasatien, R., 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
350	BL7.2: MX	Bootkul, D., Intayot, S., Uthaichana, K., Wattanachai, P., Intarasiri, S., Songsiriritthigul, C., Songsiriritthigul, P. and Hauzenberger, 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

No.	Beamline	Author	Title	Source	Q	IF	Field
351	BL7.2: MX	Cousin, F. E., Hongkailers, S., Pongpimai, K., Saiyasombat, C., 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
352	BL7.2: MX	Dai, Z., Zhang, X., Lolupiman, K., Yang, C., Woottapanit, P., Limphirat, W., Wannapaiboon, S., 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
353	BL7.2: MX	Hazizi, M. H. Z., Salleh, M. A. A .M., Somidin, F., Zaimi, N. S. M., Nadzri, N. I. M., Kamonsuangkasem, K., Tanthanuch, W., Tancharakorn, S., Mothong, N. and Wannapaiboon, S.	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
354	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., Tunmee, S., Padchasri, J., Wannapaiboon, S., 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
355	BL7.2: MX	Kaewmuangphet, S., Phowang, P., Saiyasombat, C. 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
356	BL7.2: MX	Kao-ian, W., Tangthuam, P., Gopalakrishnan, M., Kidkhunthod, P., Wannapaiboon, S., Limphirat, W., Padchasri, J., 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
357	BL7.2: MX	Peng, P., Chen, Z., Chen, Q., Li, D., Song, L., Lu, J., Luo, Y., Li, K., Hu, K., Tunmee, S., Kidkhunthod, P., Wannapaiboon, S., 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
358	BL7.2: MX	Pongpiachan, P., Pripdeevech, P., Wannapaiboon, S., Thumanu, K., 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
359	BL7.2: MX	Samantarkun, N., Saisopa, T., Sirisaksoontorn, W., Kornnum, S., Iamprasertkun, P., Kamonsuangkasem, K., Limphirat, W. and Hirunpinyopas, W.	Interfacial Engineering of MoSe2/WSe2 Heterostructure for Highly Dispersed Ru Nanocluster Catalysts Enabling pH-Universal and Seawater Hydrogen Evolution	ACS Applied Energy Materials	Q1	5.5	Chemistry
360	BL7.2: MX	Shin, J., Li, H.-Y., Wu, Y., Park, K., Shin, J. W., Wannapaiboon, S., Limphirat, W., 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
361	BL7.2: MX	Tayraukham, P., Somteds, A., Pipattanachaiyanan, P., Suppaso, C., Kao-ian, W., Nijpanich, S., Loiha, S., Wannapaiboon, S., 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
362	BL7.2: MX	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 148 (2026): 21858-21870	Q1	15.7	Materials Science and Engineering
363	BL7.2: MX	Yimrattanabovorn, J., Khowattana, M., Wonglertarak, W., Nawong, S., Wichitsathian, B. and Jearanaikoon, N.	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
364	BL7.2: MX	Zaimi, N. S. M., Salleh, M. A. A. M., Aziz, M. S. A., Nadzri,N. I. M., Hazizi, M. Z., Kamonsuangkasem, K., Tanthanuch, W., Tancharakorn, S., Mothong, N. 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
365	BL8: XAS	Abubakar, H. M., Palasak, P., Jampaiboon, N., Tapia-Ruiz, N., Limphirat, W., Wannapaiboon, S., Sukmas, W. and Kasemchainan, J.	Experimental and Computational Investigation of Failure Evolution of β-MnO2 Cathode in Sodium-Ion Batteries	Materials Science and Engineering B 333 (2026): 119779	Q1	4.6	Materials Science and Engineering
366	BL8: XAS	Ahmed, A., Khampuanbut, A., Kidkhunthod, P., Limphirat, W., 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
367	BL8: XAS	Angnanon, A., Kothan, S., Damdee, B., Sarumaha, C.S., Intachai, N., Triamnak, N., Pakawanit, P., Phoovasawat, C., Busayaporn, W., Kim, H. J., Ruangtaweep, 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 249 (2026): 114117	Q2	3.3	Materials Science and Engineering
368	BL8: XAS	Boonchu, P., Kaewmuangphet, S., Saiyasombat, C., 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
369	BL8: XAS	Cao, J., Rao, X., Zhang, Y., Yang, X., Zhang, D., Lolupiman, K., Limphirat, W. 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
370	BL8: XAS	Chen, L., Liu, X., Zhao, F., Liu, Y., Yuan, D., Wang, Y., Zhu, Z., Limphirat, W., Pei, Y., Tian, F. Zhang, L.	Electronic Modulationof 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 22 (Jun 2026): e73450	Q1	12.1	Chemistry
371	BL8: XAS	Chainarong, K., Sangteantong, P., Donphai, W., Limphirat, W., Yigit, N., Rupprechter, G. and Chareonpanich, M.	Self-Cleaning Hydrophobic Interconnected Porous Silica Derived from Bagasse Ash for Oil Spill Remediation	Journal of Environmental Chemical Engineering 14 (2026): 124199	Q1	1.6	Environmental Science
372	BL8: XAS	Dai, Z., Zhang, X., Lolupiman, K., Yang, C., Woottapanit, P., Limphirat, W., Wannapaiboon, S., 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
373	BL8: XAS	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
374	BL8: XAS	Doungdej, K., Numpilai, T., Dolsiririttigul, N., Polsomboon, N., Limphirat, W., 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
375	BL8: XAS	Du, Z., Chotchaipitakkul, 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
376	BL8: XAS	Go, W., Senthil, R. A., Cherusseri, J., Kumar, A., Moon, C. J. Limphirat, W., 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

No.	Beamline	Author	Title	Source	Q	IF	Field
377	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
378	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
379	BL8: XAS	Huang, C., Zhang, G., Guo, H., Yang, L., Feng, Y., Man, Q., Zhang, Q., Li, C., Du, P., Limphirat, W., 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
380	BL8: XAS	Jariyasakoolroj, P., Phongtamrug, S., Pilasen, P., Limphirat, W. 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
381	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
382	BL8: XAS	Kaewmala, S., Kamma, N., Sujeera, P., Pornjira, P., Limphirat, W., 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
383	BL8: XAS	Kaewmuangphet, S., Phowang, P., Saiyasombat, C. 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
384	BL8: XAS	Kaewnuam, E., Yonphan, S., Borisut, P., Sarumaha, C. S., Busayaporn, W., 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
385	BL8: XAS	Kaewkhao, J., Wongwan, W., Reerong, K., Khondara, S., Boonin, K., Minh, P. H., Busayaporn, W., 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
386	BL8: XAS	Klysubun, W., Mahakot, S., Kaewsuwan, D., Bussayaporn, W. and Prietzel, 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
387	BL8: XAS	Krabao, P., Pleuksachat, S., Kamma, N., Puarsa, S., Kaewmaraya, T., Kaewmala, S., Limphirat, W. 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
388	BL8: XAS	Kulandaivel, T., Gopalakrishnan, M., Limphirat, W., 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
389	BL8: XAS	Kumar, S., Chinnadurai, D., Handoko, A. D., Ng, M. F., Wu, G., Wang, H., Aabdin,Z., Ghosh, T., Xing, Z., Wang, J., Busayaporn, W., Limphirat, W., 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
390	BL8: XAS	Lakhani, P., Kliengklao, K., Pratchayakul, C., Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., Limphirat, W., 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
391	BL8: XAS	Lee, Y., Rajan, A. P. S., Theerthagiri, J., Kumar, A., Limphirat, W., 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
392	BL8: XAS	Lee, D. H., Theerthagiri, J., Yodsin, N., Limphirat, W., 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
393	BL8: XAS	Lee, D. H., Theerthagiri, J., Yodsin, N., Junmon, P., Kumari, M. L. A., Limphirat, W., Song, J. K. 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
394	BL8: XAS	Lee, S., Theerthagiri, J., Pan, S. H., Limphirat, W., Jiang, J. C. and Choi, M. Y.	NiMo Dual-Atom Dimers on Pd Nanosheets for Selective C─H and C─C Bond Cleavage of Ethylene Glycol From Waste Plastics	Advanced Materials	Q1	26.8	Chemistry
395	BL8: XAS	Li, Z., Qiao, X., Zheng, H., Ma, X., Jiang, Y., Li, H., Qiu, L., Wan, H., Cai, J., Limphirat, W., 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
396	BL8: XAS	Lin, W., Zhou, K., Yang, C., Huang, H., Lan, J., Peng, H., Zheng, S., Jiao, T., Wang, S., Zheng, J., Limphirat, W., Huang, L., 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
397	BL8: XAS	Lolupiman, K., Yang, C., Woottapanit, P., Sukmas, W., Limphirat, W., 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
398	BL8: XAS	Maneewong, Y., Lakhani, P., Ratchahat, S., Sakdaronnarong, C., Limphirat, W., Rungtaweevoranit, 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 γ-Valerolactone	Green Chemistry 28, 16 (Apr 2026): 6936-3957	Q1	9.2	Chemistry
399	BL8: XAS	Maneewong, Y., Lakhani, P., Ratchahat, S., Sakdaronnarong, C., Assabumrungrat, S., Limphirat, W., 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 γ-Valerolactone	Journal of Materials Chemistry A 14 (2026): 19432-19453	Q1	9.5	Chemistry
400	BL8: XAS	Mitcharean, C., Kedsakon, K., Hasdin, O., Busayaporn, W., 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
401	BL8: XAS	Munthala, D., Raman, A., Sonklin, T., Buatip, N., Leuasoongnoen, P., Janphuang, P., Nijpanich, S., Klysubun, W., Chirawatkul, P., 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
402	BL8: XAS	Ntarisa, A. V., Khrongchaiyaphum, F., Wantana, N., Keawmon, T., Cheewasukhanont, W., Intachai, N., Saha, S., Sangwaranatee, N., Cho, J., Pakawanit, P., Phoovasawat, C., Felix, A. T., Ollotu, E. R., Kim, H. J., Kothan, S. and Kaewkhao, J.	Fast Timing Resolution and Scintillation Performances of Ce^{3+} Doped Gadolinium Phosphate Glasses for Radiation Detection Application	Ceramics International	Q1	5.6	Materials Science and Engineering
403	BL8: XAS	Nilmoung, S., Limphirat, W., Ausavasukhi, A. and Whangdee, P.	Cobalt-Doped Activated Carbon/V2O5 Composited Materials for Lithium-Ion Batteries	Journal of Materials Science	Q1	3.9	Materials Science and Engineering
404	BL8: XAS	Nilmoung, S., Limphirat, W., Mahakot, S. 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

No.	Beamline	Author	Title	Source	Q	IF	Field
405	BL8: XAS	Numpilai, T., Polsomboon, N., Jitapunkul, K., Limphirat, W., 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
406	BL8: XAS	Numpilai, T., Polsomboon, N., Dolsiririttigul, N., Limphirat, W., 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
407	BL8: XAS	Qin, Q., Jose, A. M., Rajaramakrishna, R., Busayaporn, W., Kaewkhao, J. and Goel, A.	Impact of V2O5 on the Dissolution Behavior of Sodium Aluminoborosilicate-Based Model Nuclear Waste Glass	International Journal of Applied Glass Science 17 (Jul 2026): e70046	Q2	2.5	Materials Science and Engineering
408	BL8: XAS	Rajan, A. P. S., Theerthagiri, J., Junmon, P., Limphirat, W., 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
409	BL8: XAS	Rattanachai, Y., Chavalekvirat, P., Rintramee, K., Pandech, N., Klinkla, R., Padchasri, J., Siriroj, S., Supruangnet, R., Busayaporn, W., Kidkhunthod, P., 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
410	BL8: XAS	Rittidach, T., Kuimalee, S., Bootchanont, A., Porjai,P., Wattanawikkam, C., Noonuruk, R., Ruttakorn, A., Amonpattaratkit, P., Pimsawat, A., Daengsakul, S. and Khamkongkaeo, 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
411	BL8: XAS	Saentho, A., Sricharoenvech, P., Prietzel, J., Klysubun, W. And Wisawapipat, W.	Calcium Speciation and Solubility in Tropical Agricultural Soil Clays	Applied Clay Science 276 (2025): 107912	Q1	5.8	Environmental Science
412	BL8: XAS	Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., Limphirat, W., Mahakot, S., Assabumrungrat, S. and Srifa, A.	Systematic Optimization of the Ni-to-Mo Ratio in Bimetallic Ni–Mo_2C Catalysts for Efficient Selective Hydrogenation of Levulinic Acid to γ-Valerolactone	Fuel Processing Technology 276 (Oct 2025): 108276	Q1	7.7	Chemistry
413	BL8: XAS	Sanni, A., Govindarajan, D., Selvaraj, M., Limphirat, W., 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
414	BL8: XAS	Sanni, A., Tipplook, M., Govindarajan, D., Khezri, R., Etesami, M., Aupama, V., Limphirat, W., Mohamad, A. A., Palaniyandy, N., Kheawhom, S. and Teshima, K.	Mechanistic Insight into Trimetallic Metal-Organic Frameworks: Bridging Structural Functionality and Electrochemical Dynamics in Ni@Zn/Co/BTC Hybrid Supercapacitors	Journal of Energy Storage 175 (2026): 123304	Q1	9.8	Materials Science and Engineering
415	BL8: XAS	Sarumaha, C. S., Kaewnuam, E., Chanthima, N., Busayaporn, W., Minh, P. H., Ruangtaweep, 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
416	BL8: XAS	Sarumaha, C. S., Kaewnuam, E., Kantuptim, P., Nishikawa, A., Kato,T., Yanagida, T., Kothan, S., Busayaporn, W., Pakawanit, P., Phoovasawat, C., Ruangtaweep, 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
417	BL8: XAS	Selvaraj, Y., Nangan, S., Gopalakrishnan, M., Venkattappan, A., Eswaramoorthy, N., Kao-ian, W., Limphirat, W., Yu, S. H. and Kheawhom, S.	Coupled Dielectric Polarization and Fe Redox Charge Storage in Ta2O5/ Bismuth Ferrite Heterostructures for Aqueous Supercapacitors	Journal of Alloys and Compounds 1080 (Sep 2026): 190516	Q1	6.3	Materials Science and Engineering
418	BL8: XAS	Shaltout, A. A., Ali, S. S., Das, G., Aquilanti, G., Imam, N. G., Almalawi, D. R., Tanthanuch, W., Tancharakorn, S. and Busayaporn, W.	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
419	BL8: XAS	Solehudin, M., Wengwirat, K., Promchana, P., Poo-arporn, Y., Limphirat, W., 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
420	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
421	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
422	BL8: XAS	Tangcharoen, T.	Photoluminescence Properties of CuO/ZnO Composite Powders as a Function of Their Composition	European Journal of Materials 6 (2026): 2694163	Q2	2.63	Materials Science and Engineering
423	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
424	BL8: XAS	Tapanya, M., Kothan, S., Htun, K. T., Wantana, N., Ruangtaweep, Y., Tariwong, Y., Intachai, N., Tungjai, M., Pakawanit, P., Phoovasawat, C., Busayaporn, W., Kim, H. J., Minh, P. H., Sangwaranatee, N. and Kaewkhao, J.	Ce^{3+}-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
425	BL8: XAS	Thongnoppakhun, N., Amnuaypanich, S., Tharat, B., Suthirakun, S., Kleebmek, T., Busayaporn, W., 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
426	BL8: XAS	Tirdtrakool, W., Kreethatorn, H., Sataman, P., Klysubun, W., Pornsuwan, S., Bunchuay, T. and Tantirungrotechai, 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
427	BL8: XAS	Wang, J., Chong, P., Limphirat, W., Wang, H., Busayaporn, W., 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
428	BL8: XAS	Wang, J., Tan, X. Y., Ng, M. F., Wu, G.,Yang, G., Ghosh, T., Lim, C. Y. J., Busayaporn, W., Limphirat, W., Kaewsuwan, D., 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
429	BL8: XAS	Wisawapipat, W., Saentho, A., Boontong, I., Sricharoenvech, P., Mahakot, S. and Klysubun, W.	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
430	BL8: XAS	Yan, K., Wu, B., Mu, Y., Luo, J., Tang, Z., Zhang, Q., Jiang, Y., Zhong, X., Limphirat, W., 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

No.	Beamline	Author	Title	Source	Q	IF	Field
431	BL8: XAS	Yang, C., Woottapanit, P., Hou, Q., Dai, Z., Limphirat, W., 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
432	BL8: XAS	Zhang, S., Gao, Z., Zhang, D., Lolupiman, K., Limphirat, W., 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
433	BL8: XAS	Zhang, D.,Yue, Y., Rao, X., Zhang, D., Limphirat, W., 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
434	BL8: XAS	Zhao, H., Noonuruk, R., Bootchanont, A., Porjai, P., Thongpool, V., Wattanawikkam, C., Pavasupree, S., Lakhonchai, A. and Pecharapa, W.	Synergistic Effects of Biomass-Derived Carbon Quantum Dots and Cu Co-Doping on TiO2 Nanocomposite for Enhanced Visible-Light Photocatalysis	Radiation Physics and Chemistry 249 (2026): 114203	Q2	3.3	Chemistry
435	Instrumentation	Kongmon, E., Wonglee, S., Pornroongruengchok, W., Khwansungnoen, P., Tangpong, K., Ngamlamiad, A., Komnoi, K., Sookchuay,T., Khurasi, A., Sangwang, W., Kittimanapun, K. and Thongjerm, P.	Design and Geant4 Simulation of an Energy Degrader System for PIXE and PIGE at the TINT Cyclotron Facility	Journal of Nuclear Science and Technology	Q2	1.7	Physics
436	Instrumentation	Phimsen, T., Sumklang, S., Sonsuphap, N., Seegauncha, O., Boonsuya, S., Chitthaisong, S., Prawanta, S., Sunwong, P., Sudmuang, P. and Klysubun, P.	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
437	Laboratory	Ali, Q., Boonsod, T., Boonkerd, K., Pornprasertsuk, R., Limphirat, W. 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
438	Laboratory	Ali, Q., Boonsod, T., Pornprasertsuk, R., Limphirat, W., 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
439	Laboratory	Boonkong, S., Laosam, P., Luasiri, P., Senanok, P., Tastub, S., 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
440	Laboratory	Choknud, S., Arthanareeswaran, K., Rungsarityotin, W., Beagbandee, C., Sanram, S., Kamonsutthipaijit, N., 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
441	Laboratory	Hamzeh, A., Saelee, L., Thumanu, K., 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
442	Laboratory	Kachenpukdee, N., Sinprachim, T., Lohalaksanadech, S., Toommuangpak, W., Rabpairee, K., Vasupen, E., Nawong, S. 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
443	Laboratory	Kanchanapiboon, J., Tuntoaw, S., Poonsatha, S., Maiuthed, A., Rukthong, P., Thumanu, K., 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
444	Laboratory	Khowamnuaychok, K., Luangchaisri, C. and Muangphat, C.	Enhancing the Uniformity of Bowl-Shaped Gold Nanoparticles Using a Dynamic System in an Electrochemical Microfluidic Chip	Nanomaterials 16 (2026): 640	Q1	4.3	Micro Nanotechnology
445	Laboratory	Kraithong, S., Shi, X., Rungraeng, N., Bunyameen, N., Jaisan, C., Suwanangul, S.,Tastub, S., 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
446	Laboratory	Keeratiburana, T., Tastub, S., 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
447	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
448	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
449	Laboratory	Phosri, S., Tastub, S., 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
450	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
451	Laboratory	Pongpiachan, P., Pripdeevech, P., Wannapaiboon, S., Thumanu, K., 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
452	Laboratory	Sinsuwan, S., Rodtong, S., Tanasupawat, S., Kanklang, E., Nawong, S. 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
453	Laboratory	Sintupattanapun, P., Namvichaisirikul, N.,Tongdee, P., Suwannobol, N., Thueng-in, K., Chueadet, A. and Tastub, S.	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

No.	Beamline	Author	Title	Source	Q	IF	Field
454	Laboratory	Sornsan, S., Thumanu, K., Siripattarapravat, 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
455	Laboratory	Tepnarong, P., Chio-Srichan , S., Phakdimek, S. and Chitnarin, A.	Rock control on evolution of Khorat Cuesta, Khorat UNESCO Geopark, Northeastern Thailand	Open Geosciences 17 (2025): https://doi.org/10.1515/geo-2025-0896	Q2	1.3	Earth Science and Archeology
456	Laboratory	Trasaktaweesakul, T., Asavaritikrai, P., Talabnin, K., Kongnawakul, D., Tastub, S., 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
457	Laboratory	Thumanu, K., Khamgasem, T., Sukpong, S., Phatthanakun, R., Puangplruk, R., Tanthanuch, W., Kuaprasert, B., Tastub, S., Rujanakraikarn, R., 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
458	Laboratory	Thumanu, K., Wattanavanitchakorn, S., Wansuksri, R., Cael, S., Nawong, S., Pakawanit, P. 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
459	Laboratory	Vasupen, E., Toommuangpak, W., Nawong, S., 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
460	Laboratory	Vasupen, E., Rabpairee, K., Toommuangpak, W., Sompeerapun, O., Chaiwong, U., Yuthachit, P., Kachenpukdee, N., Nawong, S. 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
461	MES	Borwornpornmetee, N., Noosawat, C., Saenchantha, T., Khuanpanya, T., Kaewsai, C., Srisom, K., Phatthanakun, P., Janphuang, P., Nakajima, H., Paosawatyanyong, B., Yoshitake, T. and Promros, N.	Impact of Argon Plasma Etching Duration on the Induced Oxidation Process and Physical Properties of Fe3Si Films	Vacuum 254 (2026): 115693	Q1	3.9	Surface, Interface and Thin Films
462	MES	Borwornpornmetee, N., Kardkaew, T., Sansit, R., Kaewsai, C., Srisom, K., Phatthanakun, P., Janphuang, P., Nakajima, H., Paosawatyanyong, B., Yoshitake, T. and Promros, N.	Induced Hydrophilicity and Oxidation of β-Iron Disilicide Films by Varying Ar Plasma Etching Durations	ACS Omega	Q1	4.3	Surface, Interface and Thin Films
463	MES	Chaiyachad, S., Jindata, W., Kaeowkhamchan, Y., Mooltang, A., Chuewangkam, N., Pinitsoontorn, S., Janphuang, P. 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
464	MES	Hamzi, A., Ouardas, L., Saleh, M., Leuasoongnoen, P., Sonklin, T., David, P., Denmat, S. I., Leynaud, O., Mossang, E., Fernandez, B., Pojprapai, S., Mornex, D. and Songmuang, R.	Low-Temperature Sputtering and Polarity Determination of Vertically Aligned ZnO Nanocolumns	ACS Applied Nano Materials 9 (2026): 11218-11226	Q1	5.5	Materials Science and Engineering
465	MES	Klinsuk, J., Sunongbua, P., Srisom, K., Janphuang, P. 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
466	MES	Sinchangreed, A., Watcharamaisakul, S. and Janphuang, P.	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
467	CSEc	Chotsawat, M., Saiyasombat, C., Busayaporn, W., 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
468	CSEc	Kotutha, I., Boonkaung, A., Busayaporn, W., 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
469	CSEc	Rattanachai, Y., Klinkla, R., Busayaporn, W., Kotutha, I., Waritkraikul, P. and Sailuam, W.	Electronic Structure and Optical properties of RE-doped $GdBO_3$ (RE = Tb3+, Ce3+, Eu3+) for X-Ray Scintillator Applications	Computational Materials Science 269 (May 2026): 114679	Q1	3.3	Micro Nanotechnology
470	CSEc	Waritkraikul, P., Ektarawong, A., Busayaporn, W., 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
471	AI	Lwin, E. H., Mongmonsin, U., Panyakaew, T., Khammanthool, S., Tonkanya, K., Kraiklang, R., Rachawangmuang, P., Chatchawal, P., Wongwattanakul, M., Phatthanakun, R. and Tippayawat, 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
472	AI	Phiphattanaphiphop , C., Leksakul , K., Phattanakun , R., 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

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No.	Beamline	Author	Title	Source	Q	IF	Field
1	BL1.2: XTM	Kaewkhao, J., Jarucha, N., Meejitpaisan, P., Kim, H. J., Valiev, D., Stepanov, S., Pakawanit, P., Phoovasawat, C., Intachai, N., Kothan, S., Nishikawa, A., Kunikata, T., Yanagida, T., Fujimoto, Y., Jeong, D. Y. and Ruangtaweep, Y.	Ce3+-Doped Calcium Sodium Aluminoborate Glasses under Photo-, Electron-, and Xray Excitations: Scintillation and X-ray Imaging Performances	Radiation Physics and Chemistry	Q2	3.5	Materials Science and Engineering
2	BL1.2: XTM	Khan, A.,. Tariwong, Y., Wantana, N., Khrongchaiyaphum, F., Keawmon, T., Abaker, M., Albargi, H. B., Pakawanit, P., Phoovasawat, C., Busayaporn, W., Kim, H. J., Cho, J. Y., Intachai, N., Minh, P. H., Kothan, S. and Kaewkhao, J.	Correlation Between the Cerium Oxidation State and Luminescence, Scintillation, and X-Ray Imaging Performance of Oxyhalide Phosphate Glasses	Ceramics International	Q1	6	Materials Science and Engineering
3	BL1.2: XTM	Tariwong, Y., Kothan, S., Kim, H. J., Quang, N. D., Khan, A., Truc, L. T. Intachai, N., Wantana, N., Pakawanit, P., Phoovasawat, C., Ruangtaweep,Y. and Kaewkhao, J.	Crystal Growth and Scintillation Performance of Sr co-Doped CsI:Na Single-Crystal for Radiation Detection	Radiation Physics and Chemistry	Q2	3.5	Physics

No.	Beamline	Author	Title	Source	Q	IF	Field
4	BL3.1: XPS	Noonuruk, R., Sriphatworakarn, P., Isran, N., Wattanawikkam, C., Porjai, P., Chaosuan, N., Promdee, S., Teeka, J., Kidkhunthod, P., Wechprasit, T., Ruttakorn, A., Chanamuangkon, T., Sailuam, W., Eknapakul, T., Busayaporn, W., Khamkongkaeo, A., Rittidach, T. and Bootchanont, A.	Mechanism and Role of Ag-Modified Calcium Phosphates Synthesized by Sol-Gel Combustion method: Theory and Experiment	Radiation Physics and Chemistry 250 (Jan 2027): 114332	Q2	3.5	Materials Science and Engineering
5	BL3.2U: PES/PEEM	Chananonnawathorn, C., Hincheeranan, W., Lertvanithphol, T., Limwichean, S., Nakajima, H., Songsiriritthigul, P., Muthitamongkol, P., Oros, C., He, Y., Meng, G., Nagashima, K., Aiempanakit, K. and Horprathum, M.	Nanostructure-enabled Electrochromic Modulation with Ta incorporation in W-Ta-O Nanorod Thin Films via Oblique Angle Co-Sputtering	Ceramics International	Q1	6	Surface, Interface and Thin Films
6	BL3.2U: PES/PEEM	Singh, S., Usulor, C. E., Ogbuagu, I. C., Passatorntaschakorn, P., Khampa, W., Musikpan, W., Ngamjarojana, A., Nakajima, H., Kumnorkaew, P., Kaewprajak, A., Lapawae, K., Sinthiptharakoon, K., Sukgorn, N., Ruankham, P. and Wongratanaphisan, D.	Acid Dissociation Constant-Guided Defect Passivation for Efficient Carbon-Based Planar n-i-p Perovskite Solar Cells	Applied Surface Science	Q1	6.6	Materials Science and Engineering
7	BL8: XAS	Kaewnuam, E., Damdee, B., Cheewasukhanont, W., Sarumaha, C. S., Angnanon, A., Busayaporn, W., Wantana, N., Ruangtaweep, Y., Kaewkhao, J.,	Effect of BaO on Ce3+/Ce4+ Ratio and Blue Luminescence of Na2O-K2O-B2O3-SiO2-CeO2/CeF3 Glasses	Radiation Physics and Chemistry 250 (Jan 2027): 114365	Q2	3.5	Materials Science and Engineering
8	BL8: XAS	Khan, A.,. Tariwong, Y., Wantana, N., Khrongchaiyaphum, F., Keawmon, T., Abaker, M., Albargi, H. B., Pakawanit, P., Phoovasawat, C., Busayaporn, W., Kim, H. J., Cho, J. Y., Intachai, N., Minh, P. H., Kothan, S. and Kaewkhao, J.	Correlation Between the Cerium Oxidation State and Luminescence, Scintillation, and X-Ray Imaging Performance of Oxyhalide Phosphate Glasses	Ceramics International	Q1	6	Materials Science and Engineering
9	BL8: XAS	Nguyen, Q. T., Tam, T. V., Thang, V. V., Nguyen, A. G. and Long, N. P.	Engineering Hierarchical Porosity in CNT–Graphene Supports to Boost Fe-N4 Accessibility and Power-Density of PEMFCs	Fuel 429 (Feb 2027): 141014	Q1	7.8	Chemistry
10	BL8: XAS	Noonuruk, R., Sriphatworakarn, P., Isran, N., Wattanawikkam, C., Porjai, P., Chaosuan, N., Promdee, S., Teeka, J., Kidkhunthod, P., Wechprasit, T., Ruttakorn, A., Chanamuangkon, T., Sailuam, W., Eknapakul, T., Busayaporn, W., Khamkongkaeo, A., Rittidach, T. and Bootchanont, A.	Mechanism and Role of Ag-Modified Calcium Phosphates Synthesized by Sol-Gel Combustion method: Theory and Experiment	Radiation Physics and Chemistry 250 (Jan 2027): 114332	Q2	3.5	Materials Science and Engineering

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	Kokkrathoke, S., Yachum, N., Juntong, N., Chunjarean, S., Manasatitpong, K., Nadeedanklang, J. and Bootiew, S.	Low-Level RF Control System Simulation for Celerator with PI Controllers	The 23rd International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON2026). 27 - 30 May, 2026 Chonburi, Thailand
5	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
6	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
7	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
8	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
9	Yan, T., Boonsuya, S., Jummunt, S., Klysubun, P., Kwankasem, A., Leetha, T., Phacheerak, W., Phimsen, T., Prawanta, S., Pulampong, T., Sudmuang, P., Sunwong, P. Chaijaroenmaitree, N. and Phochanasombut, K.	Pulsed Magnets Development for Thailand's SPS-II	The 17th International Particle Accelerator Conference (IPAC2026). 17-22 May, 2026, Deauville/ Normandy, France