# Fiscal Year 2025: International Journals

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 1 | BL1.1W: MXT | Bootchanont, A., Samerchue, S., Sipae, C., Zhao, H., Noonuruk, R., Porjai, P., Busayaporn, W., Wechprasit, T., Kansaard, T., Pecharapa, W., Thongpool, V., Wattanawikkam, C. and Sailuam, W., | Enhanced photocatalytic ability of CuO/Ni-doped TiO2 nanocomposite under visible light: Theory and Experiment | Radiation Physics and Chemistry 234 (Sep 2025): 112761 | Q2 | 2.8 | Chemistry |
| 2 | BL1.1W: MXT | Deewan, R., Tanboonchuy, V., Khamdahsag, P. and Yan, D. Y. S. | Utilization of Agricultural Waste: Mango Peels and Pineapple Crown Leaves as Precursors for Nanomaterial Production for Arsenate Remediation | Environmental Science and Pollution Research 32 (2025): 14508-14526 | Q1 | 6.23 | Environmental Science |
| 3 | BL1.1W: MXT | Dong, C., Yu, Y., Ma, C., Zhou, C., Wang, J., Gu, J., Ji, J., Yang, S., Liu, Z., Xu., X. and Mai, L. | Tailoring Zinc Diatomic Bidirectional Catalysts Achieving Orbital Coupling–Hybridization for Ultralong-Cycling Zinc–Iodine Batteries | Energy & Environmental Science 18 (2025); 3014-3025 | Q1 | 32.4 | Materials Science and Engineering |
| 4 | BL1.1W: MXT | Fitriana, F., Asih, R., Baqiya, M. A., Kamonsuangkasem, K. and Suasmoro, S. | Analysis of Electronic Configuration and Spin State Driving to Magnetic Properties of La2xBa0.5-xSr0.5-xFe0.9Ni0.1O3-δ (x = 0, 0.25) | Journal of Alloys and Compounds 1023 (Apr 2025): 180139 | Q1 | 5.8 | Materials Science and Engineering |
| 5 | BL1.1W: MXT | Hariyanto, B., Ely, S., Hilmi, A. R., Wannapaiboon, S., Kamonsuangkasem, K., Saiyasombat, C., Holilah, Purwaningsih, S. Y., Baqiya, M. A., Asih, R. and Pratapa, S. | Thermal-Induced Structural Behavior in CaO-Doped ZrO2 Nanocrystals: A High-Temperature Synchrotron XRD and XAS Study | Nano-Structures & Nano-Objects 42 (2025): 101470 | Q1 | 9.2 | Materials Science and Engineering |
| 6 | BL1.1W: MXT | Henjongchom, N., Ruengsrisang, W., Soe, K. T., Kayunkid, N., Thongprong, N., Ketsombun, E., Chanlek, N., Supruangnet, R., Saiyasombat, C., Rujisamphan, N., Supasai, T. | Cesium Moderation and Structural Transformation on α-CsPbI2Br Perovskite Durability via Cation Retarding Migration: A Combined Simulation and Experimental Study | Solar Energy 288 (Mar 2025): 113290 | Q1 | 6 | Materials Science and Engineering |
| 7 | BL1.1W: MXT | Ilmi, M. M., Maryanti, E., Tjan, I. P., Oktaviana, A. A., Masud, Z., Saiyasombat, C. and Noerwidi, S. | The First Insight to Materiality of Rock Art Pigments from Western Papua Region (Berau Gulf, Fakfak) | Archaeol Anthropol Science 17 (2025): https://doi.org/10.1007/s12520-025-02168-9 | Q1 | 2.1 | Earth Science, Archeology and Gemology |
| 8 | BL1.1W: MXT | Inchongkol, Y., Saothayanun, T. K., Adpakpang, K., Phongsuk, N., Impeng, S., Kosasang, S., Ma, N., Horike, S., and Bureekaew, S. | Tuning Electronic and Proton Transfer Properties on Amino-Functionalized Co-Based MOF for Efficient Photocatalytic Hydrogen Evolution | ACS Applied Materials & Interfaces 16 (2024): 64138-64645 | Q1 | 8.5 | Chemistry |
| 9 | BL1.1W: MXT | Jaiswal, A., Sakharov, K. A., Lekina, Y., Kamonsuangkasem, K., Tomm, Y., Wei, F. and White, T. J. | High-Temperature Polymorphism and Band-Gap Evolution in BaZrS3 | Inorganic Chemistry Journal 63 (2024): 24157-24166 | Q1 | 4.3 | Materials Science and Engineering |
| 10 | BL1.1W: MXT | Jutimoosik, J., Nunocha, P., Chirawatkul, P., Suriwong, T.and Bongkarn, T. | Effect of La Concentration on Phase Formation, Local Structure and Optical Properties of Sr1-xLaxTiO3 Nanoparticles | Radiation Physics and Chemistry 227 (Feb 2025): 112400 | Q2 | 2.8 | Physics |
| 11 | BL1.1W: MXT | Kamma, N., Banlusan, K., Aranmala, K., Tamwattana, O., Limphirat, W., Saiyasombat, C., Nash, J., Limthongkul, P.and Meethong, N. | Prelithiation Mechanism of Silicon Anodes through the Interfacial Destabilization of Lithium Hydride | ACS Applied Energy Materials 7 (2024): 11775-11786 | Q1 | 5.5 | Materials Science and Engineering |
| 12 | BL1.1W: MXT | Kao-ian, W., Sangsawang, J., Gopalakrishnan, M., Wannapaiboon, S., Watwiangkham, A., Jungsuttiwong, S., Theerthagiri, J., Choi, M. Y. and Kheawhom, S. | Preinserted Ammonium in MnO2 to Enhance Charge Storage in Dimethyl Sulfoxide Based Zinc-Ion Batteries | ACS Applied Materials & Interfaces 16 (2024): 56926-56934 | Q1 | 8.3 | Materials Science and Engineering |
| 13 | BL1.1W: MXT | Kiatwisarnkij, N., Song, Z., Tangpongkijjaroen, C., Wannapaiboon, S., Zhang, X., Wangyao, P. and Qin, J. | Texturing (002)-Oriented Zinc atop a Cotton Cloth for High-Performance Zn-ion Batteries | Batteries & Supercaps (2025): e202400727 | Q1 | 5.07 | Materials Science and Engineering |
| 14 | BL1.1W: MXT | Liu, Y., Peng, W., Ma, H., Tian, J., Wang, K., Zheng, Z., Xu, L. and Ding, Y. | Tailoring Electrocatalytic Ov-NiOOH by Regulating the Reconstruction in Ni-Based Metal–Organic Frameworks with Highly Asymmetric Ni–O Coordination | ACS Applied Materials & Interfaces 17 (2025): 19806-19817 | Q1 | 4.4 | Chemistry |
| 15 | BL1.1W: MXT | Maneesard, P., Somsongkul, V., Chirawatkul, P., Saiyasombat, C., Vannier, R. N. and Kongmark, C. | Flexible Ni-Based Bimetallic Spinel Oxide (NiM2O4, M = Mn, Fe, Co) Electrodes for Supercapacitor Applications | Physica Status Solidi (A) Applications and Materials Science 221 (Dec 2024): 2400003 | Q2 | 1.9 | Materials Science and Engineering |
| 16 | BL1.1W: MXT | Nganglumpoon, R., Poolboon, K., Sitiputa, P., Pinthong, P., Pornrungroj, C., Szilagyi, P. A., Liu, Y., Xi, S., Praserthdam, S., Sukserm, A., Pinsook, U., Wu, K. C. W. and Panpranot, J. | Room-Temperature Generation and Transformation of Graphitic CQDs into Mixed sp2–sp3 Hybridized Carbon Allotropes from Liquid Oxygenates | Nanoscale 17 (2025): 20057-20073 | Q1 | 5.8 | Materials Science and Engineering |
| 17 | BL1.1W: MXT | Nguanthaisong, M., Terakulsatit, B., Setwong, W. and Phoovasawat, C. | Deterioration of Reinforced Concrete Strucutres Due to Chloride Exposure in Water: A Case Study, Thailand | International Journal of GEOMATE 28 (Feb 2025): 1-7 | Q3 | 1.15 | Materials Science and Engineering |
| 18 | BL1.1W: MXT | Ngokpho, B., Janphuang, P., Nijpanich, S. Chanlek, N., Wannapaiboon, S., Siritanon, T. and Ngamchuea, K. | Halide-Mediated Electrochemical Modification of Copper Phthalocyanine for Humidity Sensing Applications | Materials Advances 6 (2025): 658-669 | Q1 | 5.2 | Materials Science and Engineering |
| 19 | BL1.1W: MXT | Obrom, W., Yingyuen, W., Nanmong, T., Deekamwong, K., Tawachkultanadilok, P., Wittayakun, J., Prayoonpokarach, S., Poo-arporn, Y., Föttinger, K., Desaulniers, J. P. and Loiha, S. | Investigating the Role of Zeolite Supports in Ni-Based Catalysts for CO2-Methanation Using in Situ/Operando XAS–MS. | Microporous and Mesoporous Materials 390 (May 2025): 113548 | Q1 | 4.8 | Chemistry |
| 20 | BL1.1W: MXT | Phongsuk, N., Adpakpang, K., Pukdeejorhor, L., Atithep, T. and Bureekaew, S. | Electrochemically Created Active Centers in a Bimetallic CoNi-Triazole Metal-Organic Framework for Enhanced Oxygen Evolution Reaction Activity | ChemPlusChem 89 (2024): e202400423 | Q1 | 3 | Chemistry |
| 21 | BL1.1W: MXT | Piyanuch, P., Santatiwongchai, J., Impeng, S., Kamkaew, A., Wannapaiboon, S. and Chansaenpak, K. | Fluorometric Detection of Hg2+ via Metal Displacement of BODIPY-Fe(III) Complex in Aqueous Media | Journal of Photochemistry and Photobiology A: Chemistry 463 (Jun 2025): 116291 | Q2 | 4.1 | Chemistry |
| 22 | BL1.1W: MXT | Rittisut, W., Manyum, P., Wantana, N., Ruangtaweep, Y., Kirdsiri, K., Rujirawat, S., Kamonsuangkasem, K., Yimnirun, R., Prasatkhetragarn, A., Intachai, N., Kothan, S., Kim, H. J. and Kaewkhao, J. | Green Chemistry Preparation and Characterization of Borosilicate Glass Doped with Dysprosium using Degraded Silica Gel for White-Light Emission | Radiation Physics and Chemistry 229 (Apr 2025): 112483 | Q2 | 2.8 | Materials Science and Engineering |
| 23 | BL1.1W: MXT | Saothayanun, T. K., Inchongkol, Y., Weeranoppanant, N., Kondo, M., Ogawa, M. and Bureekaew, S. | Self-Shuttle-Mediated Electron Transfer to Boost Photocatalytic Hydrogen Production of Co–Zn Bimetallic MOF | Journal of Materials Chemistry A 12 (2024): 26743-26748 | Q1 | 10.7 | Chemistry |
| 24 | BL1.1W: MXT | Senamart, N., Yingyuen, W., Obrom, W., Nanmong, T., Budsombat, S., Wittayakun, J., Prayoonpokarach, S. and Loiha, S. | Improving the Efficiency of Cr(VI) Reduction and Adsorption by Fe3O4 Using ZSM-5 Zeolite Support Prepared Through Various Methods | RSC Advances 15 (Feb 2025): 5808-5821 | Q1 | 3.9 | Environmental Science |
| 25 | BL1.1W: MXT | Siri-apai, P., Yaemphutchong, S., Suetrong, N., Suesuwan, A., Choophun, N., Wannapaiboon, S., Rodchanarowan, A., Chansaenpak, K., Aroonrote, N., Hanlumyuang, Y., Hanlumyuang, Y. and Wattanathana, W. | Reduction of 4-Nitrophenol to 4-Aminophenol by Reusable CuFe5O8-Based Catalysts Synthesized by Co-Precipitation Method | Molecules 30 (2025): 777 | Q1 | 4.2 | Materials Science and Engineering |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 26 | BL1.1W: MXT | Somteds, A., Tayraukham, P., Pipattanachaiyanan, P., Kao-ian, W., Wannapaiboon, S., Loiha, S., Sukpirom, N., Suttipong, M., Guo, J., Kheawhom, S. and Unruangsri, J. | CO2-Derived Polymeric Double-Network Hydrogel Electrolyte for Zinc-Ion Batteries | ACS Sustainable Chemistry & Engineering 13 ( 2025): 9974-9986 | Q1 | 7.1 | Materials Science and Engineering |
| 27 | BL1.1W: MXT | Sriphumrat, K., Harnkar, P., Pimu, S., Jansuda, W., Yodsin, N., Arayachukiat, S. and Kongpatpanich, K. | Dual Accessible Binding Sites in Amorphous Metal-Organic Framework for High Arsenic and Mercury Removal Efficiency | Chemistry - An Asian Journal 20 (Jul 2025): e202401519 | Q1 | 3.5 | Environmental Science |
| 28 | BL1.1W: MXT | Suwannaruang, T., Wantala, K., Shivaraju, H. P., Shahmoradi, B., Kidkhunthod, P., Chanlek, N., Nijpanich, S., Chirawatkul, P. and Saiyasombat, C. | Visible-Light-Driven Photodegradation of Pt-Derivative Anticancer Drug Carboplatin Over La-Fe-Modified SrTiO3 with Simultaneous Doping and Enhanced Pt-Photodeposited Catalyst | Journal of Water Process Engineering 71 (Mar 2025): 107387 | Q1 | 6.3 | Environmental Science |
| 29 | BL1.1W: MXT | Tan, Y. P., Salleh, M. A. A. M., Sauli, Z., Somidin, F., Kamonsuangkasem, K., Tancharakorn, S., Tantanuch, W., Nakajima, H. and Nogita, K. | Role of Ag Additions on Microstructure, Phase Transformation and Thermal Reactions of In-35Sn Alloys | Journal of Materials Science: Materials in Electronics 36 (2025): 1649 | Q2 | 2.8 | Materials Science and Engineering |
| 30 | BL1.1W: MXT | Tangthuam, P., Wannapaiboon, S., Kidkhunthod, P., Chen, J. L., Chang, C. C., Pao, C. W., Zijdemans, P. A., Yonezawa, T., Suttipong, M. and Kheawhom, S. | Innovative pH-Buffering Strategies for Enhanced Cycling Stability in Zinc–Iodine Flow Batteries | Journal of Materials Chemistry A. 12 (2024): 29513-29525 | Q1 | 10.7 | Materials Science and Engineering |
| 31 | BL1.1W: MXT | Trakulmututa, J., Weerasuk, B., Sataman, P., Chutimasakul, T., Kamonsuangkasem, K., Smith, S. M., Sirisit, N. and Sangtawesin, T. | Gamma-Irradiation Assisted Synthesis of Nickel-Cobalt Oxide Composites: Crystal Structure Dependency for Supercapacitor Efficiency | Journal of Alloys and Compounds 1014 (Feb 2025): 178736 | Q1 | 5.8 | Materials Science and Engineering |
| 32 | BL1.1W: MXT | Wechprasit, T., Bootchanont, A., Infahsaeng, Y., Wongjom, P., Wannapaiboon, S., Kaewprajak, A., Kumnorkaew, P., Sailuam, W., Saenrang, W., Pecharapa, W. and Maiaugree, W. | Characterization of Bi-Doped FAPbI3 Perovskite Films Investigated by X-ray Absorption Spectroscopy | Scientific Reports 15 (2025): 18351 | Q1 | 3.8 | Materials Science and Engineering |
| 33 | BL1.1W: MXT | Yaemphutchong, S., Singkammo, S., Suetrong, N., Jantaratana, P., Chanseanpak, K., Chuewongkam, N., Pinitsoontorn, S., Panomsuwan, G., Chaiamart, N., Hanlumyuang, Y., Wannapaiboon, S. and Wattanathana, W. | Effects of Sm3+ Doping on Magnetic and Electrical Properties of Ternary Cobaltite Spinels | Ceramics International 51 (Jul 2025): 26811-26820 | Q1 | 5.1 | Materials Science and Engineering |
| 34 | BL1.1W: MXT | Zaimi, N. S. M., Salleh, M. A. A. M., Aziz, M. S. A., Nadzri, N. I. M., Baser, M. F. H., Tanthanuch, W., Tancharakorn, S., Mothong, N. and Khor, C. Y. | Microstructure Refinement, Thermal Stability and Mechanical Properties Improvements of Sn-3.0Ag-0.5Cu-xSb | Materials Characterization 227 (Sep 2025): 115324 | Q1 | 5.5 | Materials Science and Engineering |
| 35 | BL1.2: XTM | Arokiasamy, P., Abdullah, M. M. A. B., Arifi, E., Razak, R. A., Rojviriya, C., Mydin, M. A. O., Sandu, A. V., Yaacob, N. A. and Mohamed, R. | Hydroxyapatite Incorporated Geopolymer Porous Adsorbent for Efficient Removal of Copper Ions and Ciprofloxacin | Journal of the American Ceramic Society 108 (Sep 2025): e20618 | Q1 | 3.5 | Environmental Science |
| 36 | BL1.2: XTM | Chansawang, N., Roddee, J., Pakawanit, P., Borikul, N. and Khangjoho, S. | Foregut Structure and Physiology of Brown Planthopper, Nilaparvata lugens (Stål), Unveiled via Synchrotron Radiation X-ray Tomography | Diagnostic Pathology | Q2 | 2.4 | Biological and Life Science |
| 37 | BL1.2: XTM | Chaiwithee, S., Kochchapong, K., Keereemasthong, T., Rachtanapun, P., Jantanasakulwong, K., Suhr, J., Sawangrat, C. and Wattanachai, P. | Enhanced Cement Properties Through Plasma-Activated Water: Exploring Hydration Kinetics and Microstructural Refinement | Journal of Materials Research and Technology 37 (Jul-Aug 2025): 4100-4112 | Q1 | 6.6 | Materials Science and Engineering |
| 38 | BL1.2: XTM | Chungyampin, S., Charerntanom, W., Pakawanit, P., Paradee, N. and Niamlang, S. | Humidity-Responsive Actuators of Synthesized Graphene Oxide/Gelatin Composite Hydrogels: Effect of Oxidation Degree of Graphene Oxide | Sensors and Actuators A: Physical 380 (Dec 2024); 116032 | Q1 | 4.1 | Physics |
| 39 | BL1.2: XTM | Hajra, S., Kaja, K. R., Panda, S., Belal, M. A., Panigrahi, B. K., Pakawanit, P. and Kim, H. J. | Waste Based Triboelectric Nanogenerator for Energy Harvesting and Self-Powered Sensors | Journal of Cleaner Production 509 (Jun 2025): 145591 | Q1 | 9.8 | Materials Science and Engineering |
| 40 | BL1.2: XTM | Junyusen, T., Sonsomboonsuk, S., Junyusen, P., Chatchavanthatri, N., Nawong, S., Kamonsutthipaijit, N. and Pakawanit, P. | Ultra-Low Hydrostatic Pressure: A Novel Approach to Producing High-Quality Germinated Brown Rice Puffs | LWT - Food Science and Technology 226 (Jun 2025): 117981 | Q1 | 6 | Food and Agricultural Science |
| 41 | BL1.2: XTM | Kaja, K. R., Hajra, S., Panda, S., Belal, M. A. Pakawanit, P., Vittayakorn, N., Bowen, C., Khanbareh, H. and Kim, H. J. | Triboelectrification Based on the Waste Waterproof Textiles for Multisource Energy Harvesting | Advanced Sustainable Systems 9, 5 (May 2025): 2400678 | Q1 | 6.28 | Materials Science and Engineering |
| 42 | BL1.2: XTM | Khamkongkaeo, A., Wongrakpanich, A., Chanamuangkon, T., Chayanun, S., Rojviriya, C., Pimsawat, A., Vongpramate, D., Bootchanont, A., Sailuam, W., Boccaccini, A. R. and Lohwongwatana, B. | Effect of Vacancies on Blue-Colored Calcium Phosphate Scaffolds Derived from Nile Tilapia Bone Powder | Scientific Reports 15 (2025): 24058 | Q1 | 3.8 | Medical Applications |
| 43 | BL1.2: XTM | Khan, M. J., Karim, Z., Pakawanit, P., Supruangnet, R., Pongchaikul, P., Posoknistakul, P., Laosiripojana, N.,. Wu, K. C. W. and Sakdaronnarong, C. | TEMPO-Oxidized and Carbon Dots Bound Cellulosic Nanostructured Composite for Sustainable Fully Biobased Membranes for Separation of Nano/micro-Sized Particles/Molecules | Biomass and Bioenergy 197 (Jun 2025): 107798 | Q1 | 5.8 | Materials Science and Engineering |
| 44 | BL1.2: XTM | Khezri, R., Motlagh, S. R., Etesami, M., Pakawanit, P., Olaru, S., Somwangthanaroj, A. and Kheawhom, S. | Balancing Current Density and Electrolyte Flow for Improved Zinc-Air Battery Cyclability | Applied Energy 376 (Dec 2024) 124239 | Q1 | 2.82 | Materials Science and Engineering |
| 45 | BL1.2: XTM | Khezri, R., Motlagh, S. R., Etesami, M., Pakawanit, P., Limphirat, W., Kidkhunthod, P., Kamchompoo, S., Jungsuttiwong, S., Olaru, S. and Kheawhom, S. | Tuning Zinc Deposition Chemistry: The Role of Barium Nitrate in Enhancing Zinc-Air Battery Longevity | Chemical Engineering Journal 519 (Sep 2025): 165752 | Q1 | 13.2 | Materials Science and Engineering |
| 46 | BL1.2: XTM | Khaing, E. M., Puyathorn, N., Yodsin, N., Phonarwut, N., Thammasut, W., Rojviriya, C., Pichayakorn, W., Phattarateera, S. and Phaechamud, T. | Development and Evaluation of Cellulosic Esters Solvent Removal-Induced In Situ Matrices for Loading Antibiotic Drug for Periodontitis Treatment | Polymers 17 (2025): 1551 | Q1 | 4.7 | Medical Applications |
| 47 | BL1.2: XTM | Kingkam, W., Issarapanacheewin, S., Ukasi, S., Pulphol, P., Pakawanit, P., Vittayakorn, N., Pongampai, S. and Charoonsuk, T. | Rare Earth Oxide Dielectrics for Flexible Triboelectric Nanogenerator | Suranaree Journal of Science and Technology 32, 1 (Jan-Feb 2025): 030286 | Q4 | 0.124 | Materials Science and Engineering |
| 48 | BL1.2: XTM | Kitsawat, V., Siri, S., Pakawanit, P. and Phisalaphong, M. | Improved Electrical Conductivity and Mechanical Properties of Natural Rubber Composite Films by Incorporating Graphite and Chitosan | Journal of Applied Polymer Science (2025): e57497 | Q2 | 2.8 | Polymers |
| 49 | BL1.2: XTM | Kochchapong, K., Wattanachai, P., Chaiwithee, S., Keereemasthong, T., Rachtanapun, P., Jantanasakulwong, K., Suhr, J. and Sawangrat, C. | Accelerating Strength Development Through Pozzolanic Activity in Hydrated Fly-Ash Cement Using Plasma-Activated Water | Journal of Materials Research and Technology 36 (May-Jun 2025): 5332-5340 | Q1 | 6.2 | Materials Science and Engineering |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 50 | BL1.2: XTM | Mohsom, P., Suktep, N., Sae-Tang, C., Pongampai, S., Pakawanit, P., Bongkarn, T., Chiu, T. W., Maluangnont, T., Charoonsuk, T. and Vittayakorn, N. | Synergistic Integration of MgAl-LDH Nanosheets into Bacterial Cellulose for High-Performance Triboelectric Nanogenerators | ACS Sustainable Chemistry & Engineering 13 (2025): 12094-12109 | Q1 | 7.1 | Materials Science and Engineering |
| 51 | BL1.2: XTM | Navatragulpisit, S., Saetang, C., Mohsom, P., Sriphan, S., Pakawanit, P., Hajra, S., Kim, H. J., Ukas, S., Vittayakorn, N. and Charoonsuk, T. | Hybrid Textile Nanogenerators Based on Cotton-PANI/CNT Composites for Simultaneous Harvesting of Mechanical and Thermal Energy | ACS Applied Energy Materials 8, 11 (2025): 7622-7635 | Q1 | 5.5 | Micro Nanotechnology |
| 52 | BL1.2: XTM | Navatragulpisit, S., Krailadsiriattna, P., Khwanming, R., Pongampai, S., Plaipichit, S., Wicharn, S., Pakawanit, P., Vittayakorn, U. and Charoonsuk, T. | Designing Weaving Pattern and Engineering Multillayer Structure of Nylon-acrylic Fabric Utilizing in Triboelectric Nanogenerator | Suranaree Journal of Science and Technology 32 (May-Jun 2025): 030301 | Q4 | 0.2 | Micro Nanotechnology |
| 53 | BL1.2: XTM | Osman, M. S., Ismail, M., Khairudin, K., Fathullah, M., Rojviriya, C., Bakar, N. F. A., Radzi, M. R. M. and Isa, N. | Concise Review of Light-Driven Micromotor Synthesis and its Environmental Applications | Archives of Metallurgy and Materials 69 (2024): 1277-1282 | Q3 | 0.7 | Environmental Science |
| 54 | BL1.2: XTM | Padchasri, J., Siriroj, S., Montreeuppathum, A., Pakawanit, P., Laorodphan, N., Chanlek, N., Poo-arporn, Y. and Kidkhunthod, P. | Li-S-B Glass-Ceramics: A Novel Electrode Materials for Energy Storage Technology | Materials Science for Energy Technologies 8 (2025): 111–120 | Q1 | 6.77 | Materials Science and Engineering |
| 55 | BL1.2: XTM | Phahom, T., Soubsub, K., Sangsarn, P., Masavang, S., Roudaut, G., Rojviriya, C. and Phoungchandang, S. | Comparative Study of Convective and Intermittent Microwave Drying of Red Water Lily (Nymphaea × rubra) Rhizomes: Drying Behavior, Microstructural Changes and Drying Effects on Thermal, Antioxidant and Adsorption Properties | Journal of Food Process Engineering 48, 6 (Jun 2025): e70150 | Q2 | 2.7 | Food and Agricultural Science |
| 56 | BL1.2: XTM | Poowancum, A., Rukkachat, K., Pakawanit, P., Ponchio, C., Khumkoa, S. and Chokkha, S. | Study on Consistency and Density of Titanium Dioxide and Tungsten Trioxide Coatings on Conductive Glass from Dipping Process Affecting Light Absorption and Transmission | Suranaree Journal of Science and Technology 32, 2 (Mar-Apr 2025): 030279 | Q4 | | Materials Science and Engineering |
| 57 | BL1.2: XTM | Preedanon, S., Klaysuban, A., Suetrong, S., Pracharoen, O., Promchoo, W., Sangtiean, T., Rojviriya, C. and Sakayaroj, J. | Morphological, Molecular and 3D Synchrotron X-ray Tomographic Characterizations of Helicascus Satunensis sp. nov., a Novel Mangrove Fungus | PeerJ. 12 (2024): e18341 | Q1 | 3.8 | Biological and Life Science |
| 58 | BL1.2: XTM | Praoboon, N., Siriroj, S., Padchasri, J., Pakawanit, P., Maitarad, P., Kheawhom, S. and Kidkhunthod, P. | Toward Sustainable Flexible Energy Storage: Green Fabrication of Screen-Printed flexible Zn–MnO2/rGO/MWCNT Battery | Journal of Alloys and Compounds 1035 (Jul 2025): 181606 | Q1 | 5.8 | Materials Science and Engineering |
| 59 | BL1.2: XTM | Rachniyom, W., Intachai, N., Kothan, S., Wantana, N., Sarumaha, C. S., Pakawanit, P., Phoovasawat, C., Phongsa, A., Yasaka, P., Thanyaphirak, W., Kanjanaboos, P., Kim, H. J., Chanlek, N. and Kaewkhao, J. | Fabrication of Eu2O3 Doped in High Density and Transparent Silicoborate Scintillating Glass for Synchrotron X-ray Radiographic Imaging Application | Ceramics International 51, 16 (Jun 2025): 22653-22662 | Q1 | 5.1 | Materials Science and Engineering |
| 60 | BL1.2: XTM | Riou, C., Sinpru, P., Suwanvichanee, C., Kamkrathok, B., Phoovasawat, C., Rojviriya, C., Molee, W. and Molee, A. | Effect of Precursor Amino Acids for Carnosine Synthesis on Breast Fiber Microstructures and Myofiber Differentiation-Related Gene Expression in Slow-Growing Chicken | Animal Bioscience 37 (Nov 2024): 1834-1847 | Q1 | 2.4 | Food and Agricultural Science |
| 61 | BL1.2: XTM | Siritapetawee, J., Hua, Y., Talabnin, C., Naewwan, N., Charoenwattanasatien, R., Phoovasawat, C., Srichan, S. and Kantachot, C. | Potential for Application of Direct Thrombin Inhibitors Isolated from Euphorbia Resinifera O.Berg Latex in Fibrin Clot Formation | Journal of Chromatography B 1253 (Mar 2025): 124480 | Q2 | 2.8 | Medical Applications |
| 62 | BL1.2: XTM | Saichompoo, K., Kingkam, W., Issarapanacheewin, S., Ukasi, S., Pongampai, S., Pakawanit, P., Limsuwan, P., Vittayakorn, N. and Charoonsuk, T. | Effective Rare-Earth Dielectric Addition and Gamma Ray Irradiation for Achieving Highly Efficient PDMS Triboelectric Nanogenerator | Radiation Physics and Chemistry 227 (Feb 2025): 112330 | Q2 | 2.8 | Earth Science, Archeology and Gemology |
| 63 | BL1.2: XTM | Sarumaha, C. S., Kantuptim, P., Yanagida, T., Intachai, N., Kothan, S., Kim, H. J., Busayaporn, W., Pakawanit, P., Phoovasawat, C., Kaewnuam, E. and Kaewkhao, J. | The Effect of Calcium and Barium Fluoride on CeF3 Doped in Gadolinium Phosphate Scintillating Glass | Ceramics International 51 (Jul 2025): 22955-22966 | Q1 | 5.1 | Materials Science and Engineering |
| 64 | BL1.2: XTM | Somboon, S., Schlichenmaier, S., Thumanu, K., Pakawanit, P., Yodda, S., Sukitprapanon, T. and Lawongsa, P. | Transformations in Physicochemical Properties and Pore Structure of Biochar Derived from Rice Straw Revealed by Synchrotron Techniques | Scientific Reports 15 (2025): 23641 | Q1 | 3.8 | Environmental Science |
| 65 | BL1.2: XTM | Suppanucroa, N., Yoopensuk, W., Pimoei, J., Thanapong-a-morn, W., Kao-Ian, W., Pakawanit, P., Mahlendorf , F., Kheawhom , S. and Somwangthanaroj, A. | Enhanced Long-Term Stability of Zinc-Air Batteries Using a Quaternized PVA-Chitosan Composite Separator with Thin-Layered MoS2 | Electrochimica Acta 510 (Jan 2025): 145361 | Q1 | 5.5 | Materials Science and Engineering |
| 66 | BL1.2: XTM | Suppanucroa, N., Yoopensuk, W., Thanapong-a-morn, W., Rukkachat, K., Pakawanit, P., Wu, H. L., Mahlendorf, F., Balz, L., Kheawhom, S. and Somwangthanaroj, A. | Quaternized PVA-MoS2 Composite Separator: Enhancing Long-Term Stability and Ion Transport in Secondary Zinc-Air Batteries | Journal of Energy Storage 121 (Jun 2025): 116497 | Q1 | 8.9 | Materials Science and Engineering |
| 67 | BL1.2: XTM | Sriphan, S., Worathat, S., Pakawanit, P., Hajra, S., Kim, H. J. and Vittayakorn, N. | Tribovoltaic Performance of the Schottky Contact between Metal and PZT Ceramic | Ceramics International 50 (Dec 2024): 52067-52074 | Q1 | 5.1 | Materials Science and Engineering |
| 68 | BL1.2: XTM | Tariwong, Y., Kim, H.J., Quang, N. D., Khan, A., Daniel, D. J., Limsuwan, P., Wantana, N., Pakawanit, P.,Vittayakorn, N., Intachai, N., Kothan, S. and Kaewkhao, J. | Ca Co-Doped CsI(Tl) Crystal Scintillator for γ- and X-ray Detecting Applications | Radiation Physics and Chemistry 226 (Jan 2025): 112241 | Q2 | 2.8 | Physics |
| 69 | BL1.2: XTM | Thammasut, W., Senarat, S., Tuntarawongsa, S., Narakornwit, W., Rojviriya, C., Pichayakorn, W., Phaechamud, T. | Development of Benzydamine HCl Loaded-Cellulose Acetate Butyrate in Situ Forming Gels for Periodontal Treatment | Journal of Drug Delivery Science and Technology 101 (Nov 2024): 106147 | Q1 | 4.5 | Medical Applications |
| 70 | BL1.2: XTM | Thammasut, W., Rojviriya, C., Chaiya, P., Phaechamud, T., Limsitthichaikoon, S. | Moxifloxacin HCl -loaded Cellulose Acetate Butylate In Situ Forming Gel for Periodontitis Treatment | AAPS PharmSciTech 25 (2024): 242 | Q2 | 3.4 | Medical Applications |
| 71 | BL1.2: XTM | Torgbo, S., Sukyai, P., Sukatta, U., Rojviriya, C. and Kamonsutthipaijit, N. | Valorization of Rambutan (Naphelium lappaceum L.) Peel: an Enzymatic Approach Toward a Biopolymer Absorbent Foam | Cellulose 31 ๖2024๗๘ 9907-9923 | Q1 | 4.9 | Food and Agricultural Science |
| 72 | BL1.2: XTM | Ukasi, S., Saichompoo, K., Sae-tang, C., Pakawanit, P., Pongampai, S., Hajra, S., Kim, H. J., Vittayakorn, N. and Charoonsuk, T. | Synergistic Piezo- and Triboelectricity in a Novel Triglycine Sulfate/Bacterial Cellulose/Chitosan Flexible Composite Nanogenerator | Small 21 (Aug 2025): e2503582 | Q1 | 13 | Micro Nanotechnology |
| 73 | BL1.2: XTM | Usawattanakul, N., Chaisirijaroenpun, N., Sukyai, P., Sukatta, U., Watthanasakphuban, N., Nimchua, T., Pakawanit, P., Kamonsutthipaijit, N. and Torgbo, S. | Green Extraction and Isolation of Cellulose Nanofibrils from Orchid (Dendrobium sonia earsakul) Stem for Wound Dressing Application | OpenNano 22 (Mar 2025): 100229 | Q1 | 6.48 | Medical Applications |
| 74 | BL1.2: XTM | Wan-En, O., Yun-Ming, L., Cheng-Yong, H., Abdullah, M. M. A. B., Ngee, H. L., Pakawanit, P., Lee, W. H., Ken, P. W., Hoe-Woon, T. and Yu-Xin, Y. | Magnesium Sulphate Resistance of Fly Ash One-Part Geopolymers: Influence of Solid Alkali Activators on Physical, Mechanical and Chemical Performance | Construction and Building Materials 446 (Oct 2024) 137971 | Q1 | 7.4 | Materials Science and Engineering |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 75 | BL1.2: XTM | Wanmolee, W., Kraithong, W., Phanthasri, J., Pipattanaporn, P., Samun, Y., Youngjan, S., Yodsin, N., Saengsrichan, A., Treetong, A., Phawa, C., Pakawanit, P., Fuangnawakij, K., Laurenti, D., Geantet, C., Sakdaronnarong, C., Khemthong, P. and Sukrong, S. | Structural Properties and Sustained Antimicrobial Activity of Thymol-Loaded Cellulose Nanofibers from One-Pot Synthesis via in Situ Dynamic Microfluidization | International Journal of Biological Macromolecules 306 (May 2025): 141712 | Q1 | 7.7 | Materials Science and Engineering |
| 76 | BL1.2: XTM | Worathat, S., Pharino, U., Pakawanit, P., Rattanachata, A., Muanghlua, R., Hajra, S., Kim, H. J., Sriphan, S. and Vittayakorn, N. | Frictional Heat-Assisted Performance Enhancement in Dynamic Schottky Contact of Al/Ag2Se-Based Tribovoltaic Nanogenerator | Journal of Materiomics 11 (Jan 2025); 100854 | Q1 | 9.4 | Materials Science and Engineering |
| 77 | BL1.3W: SAXS | Aussanasuwannakul, A. and Singkammo, S. | Multiscale Characterization of Rice Starch Gelation and Retrogradation Modified by Soybean Residue (Okara) and Extracted Dietary Fiber Using Rheology, Synchrotron Wide-Angle X-Ray Scattering (WAXS), and Fourier Transform Infrared (FTIR) Spectroscopy | Foods 14 (2025): 1862 | Q1 | 4 | Food and Agricultural Science |
| 78 | BL1.3W: SAXS | Hayeemasae, N., Saiwari, S., Soontaranon, S., Fathurrohman, M. I. and Masa, A. | Potential for Using Sepiolite as Dispersing Agent in Phenolic Resin Crosslinked Natural Rubber/Silica | Express Polymer Letters 19 (2025): 339-349 | Q2 | 2.7 | Polymers |
| 79 | BL1.3W: SAXS | Hayeemasae, N., Soontaranon, S., Zakaria, Z., Rasidi, M. S. M. and Masa, A. | Effect of Styrene Content on Structure and Properties of Vulcanizates from Natural Rubber Grafted with Polystyrene | Progress in Rubber, Plastics and Recycling Technology | Q3 | 1.1 | Polymers |
| 80 | BL1.3W: SAXS | Ibrahim, M., Zaidi, F. H. A., Ibrahim, W. M. W., Ahmad, R., Abdullah, M. M. A. B., Noorlin, F. F. and Azahar, R. H. | Investigating the Efficacy of Metakaolin based Alkali Activated Materials for Efficient Removal of Nickel and Lead Ions | Materials Research Express 12 (2025): 036501 | Q2 | 1.8 | Materials Science and Engineering |
| 81 | BL1.3W: SAXS | Jariyasakoolroj, P., Kumsang, P., Phattarateera, S. and Kerddonfag, N. | Enhanced Impact Resistance, Oxygen Barrier, and Thermal Dimensional Stability of Biaxially Processed Miscible Poly(Lactic Acid)/Poly(Butylene Succinate) Thin Films | Polymers 16 (2024): 3033. | Q1 | 4.7 | Surface, Interface and Thin Films |
| 82 | BL1.3W: SAXS | Jarnthong, M., Wannalak, A., Masa, A., Thongnuanchan, B., Saito, H., Soontaranon, S., Sakai, T. and Lopattananon, N. | Nanocellulose Reinforcement of Epoxidized Natural Rubber: Enhancing Strain-Induced Crystallization for high-Performance Bio-Composites | Polymer Composites 46 (Aug 2025): 9906-9919 | Q1 | 4.8 | Polymers |
| 83 | BL1.3W: SAXS | Junyusen, T., Sonsomboonsuk, S., Junyusen, P., Chatchavanthatri, N., Nawong, S., Kamonsutthipaijit, N. and Pakawanit, P. | Ultra-Low Hydrostatic Pressure: A Novel Approach to Producing High-Quality Germinated Brown Rice Puffs | LWT - Food Science and Technology 226 (Jun 2025): 117981 | Q1 | 6 | Food and Agricultural Science |
| 84 | BL1.3W: SAXS | Kajornprai, T., Sringam, J., Seejuntuek, A., Kaewsuwan, D., Kamonsutthipaijit, N., Chio-Srichan, S., Suppakarn, N. and Trongsatitkul, T. | Crystal Evolution of Amorphous Poly(lactic acid) During Simultaneous Multi-step Tensile Deformation and Annealing | Journal of Polymer Science 63 (Jan 2025): 192-203 | Q1 | 3.9 | Polymers |
| 85 | BL1.3W: SAXS | Ihsan, N. S. M. N., Sani, S. F. A., Looi, L. M., Pathmanathan, D., Cheah, P. L., Chiew, S. F., Chio-Srichan, S., Soontaranon, S. and Bradley, D. A. | Supramolecular Arrangements in Human Amyloid Tissues Using SAXS | Biophysical Chemistry 316 (Jan 2025): 107349 | Q2 | 3.3 | Medical Applications |
| 86 | BL1.3W: SAXS | Ninjan, R., Thongnuanchan, B., Lopattananon, N., Salaeh, S., Tongnuanchan, P. and Buangam, P. | Heat-Sealable Paper Fabricated Using a Latex Coating Based on Modified Natural Rubber Filled with Gelatin | Express Polymer Letters 18 (2024): 1077-1093 | Q2 | 2.7 | Polymers |
| 87 | BL1.3W: SAXS | Petcharat, T., Chaijan, M., Indriani, S., Pongsetkul, J., Karnjanapratum, S. and Nalinanon, S. | Modulating Fish Gelatin Gelling Properties Through Furcellaran Addition: A Structural and Physicochemical Analysis | Gels 11 (2025): 381 | Q1 | 5 | Polymers |
| 88 | BL1.3W: SAXS | Phichaipanich, P., Kosorn, W., Nampichai, N., Thavornyutikarn, B. and Janvikul, W. | Compatibilized Ternary Blends of Polypropylene Copolymer, Polyethylene, and Thermoplastic Polyurethane for Fused Deposition Modeling Three-Dimensional Printing Technology: Preparation, Printing, and Properties | The Journal of Materials Science 60 (2025): 9937-9956 | Q1 | 3.5 | Materials Science and Engineering |
| 89 | BL1.3W: SAXS | Phukhrongthung, A., Iamprasertkun, P., Puchongkawarin, C., Sasrimuang, S., Kamonsutthipaijit, N., Kareeklin, N., Sawangphruk, M. and Luanwuthi, S. | 3D Interconnected Graphene-like Porous Materials Derived from Sesbania for High-Voltage Aqueous Supercapacitors | ACS Omega 10 (2025): 26718-26728 | Q1 | 3.7 | Materials Science and Engineering |
| 90 | BL1.3W: SAXS | Poopisut, P., Somredngan, S., Thumanu, K., Parnpai, R. and Boontawan, A. | Production of Nanocellulose-Based Biopolymer Scaffold for Liver Tissue Engineering | Trends in Sciences 22 (2025): 10049 | Q3 | 0.82 | Medical Applications |
| 91 | BL1.3W: SAXS | Puyathorn, N., Tamdee, P., Yodsin, N., Phaechamud, T. and Sirirak, J. | Insight into the Phase Inversion of Myristic Acid In Situ Gels for Drug Delivery Applications | ACS Omega 10, 21 (2025): 21432-21449 | Q2 | 3.7 | Medical Applications |
| 92 | BL1.3W: SAXS | Rungswang, W., Jarumaneeroj, C., Makkaroon, B., Charernsuk, M., Duekunthod, R., Nakawong, N., Soontaranon, S. and Rugmai, S. | Influences of the Comonomer Type on the Crystallization Kinetics of High-Density Polyethylene | Polymer Journal 57 (2025): 711-722 | Q2 | 2.3 | Polymers |
| 93 | BL1.3W: SAXS | Sringam, J., Kajornprai, T., Trongsatitkul, T.and Suppakarn, N. | Shape Memory Performance and Microstructural Evolution in PLA/PEG Blends: Role of Plasticizer Content and MolecularWeight | Polymers 17 (2025): 225 | Q1 | 4.7 | Materials Science and Engineering |
| 94 | BL1.3W: SAXS | Suwanangul, S., Arkanit, K., Kraithong, S., Sorndech, W., Tastub, S., Rungraeng, N., Narkprasom, K., Laosam, P. and Sangsawad, P. | Impact of an Innovative Two-Step Temperature-Controlled Accelerated Germination Process on Phytochemical Enhancement, Digestibility, and Morphological Changes in Colored Rice | Food Chemistry 478 (Jun 2025): 143558 | Q1 | 8.5 | Food and Agricultural Science |
| 95 | BL1.3W: SAXS | Taron, W., Kasemphong, T., Sunon, P., Kaewket, K., Kamonsutthipaijit, N., Ketudat-Cairns, J. R., Bhakdisongkhram, G., Tulalamba, W., Sanguansuk, S., Viprakasite, V. and Ngamchuea, K. | Bioanalytical Method for NAD+ Detection in Blood Plasma Utilizing Solution-Phase Candida Boidinii Formate Dehydrogenase and Electrochemical Detection | Analyst 150 (2025): 894-904 | Q2 | 3.6 | Medical Applications |
| 96 | BL1.3W: SAXS | Torgbo, S., Sukyai, P., Sukatta, U., Rojviriya, C. and Kamonsutthipaijit, N. | Valorization of Rambutan (Naphelium lappaceum L.) Peel: an Enzymatic Approach Toward a Biopolymer Absorbent Foam | Cellulose 31 ๖2024๗๘ 9907-9923 | Q1 | 4.9 | Food and Agricultural Science |
| 97 | BL1.3W: SAXS | Usawattanakul, N., Chaisirijaroenpun, N., Sukyai, P., Sukatta, U., Watthanasakphuban, N., Nimchua, T., Pakawanit, P., Kamonsutthipaijit, N. and Torgbo, S. | Green Extraction and Isolation of Cellulose Nanofibrils from Orchid (Dendrobium sonia earsakul) Stem for Wound Dressing Application | OpenNano 22 (Mar 2025): 100229 | Q1 | 6.48 | Medical Applications |
| 98 | BL2.2: TRXAS | Chotchaipitakkul, R., Munpollasri, S., Donphai, W., Limphirat, W., Poo-arporn, Y., Nijpanich, S., Jantaratana, P., Witoon, T., Kongkachuichay, P. and Chareonpanich, M. | Promotional Effect of External Magnetic Field in FexOy/ZSM-5 for Selective CO2 Hydrogenation to C2–C4 and Aromatic Hydrocarbons | Applied Catalysis A, General 690 (Jan 2025): 120036 | Q2 | 4.7 | Chemistry |
| 99 | BL2.2: TRXAS | Hongloi, N., Prapainainar, C., Sudsakorn, K., Kiatkittipong, W., Seubsai, A., Limphirat, W. and Prapainainar, P. | Hydrogenation of Palmitic Acid without External H2: The Role of H-donor Solvents and Ni-based Catalysts in Biofuel Production | Fuel 392 (Jul 2025): 134874 | Q1 | 6.7 | Chemistry |
| 100 | BL2.2: TRXAS | Jansoda, I., Patdhanagul, N., Poo-arporn, Y. and Chanapattharapol, K. C. | Zeolite-Supported Cobalt Catalysts Derived from Natural Diatomite with High Catalytic Activity for Catalyzing NaBH4 Hydrolysis | Journal of Materials Research 39 (Dec 2024): 3370-3384 | Q2 | 2.7 | Chemistry |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 101 | BL2.2: TRXAS | Maneewong, Y., Nimmanterdwong, P., Ratchahat, S., Sakdaronnarong, C., Limphirat, W., Khemthong, P., Rungtaweevoranit, B., Faungnawakij, K., Assabumrungrat, S., Lin, Y. C., Kawi, S., Tomishige, K. and Srifa, A. | Enhancement of Hydrogenation Activity by Synergistically Promoting Re Booster in Ni/Al2O3 Catalyst for Selectively Converting Levulinic Acid Into γ-Valerolactone | Chemical Engineering Journal 508 (Mar 2025): 160969 | Q1 | 13.4 | Chemistry |
| 102 | BL2.2: TRXAS | Musyarofah, M., Tanaka, I., Mohamed, Z., Poo-arporn, Y., Ernawati, L., Yudoyono, G. and Prayitno, B. | Characterization of Zn-Doped MgTiO3 Powders Synthesized by Dissolved Metals Mixing Method | Indonesian Journal of Chemistry | Q3 | 1 | Materials Science and Engineering |
| 103 | BL2.2: TRXAS | Myint, W., Lolupiman, K., Yang, C., Woottapanit, P., Limphirat, W., Kidkhunthod, P., Muzakir, M., Karnan, M., Zhang, X. and Qin, J. | Exploring the Electrochemical Superiority of V2O5/TiO2@Ti3C2-MXene Hybrid Nanostructures for Enhanced Lithium-Ion Battery Performance | ACS Applied Materials & Interfaces 16 (2024): 53764-53774 | Q1 | 8.3 | Chemistry |
| 104 | BL2.2: TRXAS | Nooto, C., Chuaykaew, P., Singthuen, P., Solos, T., Preedawichitkun, Y., Khosukwiwat, K., Wengwirat, K., Promchana, P., Kumar, R., Chung, P. W., Poo-arporn, Y., Limphirat, W., Choojun, K. and Sooknoi, T. | Reversibly Interconverted Cu+/Cu+-H Species as Active Sites for Selective Hydrogenation of Fatty Acid Methyl Esters to Fatty Alcohol Over Layered Double Hydroxide Derived CuMgAlO x Catalysts | Molecular Catalysis 575 (Mar 2025): 114898 | Q2 | 3.9 | Materials Science and Engineering |
| 105 | BL2.2: TRXAS | Obrom, W., Yingyuen, W., Nanmong, T., Deekamwong, K., Tawachkultanadilok, P., Wittayakun, J., Prayoonpokarach, S., Poo-arporn, Y., Föttinger, K., Desaulniers, J. P. and Loiha, S. | Investigating the Role of Zeolite Supports in Ni-Based Catalysts for CO2-Methanation Using in Situ/Operando XAS–MS. | Microporous and Mesoporous Materials 390 (May 2025): 113548 | Q1 | 4.8 | Chemistry |
| 106 | BL2.2: TRXAS | Pakapongpan, S., Poo-arporn, Y., Ninket, S. and Poo-arporn, R. P. | A Disposable Electrochemical Sensor for Amyloid-β42 Protein Based on Molecular Imprinted Polymers with Nitrogen Doped Carbon Dots-Graphene Nanohybrid | Microchemical Journal 206 (Nov 2024): 111559 | Q1 | 4.9 | Materials Science and Engineering |
| 107 | BL2.2: TRXAS | Phichairatanaphong, O., Leelaphuthipong, O., Poo-arporn, Y., Chareonpanich, Y. and Donphai, W. | Catalytic Role of Nickel/Silica Foams Structure in Boosting Hydrogen Production from Methane | Inorganic Chemistry Communications 175 (May 2025): 114213 | Q1 | 4.4 | Chemistry |
| 108 | BL2.2: TRXAS | Pleuksachat, S., Chaiyapo, N., Aranmala, K,, Krabao, P., Kamma, N., Kaewmala, S., Prasongthum, N., Limphirat, W., Jeong, Y., Choi, M.Y., Nash, J., and Meethong, N. | Enhancing the Rate Capability and Cycling Stability of Na4MnV(PO4)3/C Composite Cathodes via in Situ Carbon Dots Formation for Sodium-Ion Batteries | ACS Applied Energy Materials 8 (2025): 8224-8233 | Q1 | 5.5 | Materials Science and Engineering |
| 109 | BL2.2: TRXAS | Sanni, A., Govindarajan, D., Kao-ian, W., Limphirat, W., Tipplook, M.,Teshima, K., Theerthagiri, J., Choi, M. Y. and Kheawhom, S. | Elucidating Mn2+/Mn3+ and Ni0/Ni2+ Redox Synergy in Hair-Derived Carbon-Supported Ag/Ni−MnOx Supercapacitor | ACS Applied Materials & Interfaces 17 (2025): 46936-46951 | Q1 | 8.3 | Materials Science and Engineering |
| 110 | BL2.2: TRXAS | Veann, C., Limphirat, W., Maensiri, R.. And Maensiri, S. | Boosting Supercapacitor Performance with Ni-doped AgFeO2 Nanoparticles | Journal of Energy Storage 110 (Feb 2025): 115249 | Q1 | 8.9 | Materials Science and Engineering |
| 111 | BL2.2: TRXAS | Yamchumporn, P., Boonin, K., Triamnak, N., Sareein, T., Singsoog, K., Seetawan, T., Limphirat, W., Chanlek, N. and Kaewkhao, J. | In-Situ X-Ray Absorption Near Edge Structure Spectroscopy Study and Thermoelectric Properties of 30Li2O: 3MoO3: 60B2O3: 7CuO Glass | Radiation Physics and Chemistry 224 (Nov 2024): 111934 | Q2 | 2.8 | Materials Science and Engineering |
| 112 | BL2.2: TRXAS | Yang, C., Woottapanit, P., Geng, S., Chanajaree, R., Lolupiman, K., Limphirat, W., Zhang, X. and Qin, J. | Biomimetic Inorganic−Organic Protective Layer for Highly Stable and Reversible Zn Anodes | ACS Energy Letters 10 (2025): 337-344 | Q1 | 19.5 | Materials Science and Engineering |
| 113 | BL2.2: TRXAS | Zhang, D., Yue, Y., Yang, C., Limphirat, W., Zhang, X., Qin, J., and Cao, J. | Kinetics-Boosted and Dissolution-Suppressed Molybdenum-Doped vanadium dioxide for Long-Life Zinc-Ion batteries | Chemical Engineering Journal 506 (Jan 2025): 160160 | Q1 | 13.4 | Materials Science and Engineering |
| 114 | BL2.2: TRXAS | Zhang, D., Cao, J., Yang, C., Lolupiman, K., Limphirat, W., Wu, X., Zhang, X., Qin, J. and Huang, Y. | Highly Stable Aqueous Zn-Ion Batteries Achieved by Suppressing the Active Component Loss in Vanadium-Based Cathode | Advanced Energy Materials 15, 15 (Apr 2025): 2404026 | Q1 | 24.4 | Materials Science and Engineering |
| 115 | BL3.1: XPS | Apiwat, C., Houghton, J. W., Ren, R., Tate, E., Edel, J. B., Chanlek, N., Luksirikul, P. and Japrung, D. | Advancing Albumin Isolation from Human Serum with Graphene Oxide and Derivatives: A Novel Approach for Clinical Applications | ACS Omega 9 (2024): 40592–40607 | Q2 | 3.7 | Materials Science and Engineering |
| 116 | BL3.1: XPS | Arayawate, S., Kareeklin, N., Saisopa, T., Songsiriritthigul, P. and Iamprasertkun, P. | Understanding Ion Intercalation Characteristics of Layered Materials in Superconcentrated Electrolytes: Effects of Concentration, Temperature, and Anion Identity | ACS Omega 10 (Sep 2025): 41938-41947 | Q2 | 3.5 | Materials Science and Engineering |
| 117 | BL3.1: XPS | Athikaphan, P., Jaitham, K., Saneaha, J., Nijpanich, S., Neramittagapong, A., Grisdanurak, N. and Neramittagapong, S. | Optimization of Ru/ZSM-5 Catalyst for Selective d-glucose Hydrogenation to Sorbitol: A Box-Behnken Design Approach | Results in Engineering 24 (Dec 2024): 103541 | Q1 | 6 | Chemistry |
| 118 | BL3.1: XPS | Banjong, N., Thongyong, N., Chanlek, N., Phromviyo, N., Pengpad, A. Srepusharawoot, P. and Thongbai, P. | Ultra–Low–Temperature Sintering for Giant Permittivity in CuO Ceramics via Cold Sintering Process | Ceramics International 50 (Dec 2024): 55421-55428 | Q1 | 5.1 | Materials Science and Engineering |
| 119 | BL3.1: XPS | Chia, M.Y., Chiu, W. S., Khiew, P. S., Chanlek, N., Lee, H. C., Haw, C. Y., Abd-Shukor, R. and Hamid, M. A. A. | Trinary Nanohybrid Nanocomposite (Ag/MoS2/ZnO): A Plausible Photoelectrode for Photoelectrochemical Water Splitting | CrystEngComm 27 (2025): 749-761 | Q2 | 2.6 | Micro Nanotechnology |
| 120 | BL3.1: XPS | Chotchaipitakkul, R., Munpollasri, S., Donphai, W., Limphirat, W., Poo-arporn, Y., Nijpanich, S., Jantaratana, P., Witoon, T., Kongkachuichay, P. and Chareonpanich, M. | Promotional Effect of External Magnetic Field in FexOy/ZSM-5 for Selective CO2 Hydrogenation to C2–C4 and Aromatic Hydrocarbons | Applied Catalysis A, General 690 (Jan 2025): 120036 | Q2 | 4.7 | Chemistry |
| 121 | BL3.1: XPS | Fitriana, F., Asih, R., Baqiya, M. A., Kamonsuangkasem, K. and Suasmoro, S. | Analysis of Electronic Configuration and Spin State Driving to Magnetic Properties of La2xBa0.5-xSr0.5-xFe0.9Ni0.1O3-δ (x = 0, 0.25) | Journal of Alloys and Compounds 1023 (Apr 2025): 180139 | Q1 | 5.8 | Materials Science and Engineering |
| 122 | BL3.1: XPS | Foophow, T., Lertkowit, P., Kitthawee, U. and Phoohinkong, W. | Preparation and Characterization of Dextran-Modified ZnO and Cu-doped ZnO Nanohybrid Material for Enhanced Antimicrobial Delivery and Activity | Carbohydrate Polymers 349 (Feb 2025) 122947 | Q1 | 10.7 | Medical Applications |
| 123 | BL3.1: XPS | Henjongchom, N., Ruengsrisang, W., Soe, K. T., Kayunkid, N., Thongprong, N., Ketsombun, E., Chanlek, N., Supruangnet, R., Saiyasombat, C., Rujisamphan, N., Supasai, T. | Cesium Moderation and Structural Transformation on α-CsPbI2Br Perovskite Durability via Cation Retarding Migration: A Combined Simulation and Experimental Study | Solar Energy 288 (Mar 2025): 113290 | Q1 | 6 | Materials Science and Engineering |
| 124 | BL3.1: XPS | Jampreecha, T., Sawangprom, A., Chanlek, N., Pinitsoontorn4, S, Meevasana, W. and Maensiri, S. | Fabrication and Performance of Monolithic β–Zn4Sb3/ZnO Thermoelectric Generator Module | Journal of Electronic Materials 54 (Jun 2025): 4460-4470 | Q2 | 2.2 | Physics |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 125 | BL3.1: XPS | Juntree, N., Sawatdee, S., Pongchaikul, P., Arjfuk, P., Wanmolee, W., Khemthong, P., Chanlek, N., Srifa, A., Posoknistakul, P., Laosiripojana, N., Wu, K. C. W. and Sakdaronnarong, C. | Facile, Noninvasive, and Chemical-Free Hydrogen Peroxide and Glucose Detection Using a Fluorescent Cellulose Hybrid Film Embedded with PtRu/Carbon Dots | ACS Measurement Science Au 5, 3 (2025): 304-324 | Q1 | 4.6 | Medical Applications |
| 126 | BL3.1: XPS | Khan, M. J., Karim, Z., Pakawanit, P., Supruangnet, R., Pongchaikul, P., Posoknistakul, P., Laosiripojana, N.,. Wu, K. C. W. and Sakdaronnarong, C. | TEMPO-Oxidized and Carbon Dots Bound Cellulosic Nanostructured Composite for Sustainable Fully Biobased Membranes for Separation of Nano/micro-Sized Particles/Molecules | Biomass and Bioenergy 197 (Jun 2025): 107798 | Q1 | 5.8 | Materials Science and Engineering |
| 127 | BL3.1: XPS | Khan, M. J., Sawatdee, S., Suksaard, M., Nantarattikul, Y., Botalo, A., Juntree, N., Pongchaikul, P., Arjfuk, P., Khemthong, P., Wanmolee, W., Chanlek, N., Laosiripojana, N., Wu, K. c. W. and Sakdaronnarong, C. | Ultrafast Magneto-Inductive Synthesis of Carbon Dots from Plant-Based Precursors Using Deep Eutectic Solvents: A Comparative Study with Traditional Hydrothermal Methods | Process Safety and Environmental Protection 195 (Mar 2025): 106752 | Q1 | 6.9 | Materials Science and Engineering |
| 128 | BL3.1: XPS | Khenkhom, P., Ritvirulh, C., Choojun, K., Preedawichitkun, Y., Chanlek, N. and Sooknoi, T. | Selective Hydrogenation of Polyunsaturated Fatty Acid Methyl Esters over Bifunctional Ligand-Modified Pd/MIL-101(Cr) Catalysts | Inorganic Chemistry 64 (2025): 18723-18734 | Q1 | 4.3 | Chemistry |
| 129 | BL3.1: XPS | Kumalayanti, L., Tabtamart, J., Kidkhunthod, P., Chankhunthod, N. and Pinitsoontorn, S. | Photocatalytic Degradation Study of Paraquat Dichloride by Dumbbell-liked TiO2 Capped Gold Nanorods under UV and NIR Irradiation | Surfaces and Interfaces 57 (Jan 2025): 105760 | Q1 | 5.7 | Environmental Science |
| 130 | BL3.1: XPS | Islam, M. K., Kongparakul, S., Guan, G., Chanlek, N. and Samart, C. | Oxidative Fractionation of Palm Kernel shell Waste Biomass over Bimetallic Co-Cu/Zeolite HY Catalyst | Biomass and Bioenergy 193 (Feb 2025): 107609 | Q1 | 5.8 | Chemistry |
| 131 | BL3.1: XPS | Janthima, R., Weeranantanapan, O., Injinda, S. and Siri, S. | Sustainable Fluorescent Carbon Dots From Apple Snail Eggs for Enhanced Visualization of Shed Skin Cells in Latent Fingerprints | Luminescence 40, 7 (2025): e70246 | Q2 | 3 | Micro Nanotechnology |
| 132 | BL3.1: XPS | Jiamprasertboon, A., Kafizas, A., Eknapakul, T., Choklap, T., Quinet, J., Sailuam, W., Jiang, P., Supruangnet, R., Nijpanich, S., Bootchanont, A., Boonyang, U., Siritanon, T. and Cottineau, T. | Insights into Unlocking the Latent Photocatalytic H2 Production Activity in the Protonated Aurivillius-Phase Layered Perovskite Na0.5Bi2.5Nb2O9 | Materials Research Bulletin 186 (Jun 2025): 113352 | Q1 | 5.3 | Materials Science and Engineering |
| 133 | BL3.1: XPS | Jumpatam, J., Chanlek, N., Putasaeng, B. and Thongbai, P. | Microstructure, Dielectric, Non–Ohmic, and Humidity–Sensing Properties of Ca1+xCu2.9-xMg0.1Ti4O12 Ceramics | Ceramics International 51, 23 Part B (Sep 2025): 39713-39725 | Q1 | 5.1 | Materials Science and Engineering |
| 134 | BL3.1: XPS | Kaisook, P., Athikaphan, P., Nijpanich, S., Minato , T., Neramittagapong, S. and Neramittagapong, A. | Ni/CeO2 Catalyst with La and Zr Additives for Improved Low-Temperature CO2 Methanation Efficiency | Results in Engineering 25 (Mar 2025): 103795 | Q1 | 6 | Materials Science and Engineering |
| 135 | BL3.1: XPS | Khruengsai, S., Pripdeevech, P., Chanlek, N., Thumanu, K., Muangmora, R., Rojviroon, T. and Pongpiachan, S. | Chemical Characterization of Activated Carbon Derived from Napier Grass, Rubber Wood, Bamboo, and Hemp | International Journal of Renewable Energy Development 13 (2024): 1115-1124 | Q2 | 2.5 | Polymers |
| 136 | BL3.1: XPS | Kornphom, C., Somsri, W., Prasertpalichat, S., Thatawong, B., Kruea-In, C., Udeye, T., Rittidech, A., Menkun, C., Vittayakorn, N., Pinitsoontorn, S., Jantaratana, P., Chanlek, N. and Bongkarn, T. | Improved Dielectric, Magnetic, and Multiferroic Properties of (Bi0.5Na0.5)0.7La0.3(Ti0.7Fe0.3)O3 Ceramics Synthesis by the Solid-State Combustion Technique | Physica Status Solidi (A) Applications and Materials Science 222 (Jun 2025): 2300989 | Q2 | 1.9 | Materials Science and Engineering |
| 137 | BL3.1: XPS | Kulawong, S., Kidkhunthod, P., Chanlek, N., Wittayakun, J. and Osakoo, N. | Iron Hematite-Magnetite Composite Supported on Mesoporous SBA-15 Synthesized by Using Silica from Cogon Grass as a Solid Catalyst in Phenol Hydroxylation | Materials Chemistry and Physics 329 (Jan 2025): 130057 | Q1 | 4.3 | Materials Science and Engineering |
| 138 | BL3.1: XPS | Leela, T., Kongkoed, P., Athikaphan, P., Neramittagapong, A., Minato, T. and Neramittagapong, S. | Synergistic Effect of Ni and CeO2 on ZSM-5 Catalysts for Efficient Hydrogenation of Glucose to Sorbitol | Results in Engineering 25 (Mar 2025): 104020 | Q1 | 6 | Chemistry |
| 139 | BL3.1: XPS | Lertna, N., Nijpanich, S., Neramittagapong, A., Neramittagapong, S.. and Rood, S. C. | Kinetic Study of the Double dehydration of Sorbitol into Isosorbide Over Commercial Sulfonic Acid Resin | Molecular Catalysis 572 (Feb 2025): 114716 | Q2 | 3.9 | Chemistry |
| 140 | BL3.1: XPS | Mahawong, S., Onsri, P., Thaveemas, P., Kaowphong, S., Nijpanich, S., Rattanachueskul, N., Techasakul, S., Chuenchom, L. and Dechtrirat, D. | Transforming Waste Into Value: Single-Step in Situ Synthesis of Magnetic Porous Carbon Composite Adsorbents from Sugarcane Bagasse and Iron Scrap | Scientific Reports 5 (2025): 16098 | Q1 | 3.8 | Environmental Science |
| 141 | BL3.1: XPS | Mingmuang, Y., Chanlek, N., Takesada, M., Harnchana, V., Jarernboon, W., Moontragoon, P., Srepusharawoot, P., Swatsitang, E. and Thongbai, P. | Mechanisms of Enhanced Performance in Zr4+/Ta5+ Codoped Rutile–TiO2 Ceramics via Broadband Dielectric Spectroscopy | Scientific Reports 14 (2024): 23406 | Q1 | 3.8 | Materials Science and Engineering |
| 142 | BL3.1: XPS | Mingmuang, Y., Chanlek, N., Takesada, M., Swatsitang, E. and Thongbai, P. | Optimization of Low Sintering Temperature for Colossal Permittivity and Humidity Resistance in TiO2 Based Ceramics | Scientific Reports 15 (2025): 8107 | Q1 | 3.8 | Materials Science and Engineering |
| 143 | BL3.1: XPS | Munthala, D., Sonklin, T., Chanlek, N., Mathur, A., Roy, S., Avasthi, D.K., Suksaweang, S. and Pojprapai, S. | Portable DNA Probe Detector and a New Dry-QCM Approach for SARS-CoV-2 Detection | Technologies 13 (2025): 114 | Q1 | 4.2 | Medical Applications |
| 144 | BL3.1: XPS | Nachaichot, A., Kenvised, O., Choram, S., Nijpanich, S. and Budsombat, S. | Catalytic Reduction of Nitrophenols and Dyes by HKUST-1/Hydrogel Composite | RSC Advances 15 (2025): 6974-6983 | Q1 | 3.9 | Chemistry |
| 145 | BL3.1: XPS | Ngokpho, B., Janphuang, P., Nijpanich, S. Chanlek, N., Wannapaiboon, S., Siritanon, T. and Ngamchuea, K. | Halide-Mediated Electrochemical Modification of Copper Phthalocyanine for Humidity Sensing Applications | Materials Advances 6 (2025): 658-669 | Q1 | 5.2 | Materials Science and Engineering |
| 146 | BL3.1: XPS | Obrom, W., Yingyuen, W., Nanmong, T., Deekamwong, K., Tawachkultanadilok, P., Wittayakun, J., Prayoonpokarach, S., Poo-arporn, Y., Föttinger, K., Desaulniers, J. P. and Loiha, S. | Investigating the Role of Zeolite Supports in Ni-Based Catalysts for CO2-Methanation Using in Situ/Operando XAS–MS. | Microporous and Mesoporous Materials 390 (May 2025): 113548 | Q1 | 4.8 | Chemistry |
| 147 | BL3.1: XPS | Phakkhawan, A., Sakulkalavek, A., Chanlek, N., Nijpanich, S., Ngernyen, Y., Buranurak, S., Pimanpang, S. and Klangtakai, P. | Self-Activation of Carbons Derived from Bio-Waste Cabbage for a Green Supercapacitor Based on Seawater Electrolyte | Sustainable Materials and Technologies 42 (Dec 2024): e01143 | Q1 | 8.6 | Materials Science and Engineering |
| 148 | BL3.1: XPS | Phichairatanaphong, O., Leelaphuthipong, O., Poo-arporn, Y., Chareonpanich, Y. and Donphai, W. | Catalytic Role of Nickel/Silica Foams Structure in Boosting Hydrogen Production from Methane | Inorganic Chemistry Communications 175 (May 2025): 114213 | Q1 | 4.4 | Chemistry |
| 149 | BL3.1: XPS | Pleuksachat, S., Chaiyapo, N., Aranmala, K,, Krabao, P., Kamma, N., Kaewmala, S., Prasongthum, N., Limphirat, W., Jeong, Y., Choi, M.Y., Nash, J., and Meethong, N. | Enhancing the Rate Capability and Cycling Stability of Na4MnV(PO4)3/C Composite Cathodes via in Situ Carbon Dots Formation for Sodium-Ion Batteries | ACS Applied Energy Materials 8 (2025): 8224-8233 | Q1 | 5.5 | Materials Science and Engineering |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 150 | BL3.1: XPS | Rajaramakrishna, R., Kaewkhao, J., Nikonorov,N. V., Aleksandrova, E., Kothan, S., Busayaporn, W., Rahul, S., Gerasimova, M. A. and. Slyusareva, E. A | Influence of Gadolinium and Annealing Time in Dysprosium Doped Oxyfluoride Glasses for w-LED and Scintillating Photonic Device Applications | Next Materials 8 (Jul 2025): 100730 | Q2024:Q1 | n/a | Materials Science and Engineering |
| 151 | BL3.1: XPS | Sanni, A., Govindarajan, D., Nijpanich, S., Limphirat, W., Theerthagiri, J., Choi, M. Y. and Kheawhom, S. | Al-Doped ZnO@CuO Nanoflower/Nanorod Heterostructures on CNTs as High-Performance Supercapacitor Electrodes in Redox-Supporting Electrolytes | Journal of Energy Storage 109 (Feb 2025): 115184 | Q1 | 8.9 | Materials Science and Engineering |
| 152 | BL3.1: XPS | Sanni, A., Govindarajan, D., Nijpanich, S., Limphirat, W., Tipplook, M., Teshima, K., Sangaraju, S. and Kheawhom, S. | Designing Dual-Phase ZnO-Al2O3-CuO Nanostructures for Enhanced Supercapacitor Performance | Materials Research Bulletin 189 (Sep 2025): 113443 | Q1 | 5.3 | Materials Science and Engineering |
| 153 | BL3.1: XPS | Sanni, A., Govindarajan, D., Nijpanich, S., Limphirat, W., Mohamad, A. A., Theerthagiri, J., Choi, M. Y. and Kheawhom, S. | Unveiling a Paradigm Shift in Supercapacitor Dynamics: γ-Al2O3-Infused ZnO Nanorods with Redox-Active K4Fe(CN)6 Alkaline Electrolytes | Journal of Alloys and Compounds 1010 (Jan 2024): 177892 | Q1 | 5.8 | Materials Science and Engineering |
| 154 | BL3.1: XPS | Saowiang, N., Poolcharuansin, P., Chingsungnoen, A. and Pasaja, N. | Investigated the Ion Energy and the Microstructure properties of Tetrahedral Amorphous Carbon Film Produced by Pulsed Filtered Cathodic Vacuum Arc Combined with Plasma Biasing Technique | Journal of Metals, Materials and Minerals 34 (Dec 2024): 2168 | Q1 | 0.7 | Surface, Interface and Thin Films |
| 155 | BL3.1: XPS | Sawatdee, S. Botalo, A., Noinonmueng, T., Posoknistakul, P., Intra, P., Pongchaikul, P., Charnnok, B., Chanlek, N., Laosiripojana, N., Wu, K. C. W. and Sakdaronnarong, C. | Fabrication of Multilayer Cellulose Filters Isolated from Natural Biomass for Highly Efficient Air Filtration for Replacement of Synthetic HEPA Filters | Process Safety and Environmental Protection 194 (Feb 2025): 216–230 | Q1 | 6.9 | Environmental Science |
| 156 | BL3.1: XPS | Senamart, N., Yingyuen, W., Obrom, W., Nanmong, T., Budsombat, S., Wittayakun, J., Prayoonpokarach, S. and Loiha, S. | Improving the Efficiency of Cr(VI) Reduction and Adsorption by Fe3O4 Using ZSM-5 Zeolite Support Prepared Through Various Methods | RSC Advances 15 (Feb 2025): 5808-5821 | Q1 | 3.9 | Environmental Science |
| 157 | BL3.1: XPS | Sinprachim, T., Klompong, N., Chanlek, N., Kidkhunthod, P., Maensiri, S., Siripongdee, S., Chamsuk, W., Ohgoe, Y., Thouglor, P., Albutt, N. and Sonsupap, S. | Multi-phase Structure Electrospun CNF@Ag/Mn/Bi/Fe Composite Nanofiber Enhanced Supercapacitor Behavior | Journal of Alloys and Compounds 1016 (Feb 2025): 178922 | Q1 | 5.8 | Materials Science and Engineering |
| 158 | BL3.1: XPS | Sotornsak, S., Chanlek, N., Phromviyo, N., Srepusharawoot, P., Wantala, K., Jarernboon, W. and Thongbai, P. | Tailored Microstructure and Superior Dielectric Response in NbyTi1-yO2 Ceramics Derived from High-Energy Ball Milling | Materials Technology Advanced Performance Materials 40 (2025): 2533939 | Q2 | 2.9 | Materials Science and Engineering |
| 159 | BL3.1: XPS | Srikam, S., Laohana, P., Tanapongpisit, N., Wongprasod, S., Nguyen, T. M. H., Meevasana, W., Maensiri, S., Bark, C. W. and Saenrang, W. | Effect of Slurry Preparation Duration on Electrochemical Performance of Raspberry-Like NiO@C | Ionics 31 (2025): 5205-5216 | Q2 | 2.4 | Materials Science and Engineering |
| 160 | BL3.1: XPS | Sunon, P., Jakkrawhad, C., Nijpanich, S. and Ngamchuea, K. | One-Step Fabrication of Cobalt(II,III) Oxide@Poly(o-Phenylenediamine) for Non-Enzymatic Electrochemical Lactate Detection | Journal of The Electrochemical Society 172, 5 (2025): 057503 | Q1 | 3.1 | Materials Science and Engineering |
| 161 | BL3.1: XPS | Suwannaruang, T., Wantala, K., Shivaraju, H. P., Shahmoradi, B., Kidkhunthod, P., Chanlek, N., Nijpanich, S., Chirawatkul, P. and Saiyasombat, C. | Visible-Light-Driven Photodegradation of Pt-Derivative Anticancer Drug Carboplatin Over La-Fe-Modified SrTiO3 with Simultaneous Doping and Enhanced Pt-Photodeposited Catalyst | Journal of Water Process Engineering 71 (Mar 2025): 107387 | Q1 | 6.3 | Environmental Science |
| 162 | BL3.1: XPS | Thanamoon, N., Thongyong, N., Sreejivungsa, K., Chanlek, N. and Thongbai, P. | Enhanced Humidity-Sensing Performance of (Zr4+/Sb5+)-Codoped TiO2 Ceramics with Giant Dielectric properties | Journal of Advanced Ceramics 14 (Jan 2025): 9221005 | Q1 | 18.6 | Materials Science and Engineering |
| 163 | BL3.1: XPS | Thanee, K., Youngjan, S., Toomsan, W., Impeng, S., Namuangruk, S., Butburee, T., Rungnim, C., Prasitnok, K., Chawengkijwanich, C., Khunphonoi, R., Nijpanich, S., Faungnawakij, K., Phanthasri, J. and Khemthong, P. | Scalable and Sustainable Synthesis of Activated Carbon-Supported Nanosilver with Sugar and Starch as Dual Agents for Disinfection and Chloroform Removal | Journal of Environmental Chemical Engineering 13 (Apr 2025): 115526 | Q1 | 7.4 | Environmental Science |
| 164 | BL3.1: XPS | Theekhasuk, N., Somdock, N., Voraud, A., Ounrit, I., Limsuwan, P., Kotmool, K., Sakdanuphab, R. and Sakulkalavek, A. | Post-Ball-Milling-Assisted Solid-State Synthesis of Bi4O4SeCl2: A Low Thermal Conductivity Material | Results in Physics 69 (2025): 108129 | Q2 | 4.4 | Materials Science and Engineering |
| 165 | BL3.1: XPS | Torrarit, P., Poompradub, S., Mohammadifar, M., Pattananuwat, P., Jayaraman, T., Jeong, Y., Chanlek, N., Choi, M. Y. and Kasemchainan, J. | Highly Porous Activated Carbon from Betel Palm Shells as the Prospective Electrode for High-Performance Supercapacitors | Materials Science for Energy Technologies 8 (2025): 143-153 | Q1 | 6.77 | Materials Science and Engineering |
| 166 | BL3.1: XPS | Tuichai, W., Phromviyo, N., Chankhunthod, N., Srepusharawoot, P. and Thongbai, P. | Influences of Ga3+ Doping Content on Microstructure and Interfacial Polarization in Colossal Permittivity GayNb0.025Ti0.975-yO2 Ceramics | International Journal of Smart and Nano Materials 16 (2025): 84-102 | Q1 | 4.5 | Materials Science and Engineering |
| 167 | BL3.1: XPS | Utara, S.,Salidkul, N., Karaphun, A., Sonsupap, S., Chanlek, N., Hunpratub, S. and Phokha, S. | Structural, Morphological, Optical, and Electrochemical properties of Zn-doped CeO2/rGO Nanocomposites | Materials Science in Semiconductor Processing 189 (Apr 2025): 109288 | Q1 | 4.2 | Materials Science and Engineering |
| 168 | BL3.1: XPS | Veann, C., Sichumsaeng, T., Kalawa, O., Chanlek, N., Kidkhunthod, P. and Maensiri, S. | Structure and Electrochemical Performance of Delafossite AgFeO2 Nanoparticles for Supercapacitor Electrodes | International Journal of Minerals, Metallurgy and Materials 32 (Jan 2025): 201–213 | Q1 | 5.6 | Materials Science and Engineering |
| 169 | BL3.1: XPS | Wanmolee, W., Kraithong, W., Phanthasri, J., Pipattanaporn, P., Samun, Y., Youngjan, S., Yodsin, N., Saengsrichan, A., Treetong, A., Phawa, C., Pakawanit, P., Fuangnawakij, K., Laurenti, D., Geantet, C., Sakdaronnarong, C., Khemthong, P. and Sukrong, S. | Structural Properties and Sustained Antimicrobial Activity of Thymol-Loaded Cellulose Nanofibers from One-Pot Synthesis via in Situ Dynamic Microfluidization | International Journal of Biological Macromolecules 306 (May 2025): 141712 | Q1 | 7.7 | Materials Science and Engineering |
| 170 | BL3.1: XPS | Wannasen, L., Chanlek, N., Mongkolthanaruk, W,, Daengsakul, S. and Pinitsoontorn, S. | Enhancing Electrochemical Properties of Bacterial Cellulose-Derived Carbon Nanofibers through Physical CO2 Activation | Materials Science for Energy Technologies 8 (2025): 13-23 | Q1 | 16.5 | Chemistry |
| 171 | BL3.1: XPS | Watcharamaisakul, S., Janphuang, N., Chueangam, W., Srisom, K., Rueangwittayanon, A., Rittihong, U., Tunmee, S., Chanlek, N., Pornsetmetakul, P., Wirojsirasak, W., Watanarojanaporn, N., Ruethaivanich, K. and Janphuang, P. | Synthesis of Turbostratic Graphene Derived from Biomass Waste Using Long Pulse Joule Heating Technique | Nanomaterials 15 (2025): 468 | Q1 | 4.4 | Materials Science and Engineering |
| 172 | BL3.1: XPS | Wiboon, M., Leangtanom, P., Jaruwongrungsee, K., Chanlek, N., Wisitsoraat, A., Yordsri, V., Kongpark, P., Pookmanee, P. and Kruefu, V. | Ultraefficient Ammonia Gas Sensors Based on Pt-Loaded WO3 Nanobars | Physica Status Solidi (A) 222 (Jun 2025): 2400175 | Q2 | 1.9 | Micro Nanotechnology |
| 173 | BL3.1: XPS | Yamchumporn, P., Boonin, K., Triamnak, N., Sareein, T., Singsoog, K., Seetawan, T., Limphirat, W., Chanlek, N. and Kaewkhao, J. | In-Situ X-Ray Absorption Near Edge Structure Spectroscopy Study and Thermoelectric Properties of 30Li2O: 3MoO3: 60B2O3: 7CuO Glass | Radiation Physics and Chemistry 224 (Nov 2024): 111934 | Q2 | 2.8 | Materials Science and Engineering |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 174 | BL3.1: XPS | Yusop, N., Yusuf, Y., Samsudin, M. E. A., Azmi, N. S., Ahmad, M. A., Chanlek, N. and Zainal, N. | Influence of Nitridation Time on Growth of AlN Layers on Different Sapphire Substrate Off-Cut Angles | Materials Science in Semiconductor Processing 187 (Mar 2025): 109130 | Q1 | 4.2 | Surface, Interface and Thin Films |
| 175 | BL3.2U: PES/PEEM | Adam, I. M., Soe, K. T., Ruengsrisang, W., Ketsombun, E., Supasai, T., Sutthibutpong, T., Rujisamphan, N. and Thongprong, N. | SnO2/Perovskite Interface Engineering with Mixed-Halide Potassium Salts: A Pathway to Efficient and Stable Perovskite Solar Cells through a Combined Experimental-Density Functional Theory Approach | ACS Applied Materials & Interfaces 17, 21 (2025): 31000-31012 | Q1 | 8.5 | Materials Science and Engineering |
| 176 | BL3.2U: PES/PEEM | Anggoro, D., Sudarsono, Purwandari, E., Baqiya, M. A., Ramli, M. M., Nakajima, H., Yudoyono, G. and Darminto | Tailoring Conductive Polyvinyl Alcohol Nanofibers: Thermal-Induced Structural evolution in Nitrogen for Energy Storage Device | Discover Materials | n/a | n/a | Materials Science and Engineering |
| 177 | BL3.2U: PES/PEEM | Auewattanapun, K., Bermundo, J. P. S., Hanifah, U., Nakajima, H., Limphirat, W., Techapiesancharoenkij, R. and Uraoka, Y. | Spectroscopic Analysis of Electrical Phenomena and Oxygen Vacancy Generation for Self-Aligned Fully Solution-Processed Oxide Thin-Film Transistors | ACS Applied Materials & Interfaces 16 (Oct 2024): 60521-60529 | Q1 | 8.5 | Surface, Interface and Thin Films |
| 178 | BL3.2U: PES/PEEM | Aye, N. N. S., Maraming, P., Tippayawat, P., Daduang, S., Techasen, A., Sithithaworn, P., Rujanakraikarn, R., Jearanaikoon, N., Phatthanakun, R., Supruangnet, R., Photongkam, P. and Daduang, J. | Synthesis and Characterization of a Novel All-in-One Graphene Oxide-Nafion Polymer Bioconjugate for Application in Electrochemical Biosensing of the Opisthorchis viverrini Antigen | ACS Omega 10 (2025): 13621-13633 | Q2 | 3.7 | Micro Nanotechnology |
| 179 | BL3.2U: PES/PEEM | Baqiya, M. A., Purwandari, E., Asih, R., Astuti, F., Nakajima, H., Ibrahim, A., Wong, L. H. and Darminto | A Brief Review and Prospect of Amorphous Carbon and Reduced Graphene Oxides Derived from Biomass as a Low Cost and New Photovoltaic Cell | Applied Surface Science 700 (Aug 2025): 163203 | Q1 | 6.3 | Materials Science and Engineering |
| 180 | BL3.2U: PES/PEEM | Bodinthitikul, N., Lertvanithphol, T., Horprathum, M., Chaikeeree, T., Nakajima, H., Milawan, S., Phae-ngam, W. and Jutarosaga, T. | Alternative Plasmonic Ti-Doped HfN Thin Films by Reactive Co-Magnetron Sputtering and their SERS Performances | Journal of Alloys and Compounds 1026 (May 2025): 180430 | Q1 | 5.8 | Surface, Interface and Thin Films |
| 181 | BL3.2U: PES/PEEM | Bunpheng, A., Saisopa, T., Iamprasertkun, P., Seubsai, A., Boonchun, A., Sirisaksoontorn, W. and Hirunpinyopas, W. | Tuning Physicochemical Properties of Boron Nitride-Based Membranes via Scalable One-Step Exfoliation for Ionic and Molecular Nanofiltration | ACS Materials Au 5 (Jul 2025): 687-697 | Q1 | 5.7 | Surface, Interface and Thin Films |
| 182 | BL3.2U: PES/PEEM | Chaikeeree, T., Kasayapanand, N., Mungkung, N., Phae-ngam, W., Botta, R., Lertvanithphol, T., Dhanasiwawong, K.,. Nakajima, H., Arunrungrusmi, S.,. Bodinthitikul, N., Klamchuen, A. and Horprathum, M. | Highly Stable and Reusable ZrHfN Nanorod Films: An Alternative SERS Substrate via Reactive co-Sputtering with OAD Technique | Applied Surface Science 689 (Apr 2025): 162500 | Q1 | 6.3 | Surface, Interface and Thin Films |
| 183 | BL3.2U: PES/PEEM | Chaiwas, S., Kasayapanand, N., Vora-ud, A., Chananonnawathorn, C., Kowong, R., Limwichean, S., Wongdamnern, N., Nakajima, H. and Horprathum, M. | Enhanced Thermoelectric Power Factor of Magnetron Co-Sputtered Pd-Added Bi2Te3 Thin Films | Vacuum 230 (Dec 2024): 113696 | Q1 | 3.8 | Surface, Interface and Thin Films |
| 184 | BL3.2U: PES/PEEM | Changpradub, K., Threrujirapapong, T., Lertvanithphol, T., Amarit, R., Wongpanya, K., Tantiwanichapan, K., Wutikhun, T., Klamchuen, A., Nakajima, H. and Horprathum, M. | Hybrid Nanoarchitectronics of Tantalum Oxide-Coated Gold Nanoparticles as Localized Surface Plasmon Resonance-Based Sensors for Volatile Organic Compounds Detection | Physica Status Solidi (A) Applications and Materials Science 222 (Jun 2025): 2400181 | Q2 | 1.9 | Surface, Interface and Thin Films |
| 185 | BL3.2U: PES/PEEM | Guo, X., Peng, Q., Shin, K., Zheng, Y., Tunmee, S., Zou, C., Zhou, X. and Tang, Y. | Construction of a Composite Sn-DLC Artificial Protective Layer with Hierarchical Interfacial Coupling Based on Gradient Coating Technology Toward Robust Anodes for Zn Metal Batteries | Advanced Energy Materials 14 (2024): 2402015 | Q1 | 24.4 | Materials Science and Engineering |
| 186 | BL3.2U: PES/PEEM | Henjongchom, N., Ruengsrisang, W., Soe, K. T., Kayunkid, N., Thongprong, N., Ketsombun, E., Chanlek, N., Supruangnet, R., Saiyasombat, C., Rujisamphan, N., Supasai, T. | Cesium Moderation and Structural Transformation on α-CsPbI2Br Perovskite Durability via Cation Retarding Migration: A Combined Simulation and Experimental Study | Solar Energy 288 (Mar 2025): 113290 | Q1 | 6 | Materials Science and Engineering |
| 187 | BL3.2U: PES/PEEM | Jiamprasertboon, A., Kafizas, A., Eknapakul, T., Choklap, T., Quinet, J., Sailuam, W., Jiang, P., Supruangnet, R., Nijpanich, S., Bootchanont, A., Boonyang, U., Siritanon, T. and Cottineau, T. | Insights into Unlocking the Latent Photocatalytic H2 Production Activity in the Protonated Aurivillius-Phase Layered Perovskite Na0.5Bi2.5Nb2O9 | Materials Research Bulletin 186 (Jun 2025): 113352 | Q1 | 5.3 | Materials Science and Engineering |
| 188 | BL3.2U: PES/PEEM | Kamal, S. A. A., Ritikos, R., Goh, B. T., Hafiz, S. M., Nakajima, N. and Tunmee, S. | Bending Response Performance in Nitrogen-Doped Reduced Graphene Oxide-PEDOT:PSS: The Impact of Nitrogen Flow Rate on the Nitrogen Doping Configurations | Diamond & Related Materials 151 (Jan 2025): 111771 | Q2 | 4.3 | Materials Science and Engineering |
| 189 | BL3.2U: PES/PEEM | Khemasiri, N., Chananonnawathorn, C., Horprathum, M., Pornthreeraphat, S., Saekow, B., Pankiew, A., Bootchanont, A., Songsiriritthigul, P., Nakajima, H., Kasamechonchung, P., Wongwiriyapan, W. Klamchue, A. and Nukeaw, J. | Rational Concept for Fully Designing Metal-Oxynitride Films through Reactive Gas-Timing Magnetron Sputtering: A Case Study on Zinc Oxynitride Film | Journal of Alloys and Compounds 1037 (Aug 2025): 182211 | Q1 | 5.8 | Surface, Interface and Thin Films |
| 190 | BL3.2U: PES/PEEM | Kittikool, T., Srathongsian, L., Seriwattanachai, C., Wongratanaphisan, D., Ruankham, P., Pakawatpanurut, P., Supruangnet, R., Nakajima, H. and Kanjanaboos, P. | 120-Day Perovskite Solution Stability via Deprotonation and Iodine Reduction by a Pyrazolone-Based Additive | Solar Energy Materials and Solar Cells 285 (Jun 2025); 113545 | Q1 | 6.3 | Materials Science and Engineering |
| 191 | BL3.2U: PES/PEEM | Koetniyom,W., Taweesup, Y., Somboonsaksri, P.., Srirak, M., Nakajima, H., Lertvanithphol, T., Patthanasettakul, V., Jaruwongrungsee, K., Pogfay, T., Horprathum, M. and Limwichean, S. | Combined Reactive Gas Timing Magnetron Sputtering and Glancing Angle Deposition Technique Fabrication of Vertically Aligned Amorphous TiO2 Nanorod Films | Physica Status Solidi (A) Applications and Materials Science 222 (May 2025): 2401004 | Q2 | 1.9 | Surface, Interface and Thin Films |
| 192 | BL3.2U: PES/PEEM | Lerdwiriyanupap, T., Waehayee, A., Choklap, T., Prachanat, J., Nakajima, H., Chankhanittha, T., Butburee, T. and Siritanon, T. | CeO2/BiYO3 Photocatalyst for the Degradation of Tetracycline under Visible Light Irradiation | Ceramics International 50 (Dec 2024): 52723-52732 | Q1 | 5.1 | Chemistry |
| 193 | BL3.2U: PES/PEEM | Manit, J., Kanjanaboos, P., Naweephattana, P., Naikaew, A., Srathongsian, L., Seriwattanachai, C., Nakajima, H., Supruangnet, R., Eiamprasert, U. and Kiatisevi, S. | Towards Device Stability of Perovskite Solar Cells through Low¬Cost Alkyl-Terminated SFX-Based Hole Transporting Materials and Carbon Electrodes | Scientific Reports volume 14 (2024): 24167 | Q1 | 3.8 | Materials Science and Engineering |
| 194 | BL3.2U: PES/PEEM | Naikaew, A., Burimart, S., Srathongsian, L., Seriwattanachai, C., Sakata, P., Choodam, K., Khotmungkhun, K., Kanlayakan, W., Pansa-Ngat, P., Thant, K. K. S., Kanlayapattamapong, T., Ruankham, P., Nakajima, H., Supruangnet, R. and Kanjanaboos, P. | Solvent-Tailored Carbon Paste for Effective Carbon-Based Perovskite Solar Cells | Solar RRL 9, 8 (Apr 2025): 2400910 | Q1 | 6 | Materials Science and Engineering |
| 195 | BL3.2U: PES/PEEM | Obrom, W., Yingyuen, W., Nanmong, T., Deekamwong, K., Tawachkultanadilok, P., Wittayakun, J., Prayoonpokarach, S., Poo-arporn, Y., Föttinger, K., Desaulniers, J. P. and Loiha, S. | Investigating the Role of Zeolite Supports in Ni-Based Catalysts for CO2-Methanation Using in Situ/Operando XAS–MS. | Microporous and Mesoporous Materials 390 (May 2025): 113548 | Q1 | 4.8 | Chemistry |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 196 | BL3.2U: PES/PEEM | Phae-ngam, W., Prathumsit, J., Chaikeeree, T., Bodinthitikul, N., Lertvanithphol, T., Nakajima, H., Jutarosaga, T., Horprathum, M. and Mungchamnankit, A. | Characterization of Ternary ZrHfN Thin Films Deposited by Closed-Field Dual-Cathode DC Unbalanced Reactive Magnetron Sputtering: A Preliminary Investigation on their Reusable SERS with High Thermal Stability | Materials Research Bulletin 185 (May 2025): 113301 | Q1 | 5.3 | Surface, Interface and Thin Films |
| 197 | BL3.2U: PES/PEEM | Phae-ngam,W., Chaikeeree, T., Lertvanithphol, T., Dhanasiwawong, K., Gitgeatpong, G., Prathumsit, J., Nakajima, H., Treetong, A., Mathurasa, L., Sangsirimongkolying, R., Limwichean, S., Botta, R., Klamchuen, A. and Horprathum, M. | Investigation of TiCN Thin Films Prepared by Cathodic Arc Deposition for Alternative SERS Substrates | Materials Letters 390 (Jul 2025): 138454 | Q2 | 2.7 | Surface, Interface and Thin Films |
| 198 | BL3.2U: PES/PEEM | Phae-ngam, W., Gitgeatpong, G., Prathumsit, J., Horprathum, M., Lertvanithphol, T., Triamnak, N. and Nakajima, H. | Structural, Morphological, and Chemical Composition of Ternary ZrHfN Thin Films Deposited by Reactive Co-Magnetron Sputtering | Materials Chemistry and Physics 328 (Dec 2024): 129940 | Q1 | 4.3 | Surface, Interface and Thin Films |
| 199 | BL3.2U: PES/PEEM | Promhuad, P., Sawatmongkhon, B., Wongchang, T., Sukjit, E., Theinnoi, N. and Theinnoi, K. | Silver-Based Catalysts on Metal Oxides for Diesel Particulate Matter Oxidation: Insights from In Situ DRIFTS | ChemEngineering 9 (2025): 42 | Q2 | 2.8 | Chemistry |
| 200 | BL3.2U: PES/PEEM | Pudkon, W., Kanlayapattamapong, T., Arpornrat, T., Seriwattanachai, C., Kanjanaboos, P., Sagawa, T., Supruangnet, R., Nakajima, H., Wongratanaphisan, D. and Ruankham, P. | Regulating Crystal Growth and Enhancing Efficiency in CsPbBr3 Perovskite Solar Cells through the Incorporation of Pb(SCN)2 Additive in Ambient Multistep Deposition | Ceramics International | Q1 | 5.1 | Surface, Interface and Thin Films |
| 201 | BL3.2U: PES/PEEM | Purwandari, E., Asih, R., Sudarsono, Anggoro, D., Priyanto, B., Timuda, G. E., Baqiya, M. A., Santoso, I., Nakajima, H., Ramli, M. M., Subekti, A. and Darminto | Semiconducting Biomass-Based Amorphous Carbon Films and their Potential Application in Photovoltaic Devices | Materials Science in Semiconductor Processing 187 (Mar 2025): 109122 | Q1 | 4.2 | Materials Science and Engineering |
| 202 | BL3.2U: PES/PEEM | Rujisamphan, N., Soe, K. T., Moontragoon, P., Yaro, A. A., Ketsombun, E., Supruangnet, R., Luo, D., Huang, Z. H., Liu, S. W. and Supasai, T. | Two-Dimensional Surface Passivation with Distinct Cations Enabling High Efficiency and Mechanical Durability in Flexible Perovskite Solar Cells | ChemSusChem 18 (Jun 2025): e202500232 | Q1 | 7.5 | Materials Science and Engineering |
| 203 | BL3.2U: PES/PEEM | Saisopa, T., Sailuam, W., Juntree, P., Nakajima, H., Supruangnet, R., Ceolin, D., Pinitsoontorn, S., Sirisathitkul, C., Songsiriritthigul, P., Pandech, N. and Eknapakul, T. | Formation and Characterization of Mn-Bi-Al Ternary Alloys of Enhanced Magnetic Performance in MnBi/Al Composites | Solid State Sciences 157 จนล 2024ฒช 107730 | Q2 | 3.4 | Materials Science and Engineering |
| 204 | BL3.2U: PES/PEEM | Seriwattanachai, C., Sahasithiwat, S., Chotchuangchutchaval, T., Srathongsian, L., Wattanathana, W., Ning, Z., Phuphathanaphong, N., Sakata, P., Thant, K. K. S., Sukwiboon, T., Inna, A., Kanlayapattamapong, T., Kaewprajak, A., Kumnorkaew, P., Supruangnet, R., Wongpinij, T., Nakajima, H., Wongratanaphisan, D., Pakawatpanurut, P., Ruankham, P. and Kanjanaboos, P | Ferrocene Interlayer for a Stable and Gap-Free P3HT-Based Perovskite Solar Cell as a Low-Cost Power Source for Indoor IoTs | ACS Photonics 12 (2025): 1329-1341 | Q1 | 6.5 | Materials Science and Engineering |
| 205 | BL3.2U: PES/PEEM | Tan, Y. P., Salleh, M. A. A. M., Sauli, Z., Somidin, F., Kamonsuangkasem, K., Tancharakorn, S., Tantanuch, W., Nakajima, H. and Nogita, K. | Role of Ag Additions on Microstructure, Phase Transformation and Thermal Reactions of In-35Sn Alloys | Journal of Materials Science: Materials in Electronics 36 (2025): 1649 | Q2 | 2.8 | Materials Science and Engineering |
| 206 | BL3.2U: PES/PEEM | Tipparak, P., Passatorntaschakorn, W., Khampa, W., Musikpan, W., Usulor, C. E., Bhoomanee, C., Singh, S., Gardchareon, A., Ngamjarurojana, A., Ruankham, P. and Wongratanaphisan, D. | The Impact of MAPbI3 Quantum Dots on CsFA Perovskite Solar Cells: Interface and Hole Extraction Improvement | ACS Applied Energy Materials 8 (2025): 355-365 | Q1 | 5.5 | Materials Science and Engineering |
| 207 | BL3.2U: PES/PEEM | Waehayee, A., Ngamwongwan, L., Kafizas, A., Chankhanittha,T., Butburee, T., Nakajima, H., Wannapaiboon, S., Pornsuwan, S., Suthirakun, S. and Siritanon, T. | Enhanced Photocatalytic Efficiency of Bi2MoO6 for Water and p-Nitroaniline Reduction via Iodate (I5+) Substitution: Implications of Small Polaron Formation | Chemical Engineering Journal 519 (Sep 2025): 165082 | Q1 | 13.2 | Chemistry |
| 208 | BL3.2U: PES/PEEM | Worathat, S., Pharino, U., Pakawanit, P., Rattanachata, A., Muanghlua, R., Hajra, S., Kim, H. J., Sriphan, S. and Vittayakorn, N. | Frictional Heat-Assisted Performance Enhancement in Dynamic Schottky Contact of Al/Ag2Se-Based Tribovoltaic Nanogenerator | Journal of Materiomics 11 (Jan 2025): 100854 | Q1 | 9.4 | Materials Science and Engineering |
| 209 | BL3.2U: PES/PEEM | Waiprasoet, S., Kidkhunthod, P., Nakajima, H., Ittisanronnachai, S., Prayongkul, P., Chattakoonpaisarn, C., Songkerdthong, J., Sukpoonprom, P., Sudyoadsuk, T., Promarak, V. and Pattanasattayavong, P. | Doping of Copper(I) Thiocyanate (CuSCN) with Metal Chlorides for p-Channel Thin-Film Transistors | ACS Applied Electronic Materials 6 (2024): 6837-6848 | Q1 | 4.3 | Materials Science and Engineering |
| 210 | BL3.2U: PES/PEEM | Watcharamaisakul, S., Janphuang, N., Chueangam, W., Srisom, K., Rueangwittayanon, A., Rittihong, U., Tunmee, S., Chanlek, N., Pornsetmetakul, P., Wirojsirasak, W., Watanarojanaporn, N., Ruethaivanich, K. and Janphuang, P. | Synthesis of Turbostratic Graphene Derived from Biomass Waste Using Long Pulse Joule Heating Technique | Nanomaterials 15 (2025): 468 | Q1 | 4.4 | Materials Science and Engineering |
| 211 | BL3.2U: PES/PEEM | Wongthawachnugool, S., Limwichean, S., Eiamchai, P., Somboonsaksri, P., Lertvanithphol, T., Pattanasettakul, V., Nakajima, H., Horprathum, M., Triroj, N. and Jaroenapibal, P. | Enhanced Hydrophilicity and Optical Properties of TiO2 Slanted Nanorod Films Fabricated by Reactive Gas-Timing Magnetron Sputtering with Oblique Angle Deposition Technique | Vacuum 238 (Aug 2025): 114327 | Q1 | 3.8 | Materials Science and Engineering |
| 212 | BL4.1: IR | Ayamuang, I., Teethaisong, Y., Sirichaiwetchakoon, K.,Suknasang, S., Watthana, S., Chaiseha, Y. and Eumkeb, G. | Galangin Synergistically Revives the Antibacterial Activity of Vancomycin Against Vancomycin-Resistant Enterococcus Faecium | Journal of Applied Microbiology 136 (Jan 2025): | Q2 | 3.2 | Medical Applications |
| 213 | BL4.1: IR | Charoensuk, L., Thongpon, P., Sitthirach, C., Chaidee, A., Intuyod, K.,Pairojkul, C., Khin, E. H. H., Jantawong, C., Thumanu, K., Pinlaor, P., Hongsrichan, N. and Pinlaor, S. | High-Fat/High-Fructose Diet and Opisthorchis Viverrini Infection Promote Metabolic Dysfunction-Associated Steatotic Liver Disease via Inflammation, Fibrogenesis, and Metabolic Dysfunction | Acta Tropica 261 (Jan 2025): 107491 | Q1 | 2.1 | Biological and Life Science |
| 214 | BL4.1: IR | Chuepeng, S., Klinkaew, N., Thumanu, K., Theinnoi, K., Sukjit, E. and Dearn, K. | Effects of Castor Oil as Lubricity Enhancer on Friction and Wear Characteristics of Piston Engine Running on Diesohol | International Journal of Engine Research | Q2 | 2.2 | Environmental Science |
| 215 | BL4.1: IR | Dunkhunthod, B., Thumanu, K., Teethaisong, Y., Sittisart, P. and Sittisart, P. | Cytoprotective Activity of Pogonatherum Paniceum (Lam.) Hack. Ethanolic Extract Evaluated by Synchrotron Radiation-Based Fourier Transform Infrared Microspectroscopy | Journal of Integrative Medicine 23 (Mar 2025): 182-194 | Q1 | 4.2 | Biological and Life Science |
| 216 | BL4.1: IR | Jantasaeng, O., Duclos, M. J., Thumanu, K., Okrathok, S.. and Khempaka, S. | Effects of Low-Purine Diet Supplemented with Sida Acuta Burm. f. on Growth Performance, Purine Deposition, and Biomolecules in Slow-Growing Chickens | Animal Bioscience 38 (2025): 17656-1772 | Q1 | 2.64 | Food and Agricultural Science |
| 217 | BL4.1: IR | Junyusen, T., Sonsomboonsuk, S., Junyusen, P., Chatchavanthatri, N., Nawong, S., Kamonsutthipaijit, N. and Pakawanit, P. | Ultra-Low Hydrostatic Pressure: A Novel Approach to Producing High-Quality Germinated Brown Rice Puffs | LWT - Food Science and Technology 226 (Jun 2025): 117981 | Q1 | 6 | Food and Agricultural Science |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 218 | BL4.1: IR | Kajornprai, T., Sringam, J., Seejuntuek, A., Kaewsuwan, D., Kamonsutthipaijit, N., Chio-Srichan, S., Suppakarn, N. and Trongsatitkul, T. | Crystal Evolution of Amorphous Poly(lactic acid) During Simultaneous Multi-step Tensile Deformation and Annealing | Journal of Polymer Science 63 (Jan 2025): 192-203 | Q1 | 3.9 | Polymers |
| 219 | BL4.1: IR | Maimansomsuk, S., Teangrom, P., Teanchai, C., Sinthuvanich, C., Ruengket, P., Attarataya, J. and Akkarachaneeyakorn, K. | Methacrylic Acid/Tween 80 Engineered Amorphous Calcium Phosphate as an Effective Bioactive Reinforcing Nanofillers in Dental Adhesive | Dental Materials Journal 44 (Apr 2025): 190-200 | Q2 | 1.9 | Medical Applications |
| 220 | BL4.1: IR | Nurhartadi, E., Rodtong, S., Thumanu, K., Park, S. H., Aluko, R. E. and Yongsawatdigul, J. | Antibacterial Activity of Enzymatic Corn Gluten Meal Hydrolysate and Ability to Inhibit Staphylococcus Aureus in Ultra-High Temperature Processed Milk | Food Control 169 (Mar 2025): 110998 | Q1 | 5.6 | Food and Agricultural Science |
| 221 | BL4.1: IR | Pimchan, T., Hamzeh, A., Siringan, P., Thumanu, K., Hanboonsong, Y. and Yongsawatdigul, J. | Antibacterial Peptides from Black Soldier Fly (Hermetia illucens) Larvae: Mode of Action and Characterization | Scientific Reports 14 (2024): 26469 | Q1 | 3.8 | Biological and Life Science |
| 222 | BL4.1: IR | Pongpiachan, S, Thumanu, K., Tanthanuch, W., Srisamut, D., Pradabsri, J., Hashmi, M. Z., Sun, Y. and Poshyachinda, S. | Using Synchrotron Based ATR-FTIR, EXAFS, and XRF to Characterize the Chemical Compositions of TSP in Industrial Estate Area | Heliyon 10 (oct 2024); e39215 | Q1 | 3.4 | Chemistry |
| 223 | BL4.1: IR | Poopisut, P., Somredngan, S., Thumanu, K., Parnpai, R. and Boontawan, A. | Production of Nanocellulose-Based Biopolymer Scaffold for Liver Tissue Engineering | Trends in Sciences 22 (2025): 10049 | Q3 | 0.82 | Medical Applications |
| 224 | BL4.1: IR | Somboon, S., Schlichenmaier, S., Thumanu, K., Pakawanit, P., Yodda, S., Sukitprapanon, T. and Lawongsa, P. | Transformations in Physicochemical Properties and Pore Structure of Biochar Derived from Rice Straw Revealed by Synchrotron Techniques | Scientific Reports 15 (2025): 23641 | Q1 | 3.8 | Environmental Science |
| 225 | BL4.1: IR | Soontharapirakkul, K., Kuaprasert, B. and Choowongkomon, K. | Investigating Tiger Milk Mushroom (Lignosus rhinocerus) Biochemical Component Yield and Anticancer Properties Based on Different Casing Materials | Agriculture and Natural Resources 58 (2024): 513–526 | Q3 | 0.321 | Medical Applications |
| 226 | BL4.1: IR | Suwor, F., Kubota, S., Nawong, S., Thuangsanthia, A., Toyra, M., Paengkoum, P. and Ponchunchoovong, S. | Effects of Cryoprotectant Combinations on Post-Thawed Sperm Quality, Biomolecular Changes, DNA Methylation, and Pregnancy Rates in Boer Goat Semen | Veterinary Sciences 12 (2025): 178 | Q1 | 2 | Biological and Life Science |
| 227 | BL4.1: IR | Thepbandit, W., Nawong, S. and Athinuwat, D. | Potential of a Microbial Co-Culture Composed of Bacillus Vallismortis TU-Orga21 and Bacillus subtilis TU-Orga1 to Improve the Efficacy of Controlling Damping-Off Caused by Pythium Aphanidermatum in Kale | Plant Pathology 74 (Aug 2025): 1527-1543 | Q1 | 2.3 | Food and Agricultural Science |
| 228 | BL5.2: XAS | Azarian, M. H., Yuwawech, K., Tanthanuch, W., Junyusen, T., Wootthikanokkhan, J. and Sutapun, W. | Biocompatible, Biodegradable, and Antimicrobial Food Packaging Film from Polylactic Acid and Biogenic Vaterite CaCO3-Ag Hybrid | Polymers 17, 10 (2025): 1345 | Q1 | 4.7 | Food and Agricultural Science |
| 229 | BL5.2: XAS | Chandakhiaw, T., Teaumroong, N.,Piromyou, P., Songwattana, P., Tanthanuch, W., Tancharakorn, S. and Khumkoa, S. | Efficiency of Penicillium sp. and Aspergillus sp. for Bioleaching Lithium Cobalt Oxide from Battery Wastes in Potato Dextrose Broth and Sucrose Medium | Results in Engineering 24 (Dec 2024): 103170 | Q1 | 6 | Materials Science and Engineering |
| 230 | BL5.2: XAS | Chang, X., Chacón-Borrero, J., Shang, J., Xiao, K., Montaña-Mora, G., Mejia-Centeno, K. V., Lu, X., Yu, A., Yu, J., Zhou, X., Tunmee, S., Kidkhunthod, P., Cui, C., Li, J., Tang, Y., Martínez-Alanis, P. R., Arbiol, J. and Cabot, A. | Improved Mn4+/Mn2+ Contribution in High-Voltage Zn–MnO2 Batteries Enabled by an Al3+-Ion Electrolyte | Advanced Energy Materials 14 (2024): 2402584 | Q1 | 24.4 | Materials Science and Engineering |
| 231 | BL5.2: XAS | Charinpanitkul, T., Faungnawakij, K., Bamrungsap, S., Kiatphuengporn, S. and Tanthapanichakoon, W. | Advancement and Contributions of Nanoparticle Technology in Thailand from 2008 to 2024 | KONA Powder and Particle Journal | Q2 | 4.1 | Micro Nanotechnology |
| 232 | BL5.2: XAS | Chinnakutti, K. K., Sinthong, S., Gao, H., Tapia-Ruiz, N., Kidkhunthod, P. and Kasemchainan, J. | Unveiling Reaction Mechanisms of Non-Aqueous Aprotic Zn-Ion Batteries –Zn/LiFePO4 System | Journal of Alloys and Compounds 1010 (Jan 2025): 177279 | Q1 | 5.8 | Materials Science and Engineering |
| 233 | BL5.2: XAS | Chacon-Borrero, J., Chang, X., Min, Z., Yu, J., Montana-Mora, G., Mejia-Centeno, K. V., Sun, Y., Zhou, X., Tunmee, S., Kidkhunthod, P., Li, J., Llorca, J., Arbiol, J. and Cabot, A. | Boosting High-Loading Zinc-Ion Battery Performance: Zn-Doped δ-MnO2 Cathodes to Promote Zn2+ Storage | Energy Storage Materials 81 (Sep 2025): 104486 | Q1 | 18.9 | Materials Science and Engineering |
| 234 | BL5.2: XAS | Chuewangkam, N., Kidkhunthod, P. and Pinitsoontorn, S. | Direct Evidence for the Mechanism of Early-Stage Geopolymerization Process | Case Studies in Construction Materials 21 (Dec 2024): e03539 | Q1 | 6.5 | Chemistry |
| 235 | BL5.2: XAS | Cui, S., Zhong, X., Li, Z., Zhu, P., Hu, J., Zhou, X., Kidkhunthod, P., Wang, X. , Mei, B. and Xu, B. | Nanosecond Laser Synthesis of MXene-Derived TiO2/High-Entropy Alloys for Photo-Assisted Zinc–Air Batteries | Advanced Materials 37, 35 (Sep 2025): 2504099 | Q1 | 27.4 | Chemistry |
| 236 | BL5.2: XAS | Guo, Y., Chen, Y.,. Lim, G. J. H., Zhu, S., Lekina, Y., Cai, Y., Verma, V., Chan, K. K., Lim, J. J. N., Tang, E. J. J., Kidkhunthod, P., Wong, M. W., Huang, Y., Shen, Z. X. and Srinivasan, M. | Reversible Alkaline Sulfur Cathode Based on Six-Electron Electrochemistry for Advanced Aqueous Sulfur Batteries | ACS Nano 19 (2025): 15522-15536 | Q1 | 15.8 | Materials Science and Engineering |
| 237 | BL5.2: XAS | Ji, B., Wang, Y., Zheng, Y., Zhou, X., Kidkhunthod, P., Song, L. and Tang, Y. | Uncovering the Nonmonotonic Relationship between Total Activity and Single-Atom Density for Oxygen Reduction Catalysis | The Journal of Physical Chemistry Letters 16 (2025): 3133-3140 | Q1 | 4.9 | Chemistry |
| 238 | BL5.2: XAS | Juntree, P., Siriroj, S., Padchasri, J., Songsiriritthigul, P. and Kidkhunthod, P. | Development of Li-Ion Batteries Cathode Materials by Using Nickel and Cobalt Mixed Li-Borate Base Glass Composite with V2O5 via Melt Quenching Method | Journal of Alloys and Compounds 1016 (Feb 2025): 178961 | Q1 | 5.8 | Materials Science and Engineering |
| 239 | BL5.2: XAS | Khejonrak, A., Montreeuppathum, A., Siriroj, S., Padchasri, J., Pasee, S., Chanlek, N., Kheawhom, S. and Kidkhunthod, P. | The Role of Sodium in the Electrochemical Tuning of Li2TiSiO5 Anodes Across Ceramic and Glass Phases | Heliyon 10 (2024): e39410 | Q1 | 3.4 | Chemistry |
| 240 | BL5.2: XAS | Klinyod, S., Yomthong, K., Suttipat, D., Pornsetmetakul, P., Kidkhunthod, P., Choojun, K., Namuangruk, S., Sooknoi, T. and Wattanakit, C. | Tailoring the First Coordination Shell of Isolated Ti(IV) Active Sites in Zeolite Frameworks Boosting Catalytic Activity in Epoxidation | ChemCatChem (2025): e202401862 | Q1 | 3.8 | Chemistry |
| 241 | BL5.2: XAS | Kulawong, S., Kidkhunthod, P., Chanlek, N., Wittayakun, J. and Osakoo, N. | Iron Hematite-Magnetite Composite Supported on Mesoporous SBA-15 Synthesized by Using Silica from Cogon Grass as a Solid Catalyst in Phenol Hydroxylation | Materials Chemistry and Physics 329 (Jan 2025): 130057 | Q1 | 4.3 | Materials Science and Engineering |
| 242 | BL5.2: XAS | Lim, G. J. H., Koh, J. J., Chan, K. K., Koh, X. Q., Padchasri, J., Sutrisnoh, N. A. A., Verma, V., Raju, K., Kidkhunthod, P. and Srinivasan, M. | Reinforced Chitosan Polymer Electrolyte for Long-Life and Robust Laminated Li-Zn Structural Batteries | Advanced Functional Materials 35 (Aug 2025); 2423149 | Q1 | 18.5 | Materials Science and Engineering |
| 243 | BL5.2: XAS | Htet, T. L., Sripirommit, S., Asava-arunotai, M., Thu, M. M., Panomsuwan, G., Techapiesancharoenkij, R., Kidkhunthod, P., Padchasri, J. and Jongprateep, O. | Enhanced Nitrite and Phosphate Detection through Ag-Doped TiO2 Sensing Material | International Journal of Minerals, Metallurgy and Materials 32 (2025): 2280-2293 | Q1 | 5.6 | Materials Science and Engineering |
| 244 | BL5.2: XAS | Meeboonanake, N., Pengsawang, A., Kraithong, W., Jiratanachotikul, A., Khemthong, P., Butburee, T., Kiatphuengporn, S.,Thongratkaew, S., Junkaew, A., Donphai, W., Faungnawakij, K. and Kuboon, S. | Nickel Phyllosilicate-Based Catalyst Derived from Bagasse Fly Ash for H2 Production via Dry Reforming of Methane | International Journal of Hydrogen Energy 138 (2025): 368-378 | Q1 | 8.1 | Chemistry |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 245 | BL5.2: XAS | Myint, W., Lolupiman, K., Yang, C., Woottapanit, P., Limphirat, W., Kidkhunthod, P., Muzakir, M., Karnan, M., Zhang, X. and Qin, J. | Exploring the Electrochemical Superiority of V2O5/ TiO2@Ti3C2-MXene Hybrid Nanostructures for Enhanced Lithium-Ion Battery Performance | ACS Applied Materials & Interfaces 16 (2024): 53764-53774 | Q1 | 8.3 | Chemistry |
| 246 | BL5.2: XAS | Naknonhan, S., Amnuaypanich, S., Randorn, C., Tanthanuch, W. and Amnuaypanich, S. | Pivotal Role of CaCO3 in Ca/ZnO Photocatalyst for Promoting the Degradation of Trichlorophenol | Journal of Environmental Chemical Engineering 13 (Apr 2025): 115501 | Q1 | 7.4 | Environmental Science |
| 247 | BL5.2: XAS | Obrom, W., Yingyuen, W., Nanmong, T., Deekamwong, K., Tawachkultanadilok, P., Wittayakun, J., Prayoonpokarach, S., Poo-arporn, Y., Föttinger, K., Desaulniers, J. P. and Loiha, S. | Investigating the Role of Zeolite Supports in Ni-Based Catalysts for CO2-Methanation Using in Situ/Operando XAS–MS. | Microporous and Mesoporous Materials 390 (May 2025): 113548 | Q1 | 4.8 | Chemistry |
| 248 | BL5.2: XAS | Padchasri, J., Siriroj, S., Montreeuppathum, A., Pakawanit, P., Laorodphan, N., Chanlek, N., Poo-arporn, Y. and Kidkhunthod, P. | Li-S-B Glass-Ceramics: A Novel Electrode Materials for Energy Storage Technology | Materials Science for Energy Technologies 8 (2025): 111–120 | Q1 | 6.77 | Materials Science and Engineering |
| 249 | BL5.2: XAS | Phatai, P., Siri-udom, S., Khemthong, P., Youngjan, S., Butburee, T., Roschat, W., Khunphonoi, R., Futalan, C. M., Kamonwannasit, S., Prasitnok, K. and Prasitnok, O. | Enhanced Antibacterial Activity of ZIF-8 and ZIF-67 Loaded Mn0.5/Ce0.5 Mixed Oxide–Hydroxyapatite Composites | Materials Chemistry and Physics 346 (2025): 131344 | Q1 | 4.3 | Medical Applications |
| 250 | BL5.2: XAS | Promchana, P., Choojun, K., Wengwirat, K., Limphirat, W. and Sooknoi, T. | Highly Dispersed WOx/SiO2 Catalysts Derived from W-TRIS Complex for Efficient Biobutadiene Productio from Acetylene-Ethylene Cross-Metathesis | Industrial & Engineering Chemistry Research 64 (2025): 18989-19002 | Q1 | 3.8 | Chemistry |
| 251 | BL5.2: XAS | Sereerattanakorn, P., Siriroj, S., Padchasri, J., Maitarad, P. and Kidkhunthod, P. | Lithium Borate Glass Ceramics and Multiwalled Carbon Nanotube Composites as Efficient Sulfur Hosts for Enhanced Lithium–Sulfur Batteries | ACS Applied Electronic Materials 7, 9 (2025): 3974-3982 | Q1 | 4.4 | Materials Science and Engineering |
| 252 | BL5.2: XAS | Shin, K., Pei, Y., Zhou, X., Chen, Q., Kidkhunthod, P., Zheng, Y., Guo, X., Tunmee, S., Zhang, Q. and Tang, Y. | Reversible Anion-Cation Relay-Intercalation in a T-MnO2 Cathode to Boost the Efficiency of Aqueous Dual-Ion Batteries | Advanced Materials 37 (Jan 2025): 2413645 | Q1 | 27.4 | Materials Science and Engineering |
| 253 | BL5.2: XAS | Shoosri, T., Thongratkaew, S., Rungtaweevoranit, B., Kraithong, W., Faungnawakij, K., Teerawatananond, T., Sooknoi, T., Kuboon, S., Panpranot, J. and Weerachawanasak, P. | Role of Copper Species in Copper Phyllosilicate Catalysts for the Catalytic Transfer Hydrogenation of Furfural to γ-Valerolactone | ChemCatChem 17 (2025): e202401661 | Q1 | 3.8 | Chemistry |
| 254 | BL5.2: XAS | Siri-Udom, S., Prasitnok, O., Prasitnok, K., Khemthong, P., Phawa, C., Roschat, W., Utara, S., Prachumrak, N., Sripirom, J. and Phatai, P. | Synthesis, Characterization, and Functional Analysis of Mixed Manganese/Cerium Oxide/Hydroxyapatite Nanocomposites for Antibacterial Applications | Journal of Cluster Science 36 (2025): | Q2 | 2.7 | Medical Applications |
| 255 | BL5.2: XAS | Sinprachim, T., Klompong, N., Chanlek, N., Kidkhunthod, P., Maensiri, S., Siripongdee, S., Chamsuk, W., Ohgoe, Y., Thouglor, P., Albutt, N. and Sonsupap, S. | Multi-phase Structure Electrospun CNF@Ag/Mn/Bi/Fe Composite Nanofiber Enhanced Supercapacitor Behavior | Journal of Alloys and Compounds 1016 (feb 2025): 178922 | Q1 | 5.8 | Materials Science and Engineering |
| 256 | BL5.2: XAS | Song, T., Wang, C., Kidkhunthod, P., Zhou, X., Zhu, A., Lan, Y., Liu, K., Liang, J., Zhang, W., Yao, W., Tang, Y. and Lee, C. S. | Chemical Disorder Engineering Enables High-Voltage Stable Oxide Cathodes over –20–25 ℃ in Sodium-Ion Batteries | Energy Storage Materials 76 (Mar 2025): 104106 | Q1 | 18.9 | Materials Science and Engineering |
| 257 | BL5.2: XAS | Solehudin, M., Wengwirat, K., Promchana, P., Poo-arporn, Y., Limphirat, W., Choojun, K. and Sooknoi, T. | Hydrogen-Free Production of Green Diesel from Deoxygenation of Methyl Palmitate via Cross-Metathesis with Bio-Ethylene Using SupportedWO3 Catalyst | Chemistry - An Asian Journal 20 (Jun 2025): e01581 | Q2 | 3.5 | Chemistry |
| 258 | BL5.2: XAS | Sukpoonprom, P., Kidkhunthod, P., Chattakoonpaisan, C., Ittisanronnachai, S., Sudyoadsuk, T., Promarak, V. and Pattanasattayavong, P. | Defect Healing and Improved Hole Transport in CuSCN by Copper(I) Halide | Journal of Materials Chemistry C 13 (2025): 7472-7483 | Q1 | 5.7 | Materials Science and Engineering |
| 259 | BL5.2: XAS | Sun, Y., Kurosaki, K., Imamura, T., Torata, R., Ohishi, Y., Palaporn, D., Nachaithong, T., Pinitsoontorn, S., Padchasri, J., Kidkhunthod, P., Suwannaruang, M. and Tanusilp, S. | Investigating Thermoelectric Properties of GeTe Alloys with Multi Element Doping: Insights from High-Entropy Engineering | ACS Omega 10 (2025); 32112-32121 | Q1 | 4.3 | Materials Science and Engineering |
| 260 | BL5.2: XAS | Suwannaruang, T., Wantala, K., Phuthongkhao, P., Hundt, J. P., Taffa, D. H., Wark, M. and Kidkhunthod, P. | Revealing Improved Photocatalytic Decomposition of Fuoroquinolone Antibiotic Over Hydrothermally Grown Perovskite SrTi1-xFexO3 Nanostructures | Surfaces and Interfaces 60 (Mar 2025): 106001 | Q1 | 5.7 | Environmental Science |
| 261 | BL5.2: XAS | Suwannaruang, T., Wantala, K., Shivaraju, H. P., Shahmoradi, B., Kidkhunthod, P., Chanlek, N., Nijpanich, S., Chirawatkul, P. and Saiyasombat, C. | Visible-Light-Driven Photodegradation of Pt-Derivative Anticancer Drug Carboplatin Over La-Fe-Modified SrTiO3 with Simultaneous Doping and Enhanced Pt-Photodeposited Catalyst | Journal of Water Process Engineering 71 (Mar 2025): 107387 | Q1 | 6.3 | Environmental Science |
| 262 | BL5.2: XAS | Thanee, K., Youngjan, S., Toomsan, W., Impeng, S., Namuangruk, S., Butburee, T., Rungnim, C., Prasitnok, K., Chawengkijwanich, C., Khunphonoi, R., Nijpanich, S., Faungnawakij, K., Phanthasri, J. and Khemthong, P. | Scalable and Sustainable Synthesis of Activated Carbon-Supported Nanosilver with Sugar and Starch as Dual Agents for Disinfection and Chloroform Removal | Journal of Environmental Chemical Engineering 13 (Apr 2025): 115526 | Q1 | 7.4 | Environmental Science |
| 263 | BL5.2: XAS | Toomsan, W., Butcha, S., Paiplod, P., Bobuatong, K., Kittisabhorn, A., Yodsin, N., Phanthasri, J., Youngjan, S., Thongratkaew, S., Tanthanuch, W., Faungnawakij, K., Khemthong, P. | Impact of ZnO Morphology on the Catalytic Pathways for Glucose Conversion | Surfaces and Interfaces 62 (Apr 2025): 106288 | Q1 | 5.7 | Chemistry |
| 264 | BL5.2: XAS | Veann, C., Sichumsaeng, T., Kalawa, O., Chanlek, N., Kidkhunthod, P. and Maensiri, S. | Structure and Electrochemical Performance of Delafossite AgFeO2 Nanoparticles for Supercapacitor Electrodes | International Journal of Minerals, Metallurgy and Materials 32 (Jan 2025): 201–213 | Q1 | 5.6 | Materials Science and Engineering |
| 265 | BL5.2: XAS | Waiprasoet, S., Kidkhunthod, P., Nakajima, H., Ittisanronnachai, S., Prayongkul, P., Chattakoonpaisarn, C., Songkerdthong, J., Sukpoonprom, P., Sudyoadsuk, T., Promarak, V. and Pattanasattayavong, P. | Doping of Copper(I) Thiocyanate (CuSCN) with Metal Chlorides for p-Channel Thin-Film Transistors | ACS Applied Electronic Materials 6 (2024): 6837-6848 | Q1 | 4.3 | Materials Science and Engineering |
| 266 | BL5.2: XAS | Wengwirat, K., Choojun, K., Promchana, P., Limphirat, W. and Sooknoi, T. | Bio-Derived Butadiene from Cross-Metathesis over Silanol Rich WO3 Catalysts Obtained from Copper Phyllosilicate | Catalysis Science & Technology 15 (2025); 3009-3021 | Q2 | 4.4 | Chemistry |
| 267 | BL5.2: XAS | Wongnaree, N., Patcharawit, T., Yingnakorn, T. and Khumkoa, S. | Leaching Kinetics of Valuable Metals from Calcined Material of Spent Lithium-Ion Batteries | ACS Omega 9 (2024): 46822-46833 | Q2 | 3.7 | Materials Science and Engineering |
| 268 | BL5.2: XAS | Xu, H., Wu, N., Ji, B., Cai, J., Yao, W., Wang, Z., Zhang, Y., Zhang, X., Guo, S., Zhou, X., Kidkhunthod, P., Zheng, Y. and Tang, Y. | Lattice Water Deprotonation Enables Potassium-Ion Chemistries | Angewandte Chemie 64, 27 (Jul 2025): e202503904 | Q1 | 16.9 | Materials Science and Engineering |
| 269 | BL6: DXL | Kanpipit, N., Mattariganont, S., Janphuang, P., Rongsak, J., Daduang, S., Chulikhit, Y. andThapphasaraphong, S. | Comparative Study of Lycopene-Loaded Niosomes Prepared by Microfluidic and Thin-Film Hydration Techniques for UVB Protection and Anti-Hyperpigmentation Activity | International Journal of Molecular Sciences 25 (2024): 11717 | Q1 | 4.9 | Surface, Interface and Thin Films |
| 270 | BL6: DXL | Monkratok, J., Janphuang, P., Chansaenpak, K., Lisnund, S., Blay, V. and Pinyou, P. | Small but Mighty: A Microfluidic Biofuel Cell-Based Biosensor for the Determination of Ethanol | Molecules 30 (2025): 673 | Q1 | 4.2 | Micro Nanotechnology |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 271 | BL6: DXL | Ngokpho, B., Janphuang, P., Nijpanich, S. Chanlek, N., Wannapaiboon, S., Siritanon, T. and Ngamchuea, K. | Halide-Mediated Electrochemical Modification of Copper Phthalocyanine for Humidity Sensing Applications | Materials Advances 6 (2025): 658-669 | Q1 | 5.2 | Materials Science and Engineering |
| 272 | BL7.2: MX | Kuaprasert, B., Leartsakulpanich, U., Riangrungroj, P., Pornthanakasem, W., Suginta, W., Mungthin, M., Leelayoova, S., Kiriwan, D. and Choowongkomon, K. | Crystal Structure of Leishmania orientalis Triosephosphate Isomerase at 1.88 Å Resolution and Its Specific Inhibitors | Biochimie 233 (Jun 2025): 27-35 | Q1 | 3.3 | Medical Applications |
| 273 | BL7.2: MX | Pan-utai,W., Phomkaivon, N., Settachaimongkon, S., Pongponpai, P. and Songsiriritthigul, C. | Extraction, Characterization, Biological Properties, and X-Ray Fluorescence Analysis of Functional Polysaccharides Derived from Limnospira platensis | Life 15 (2025): 1213 | Q1 | 3.2 | Biological and Life Science |
| 274 | BL7.2: MX | Pongpiachan, S, Thumanu, K., Tanthanuch, W., Srisamut, D., Pradabsri, J., Hashmi, M. Z., Sun, Y. and Poshyachinda, S. | Using Synchrotron Based ATR-FTIR, EXAFS, and XRF to Characterize the Chemical Compositions of TSP in Industrial Estate Area | Heliyon 10 (Oct 2024); e39215 | Q1 | 3.4 | Chemistry |
| 275 | BL7.2: MX | Simanullang, W. F., Nganglumpoon, R., Watmanee, S., Pinthong, P., Tolek, W., Liu,Y. and Panpranot, J. | Room Temperature Synthesis of 3D-Nanocrystalline Graphitic Carbon from Biomass-Derived Sugars, Alcohols, and Polyphenolic Compounds | Nanoscale Advances 6 (2024): 4094-4102 | Q1 | 4.6 | Materials Science and Engineering |
| 276 | BL7.2: MX | Tan, Y. P., Salleh, M. A. A. M., Sauli, Z., Somidin, F., Kamonsuangkasem, K., Tancharakorn, S., Tantanuch, W., Nakajima, H. and Nogita, K. | Role of Ag Additions on Microstructure, Phase Transformation and Thermal Reactions of In-35Sn Alloys | Journal of Materials Science: Materials in Electronics 36 (2025): 1649 | Q2 | 2.8 | Materials Science and Engineering |
| 277 | BL7.2: MX | Tandhavanant, S., Yimthin, T., Sengyee, S., Charoenwattanasatien, R., Lebedev, A. A., Lafontaine, E. R., Hogan, R. J., Chewapreecha, C., West , T. E., Brett, P.J., Burtnick, M. N. and Chantratita, N. | Genetic Variation of Hemolysin Co-regulated Protein 1 Affects the Immunogenicity and Pathogenicity of Burkholderia Pseudomallei | PLOS Neglected Tropical Diseases 19 (Jan 2025): e0012758 | Q1 | 3.4 | Biological and Life Science |
| 278 | BL7.2: MX | Wen, Y., Yu, K., Zhan, S., Liao, X., Zhang, Z., Ran, X., Li, B., Wannapaiboon, S. and Yan, M. | Stacking Pressure Modulated Deposition and Dissolution of Zinc Anode | Nano-Micro Small 21 (Apr 2025): 2501242 | Q1 | 13 | Materials Science and Engineering |
| 279 | BL7.2: MX | Zaimi, N. S. M., Salleh, M. A. A. M., Aziz, M. S. A., Nadzri, N. I. M., Baser, M. F. H., Tanthanuch, W., Tancharakorn, S., Mothong, N. and Khor, C. Y. | Microstructure Refinement, Thermal Stability and Mechanical Properties Improvements of Sn-3.0Ag-0.5Cu-xSb | Materials Characterization 227 (Sep 2025): 115324 | Q1 | 5.5 | Materials Science and Engineering |
| 280 | BL8: XAS | Auewattanapun, K., Bermundo, J. P. S., Hanifah, U., Nakajima, H., Limphirat, W., Techapiesancharoenkij, R. and Uraoka, Y. | Spectroscopic Analysis of Electrical Phenomena and Oxygen Vacancy Generation for Self-Aligned Fully Solution-Processed Oxide Thin-Film Transistors | ACS Applied Materials & Interfaces 16 (Oct 2024): 60521-60529 | Q1 | 8.5 | Surface, Interface and Thin Films |
| 281 | BL8: XAS | Chavalekvirat, P., Saisopa, T., Sornnoei, N., Hirunpinyopas, W., Sirisaksoontorn, W., Busayaporn, W. and Iamprasertkun, P. | Tunable Properties of WSe2 Nanosheets and Nano-Dispersion via Energy Dependent Exfoliation | Materials Reports: Energy 5 (May 2025): 100326 | Q1 | 13 | Materials Science and Engineering |
| 282 | BL8: XAS | Chaiyapo, N., Jeong, Y., Plueksachard, S., Phuenhinlad, P., Thanwisai, P., Nash, J., Limphirat, W.,. Theerthagiri, J., Choi, M. Y. and Meethong, N. | Impact of Electrolyte Concentration on Surface Properties and Electrochemical Performance of Aluminum Anodes in Aluminum-Ion Batteries | Advanced Materials Interfaces 12 (Aug 2025): e00289 | Q1 | 4.4 | Materials Science and Engineering |
| 283 | BL8: XAS | Chunhakowit, P., Phabjanda, Y., Aunwisat, A., Busayaporn, W., Songsrirote, K. and Prayongpan, P. | Fabrication of Tannic Acidincorporated Polyvinylpyrrolidone/Polyvinyl Alcohol Composite Hydrogel and Its Application as an Adsorbent for Copper Ion Removal | Scientific Reports 14 (2024): 28259 | Q1 | 3.8 | Polymers |
| 284 | BL8: XAS | Denala, D., Busayaporn, W., Limphirat, W., Mahakot, S. and Jitkarnka, S. | Cu Substitution on LaCuxNi1−xO3 Perovskite Structure and Catalytic Activity for Glycerol Conversion Using Various Glycerol Feeds under Base- and H2-Free Conditions | ACS Omega 10 (2025): 41310-41326 | Q2 | 3.7 | Chemistry |
| 285 | BL8: XAS | Etesami, M., Mano, P., Namuangruk, S., Khezri, R., Gopalakrishnan, M., Limphirat, W., Yonezawa, T., Motlagh, S. R., Somwangthanaroj, A. and Kheawhom, S. | Solvent-free Synthesis of FeCo Alloy Nanoparticle-Embedded Nitrogen-Doped Carbon Nanotubes for Oxygen Reduction in Zinc-Air Batteries | International Journal of Hydrogen Energy 153 (Jul 2025): 150289 | Q1 | 8.3 | Chemistry |
| 286 | BL8: XAS | Khezri, R., Motlagh, S. R., Etesami, M., Pakawanit, P., Limphirat, W., Kidkhunthod, P., Kamchompoo, S., Jungsuttiwong, S., Olaru, S. and Kheawhom, S. | Tuning Zinc Deposition Chemistry: The Role of Barium Nitrate in Enhancing Zinc-Air Battery Longevity | Chemical Engineering Journal 519 (Sep 2025): 165752 | Q1 | 13.2 | Materials Science and Engineering |
| 287 | BL8: XAS | Gopalakrishnan, M., Hlaing, m. T., Kulandaivel, T., Kao-ian, W., Etesami, M., Liu, W. R., Nguyen, M. T., Yonezawa, T., Limphirat, W. and Kheawhom, S. | Tunable N-doped Carbon Dots/SnO2 Interface as a Stable Artificial Solid Electrolyte Interphase for High-Performance Aqueous Zinc-Ion Batteries | Journal of Alloys and Compounds 1013 (Jan 2025): 178521 | Q1 | 5.8 | Materials Science and Engineering |
| 288 | BL8: XAS | Govindarajan, D., Selvaraj, M., Limphirat, W., Kirubaharan, K., Murugadoos, G., Theerthagiri, J., Choi, M. Y. and Kheawhom, S. | Synergistic Effects of Haematite/Hausmannite Anchored Graphene Hybrids in High-Energy Density Asymmetric Supercapacitors | Journal of Alloys and Compounds 1004 (2024) 175949 | Q1 | 5.8 | Materials Science and Engineering |
| 289 | BL8: XAS | Govindarajan, D., Sanni, A., Limphirat, W., Kirubaharan, K., Murugadoss, G., Mohamad, A. A., Yonezawa, T. and Kheawhom, S. | Atomic-Level Synergy in Multi-valent Metal Oxide-Graphene Composites for Ultra-High-Performance Supercapacitors | Journal of Alloys and Compounds 1039 (Aug 2025); 183022 | Q1 | 5.8 | Materials Science and Engineering |
| 290 | BL8: XAS | Kulandaivel, T., Gopalakrishnan, M., Limphirat, W., Wu, K. C. W., Liu, W. R., Pattananuwat, P. and Kheawhom, S. | Fused Ni9S6-Co9S8 Heterojunction Anchored on Porous Graphitic Carbon for High-Performance Asymmetric Supercapacitors | Journal of Alloys and Compounds 1026 (May 2025): 180481 | Q1 | 5.8 | Materials Science and Engineering |
| 291 | BL8: XAS | Kulandaivel, T., Gopalakrishnan, M., Limphirat, W., Pornrungroj, C., Liu, W. R., Mohamad, A. A., Nguyen, M. T. and Yonezawa, T. | Hybrid g-C3N4/Sulfur-Enclosed MnS Micro/nanorods Accelerate Electron-Ion Transport and Asymmetric Supercapacitor Performance | Journal of Alloys and Compounds 1010 (Jan 2025): 178268 | Q1 | 5.8 | Materials Science and Engineering |
| 292 | BL8: XAS | Lee, Y., Theerthagiri, J., Limphirat, W., Periyasamy, G., Jeong, G. H. Kheawhom, S., Tang, Y. and Choi, M. Y. | Pulsed Laser-Patterned High-Entropy Single-Atomic Sites and Alloy Coordinated Graphene Oxide for pH-Universal Water Electrolysis | Journal of Materials Chemistry A 13 (2025): 9073-9087 | Q1 | 10.7 | Chemistry |
| 293 | BL8: XAS | Lichtenberg, H., Boris, M. T., Klysubun, W., Alexander, P and Josef, H. | Synchrotron Based X-Ray Absorption Spectroscopy for Structutreal Analysis of Basalt Fibers | Fibres and Textiles 31 (2024): 56-65 | Q3 | 0.7 | Earth Science, Archeology and Gemology |
| 294 | BL8: XAS | Marbaniang, P., Ingavale, S., Yoopensuk, W., Limphirat, W., Wu, H., Tolek, W., Yospanya, W., Panpranot, J., Wang, Q., Kheawhom, S. and Pornrungroj, C. | Binder-Free Nickel Borate/Nickel Hydroxide Bifunctional Catalyst for Coupled Nitrate Reduction and Glycerol Oxidation Toward Sustainable Ammonia Production | ACS Applied Materials & Interfaces 17 (2025): 52010-52023 | Q2 | 8.3 | Chemistry |
| 295 | BL8: XAS | Naknonhan, S., Amnuaypanich, S., Randorn, C., Tanthanuch, W. and Amnuaypanich, S. | Pivotal Role of CaCO3 in Ca/ZnO Photocatalyst for Promoting the Degradation of Trichlorophenol | Journal of Environmental Chemical Engineering 13 (Apr 2025): 115501 | Q1 | 7.4 | Environmental Science |
| 296 | BL8: XAS | Nguyen, B. T., Wehr, J. B., Kopittke, P. M., O'Hare, T. J., Menzies, N. W., Hong, H. T., McKenna, B. A., Klysubun, W. and Harper, S. M. | Benchmarking Bulb Yield, Medicinal Sulfur Compounds, and Mineral Nutrition of Garlic Varieties | ACS Omega 9 (2024): 45240-45250 | Q2 | 3.7 | Food and Agricultural Science |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 297 | BL8: XAS | Nooto, C., Chuaykaew, P., Singthuen, P., Solos, T., Preedawichitkun, Y., Khosukwiwat, K., Wengwirat, K., Promchana, P., Kumar, R., Chung, P. W., Poo-arporn, Y., Limphirat, W., Choojun, K. and Sooknoi, T. | Reversibly Interconverted Cu+/Cu+-H Species as Active Sites for Selective Hydrogenation of Fatty Acid Methyl Esters to Fatty Alcohol Over Layered Double Hydroxide Derived CuMgAlO x Catalysts | Molecular Catalysis 575 (Mar 2025): 114898 | Q2 | 3.9 | Materials Science and Engineering |
| 298 | BL8: XAS | Park, J., Theerthagiri, J., Yodsin, N., Limphirat, W., Junmon, P. and Choi, M. Y. | CO2 Laser-Stabilized Ni-Co Dual Single-Atomic Sites for Energy Generation and Ammonia Harvesting | Advanced Materials 37 (Jul 2025): 2506137 | Q1 | 27.4 | Chemistry |
| 299 | BL8: XAS | Pimoei, J., Kao-ian, W., Tipplook, M., Katsuya, T., Kamchompoo, S., Jungsuttiwong, S., Chen, J. L., Pao, C. W., Kidkhunthod, P., Limphirat, W., Kheawhom, S., and Somwangthanaroj, A. | Advancing Zinc-Iodine Battery Performance with MgAl Layered Double Hydroxides on Carbon for Iodine Encapsulation | Journal of Energy Storage 112 (Mar 2025): 115504 | Q1 | 8.9 | Materials Science and Engineering |
| 300 | BL8: XAS | Prietzel, J., Harrington, G., Hiesch, S. and Klysubun, W. | XANES Spectroscopy Proofs pH-Dependent P Sorption Partitioning to Fe Oxyhydroxides Versus Montmorillonite in Acidic Soils | Journal of Plant Nutrition and Soil Science | Q1 | 2.6 | Food and Agricultural Science |
| 301 | BL8: XAS | Promchana, P., Choojun, K., Wengwirat, K., Limphirat, W. and Sooknoi, T. | Highly Dispersed WOx/SiO2 Catalysts Derived from W-TRIS Complex for Efficient Biobutadiene Productio from Acetylene-Ethylene Cross-Metathesis | Industrial & Engineering Chemistry Research 64 (2025): 18989-19002 | Q1 | 3.8 | Chemistry |
| 302 | BL8: XAS | Rajaramakrishna, R., Kaewkhao, J., Nikonorov,N. V., Aleksandrova, E., Kothan, S., Busayaporn, W., Rahul, S., Gerasimova, M. A. and. Slyusareva, E. A | Influence of Gadolinium and Annealing Time in Dysprosium Doped Oxyfluoride Glasses for w-LED and Scintillating Photonic Device Applications | Next Materials 8 (Jul 2025): 100730 | Q2024:Q1 | n/a | Materials Science and Engineering |
| 303 | BL8: XAS | Rajaramakrishna, R., Nikolay, N., Wantana, N., Kim, H. J.. Kothan, S., Intachai, N., Busayaporn, W., Kaewkhao, J., Parfenova, E. V. and Aleksandrovsky, A. S. | Quantum Yield, Energy transfer, and X-ray induced Study of Sm3+ Ions Doped Oxide Glasses for Intense Orange-Red Photo-Emitting Optoelectronic Device Applications | Chemical Physics 590 (Feb 2025): 112528 | Q2 | 3.8 | Materials Science and Engineering |
| 304 | BL8: XAS | Rajan, A. P. S., Theerthagiri, J., Limphirat, W., Kumar, A., Senthil, R. A. and Choi, M. Y. | Pulsed Laser-Twisted Spinel-to-Rocksalt High-Entropy 3d-Metal Oxides for Selective Ammonia Electrosynthesis | Small 6 (Jun 2025): e2504457 | Q1 | 13 | Chemistry |
| 305 | BL8: XAS | Sanni, A., Govindarajan, D., Nijpanich, S., Limphirat, W., Theerthagiri, J., Choi, M. Y. and Kheawhom, S. | Al-Doped ZnO@CuO Nanoflower/Nanorod Heterostructures on CNTs as High-Performance Supercapacitor Electrodes in Redox-Supporting Electrolytes | Journal of Energy Storage 109 (Feb 2025): 115184 | Q1 | 8.9 | Materials Science and Engineering |
| 306 | BL8: XAS | Sanni, A., Govindarajan, D., Nijpanich, S., Limphirat, W., Tipplook, M., Teshima, K., Sangaraju, S. and Kheawhom, S. | Designing Dual-Phase ZnO-Al2O3-CuO Nanostructures for Enhanced Supercapacitor Performance | Materials Research Bulletin 189 (Sep 2025): 113443 | Q1 | 5.3 | Materials Science and Engineering |
| 307 | BL8: XAS | Sanni, A., Govindarajan, D., Kao-ian, W., Limphirat, W., Tipplook, M.,Teshima, K., Theerthagiri, J., Choi, M. Y. and Kheawhom, S. | Elucidating Mn2+/Mn3+ and Ni0/Ni2+ Redox Synergy in Hair-Derived Carbon-Supported Ag/Ni−MnOx Supercapacitor | ACS Applied Materials & Interfaces 17 (2025): 46936-46951 | Q1 | 8.3 | Materials Science and Engineering |
| 308 | BL8: XAS | Sanni, A., Govindarajan, D., Nijpanich, S., Limphirat, W., Mohamad, A. A., Theerthagiri, J., Choi, M. Y. and Kheawhom, S. | Unveiling a Paradigm Shift in Supercapacitor Dynamics: γ-Al2O3-Infused ZnO Nanorods with Redox-Active K4Fe(CN)6 Alkaline Electrolytes | Journal of Alloys and Compounds 1010 (Jan 2025): 177892 | Q1 | 5.8 | Materials Science and Engineering |
| 309 | BL8: XAS | Sarumaha, C. S., Kantuptim, P., Yanagida, T., Intachai, N., Kothan, S., Kim, H. J., Busayaporn, W., Pakawanit, P., Phoovasawat, C., Kaewnuam, E. and Kaewkhao, J. | The Effect of Calcium and Barium Fluoride on CeF3 Doped in Gadolinium Phosphate Scintillating Glass | Ceramics International 51 (Jul 2025): 22955-22966 | Q1 | 5.1 | Materials Science and Engineering |
| 310 | BL8: XAS | Sawatdee, S., Botalo, A., Pongchaikul, P., Posoknistakul, P., Phadungbut, P., Intra, P., Charnnok, B., Chanlek, N., Photongkam, P., Laosiripojana, N., Krisbiantoro, P. A., Wu, K. C. W. and Sakdaronnarong, C. | Design of Multilayer Cellulose-Based Filters Combined with Zeolitic Imidazole Framework and Silica Nanoparticles for Particulate Matter Filtration and Antibacterial Properties | ACS Sustainable Chemistry & Engineering 13, 19 (2025): 7074-7087 | Q1 | 7.1 | Micro Nanotechnology |
| 311 | BL8: XAS | Singkiburin, N., Srisittipokakun, N., Kiwsakunkran, N., Rajaramakrishna, R., Sarumaha, C. S., Busayaporn, W., Angnanon, A., Intachai, N., Kothan, S., Kim, H. J. and Kaewkhao, J. | Influence of Asymmetry Around Eu3+ Ion on Luminescence Behaviours of ZnO┐Na2O-B2O3 Glasses Synthesized by Microwave and Conventional Melting Methods: Red Emitting Material Application | Radiation Physics and Chemistry | Q2 | 2.8 | Materials Science and Engineering |
| 312 | BL8: XAS | Solehudin, M., Wengwirat, K., Promchana, P., Poo-arporn, Y., Limphirat, W., Choojun, K. and Sooknoi, T. | Hydrogen-Free Production of Green Diesel from Deoxygenation of Methyl Palmitate via Cross-Metathesis with Bio-Ethylene Using SupportedWO3 Catalyst | Chemistry - An Asian Journal 20 (Jun 2025): e01581 | Q2 | 3.5 | Chemistry |
| 313 | BL8: XAS | Thanyaphirak, W., Yasaka, P., Boonin, K., Busayaporn, W., Tariwong, Y., Intachai, N., Kothan, S.,. Kim, H. J. and Kaewkhao, J. | Asymmetry effect on Luminescence Behaviors Phospho-Tellurite Glass Doped Eu3+: Judd-Ofelt analysis and EXAFS Investigations | Ceramics International 51 (Jul 2025): 25340-25350 | Q1 | 5.1 | Materials Science and Engineering |
| 314 | BL8: XAS | Utara, S., Loykaew, A., Khoonsap, S., Mahakot, S. and Amnuaypanich, S. | Natural Rubber Latex Grafted with Polyacrylamide as the Cement Admixture for Improving Flexural Strength and Toughness of Cement Pastes | Industrial Crops & Products 224 (Feb 2025): 120310 | Q1 | 5.6 | Materials Science and Engineering |
| 315 | BL8: XAS | Veann, C., Limphirat, W., Maensiri, R.. And Maensiri, S. | Boosting Supercapacitor Performance with Ni-doped AgFeO2 Nanoparticles | Journal of Energy Storage 110 (Feb 2025): 115249 | Q1 | 8.9 | Materials Science and Engineering |
| 316 | BL8: XAS | Villalba-Ayala, G., Hurtarte, L. C. C., Klysubun, W. and Prietzel, J. | Combining Density Fractionation and Ca K-Edge XANES Reveals Contrasting SOM–Mineral Association Patterns Shaped by Parent Material in Forest Soil O Horizons | Journal of Plant Nutrition and Soil Science | Q1 | 2.6 | Environmental Science |
| 317 | BL8: XAS | Wengwirat, K., Choojun, K., Promchana, P., Limphirat, W. and Sooknoi, T. | Bio-Derived Butadiene from Cross-Metathesis over Silanol Rich WO3 Catalysts Obtained from Copper Phyllosilicate | Catalysis Science & Technology 15 (2025): 3009-3021 | Q2 | 4.4 | Chemistry |
| 318 | BL8: XAS | Woottapanit, P., Yang, C., Geng, S., Lolupiman, K., Limphirat, W., Zhang, X., He, G. and Qin, J. | Electron Donation Effect of α-Boron Nanosheet Enables Highly Stable Zinc Metal Anode | Advanced Functional Materials | Q | 18.5 | Materials Science and Engineering |
| 319 | BL8: XAS | Wu, H., Zhang, D., Yue, Y., Lei, H., Limphirat, W., Yang, X., Qin, J. and Cao, J. | Sulfur-Driven Structural Reinforcement for Long-Life Zn-Ion Storage | Inorganic Chemistry 64, 21 (2025):10675-10685 | Q1 | 4.3 | Materials Science and Engineering |
| 320 | BL8: XAS | Yang, C., Woottapanit1, P., Geng, S., Chanajaree, R., Shen, Y., Lolupiman, K., Limphirat, W., Pakornchote, T., Bovornratanaraks, T., Zhang, X., Qin, J. and Huang, Y. | A Multifunctional Quasi-Solid-State Polymer Electrolytewith Highly Selective Ion Highways for Practical Zinc Ion Batteries | Nature Communications | Q1 | 14.7 | Materials Science and Engineering |
| 321 | BL8: XAS | Yang, C., Woottapanit, P., Geng, S., Chanajaree, R., Lolupiman, K., Limphirat, W., Zhang, X. and Qin, J. | Biomimetic Inorganic−Organic Protective Layer for Highly Stable and Reversible Zn Anodes | ACS Energy Letters 10 (2025): 337-344 | Q1 | 19.5 | Materials Science and Engineering |
| 322 | BL8: XAS | Zhang, D., Yue, Y., Yang, C., Limphirat, W., Zhang, X., Qin, J., and Cao, J. | Kinetics-Boosted and Dissolution-Suppressed Molybdenum-Doped vanadium dioxide for Long-Life Zinc-Ion batteries | Chemical Engineering Journal 506 (Jan 2025): 160160 | Q1 | 13.4 | Materials Science and Engineering |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 323 | BL8: XAS | Zhang, D., Cao, J., Yang, C., Lolupiman, K., Limphirat, W., Wu, X., Zhang, X., Qin, J. and Huang, Y. | Highly Stable Aqueous Zn-Ion Batteries Achieved by Suppressing the Active Component Loss in Vanadium-Based Cathode | Advanced Energy Materials 15, 15 (Apr 2025): 2404026 | Q1 | 24.4 | Materials Science and Engineering |
| 324 | BL8: XAS | Zhao, B., Yodsin, N., Ma, H., Maitarad, P., Limphirat, W., Han, Z., Zhou, Y., Yu, M., Liu, K., Yan, B., Zhao, X., Chen, G., Feng, X., Jia, R., Shi, L., Yuan, S. and Lv, Y. | Fully Lithiated LixTiO2−δ Layer Coated Separator for Securing a Lithium-less Anode in an Ester-Based Electrolyte | ACS Nano 19, 23 (2025): 21525-21537 | Q1 | 15.8 | Materials Science and Engineering |
| 325 | BL8: XAS | Zhao, Y., Kantichaimongkol, P., Yang, C., Dai, Z., Xu, D., Zhang, X., Okhawilai, M., Pattananuwat, P., Zhang, X. and Qin, J. | Surface Engineering with Bifunctional Layer in LiNi0.5Co0.2Mn0.3O2 for High-Performance Cathode Materials of Lithium-Ion Batteries | Journal of Alloys and Compounds 1010 (Jan 2025): 177661 | Q1 | 5.8 | Materials Science and Engineering |
| 326 | CSEc | Kuaprasert, B., Leartsakulpanich, U., Riangrungroj, P., Pornthanakasem, W., Suginta, W., Mungthin, M., Leelayoova, S., Kiriwan, D. and Choowongkomon, K. | Crystal Structure of Leishmania orientalis Triosephosphate Isomerase at 1.88 Å Resolution and Its Specific Inhibitors | Biochimie 233 (Jun 2025): 27-35 | Q1 | 3.3 | Medical Applications |
| 327 | CSEc | Pakornchote, T., Khamkaeo, S., Ektarawong, A. and Bovornratanaraks, T. | AA Stacking Phase of Diamane-like Carbon Nitrides: A First Principle Study and Its Thermal Conductivity | ACS Omega 10 (2025): 12288-12293 | Q2 | 3.7 | Materials Science and Engineering |
| 328 | CSEc | Pinsook, U., Tsuppayakorn-aek, P. and Bovornratanaraks, T. | Superconductivity in Hexagonal Ce0.5La0.5H9 under High Pressure | Physical Chemistry Chemical Physics 27 (2025): 768-774 | Q2 | 2.9 | Physics |
| 329 | CSEc | Teeratchanan, P., Pinsook, U., Busayaporn, W. and Thongnum, A. | Electronic Structures and Charge Transport Mobilities in Hybrid Organic–Inorganic Mixed Sn–Pb Alloyed Perovskites | Nanoscale 17 (2025): 1673-1686 | Q1 | 5.8 | Materials Science and Engineering |
| 330 | CSEc | Thajitr, W., Busayaporn, W. and Sukkabot, W. | Bilayer Graphene, Bilayer GeC and Graphene/GeC Bilayer Heterostructure as Anode Materials for Lithium-Ion Batteries: First-Principles Calculations | Journal of Physics and Chemistry of Solids 196 (Jan 2025): 112344 | Q2 | 4.3 | Materials Science and Engineering |
| 331 | CSEc | Tsuppayakorn-Aek, P., Bovornratanaraks, T. and Kotmool, K. | Exploring Phonon Mediated Superconductivity of LiB2N2 and LiC2N2 under High Pressure Insight from First-Principles Calculations | Scientific Reports 16, 15 (May 2025): 16986 | Q1 | 3.8 | Physics |
| 332 | Laboratory | Boonkong, S., Luasiri, P., Pongsetkul, J., Suwanandgul, S., Chaipayang, S., Molee, W. and Sangsawad, P. | Exploring the Utilization of Bovine Blood as a Source of Antioxidant Peptide: Production, Concentration, Identification, and In Silico Gastrointestinal Digestion | Food Science of Animal Resources 44 (Nov 2024): 1283-1304 | Q1 | 4.2 | Biological and Life Science |
| 333 | Laboratory | Hongtong, R., Pipitworrakul, P., Chaikawang, C., Nash, J., Thamrongsiripak, N., Jangsawang, N., Limphirat, W. and Meethong, N. | Impacts of Radiation Sources on Structures and Electrochemical Performance of SiO2/C Composite Anodes for Li-Ion Batteries | Radiation Physics and Chemistry 223 (Oct 2025): 111915 | Q2 | 2.8 | Materials Science and Engineering |
| 334 | Laboratory | Jitrangsri, K., Puyathorn,N., Thammasut,W., Tamdee, P., Yodsin, N., Sirirak, J., Rein, S. M. T. and Phaechamud, T. | Role of Cellulose Acetate Butyrate on Phase Inversion: Molecular Dynamics and DFT Studies of Moxifloxacin and Benzydamine HClWithin an In Situ Forming Gel | Polysaccharides 6 (2025): 73 | Q1 | 4.82 | Medical Applications |
| 335 | Laboratory | Kuaprasert, B., Leartsakulpanich, U., Riangrungroj, P., Pornthanakasem, W., Suginta, W., Mungthin, M., Leelayoova, S., Kiriwan, D. and Choowongkomon, K. | Crystal Structure of Leishmania orientalis Triosephosphate Isomerase at 1.88 Å Resolution and Its Specific Inhibitors | Biochimie 233 (Jun 2025): 27-35 | Q1 | 3.3 | Medical Applications |
| 336 | Laboratory | Laosam, P., Luasiri, P., Nakharuthai, C., Boonanuntanasarn, S., Suwanangul, S., Sarnthima, R., Khammuang, S., Sanachai, K.,Yongsawatdigul, J., Rouabhia, M., Tastub, S. and Sangsawa, P. | Enzymatic Hydrolysis of Duck Blood Protein Produces Stable Bioactive Peptides: Pilot-Scale Production, Identification, and Stability During Gastrointestinal and Plasma Digestion | International Journal of Biological Macromolecules 283 (Dec 2024): 137864 | Q1 | 7.7 | Food and Agricultural Science |
| 337 | Laboratory | Nammana, B., Racho, P., Nawong, S., Wichitsathian, B. and Tantrakarnapa, K. | Feasibility of Anaerobic Co-Digestion for Biogas Production from Recycled Paper Industry Sludge: Optimization of Mixing Ratios and Application in Two-Stage CSTR System Design | Water Science and Technology 92 (Sep 2025): 683–703 | Q2 | 2.5 | Environmental Science |
| 338 | Laboratory | Norman, A., Abdellatief, M., Ghourani, A. A., Cordova, K. E., Borikul, N., Fang, T. H. and Abdullah, C. A. C. | Etlingera elatior-Mediated Green Synthesis Titanium Dioxide Nanoparticles and Its Cytotoxicity | Macromolecular Symposia 414 ( 2025): 2400209 | Q3 | 0.78 | Materials Science and Engineering |
| 339 | Laboratory | Puteri, D. C., Denala, D. and Jitkarnka, S. | Lactic Acid from Glycerol Transformation Using Ni0.2Mg3.8Al-LDO Embedded AgO/Oxide Catalysts without the Addition of a Base, O2 or H2 | Journal of Industrial and Engineering Chemistry 149 (Sep 2025): 676-691 | Q1 | 5.9 | Chemistry |
| 340 | Laboratory | Sillapasa, K., Nakowong, K., Khantongkum, S. and Meengam, C | An Investigation of the Fatigue Behavior and Dislocation Substructures of Friction-Stir-Welded SSM 6063 Aluminum Alloy | Journal of Manufacturing and Materials Processing 9 (2025): 128 | Q1 | 3.3 | Materials Science and Engineering |
| 341 | Laboratory | Somboot, P., Thuangchon, S., Phungsai, P., Ratpukdi, T. and Punyapalaku, P. | Removal of Dissolved Organic Matter from Sugar Mill Effluents using Magnetic Anion Exchange (MIEX) and Amberlite | Journal of Water Process Engineering 71 (Mar 2025): 107132 | Q1 | 6.3 | Environmental Science |
| 342 | Laboratory | Srisutush, J., Samruan,W., Anwised, P., Amzal, A., Rognard, C., Savatier, P., Aksoy, I., Thumanu, K. and Parnpai, R. | Characterization of Rhesus Macaque Embryonic Stem Cells in Primed and Naïve-like Cell States of Pluripotency Using Fourier Transform Infrared (FTIR) Microspectroscopy | International Journal of Molecular Sciences 26 (2025): 9514 | Q1 | 4.9 | Biological and Life Science |
| 343 | Laboratory | Tantala, J., Kaokham, P., Boonsupthip, W.,Thumanu, K., Rachtanapun, P., Naksang, P. and Rachtanapun, C. | Cellulose Casing Impregnated with Chitosan: Its Antimicrobial Activity and Application in Ready-to-Eat Sausage | Food Research International 208 (May 2025): 116108 | Q1 | 7 | Food and Agricultural Science |
| 344 | Laboratory | Thepbandit, W., Nawong, S. and Athinuwat, D. | Potential of a Microbial Co-Culture Composed of Bacillus Vallismortis TU-Orga21 and Bacillus subtilis TU-Orga1 to Improve the Efficacy of Controlling Damping-Off Caused by Pythium Aphanidermatum in Kale | Plant Pathology 74 (Aug 2025): 1527-1543 | Q1 | 2.3 | Food and Agricultural Science |
| 345 | Laboratory | Watcharamaisakul, S., Janphuang, N., Chueangam, W., Srisom, K., Rueangwittayanon, A., Rittihong, U., Tunmee, S., Chanlek, N., Pornsetmetakul, P., Wirojsirasak, W., Watanarojanaporn, N., Ruethaivanich, K. and Janphuang, P. | Synthesis of Turbostratic Graphene Derived from Biomass Waste Using Long Pulse Joule Heating Technique | Nanomaterials 15 (2025):, 468 | Q1 | 4.4 | Materials Science and Engineering |
| 346 | Laboratory | Yosboonruang, A., Kiddee, A., Siriphap, A., Pook-In, G., Suwancharoen, C., Duangjai, A., Praphasawat, R., Reuk-Ngam, N., Nawong, S. and Rawangkan, A. | Potential of Cannabidiol (CBD) to Overcome Extensively Drug-Resistant Acinetobacter Baumannii | BMC Complementary Medicine and Therapies 15 (Aug 2025): 308 | Q1 | 2.836 | Medical Applications |
| 347 | MES | Aye, N. N. S., Maraming, P., Tippayawat, P., Daduang, S., Techasen, A., Sithithaworn, P., Rujanakraikarn, R., Jearanaikoon, N., Phatthanakun, R., Supruangnet, R., Photongkam, P. and Daduang, J. | Synthesis and Characterization of a Novel All-in-One Graphene Oxide-Nafion Polymer Bioconjugate for Application in Electrochemical Biosensing of the Opisthorchis viverrini Antigen | ACS Omega 10 (2025): 13621-13633 | Q2 | 3.7 | Micro Nanotechnology |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 348 | MES | Boonsiri, W., Aung, H. H., Aswakool, J., Santironnarong, S., Pothipan, P., Phatthanakun, R., Chancharoen, W. and Moonwiriyakit, A. | Quantitative Investigation of a 3D Bubble trapper in a High Shear Stress Microfluidic Chip using Computational Fluid Dynamics and L*A*B* Color Space | Biomedical Microdevices 27 (2025): https://doi.org/10.1007/s10544-024-00727-w | Q2 | 3 | Micro Nanotechnology |
| 349 | MES | Maraming, P., Shean Aye, N. N., Panyakakaew, P., Tippayawat, P., Daduang, S., Choowongkomon, K., Jearanaikoon, N., Srisom, K., Phatthanakun, R. and Daduang, J. | Microfluidic Chip Designs and their Application for E Antigen Typing on Red Blood Cells | RSC Advances 15 (Feb 2025): 6077-6088 | Q1 | 3.9 | Medical Applications |
| 350 | MES | Mooltang, A., Sriboriboon, P., Thooppanom, N., Jindata, W., Tepakidareekul, M., Srisom, K., Sangtawesin, S., Janphuang, P. and Meevasana, W. | Voltage-Tuned Polarization Control via UV Light in BiFeO3 Thin Film on Nb–SrTiO3 | APL Materials 13 (Jul 2025): 071114 | Q1 | 5.3 | Surface, Interface and Thin Films |
| 351 | MES | Watcharamaisakul, S., Janphuang, N., Chueangam, W., Srisom, K., Rueangwittayanon, A., Rittihong, U., Tunmee, S., Chanlek, N., Pornsetmetakul, P., Wirojsirasak, W., Watanarojanaporn, N., Ruethaivanich, K. and Janphuang, P. | Synthesis of Turbostratic Graphene Derived from Biomass Waste Using Long Pulse Joule Heating Technique | Nanomaterials 15 (2025): 468 | Q1 | 4.4 | Materials Science and Engineering |
| 352 | Instrumentation | Jummunt, S., Sunwong, P., Prawanta, S., Leetha, T., Numanoy, P., Thiabsi, N. and Sudmuang, P | Design and Prototype Development of a Combined-Function Quadrupole-Sextupole Magnet for the SPS-II Booster Synchrotron | Particles 8 (2025): 77 | Q2 | 1.4 | Physics |
| 353 | Instrumentation | Naeosuphap, S., Chaichuay, S., Jummunt, S. and Sudmuang, P. | Design and Optimization of a Broadband Stripline Kicker for Low Beam Emittance Ring Accelera | Particles 8 (2025): 78 | Q2 | 1.4 | Physics |
| 354 | Instrumentation | Phimsen, T., Boonsuya, S., Chitthaisong, S., Sumklang, S., Seegauncha, O., Sonsuphap, N., Sunwong, P., Prawanta, S., Jummunt, S., Sudmuang, P. and Klysubun, P. | Progress in Vacuum System Design for Thailand's New Light Source | Vacuum 234 (Apr 2025): 114111 | Q1 | 3.8 | Materials Science and Engineering |
| 355 | Instrumentation | Tangyotkhajorn, W., Leetha, T., Prawanta, S. and Sunwong, P. | Crosstalk Simulation of Magnets for Siam Photon Source II Storage Ring | Particles 8 (2025): 80 | Q2 | 1.4 | Physics |
| 356 | Others | Aung, H. H., Pothipan, P., Aswakool, J., Santironnarong, S., Phatthanakun, R., Pinrod, V., Jiemsakul, T., Chancharoen, W. and Moonwiriyakit, A. | Non-Invasive Measurement of Wall Shear Stress in Microfluidic Chip for Osteoblast Cell Culture using Improved Depth Estimation of Defocus Particle Tracking Method | Biomicrofluidics 18 (2024): 054114 | Q2 | 2.6 | Materials Science and Engineering |
| 357 | Others | Keawkaew, J., Phiphattanaphiphop, C., Leksakul, K., Phatthanakun, R. and Khamlor, T. | The Optimal Solution of Microfluidic Device for Separating white Blood Cells in Raw Milk | Sensors and Actuators A: Physical 382 (Feb 2025): 116124 | Q1 | 4.1 | Micro Nanotechnology |

## Fiscal Year 2026: International Journals

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 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 | Physical Chemistry Chemical Physics | Q2 | 2.9 | Materials Science and Engineering |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 | Q1 | 14.1 | Chemistry |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 12 | 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 | Q2 | 3.3 | Medical Applications |
| 13 | 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 |
| 14 | 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., | Scintillation Responses and X-rays Imaging Application of Dy3+- Doped in Borophosphate Glass | Radiation Physics and Chemistry | Q2 | 3.3 | Materials Science and Engineering |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 | Q2 | 3.3 | Materials Science and Engineering |
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 | Q1 | 9.5 | Materials Science and Engineering |
| 24 | 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 | n/a | n/a | Materials Science and Engineering |
| 25 | 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 | Q1 | 5.5 | Materials Science and Engineering |
| 26 | 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 |
| 27 | 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 | Q1 | 7.22 | Materials Science and Engineering |
| 28 | BL2.2: TRXAS | Doungdej, K., Numpilai, T., Dolsiririttigul, N., Polsomboon, N., Limphirat, W., Sudsakorn, K., Seubsai, A., Roddecha, S., Chareonpanich, M. and | 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 |
| 29 | 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 | Q1 | 9.1 | Surface, Interface and Thin Films |
| 30 | 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 |
| 31 | BL2.2: TRXAS | Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., Limphirat, W., Mahakot, S.,i 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 |
| 32 | 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 |
| 33 | 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 | Q1 | 8.2 | Surface, Interface and Thin Films |
| 34 | 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 |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 35 | 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 | Q1 | 6.8 | Environmental Science |
| 36 | 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 |
| 37 | 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 |
| 38 | 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, | Radiation Physics and Chemistry 238 (Jan 2026): 113194 | Q2 | 3.3 | Materials Science and Engineering |
| 39 | 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 | Talanta 296 (Jan 2026): 128403 | Q1 | 5.6 | Medical Applications |
| 40 | BL3.1: XPS | Preedawichitkun, Y., Numwong, N., Chanlek, N., Chung, P., Kumar, R., Wattanakit, C., Prasanseang, W., Promchana, P., Nooto, C., Khenkhom, P., | Stabilized PdNanoparticles Encapsulated in MIL-101(Cr) for ChemoselectiveHydrogenation of PolyunsaturatedFAMEs | ChemCatChem | Q1 | 3.9 | Materials Science and Engineering |
| 41 | BL3.1: XPS | Rattanachai, Y., Chavalekvirat, P., Rintramee, K., Pandech, N., Klinkla, R., Padchasri, J., Siriroj, S., Supruangnet, R., Busayaporn, W., Kidkhunthod, P., | 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 |
| 42 | 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 | Q1 | 4.7 | Chemistry |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 | Q1 | 7.3 | Materials Science and Engineering |
| 49 | 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 |
| 50 | 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 | n/a | n/a | Materials Science and Engineering |
| 51 | 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 | Q1 | 5.5 | Materials Science and Engineering |
| 52 | 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 | Q1 | 12.1 | Surface, Interface and Thin Films |
| 53 | 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 |
| 54 | 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 |
| 55 | 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 | Q1 | 4.7 | Surface, Interface and Thin Films |
| 56 | 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 | Q1 | 5.5 | Materials Science and Engineering |
| 57 | 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 | Q1 | 5.5 | Surface, Interface and Thin Films |
| 58 | 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 |

| No. | BL | Author | Title | Source | Quartile 2023 | IF2023 | Field Res. |
|---|---|---|---|---|---|---|---|
| 59 | 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 |
| 60 | 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 |
| 61 | 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 | Q1 | 15.6 | Materials Science and Engineering |
| 62 | BL5.2: XAS | Kantha, P., Unruan, M., Tunkasiri, T., Pengpat, K., Sukkha, U., Jaiban, P., Padchasri, J., Siriroj, S., 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 | Radiation Physics and Chemistry 237 (Dec 2025): 113011 | Q2 | 3.3 | Materials Science and Engineering |
| 63 | 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 | Q1 | 9.1 | Surface, Interface and Thin Films |
| 64 | 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 | Q1 | 3.2 | Micro Nanotechnology |
| 65 | 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 |
| 66 | 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 | Q1 | 5.6 | Chemistry |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | 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 | Q1 | 7.22 | Materials Science and Engineering |
| 71 | 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 |
| 72 | 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 |
| 73 | 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 | Q1 | 19 | Chemistry |
| 74 | 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 | Q1 | 7 | Materials Science and Engineering |
| 75 | 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 | Q2 | 3.3 | Materials Science and Engineering |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | BL8: XAS | Sakdee, R., Ratchahat, S., Sakdaronnarong, C., Koo-amornpattana, W., Limphirat, W., Mahakot, S.,i 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | 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 | Q1 | 19 | Materials Science and Engineering |
| 84 | 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 |