

FY2025 International Publications classified by Beamline							
No.	BL	Author	Title	Source	Quartile 2023	IF2023	Field Res.
1	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
2	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
3	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
4	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
5	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
6	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
7	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-xLa xTiO3 Nanoparticles	Radiation Physics and Chemistry 227 (Feb 2025): 112400	Q2	2.8	Physics
8	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
9	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
10	BL1.1W: MXT	Kiatvisarnkij, N., Song, Z., Tangponkijjaroen, 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
11	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	Q1	4.4	Chemistry
12	BL1.1W: MXT	Manceesard, 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
13	BL1.1W: MXT	Nguanthisong, 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
14	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
15	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
16	BL1.1W: MXT	Phongsuk, N., Adpakpang, K., Pukdeejorhor, L., Atithev, 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
17	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
18	BL1.1W: MXT	Rittisit, W., Manyum, P., Wantana, N., Ruangtawee, 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
19	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
20	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
21	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
22	BL1.1W: MXT	Sriphumrat, K., Harnkar, P., Pimu, S., Jansuda, W., Yodsini, 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	Q1	3.5	Environmental Science
23	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
24	BL1.1W: MXT	Tangthum, 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
25	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
26	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 Spinel	Ceramics International	Q1	5.1	Materials Science and Engineering
27	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
28	BL1.2: XTM	Chungyampin, S., Chareerntanom, 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
29	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	Q1	6.28	Materials Science and Engineering
30	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
31	BL1.2: XTM	Khezri, R., Motlagh, S. R., Etesami, M., Pakawanit, P., Oлару, 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
32	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
33	BL1.2: XTM	Padchasi, 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
34	BL1.2: XTM	Preedanon, S., Klaysuban, A., Suetrong, S., Pracharoen, O., Promchoo, W., Sangtican, 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

No.	BL	Author	Title	Source	Quartile 2023	IF2023	Field Res.
35	BL1.2: XTM	Rachniyom, W., Intachai, N., Kothan, S., Wantana, N., Sarumaha, C. S., <u>Pakawanit, P.</u> , Phoovasawat, C., Phongsai, A., Yasaka, P., Thanyaphirak, W., Kanjanaboos, P., Kim, H. J., <u>Chanlek, N.</u> and Kaewkhao, J.	Fabrication of Eu2O3 Doped in High Density and Transparent Silicoborate Scintillating Glass for Synchrotron X-ray Radiographic Imaging Application	Ceramics International	Q1	5.1	Materials Science and Engineering
36	BL1.2: XTM	Riou, C., Sinpru, P., Suwanvichanee, C., Kamkrathok, B., Phoovasawat, C., <u>Rojviriya, C.</u> , 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
37	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
38	BL1.2: XTM	Saichompoo, K., Kingkam, W., Issarapanacheewin, S., Ukasi, S., Pongampai, S., <u>Pakawanit, P.</u> , 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
39	BL1.2: XTM	Sarumaha, C. S., Kantuptim, P., Yanagida, T., Intachai, N., Kothan, S., Kim, H. J., <u>Busayaporn, W.</u> , <u>Pakawanit, P.</u> , Phoovasawat, C., Kaewnuam, E. and Kaewkhao, J.	The Effect of Calcium and Barium Fluoride on CeF3 Doped in Gadolinium Phosphate Scintillating Glass	Ceramics International	Q1	5.1	Materials Science and Engineering
40	BL1.2: XTM	Suppanucroa, N., Yoopensuk, W., Pimoei, J., Thanapong-a-morn, W., Kao-Ian, W., <u>Pakawanit, P.</u> , 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
41	BL1.2: XTM	Sriphan, S., Worathat, S., <u>Pakawanit, P.</u> , 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
42	BL1.2: XTM	Tariwong, Y., Kim, H.J., Quang, N. D., Khan, A., Daniel, D. J., Limsuwan, P., Wantana, N., <u>Pakawanit, P.</u> , 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
43	BL1.2: XTM	Thammasut, W., Senarat, S., Tuntarawongsa, S., Narakornwit, W., <u>Rojviriya, C.</u> , Pichayakorn, W., Phaechamud, T.	Development of Benzylamine 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
44	BL1.2: XTM	Thammasut, W., <u>Rojviriya, C.</u> , Chaiya, P., Phaechamud, T. and Limsithichaikoon, S.	Moxifloxacin HCl -loaded Cellulose Acetate Butylate In Situ Forming Gel for Periodontitis Treatment	AAPS PharmSciTech 25 (2024): 242	Q2	3.4	Medical Applications
45	BL1.2: XTM	Torgbo, S., Sukyai, P., Sukatta, U., <u>Rojviriya, C.</u> and <u>Kamonsutthipajit, N.</u>	Valorization of Rambutan (Naphelium lappaceum L.) Peel: an Enzymatic Approach Toward a Biopolymer Absorbent Foam	Cellulose 31 ๒2024๑๙ 9907-9923	Q1	4.9	Polymer
46	BL1.2: XTM	Usawattanakul, N., Chaisirijaroenpun, N., Sukyai, P., Sukatta, U., Watthanasakphuban, N., Nimchua, T., <u>Pakawanit, P.</u> , <u>Kamonsutthipajit, N.</u> 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
47	BL1.2: XTM	Wan-En, O., Yun-Ming, L., Cheng-Yong, H., Abdullah, M. M. A. B., Ngee, H. L., <u>Pakawanit, P.</u> , 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
48	BL1.2: XTM	Wanmolee, W., Kraithong, W., Phanthasri, J., Pipattanaporn, P., Samun, Y., Youngjan, S., Yodsini, N., Saengsrirachan, A., Treetong, A., Phawa, C., <u>Pakawanit, P.</u> , 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	Q1	7.7	Materials Science and Engineering
49	BL1.2: XTM	Worathat, S., Pharino, U., <u>Pakawanit, P.</u> , 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
50	BL1.3W: SAXS	Hayeemasae, N., Saiwari, S., <u>Soontaranon, S.</u> , Fathurrohman, M. I. and Masa, A.	Potential for Using Sepiolite as Dispersing Agent in Phenolic Resin Crosslinked Natural Rubber/Silica Composites	Express Polymer Letters 19 (2025): 339-349	Q2	2.7	Polymers
51	BL1.3W: SAXS	Hayeemasae, N., <u>Soontaranon, S.</u> , 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
52	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
53	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
54	BL1.3W: SAXS	Jarnthong, M., Wannalak, A., Masa, A., Thongnuanchan, B., Saito, H., <u>Soontaranon, S.</u> , Sakai, T. and Lopattananon, N.	Nanocellulose Reinforcement of Epoxidized Natural Rubber: Enhancing Strain-Induced Crystallization for high-Performance Bio-Composites	Polymer Composites	Q1	4.8	Polymers
55	BL1.3W: SAXS	Kajornprai, T., Sringam, J., Seejuntuek, A., <u>Kaewsuwan, D.</u> , <u>Kamonsutthipajit, N.</u> , 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
56	BL1.3W: SAXS	Ihsan, N. S. M. N., Sani, S. F. A., Looi, L. M., Pathmanathan, D., Cheah, P. L., Chiew, S. F., <u>Chio-Srichan, S.</u> , <u>Soontaranon, S.</u> and Bradley, D. A.	Supramolecular Arrangements in Human Amyloid Tissues Using SAXS	Biophysical Chemistry 316 (Jan 2025): 107349	Q2	3.3	Medical Applications
57	BL1.3W: SAXS	Ninjan, R., Thongnuanchan, B., Lopattananon, N., Salach, S., Tongnuanchan, P. and <u>Buangam, P.</u>	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
58	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
59	BL1.3W: SAXS	Suwanangul, S., Arkanit, K., Kraithong, S., Sorndech, W., <u>Tastub, S.</u> , 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	Q1	8.5	Food and Agricultural Science
60	BL1.3W: SAXS	Taron, W., Kasemphong, T., Sunon, P., Kaewket, K., <u>Kamonsutthipajit, N.</u> , Ketudat-Cairns, J. R., Bhakdisongkham, G., Tulalamba, W., Sangsuansuk, S., Viprakasit, 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
61	BL2.2: TRXAS	Chotchaitakul, R., Munpollasri, S., Donphai, W., <u>Limphirat, W.</u> , <u>Poo-arporn, Y.</u> , Nijpanich, S., Jantaratana, P., Witton, T., <u>Kongkachuichav, P.</u> and Chareonpanich, M.	Promotional Effect of External Magnetic Field in Fe3O4/ZSM-5 for Selective CO2 Hydrogenation to C2–C4 and Aromatic Hydrocarbons	Applied Catalysis A, General 690 (Jan 2025): 120036	Q2	4.7	Chemistry
62	BL2.2: TRXAS	Hongloi, N., Prapainainar, C., Sudsakorn, K., Kiattikittipong, W., Seubsai, A., <u>Limphirat, W.</u> 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
63	BL2.2: TRXAS	Jansoda, I., Patdhanagul, N., <u>Poo-arporn, Y.</u> and Chanapatharapol, 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
64	BL2.2: TRXAS	Maneewong, Y., Nimmanterdwong, P., Ratchahat, S., Sakdaronnarong, C., <u>Limphirat, W.</u> , 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
65	BL2.2: TRXAS	Musyarofah, M., Tanaka, I., Mohamed, Z., <u>Poo-arporn, Y.</u> , 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
66	BL2.2: TRXAS	Myint, W., Lolupiman, K., Yang, C., Woottapanit, P., <u>Limphirat, W.</u> , <u>Kidkhunthod, P.</u> , 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
67	BL2.2: TRXAS	Nooto, C., Chuaykaew, P., Singthuen, P., Solos, T., Preedawichitkun, Y., Khosukwiwat, K., Wengwirat, K., Promchana, P., Kumar, R., Chung, P. W., <u>Poo-arporn, Y.</u> , <u>Limphirat, W.</u> , 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 CuMgAlOx Catalysts	Molecular Catalysis 575 (Mar 2025): 114898	Q2	3.9	Materials Science and Engineering
68	BL2.2: TRXAS	Obrom, W., Yingyuen, W., Nanmong, T., Deekamwong, K., Tawachkultanadilok, P., Wittayakun, J., Prayoonpokarach, S., <u>Poo-arporn, Y.</u> , 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
69	BL2.2: TRXAS	Pakapongpan, S., <u>Poo-arporn, Y.</u> , 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
70	BL2.2: TRXAS	Phichairatanaphong, O., Leelaphuthipong, O., <u>Poo-arporn, Y.</u> , 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
71	BL2.2: TRXAS	Veann, C., <u>Limphirat, W.</u> , 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

No.	BL	Author	Title	Source	Quartile 2023	IF2023	Field Res.
72	BL2.2: TRXAS	Yamchumporn, P., Boonin, K., Triamnak, N., Sarecin, T., Singsoog, K., Seetawan, T., <u>Limphirat, W.</u> , <u>Chanlek, N.</u> 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
73	BL2.2: TRXAS	Yang, C., Wootapanit, P., Geng, S., Chanajaree, R., Lolupiman, K., <u>Limphirat, W.</u> , 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
74	BL2.2: TRXAS	Zhang, D., Yue, Y., Yang, C., <u>Limphirat, W.</u> , 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
75	BL2.2: TRXAS	Zhang, D., Cao, J., Yang, C., Lolupiman, K., <u>Limphirat, W.</u> , 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	Q1	24.4	Materials Science and Engineering
76	BL3.1: XPS	Apiwat, C., Houghton, J. W., Ren, R., Tate, E., Edel, J. B., <u>Chanlek, N.</u> , Luksirikul, P. and Japrun, 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
77	BL3.1: XPS	Athikaphan, P., Jaitham, K., Saneaha, J., <u>Nijpanich, S.</u> , 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
78	BL3.1: XPS	Banjong, N., Thongyong, N., <u>Chanlek, N.</u> , 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
79	BL3.1: XPS	Chia, M.Y., Chiu, W. S., Khiew, P. S., <u>Chanlek, N.</u> , 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
80	BL3.1: XPS	Chotchaipitakkul, R., Munpollasri, S., Donphai, W., <u>Limphirat, W.</u> , <u>Poo-arporn, Y.</u> , <u>Nijpanich, S.</u> , Jantaratana, P., Witoon, T., Kongkachuichay, P. and Chareonpanich, M.	Promotional Effect of External Magnetic Field in Fe _x O _y /ZSM-5 for Selective CO ₂ Hydrogenation to C ₂ –C ₄ and Aromatic Hydrocarbons	Applied Catalysis A, General 690 (Jan 2025): 120036	Q2	4.7	Chemistry
81	BL3.1: XPS	Foophow, T., Lertkowitz, 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
82	BL3.1: XPS	Henjongchom, N., Ruengsrising, W., Soe, K. T., Kayunkid, N., Thongprong, N., Ketsombun, E., <u>Chanlek, N.</u> , <u>Supruangnet, R.</u> , <u>Saiyasombat, C.</u> , Rujisamphan, N., Supasai, T.	Cesium Moderation and Structural Transformation on α-CsPbI ₂ Br Perovskite Durability via Cation Retarding Migration: A Combined Simulation and Experimental Study	Solar Energy 288 (Mar 2025): 113290	Q1	6	Materials Science and Engineering
83	BL3.1: XPS	Jampreecha, T., Sawangprom, A., <u>Chanlek, N.</u> , Pinitsoontorn ⁴ , S, Meevasana, W. and Maensiri, S.	Fabrication and Performance of Monolithic β–Zn ₄ Sb ₃ /ZnO Thermoelectric Generator Module	Journal of Electronic Materials	Q2	2.2	Physics
84	BL3.1: XPS	Khan, M. J., Karim, Z., Pakawanit, P., <u>Supruangnet, R.</u> , 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
85	BL3.1: XPS	Khan, M. J., Sawatdee, S., Suksaard, M., Nantarattikul, Y., Botalo, A., Juntree, N., Pongchaikul, P., Arjfuk, P., Khemthong, P., Wanmolee, W., <u>Chanlek, N.</u> , 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
86	BL3.1: XPS	Kumalayanti, L., Tabtamart, J., <u>Kidkhunthod, P.</u> , Chankhunthod, N. and Pinitsoontorn, S.	Photocatalytic Degradation Study of Paraquat Dichloride by Dumbbell-like TiO ₂ Capped Gold Nanorods under UV and NIR Irradiation	Surfaces and Interfaces 57 (Jan 2025): 105760	Q1	5.7	Environmental Science
87	BL3.1: XPS	Islam, M. K., Kongparakul, S., Guan, G., <u>Chanlek, N.</u> and Samart, C.	Oxidative Fractionation of Palm Kernel shell Waste Biomass over Bimetallic Co-Cu/Zelite HY Catalyzt	Biomass and Bioenergy 193 (Feb 2025): 107609	Q1	5.8	Chemistry
88	BL3.1: XPS	Jiamprasertboon, A., Kafizas, A., Eknapakul, T., Choklap, T., Quinet, J., Sailuam, W., Jiang, P., <u>Supruangnet, R.</u> , <u>Nijpanich, S.</u> , Bootchanont, A., Boonyang, U., Siritanon, T. and Cottineau, T.	Insights into Unlocking the Latent Photocatalytic H ₂ Production Activity in the Protonated Aurivillius-Phase Layered Perovskite Na _{0.5} Bi _{2.5} Nb ₂ O ₉	Materials Research Bulletin 186 (Jun 2025): 113352	Q1	5.3	Materials Science and Engineering
89	BL3.1: XPS	Kaisook, P., Athikaphan, P., <u>Nijpanich, S.</u> , Minato , T., Neramittagapong, S. and Neramittagapong, A.	Ni/CeO ₂ Catalyst with La and Zr Additives for Improved Low-Temperature CO ₂ Methanation Efficiency	Results in Engineering 25 (Mar 2025): 103795	Q1	6	Materials Science and Engineering
90	BL3.1: XPS	Khruengsai, S., Pripdeeveh, P., <u>Chanlek, N.</u> , <u>Thumanu, K.</u> , 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
91	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., <u>Chanlek, N.</u> and Bongkarn, T.	Improved Dielectric, Magnetic, and Multiferroic Properties of (Bi _{0.5} Na _{0.5}) _{0.7} La _{0.3} (Ti _{0.7} Fe _{0.3})O ₃ Ceramics Synthesis by the Solid-State Combustion Technique	Physica Status Solidi (A) Applications and Materials Science	Q2	1.9	Materials Science and Engineering
92	BL3.1: XPS	Kulawong, S., <u>Kidkhunthod, P.</u> , <u>Chanlek, N.</u> , 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
93	BL3.1: XPS	Leela, T., Kongkoed, P., Athikaphan, P., Neramittagapong, A., Minato, T. and Neramittagapong, S.	Synergistic Effect of Ni and CeO ₂ on ZSM-5 Catalysts for Efficient Hydrogenation of Glucose to Sorbitol	Results in Engineering 25 (Mar 2025): 104020	Q1	6	Chemistry
94	BL3.1: XPS	Lertna, N., <u>Nijpanich, S.</u> , 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
95	BL3.1: XPS	Mingmuang, Y., <u>Chanlek, N.</u> , Takesada, M., Harnchana, V., Jarernboon, W., Moontragoon, P., Srepusharawoot, P., Swatsitang, E. and Thongbai, P.	Mechanisms of Enhanced Performance in Zr ⁴⁺ /Ta ⁵⁺ Codoped Rutile–TiO ₂ Ceramics via Broadband Dielectric Spectroscopy	Scientific Reports 14 (2024): 23406	Q1	3.8	Materials Science and Engineering
96	BL3.1: XPS	Mingmuang, Y., <u>Chanlek, N.</u> , Takesada, M., Swatsitang, E. and Thongbai, P.	Optimization of Low Sintering Temperature for Colossal Permittivity and Humidity Resistance in TiO ₂ Based Ceramics	Scientific Reports 15 (2025): 8107	Q1	3.8	Materials Science and Engineering
97	BL3.1: XPS	Munthala, D., Sonklin, T., <u>Chanlek, N.</u> , 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
98	BL3.1: XPS	Nachaichot, A., Kenvised, O., Choram, S., <u>Nijpanich, S.</u> and Budsombat, S.	Catalytic Reduction of Nitrophenols and Dyes by HKUST-1/Hydrogel Composite	RSC Advances 15 (2025): 6974-6983	Q1	3.9	Chemistry
99	BL3.1: XPS	Ngokpho, B., <u>Janphuang, P.</u> , <u>Nijpanich, S.</u> , <u>Chanlek, N.</u> , <u>Wannapaiboon, S.</u> , 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
100	BL3.1: XPS	Obrom, W., Yingyuen, W., Nanmong, T., Deekamwong, K., Tawachkultanadilok, P., Wittayakun, J., Prayoonpokarach, S., <u>Poo-arporn, Y.</u> , Föttinger, K., Desaulniers, J. P. and Loiha, S.	Investigating the Role of Zeolite Supports in Ni-Based Catalysts for CO ₂ -Methanation Using in Situ/Operando XAS–MS.	Microporous and Mesoporous Materials 390 (May 2025): 113548	Q1	4.8	Chemistry
101	BL3.1: XPS	Phakkhawan, A., Sakulkalavek, A., <u>Chanlek, N.</u> , <u>Nijpanich, S.</u> , 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
102	BL3.1: XPS	Phichairatanaphong, O., Leelaphuthipong, O., <u>Poo-arporn, Y.</u> , 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
103	BL3.1: XPS	Sanni, A., Govindarajan, D., <u>Nijpanich, S.</u> , <u>Limphirat, W.</u> , 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
104	BL3.1: XPS	Sanni, A., Govindarajan, D., <u>Nijpanich, S.</u> , <u>Limphirat, W.</u> , Tipplook, M., Teshima, K., Sangaraju, S. and Kheawhom, S.	Designing Dual-Phase ZnO-Al ₂ O ₃ -CuO Nanostructures for Enhanced Supercapacitor Performance	Materials Research Bulletin	Q1	5.3	Materials Science and Engineering
105	BL3.1: XPS	Sanni, A., Govindarajan, D., <u>Nijpanich, S.</u> , <u>Limphirat, W.</u> , Mohamad, A. A., Theerthagiri, J., Choi, M. Y. and Kheawhom, S.	Unveiling a Paradigm Shift in Supercapacitor Dynamics: γ-Al ₂ O ₃ -Infused ZnO Nanorods with Redox-Active K ₄ Fe(CN) ₆ Alkaline Electrolytes	Journal of Alloys and Compounds 1010 (Jan 2024): 177892	Q1	5.8	Materials Science and Engineering
106	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
107	BL3.1: XPS	Sawatdee, S. Botalo, A., Noinonmueng, T., Posoknistakul, P., Intra, P., Pongchaikul, P., Charnnok, B., <u>Chanlek, N.</u> , 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
108	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 Fe ₃ O ₄ Using ZSM-5 Zeolite Support Prepared Through Various Methods	RSC Advances 15 (Feb 2025): 5808-5821	Q1	3.9	Environmental Science
109	BL3.1: XPS	Sinprachim, T., Klompong, N., <u>Chanlek, N.</u> , <u>Kidkhunthod, P.</u> , Maensiri, S., Siripongdee, S., Chamsuk, W., Ohgoe, Y., Thonglor, 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

No.	BL	Author	Title	Source	Quartile 2023	IF2023	Field Res.
110	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
111	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
112	BL3.1: XPS	Thanee, K., Youngjan, S., Toomsan, W., Impeng, S., Namuangruk, S., Butburee, T., Rungnim, C., Prasitnok, K., Chawengkijwanich, C., Khunphonoï, 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
113	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
114	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	Q1	4.5	Materials Science and Engineering
115	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
116	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
117	BL3.1: XPS	Wanmolee, W., Kraithong, W., Phanthasri, J., Pipattanaporn, P., Samun, Y., Youngjan, S., Yodsin, N., Saengsrichan, A., Treetong, A., Phawa, C., Pakawani, 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	Q1	7.7	Materials Science and Engineering
118	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
119	BL3.1: XPS	Watcharamaisakul, S., Janphuang, N., Chucangam, W., Srisom, K., Rueangwittayanon, A., Rittihong, U., Tunmee, S., Chanlek, N., Pornsetmetakul, P., Wirosirasak, 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
120	BL3.1: XPS	Yamchumporn, P., Boonin, K., Triamnak, N., Sarecin, 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
121	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
122	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
123	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
124	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	Q2	3.7	Micro Nanotechnology
125	BL3.2U: PES/PEEM	Chaikeeree, T., Kasayapanand, N., Mungkung, N., Phae-ngam, W., Botta, R., Lertvanithphol, T., Dhanasiwawong, K., Nakajima, H., Arunrungrusmi, S., Bodinithikul, 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
126	BL3.2U: PES/PEEM	Chaiwas, S., Kasayapanand, N., Vora-ud, A., Chananonnavathorn, 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
127	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 Nanoarchitectonics 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	Q2	1.9	Surface, Interface and Thin Films
128	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
129	BL3.2U: PES/PEEM	Henjongchom, N., Ruengsrising, 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
130	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
131	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
132	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	Q1	6.3	Materials Science and Engineering
133	BL3.2U: PES/PEEM	Koetnियom,W., Taweeseup, Y., Somboonsakri, 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	Q2	1.9	Surface, Interface and Thin Films
134	BL3.2U: PES/PEEM	Lerdwiriyanupap, T., Wachayee, 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
135	BL3.2U: PES/PEEM	Manit, J., Kanjanaboos, P., Nawecephattana, 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
136	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	Q1	6	Materials Science and Engineering
137	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
138	BL3.2U: PES/PEEM	Phae-ngam, W., Prathumsit, J., Chaikeeree, T., Bodinithikul, 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
139	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	Q2	2.7	Surface, Interface and Thin Films
140	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
141	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
142	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 157 ๒๓0 2024 ๓๙ 107730	Q2	3.4	Materials Science and Engineering

No.	BL	Author	Title	Source	Quartile 2023	IF2023	Field Res.
143	BL3.2U: PES/PEEM	Seriwattanachai, C., Sahasithiwat, S., Chotchuangchuchaval, T., Srathongsian, L., Wattanathana, W., Ning, Z., Phupathanaphong, N., Sakata, P., Thant, K. K. S., Sukwiboon, T., Inna, A., Kanlayapattamapong, T., Kaewprajak, A., Kumnorkaew, P., <u>Supruangnet, R.</u> , Wongpinij, T., <u>Nakajima, H.</u> , 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	Q1	6.5	Materials Science and Engineering
144	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 <u>Wongratanaphisan, D.</u>	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
145	BL3.2U: PES/PEEM	Worathat, S., Pharino, U., <u>Pakawanit, P.</u> , <u>Rattanachata, A.</u> , 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
146	BL3.2U: PES/PEEM	Waiprasoet, S., <u>Kidkhunthod, P.</u> , <u>Nakajima, H.</u> , 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
147	BL3.2U: PES/PEEM	Watcharamaisakul, S., Janphuang, N., Chueangam, W., Srisom, K., <u>Rueangwittayanon, A.</u> , Rittihong, U., Tunmee, S., Chanlek, N., Pornsetmetakul, P., Wirojsirasak, W., Watanarajanaporn, N., Ruethaivanich, K. and <u>Janphuang, P.</u>	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
148	BL4.1: IR	Charoensuk, L., Thongpon, P., Sithirach, C., Chaidee, A., Intuyod, K.,Pairojkul, C., Khin, E. H. H., Jantawong, C., <u>Thumanu, K.</u> , 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
149	BL4.1: IR	Dunkhunthod, B., <u>Thumanu, K.</u> , 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	Q1	4.2	Biological and Life Science
150	BL4.1: IR	Jantasaeng, O., Duclos, M. J., <u>Thumanu, K.</u> , 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	Q1	2.64	Food and Agricultural Science
151	BL4.1: IR	Kajornprai, T., Sringam, J., Seejuntuek, A., <u>Kaewsuwan, D.</u> , <u>Kamonsuthipajit, N.</u> , 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
152	BL4.1: IR	Maimansomsuk, S., Teangrom, P., Teanchai, C., Sinthuvanich, C., Ruengket, P., <u>Attarataya, J.</u> and Akkarachaneeyakorn, K.	Methacrylic Acid/Tween 80 Engineered Amorphous Calcium Phosphate as an Effective Bioactive Reinforcing Nanofillers in Dental Adhesive	Dental Materials Journal	Q2	1.9	Medical Applications
153	BL4.1: IR	Nurhartadi, E., Rodtong, S., <u>Thumanu, K.</u> , 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
154	BL4.1: IR	Pimchan, T., Hamzeh, A., Siringan, P., <u>Thumanu, K.</u> , 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
155	BL4.1: IR	Pongpiachan, S, <u>Thumanu, K.</u> , <u>Tanthanuch, W.</u> , <u>Srisamut, D.</u> , <u>Pradabsri, J.</u> , 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
156	BL4.1: IR	Soontharapirakkul, K., <u>Kuaprasert, B.</u> and Choowongkamon, 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
157	BL4.1: IR	Suwor, F., Kubota, S., <u>Nawong, S.</u> , 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
158	BL4.1: IR	Tantala, J., Kaokham, P., Boonsupthip, W., <u>Thumanu, K.</u> , 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	Q1	7	Food and Agricultural Science
159	BL5.2: XAS	Chandakhiaw, T., Teamroong, N.,Piromyou, P., Songwattana, P., <u>Tanthanuch, W.</u> , <u>Tancharakorn, S.</u> 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
160	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., <u>Tunmee, S.</u> , <u>Kidkhunthod, P.</u> , 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
161	BL5.2: XAS	Chinnakutti, K. K., Sinthong, S., Gao, H., Tapia-Ruiz, N., <u>Kidkhunthod, P.</u> 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
162	BL5.2: XAS	Chuewangkam, N., <u>Kidkhunthod, P.</u> 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
163	BL5.2: XAS	Ji, B., Wang, Y., Zheng, Y., Zhou, X., <u>Kidkhunthod, P.</u> , 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	Q1	4.9	Chemistry
164	BL5.2: XAS	Juntree, P., <u>Siriroj, S.</u> , <u>Padchasri, J.</u> , <u>Songsiririthigul, P.</u> and <u>Kidkhunthod, P.</u>	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
165	BL5.2: XAS	Khejonrak, A., Montreuppathum, A., Siriroj, S., Padchasri, J., Pasee, S., <u>Chanlek, N.</u> , Kheawhom, S. and <u>Kidkhunthod, P.</u>	The Role of Sodium in the Electrochemical Tuning of Li2TiSiO5 Anodes Across Ceramic and Glass Phases	Heliyon 10 (2024): e39410	Q1	3.4	Chemistry
166	BL5.2: XAS	Klinyod, S., Yomthong, K., Suttipat, D., Pornsetmetakul, P., <u>Kidkhunthod, P.</u> , 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
167	BL5.2: XAS	Kulawong, S., <u>Kidkhunthod, P.</u> , <u>Chanlek, N.</u> , 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
168	BL5.2: XAS	Lim, G. J. H., Koh, J. J., Chan, K. K., Koh, X. Q., <u>Padchasri, J.</u> , Sutrisnoh, N. A. A., Verma, V., Raju, K., <u>Kidkhunthod, P.</u> and <u>Srinivasan, M.</u>	Reinforced Chitosan Polymer Electrolyte for Long-Life and Robust Laminated Li-Zn Structural Batteries	Advanced Functional Materials	Q1	18.5	Materials Science and Engineering
169	BL5.2: XAS	Htet, T. L., Sripirommit, S., Asava-arunotai, M., Thu, M. M., Panomsuwan, G., Techapiesanchaorenkij, R., <u>Kidkhunthod, P.</u> , <u>Padchasri, J.</u> and Jongprateep, O.	Enhanced Nitrite and Phosphate Detection through Ag-Doped TiO2 Sensing Material	International Journal of Minerals, Metallurgy and Materials	Q1	5.6	Materials Science and Engineering
170	BL5.2: XAS	Myint, W., Lolupiman, K., Yang, C., Woottapanit, P., <u>Limphirat, W.</u> , <u>Kidkhunthod, P.</u> , 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
171	BL5.2: XAS	Naknonhan, S., Amnuaypanich, S., Random, C., <u>Tanthanuch, W.</u> 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
172	BL5.2: XAS	Obrom, W., Yingyuen, W., Nanmong, T., Deekamwong, K., Tawachkultanadilok, P., Wittayakun, J., Prayoonpokarach, S., <u>Poo-arporn, Y.</u> , 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
173	BL5.2: XAS	Padchasri, J., Siriroj, S., Montreuppathum, A., <u>Pakawanit, P.</u> , 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
174	BL5.2: XAS	<u>Sereerattanakorn, P.</u> , <u>Siriroj, S.</u> , <u>Padchasri, J.</u> , Maitarad, P. and <u>Kidkhunthod, P.</u>	Lithium Borate Glass Ceramics and Multiwalled Carbon Nanotube Composites as Efficient Sulfur Hosts for Enhanced Lithium–Sulfur Batteries	ACS Applied Electronic Materials	Q1	4.4	Materials Science and Engineering
175	BL5.2: XAS	Shin, K., Pei, Y., Zhou, X., Chen, Q., <u>Kidkhunthod, P.</u> , 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
176	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

No.	BL	Author	Title	Source	Quartile 2023	IF2023	Field Res.
177	BL5.2: XAS	Sinprachim, T., Klompong, N., <u>Chanlek, N., Kidkhunthod, P.,</u> 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
178	BL5.2: XAS	Song, T., Wang, C., <u>Kidkhunthod, P.,</u> 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 °C in Sodium-Ion Batteries	Energy Storage Materials 76 (Mar 2025): 104106	Q1	18.9	Materials Science and Engineering
179	BL5.2: XAS	Sukpoonprom, P., <u>Kidkhunthod, P.,</u> 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	Q1	5.7	Materials Science and Engineering
180	BL5.2: XAS	Suwannaruang, T., Wantala, K., Phuthongkhao, P., Hundt, J. P., Taffa, D. H., Wark, M. and <u>Kidkhunthod, P.</u>	Revealing Improved Photocatalytic Decomposition of Fluoroquinolone Antibiotic Over Hydrothermally Grown Perovskite SrTi1-xFexO3 Nanostructures	Surfaces and Interfaces 60 (Mar 2025): 106001	Q1	5.7	Environmental Science
181	BL5.2: XAS	Suwannaruang, T., Wantala, K., Shivaraju, H. P., Shahmoradi, B., <u>Kidkhunthod, P., Chanlek, N., Nijpanich, S., Chirawatkul, P. and Saiyasombat, C.</u>	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
182	BL5.2: XAS	Thanee, K., Youngjan, S., Toomsan, W., Impeng, S., Namuangruk, S., Butburee, T., Rungnim, C., Prasitnok, K., Chawengkijwanich, C., Khunphonoi, R., <u>Nijpanich, S.,</u> 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
183	BL5.2: XAS	Toomsan, W., Butcha, S., Paiplod, P., Bobuatong, K., Kittisabhorn, A., Yodsin, N., Phanthasri, J., Youngjan, S., Thongratkaew, S., <u>Tanthanuch, W.,</u> Faungnawakij, K., Khemthong, P.	Impact of ZnO Morphology on the Catalytic Pathways for Glucose Conversion	Surfaces and Interfaces	Q1	5.7	Chemistry
184	BL5.2: XAS	Veann, C., Sichumsaeng, T., Kalawa, O., <u>Chanlek, N., Kidkhunthod, P.</u> 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
185	BL5.2: XAS	Waiprasoet, S., <u>Kidkhunthod, P.,</u> Nakajima, H., Ittisanronnachai, S., Prayongkul, P., Chattakoonpaisarn, C., Songkerdthong, J., Sukpoonprom, P., Sudyoadsuk, T., Promarak, V. and <u>Pattanasattavavong, P.</u>	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
186	BL5.2: XAS	Wengwirat, K., Choojun, K., Promchana, P., <u>Limphirat, W.</u> and Sooknoi, T.	Bio-Derived Butadiene from Cross-Metathesis over Silanol Rich WO3 Catalysts Obtained from Copper Phyllosilicate	Catalysis Science & Technology	Q2	4.4	Chemistry
187	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
188	BL6: DXL	Kanpipit, N., Mattariganont, S., <u>Janphuang, P.,</u> Rongsak, J., Daduang, S., Chulikhit, Y. and Thapphasaraphong, 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
189	BL6: DXL	Monkratok, J., <u>Janphuang, P.,</u> 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
190	BL6: DXL	Ngokpho, B., <u>Janphuang, P.,</u> Nijpanich, S. <u>Chanlek, N., Wannapaiboon, S.,</u> 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
191	BL7.2: MX	<u>Kuaprasert, B.,</u> Leartsakulpnich, U., Riengrunroj, P., Pornthanakasem, W., Suginta, W., Mungthin, M., Leelayoova, S., Kiriwan, D. and Choowongkamon, K.	Crystal Structure of Leishmania orientalis Triosephosphate Isomerase at 1.88 Å Resolution and Its Specific Inhibitors	Biochimie	Q1	3.3	Medical Applications
192	BL7.2: MX	Pongpiachan, S., <u>Thumanu, K., Tanthanuch, W.,</u> Srisamut, D., <u>Pradabsri, J.,</u> 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
193	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
194	BL7.2: MX	Tandhavanant, S., Yimthin, T., Sengyea, S., <u>Charoenwattanasatien, R.,</u> 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
195	BL7.2: MX	Wen, Y., Yu, K., Zhan, S., Liao, X., Zhang, Z., Ran, X., Li, B., <u>Wannapaiboon, S.</u> and Yan, M.	Stacking Pressure Modulated Deposition and Dissolution of Zinc Anode	Nano-Micro Small	Q1	13	Materials Science and Engineering
196	BL8: XAS	Auewattanapun, K., Bermundo, J. P. S., Hanifah, U., <u>Nakajima, H., Limphirat, W.,</u> Techapiesancharoekij, 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
197	BL8: XAS	Chavalekvirat, P., Saisopa, T., Sornnoi, N., Hirunpinyopas, W., Sirisaksoontorn, W., <u>Busayaporn, W.</u> and Iamprasertkun, P.	Tunable Properties of WSe2 Nanosheets and Nano-Dispersion via Energy Dependent Exfoliation	Materials Reports: Energy	Q1	13	Materials Science and Engineering
198	BL8: XAS	Chunhakowit, P., Phabjanda, Y., Aunwisat, A., <u>Busayaporn, W.,</u> Songsrirote, K. and Prayongpan, P.	Fabrication of Tannic Acid-incorporated Polyvinylpyrrolidone/Polyvinyl Alcohol Composite Hydrogel and Its Application as an Adsorbent for Copper Ion Removal	Scientific Reports 14 (2024): 28259	Q1	3.8	Polymers
199	BL8: XAS	Gopalakrishnan, M., Hlaing, m. T., Kulandaivel, T., Kao-ian, W., Etesami, M., Liu, W. R., Nguyen, M. T., Yonezawa, T., <u>Limphirat, W.</u> 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
200	BL8: XAS	Govindarajan, D., Selvaraj, M., <u>Limphirat, W.,</u> Kirubakaran, 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
201	BL8: XAS	Kulandaivel, T., Gopalakrishnan, M., <u>Limphirat, W.,</u> Pornrunroj, 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
202	BL8: XAS	Lee, Y., Theerthagiri, J., <u>Limphirat, W.,</u> 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
203	BL8: XAS	Lichtenberg, H., Boris, M. T., <u>Klysubun, W.,</u> Alexander, P and Josef, H.	Synchrotron Based X-Ray Absorption Spectroscopy for Structural Analysis of Basalt Fibers	Fibres and Textiles 31 (2024): 56-65	Q3	0.7	Earth Science, Archeology and
204	BL8: XAS	Naknonhan, S., Amnuaypanich, S., Randorn, C., <u>Tanthanuch, W.</u> 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
205	BL8: XAS	Nguyen, B. T., Wehr, J. B., Kopitke, P. M., O'Hare, T. J., Menzies, N. W., Hong, H. T., McKenna, B. A., <u>Klysubun, W.</u> 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
206	BL8: XAS	Nooto, C., Chuaykaew, P., Singthuen, P., Solos, T., Preedawichitkun, Y., Khosukwiwat, K., Wengwirat, K., Promchana, P., Kumar, R., Chung, P. W., <u>Poo-arporn, Y.,</u> <u>Limphirat, W.,</u> 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 CuMgAlOx Catalysts	Molecular Catalysis 575 (Mar 2025): 114898	Q2	3.9	Materials Science and Engineering
207	BL8: XAS	Pimoei, J., Kao-ian, W., Tipplook, M., Katsuya, T., Kamchompoo, S., Jungsuttiwong, S., Chen, J. L., Pao, C. W., <u>Kidkhunthod, P.,</u> <u>Limphirat, W.,</u> 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
208	BL8: XAS	Prietzl, J., Harrington, G., Hiesch, S. and <u>Klysubun, W.</u>	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
209	BL8: XAS	Rajaramkrishna, R., Nikolay, N., Wantana, N., Kim, H. J., Kothan, S., Intachai, N., <u>Busayaporn, W.,</u> 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
210	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
211	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	Q1	5.3	Materials Science and Engineering
212	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

No.	BL	Author	Title	Source	Quartile 2023	IF2023	Field Res.
213	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	Q1	5.1	Materials Science and Engineering
214	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	Q1	5.1	Materials Science and Engineering
215	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
216	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
217	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	Q2	4.4	Chemistry
218	BL8: XAS	Yang, C., Wootapanitl, 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
219	BL8: XAS	Yang, C., Wootapanit, 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
220	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
221	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	Q1	24.4	Materials Science and Engineering
222	BL8: XAS	Zhao, Y., Kantichaimongkol, P., Yang, C., Dai, Z., Xu, D., Zhang, X., Okhawilai, M., Pattanauwat, 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
223	CSEc	Kuaprasert, B., Leartsakulpanich, U., Riangrunroj, 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	Q1	3.3	Medical Applications
224	CSEc	Pakornchote, T., Khamkao, S., Ektarawong, A. and Bovornratanaraks, T.	AA Stacking Phase of Diamane-like Carbon Nitrides: A First Principle Study and Its Thermal Conductivity	ACS Omega	Q2	3.7	Materials Science and Engineering
225	CSEc	Pinsook, U., Tsuppayakorn-ack, 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
226	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
227	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
228	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
229	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
230	Laboratory	Kuaprasert, B., Leartsakulpanich, U., Riangrunroj, 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	Q1	3.3	Medical Applications
231	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
232	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
233	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	Q1	5.9	Chemistry
234	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
235	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
236	MES	Aye, N. N. S., Maraming, P., Tipayawat, 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	Q2	3.7	Micro Nanotechnology
237	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
238	MES	Maraming, P., Shean Aye, N. N., Panyakakaew, P., Tipayawat, 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
239	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
240	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