

Publications in Q1 (top 25%) Journal Quartile by CiteScore : A Case Study of National Chung Hsing University

Sciences and Engineering

(Time periods of data used : 1 January 2023~19 April 2023)

Data source : SciVal – 27 April 2023

Sciences and Engineering

No.	Authors	Title	Scopus Source title	DOI	Author / Affiliations
1	Tsai, Y.-L.	A Class of Symmetric Dziobek Configurations in Restricted Problems for Homogeneous Force Laws	Journal of Dynamics and Differential Equations	10.1007/s10884-023-10259-1	Corresponding Author
2	Shih, D.-S. Shih, S.-S. Hsu, S.M. Lin, S.-Y. Lin, Y. Hung, C.-T. Wang, K.	A framework for the sustainable risk assessment of in-river hydraulic structures: A case study of Taiwan's Daan River	Journal of Hydrology	10.1016/j.jhydrol.2022.129028	
3	Xu, Q. Shang, C. Ma, H. Hong, Q. Li, C. Ding, S. Xue, L. Sun, X. Pan, Y. Sugahara, T. Yalikun, Y. Lai, Y.-C. Yang, Y.	A guided-liquid-based hybrid triboelectric nanogenerator for omnidirectional and high-performance ocean wave energy harvesting	Nano Energy	10.1016/j.nanoen.2023.108240	Corresponding Author
4	Ma, M.-Y. Huang, Y.-C. Wu, Y.-T.	A Morphing Point-to-Point Displacement Control Based on Long Short-Term Memory for a Coplanar XXY Stage	Sensors	10.3390/s23041938	Corresponding Author
5	Zhuang, G.-L. Wang, L.-C. Lin, Y.-C. Li, J.-Y. Setnickova, K. Tseng, H.-H.	A novel glue attachment approach for precise anchoring of hydrophilic EGCG to enhance the separation performance and antifouling properties of PVDF membranes	Chemical Engineering Journal	10.1016/j.cej.2023.142585	Corresponding Author
6	Tsai, Y.-H. Wu, S.-K. Yu, S.-S. Tsai, M.-H.	A Novel Hybrid Deep Neural Network for Predicting Athlete Performance Using Dynamic Brain Waves	Mathematics	10.3390/math11040903	Corresponding Author
7	Deng, Z.-Y. Kumar, U. Ke, C.-H. Lin, C.-W. Huang, W.-M. Wu, C.-H.	A simple and fast method for the fabrication of p-type β -Ga ₂ O ₃ by electrochemical oxidation method with DFT interpretation	Nanotechnology	10.1088/1361-6528/aca2b1	
8	Deng, Z.-Y. Kumar, U. Ke, C.-H. Lin, C.-W. Huang, W.-M. Wu, C.-H.	A simple and fast method for the fabrication of p-type β -Ga ₂ O ₃ by electrochemical oxidation method with DFT interpretation	Nanotechnology	10.1088/1361-6528/aca2b1	Corresponding Author
9	Tung, L.-C. Chan, Y.J.	A time-variant dynamic model for compound epicyclic–cycloidal reducers	Mechanism and Machine Theory	10.1016/j.mechmachtheory.2022.105095	Corresponding Author
10	Jeremias, J.S.D. Lin, J.-Y. Dalida, M.L.P. Lu, M.-C.	Abatement technologies for copper containing industrial wastewater effluents - A review	Journal of Environmental Chemical Engineering	10.1016/j.jece.2023.109336	Corresponding Author

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11	Lin, Y.-H. Sivakumar, C. Balraj, B. Murugesan, G. Nagarajan, S.K. Ho, M.-S.	Ag-Decorated Vertically Aligned ZnO Nanorods for Non-Enzymatic Glucose Sensor Applications	Nanomaterials	10.3390/nano13040754	Corresponding Author
12	Yang, X.-X. Lu, F.-H.	Air-based sputtering deposition of titanium oxynitride-based single, gradient, and multi-layer thin films for photoelectrochemical applications	Ceramics International	10.1016/j.ceramint.2023.01.184	Corresponding Author
13	Ha, T.-H. Mahasti, N.N.N. Lu, M.-C. Huang, Y.-H.	Ammonium-nitrogen recovery as struvite from swine wastewater using various magnesium sources	Separation and Purification Technology	10.1016/j.seppur.2022.122870	Corresponding Author
14	Huang, D.-C. Liu, L.-C. Deng, Y.-Y. Chen, C.-L.	An Artwork Rental System Based on Blockchain Technology	Symmetry	10.3390/sym15020341	First Author
15	Yang, T.-T. Tseng, H.-W. Lu, C.-C.	An Early Wake-up and Access Barring Scheme for Improving the Probability of NDP in BLE Networks	IEEE Transactions on Green Communications and Networking	10.1109/TGCN.2022.3177541	Corresponding Author
16	Udomsin, J. Lin, C.-H. Wang, C.-F. Chen, J.-K. Tsai, H.-C. Hung, W.-S. Hu, C.-C. Lai, J.-Y.	An eco-friendly method to prepare superwetting composites by modifying cotton with TA/FeIII/PDDA coatings for highly effective separations of emulsions	Progress in Organic Coatings	10.1016/j.porgcoat.2023.107494	
17	Chou, S.-H. Lu, H.-W. Liu, T.-C. Chen, Y.-T. Fu, Y.-L. Shieh, Y.-H. Lai, Y.-C. Chen, S.-Y.	An Environmental-Inert and Highly Self-Healable Elastomer Obtained via Double-Terminal Aromatic Disulfide Design and Zwitterionic Crosslinked Network for Use as a Triboelectric Nanogenerator	Advanced Science	10.1002/adv.202202815	Corresponding Author
18	Lee, T.-Y. Chiu, C.-C. Chen, C.-J. Lin, C.-Y. Shiah, F.-K.	Assessing future availability of water resources in Taiwan based on the Budyko framework	Ecological Indicators	10.1016/j.ecolind.2022.109808	Corresponding Author
19	Chung, P.-M. Lin, Y.-T. Wang, G.-J.	Au/Ni Coaxial Nanopillar Microarray Electrodes for Red Blood Cell Concentration Detection	IEEE Sensors Journal	10.1109/JSEN.2023.3238372	Corresponding Author
20	Lee, C.-W. Lin, Z.-C. Chiang, Y.-C. Li, S.-Y. Ciou, J.-J. Liu, K.-W. Lin, Y.-C. Huang, B.-J. Peng, K.-T. Fang, M.-L. Lin, T.-E. Liao, M.-Y. Lai, C.-H.	AuAg nanocomposites suppress biofilm-induced inflammation in human osteoblasts	Nanotechnology	10.1088/1361-6528/acb4a1	Corresponding Author
21	Juang, C.-F. Chen, Y.-W.	Automatic Hitting-Duration Estimation of a Rechargeable Impact Wrench Using a Fuzzy Neural Network to Reach Target Toques	International Journal of Fuzzy Systems	10.1007/s40815-022-01387-9	First Author, Corresponding Author

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22	Tsai, J. Chang, C.-C. Li, T.	Autonomous Driving Control Based on the Technique of Semantic Segmentation	Sensors	10.3390/s23020895	First Author
23	Chen, W.-C. Bai, R. Cheng, W.-L. Peng, C.-Y. Reddy, D.M. Badsara, S.S. Lee, C.-F.	Base-mediated chalcogenoaminative annulation of 2-alkynylanilines for direct access to 3-sulfenyl/selenyl-1H-indoles	Organic & biomolecular chemistry	10.1039/d3ob00279a	
24	Chen, W.-Y. Lin, W.-H. Kuo, C.-J. Liang, C.-F.	Base-mediated ketenimine formation from N-sulfonylthioimidates for the synthesis of 5-amino-1-vinyl/aryl-1,2,3-triazoles	Chemical Communications	10.1039/d2cc06708k	Corresponding Author
25	Shao, P.-W. Wu, Y.-X. Chen, W.-H. Zhang, M. Dai, M. Kuo, Y.-C. Hsieh, S.-H. Tang, Y.-C. Liu, P.-L. Yu, P. Chen, Y. Huang, R. Chen, C.-H. Hsu, J.-H. Chen, Y.-C. Hu, J.-M. Chu, Y.-H.	Bicontinuous oxide heteroepitaxy with enhanced photoconductivity	Nature Communications	10.1038/s41467-022-35385-0	
26	Li, M. Lin, Z.-I. Yang, J. Huang, H. Liu, G.-L. Liu, Q. Zhang, X. Zhang, Y. Xu, Z. Lin, H. Chai, Y. Chen, X. Ko, B.-T. Liu, J. Chen, C.-K. Yang, C.	Biodegradable Carbon Dioxide-Derived Non-Viral Gene Vectors for Osteosarcoma Gene Therapy	Advanced Healthcare Materials	10.1002/adhm.202201306	
27	Wang, Z. Chen, C. Fang, L. Cao, B. Tu, X. Zhang, R. Dong, K. Lai, Y.-C. Wang, P.	Biodegradable, conductive, moisture-proof, and dielectric enhanced cellulose-based triboelectric nanogenerator for self-powered human-machine interface sensing	Nano Energy	10.1016/j.nanoen.2022.108151	
28	Khiem, T.C. Huy, N.N. Trang, T.D. Wen, J.-C. Kwon, E. Chang, H.-C. Hu, C. Duan, X. Lin, K.-Y.A.	Boosting elimination of sunscreen, Tetrahydroxybenzophenone (BP-2), from water using monopersulfate activated by thorny NanoBox of Co@C prepared via the engineered etching strategy: A comparative and mechanistic investigation	Chemosphere	10.1016/j.chemosphere.2023.138469	
29	Khiem, T.C. Huy, N.N. Trang, T.D. Wen, J.-C. Kwon, E. Chang, H.-C. Hu, C. Duan, X. Lin, K.-Y.A.	Boosting elimination of sunscreen, Tetrahydroxybenzophenone (BP-2), from water using monopersulfate activated by thorny NanoBox of Co@C	Chemosphere	10.1016/j.chemosphere.2023.138469	Corresponding Author

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		prepared via the engineered etching strategy: A comparative and mechanistic investigation			
30	Venkata Subbaiah, M. Wen, H.-Y. Gollakota, A.R.K. Wen, J.-C. Shu, C.-M. Lin, K.-Y.A. Vijaya, Y. Kim, D.-S. Wen, J.-H.	Carboxylate-functionalized dragon fruit peel powder as an effective adsorbent for the removal of Rhodamine B (cationic dye) from aqueous solution: adsorption behavior and mechanism	International Journal of Phytoremediation	10.1080/15226514.2022.2064817	
31	Hwang, Y. Kim, Y.-M. Lee, J.E. Rhee, G.H. Show, P.-L. Andrew Lin, K.-Y. Park, Y.-K.	Catalytic removal of 2-butanone with ozone over porous spent fluid catalytic cracking catalyst	Environmental Research	10.1016/j.envres.2022.115071	
32	Li, T.-Y. Li, W.-J. Wey, M.-Y.	Cation exchange reaction drives CeMn-montmorillonite catalyst with high dispersion and abundant acidic sites for low-temperature NH3-SCR	Journal of Environmental Chemical Engineering	10.1016/j.jece.2023.109518	Corresponding Author
33	Huang, H.-J. Huang, S.-Y. Wang, T.-H. Lin, T.-Y. Huang, N.-C. Shih, O. Jeng, U.-S. Chu, C.-Y. Chiang, W.-H.	Clay nanosheets simultaneously intercalated and stabilized by PEGylated chitosan as drug delivery vehicles for cancer chemotherapy	Carbohydrate Polymers	10.1016/j.carbpol.2022.120390	
34	Huang, H.-J. Huang, S.-Y. Wang, T.-H. Lin, T.-Y. Huang, N.-C. Shih, O. Jeng, U.-S. Chu, C.-Y. Chiang, W.-H.	Clay nanosheets simultaneously intercalated and stabilized by PEGylated chitosan as drug delivery vehicles for cancer chemotherapy	Carbohydrate Polymers	10.1016/j.carbpol.2022.120390	Corresponding Author
35	Kao, S.-P. Chang, Y.-C. Wang, F.-L.	Combining the YOLOv4 Deep Learning Model with UAV Imagery Processing Technology in the Extraction and Quantization of Cracks in Bridges	Sensors	10.3390/s23052572	First Author
36	Yu, H.H. Chen, Y.-C. Su, H.-P. Chen, L. Chen, H.-H. Lin, K.-Y.A. Lin, C.-H.	Comparative pulmonary toxicity assessment of tungsten trioxide and tungsten trioxide hydrate nanoparticles	Science of the Total Environment	10.1016/j.scitotenv.2022.158885	Corresponding Author
37	Huang, Y.-Y. Wang, P.-C.	Computation Offloading and User-Clustering Game in Multi-Channel Cellular Networks for Mobile Edge Computing	Sensors	10.3390/s230311155	Corresponding Author
38	Chou, C.-H. Shen, T.-W. Tung, H. Hsieh, P.F. Kuo, C.-E. Chen, T.-M. Yang, C.-W.	Convolutional neural network-based fast seizure detection from video electroencephalograms	Biomedical Signal Processing and Control	10.1016/j.bspc.2022.104380	

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39	Lin, C.-K. Chen, B.-Y. Ting, J.U. Rogio, K.G.G. Tsai, P.-W. Liu, Y.-C.	Deciphering Houttuynia cordata extract as electron shuttles with anti-COVID-19 activity and its performance in microbial fuel cells	Journal of the Taiwan Institute of Chemical Engineers	10.1016/j.jtice.2023.104838	
40	Chang, R.C.-H. Wang, C.-Y. Li, Y.-H. Chiu, C.-D.	Design of Low-Complexity Convolutional Neural Network Accelerator for Finger Vein Identification System	Sensors	10.3390/s23042184	First Author, Corresponding Author
41	Ikebe, S. Takefuji, K. Terasawa, T. Eie, S. Akahori, T. Murata, Y. Hashimoto, T. Kisaka, S. Honma, M. Yoshiura, S. Suzuki, S. Oyama, T. Sekido, M. Niinuma, K. Takeuchi, H. Yonekura, Y. Enoto, T.	Detection of a bright burst from the repeating fast radio burst 20201124A at 2 GHz	Publications of the Astronomical Society of Japan	10.1093/pasj/psac101	
42	Natarajan, T. Gopinathan, M. Thirupathi, M. Adeniyi, O. Chang, J.-L. Zen, J.-M. Tesfalidet, S. Mikkola, J.-P.	Detection of nitrification inhibitor dicyandiamide: A direct electrochemical approach	Food Chemistry: X	10.1016/j.fochx.2023.100658	
43	Tseng, G.-W. Lin, P.-C. Wang, C.-L. Wang, C.-C. Kei, C.-C.	Development of three-dimensional flexible binder-free core-dual shell electrodes via atomic layer deposition of synergistic metal oxide nanocomposites for lithium-ion batteries	Applied Surface Science	10.1016/j.apsusc.2022.156177	Corresponding Author
44	Chen, T.-Y. Lin, N.-Y. Wen, C.-H. Lin, C.-A. Venkatesan, P. Wijerathna, P. Lin, C.-Y. Lai, P.-S.	Development of triamcinolone acetone-hyaluronic acid conjugates with selective targeting and less osteoporosis effect for rheumatoid arthritis treatments	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2023.124047	Corresponding Author
45	Jiang, X.-Y. Kwon, E. Wen, J.-C. Bedia, J. Thanh, B.X. Ghotekar, S. Lee, J. Tsai, Y.-C. Ebrahimi, A. Lin, K.-Y.A.	Direct growth of nano-worm-like Cu ₂ S on copper mesh as a hierarchical 3D catalyst for Fenton-like degradation of an imidazolium room-temperature ionic liquid in water	Journal of Colloid and Interface Science	10.1016/j.jcis.2023.01.029	
46	Chen, C.-C. Chen, Y.-H. Nguyen, V.S. Chen, S.-Y. Tsai, M.-C. Chen, J.-S. Lin, S.-Y. Wei, T.-C. Yeh, C.-Y.	Double Fence Porphyrins Featuring Indacenodithiophene Group as an Effective Donor for High-Efficiency Dye-Sensitized Solar Cells	Advanced Energy Materials	10.1002/aenm.202300353	Corresponding Author

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47	Tsai, C.-C. Huang, L.-Y. Chen, C.-J.	Earthquake-induced persistent and instantaneous groundwater variations caused by volumetric strain of soil in Taiwan from 1999 to 2020	Soil Dynamics and Earthquake Engineering	10.1016/j.soildyn.2022.107586	
48	Tsai, C.-C. Huang, L.-Y. Chen, C.-J.	Earthquake-induced persistent and instantaneous groundwater variations caused by volumetric strain of soil in Taiwan from 1999 to 2020	Soil Dynamics and Earthquake Engineering	10.1016/j.soildyn.2022.107586	First Author, Corresponding Author
49	Chen, W.-C. Lin, Y.-H. Ouyang, S.-M. Lee, Y.-R.	Effect of relative humidity on the emission height and reaction force of single-tube fireworks	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-023-12033-3	
50	Lin, Y.-S. Liao, M.-C. Wu, P.-C. Chen, H. Lin, C.-F.	Effects of O ₂ gas addition on enhancing lithium electrochromic performance of flexible WFe _x Ta _y O _z 1Cz ₂ Nz ₃ films synthesized by cold atmospheric pressure plasma polymerization	Vacuum	10.1016/j.vacuum.2023.111857	
51	Nguyen, V.S. Su, T.-S. Chen, C.-C. Yeh, C.-Y. Wei, T.-C.	Efficient counter electrode for copper (I)(II)-mediated dye-sensitized solar cells based on polyvinyl alcohol capped platinum nanoclusters	Journal of the Taiwan Institute of Chemical Engineers	10.1016/j.jtice.2022.104626	Corresponding Author
52	Ho, I.-H. Huang, Y.-J. Cai, C.-E. Liu, B.-T. Wu, T.-M. Lee, R.-H.	Enhanced Photovoltaic Performance of Inverted Perovskite Solar Cells through Surface Modification of a NiO _x -Based Hole-Transporting Layer with Quaternary Ammonium Halide-Containing Cellulose Derivatives	Polymers	10.3390/polym15020437	Corresponding Author
53	Ho, I.-H. Huang, Y.-J. Cai, C.-E. Liu, B.-T. Wu, T.-M. Lee, R.-H.	Enhanced Photovoltaic Performance of Inverted Perovskite Solar Cells through Surface Modification of a NiO _x -Based Hole-Transporting Layer with Quaternary Ammonium Halide-Containing Cellulose Derivatives	Polymers	10.3390/polym15020437	
54	Liu, S.-H. Tsai, Y.-N. Chen, C. Lin, C.-W. Zhu, T.-J.	Enhanced sulfolane-contaminated groundwater degradation and power generation by a mini tubular microbial fuel cell/electro-Fenton combined system	Process Safety and Environmental Protection	10.1016/j.psep.2022.10.054	
55	Zhang, Q.-T. Tseng, Y.-T. Lu, K.-C. Huang, C.-W. Hsu, H.-F. Wu, W.-W.	Epitaxial growth and E-beam induced structural changes of single crystalline 2D antimonene	Scripta Materialia	10.1016/j.scriptamat.2022.115262	
56	Chen, Y.-C. Chen, K.-F. Andrew Lin, K.-Y. Su, H.-P. Wu, D.-N. Lin, C.-H.	Evaluation of toxicity of polystyrene microplastics under realistic exposure levels in human vascular endothelial EA.hy926 cells	Chemosphere	10.1016/j.chemosphere.2022.137582	

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57	Tsai, Y.-L.	Exploring circulations yielding no vortex equilibria	Journal of Symbolic Computation	10.1016/j.jsc.2022.04.019	
58	Chen, M.-H. Li, S.-Y.	Extra-cellular production of uricase through the sec-type secretion system in Escherichia coli	Biochemical Engineering Journal	10.1016/j.bej.2023.108894	Corresponding Author
59	Lu, Y.-C. Tseng, P.-C. Yang, M.-J. Wang, C.-J. Ling, Y.-C. Lin, C.-F. Hsueh, H.-Y.	Fabrication of Gyroid-Structured Metal/Semiconductor Nanoscaffolds with Ultrasensitive SERS Detection via Block Copolymer Templating	Advanced Optical Materials	10.1002/adom.202202280	Corresponding Author
60	Lu, Y.-C. Tseng, P.-C. Yang, M.-J. Wang, C.-J. Ling, Y.-C. Lin, C.-F. Hsueh, H.-Y.	Fabrication of Gyroid-Structured Metal/Semiconductor Nanoscaffolds with Ultrasensitive SERS Detection via Block Copolymer Templating	Advanced Optical Materials	10.1002/adom.202202280	
61	Lin, R.-H. Lee, H.-T. Yeh, C.-A. Yang, Y.-C. Shen, C.-C. Chang, K.-B. Liu, B.-S. Hsieh, H.-H. Wang, H.-M.D. Hung, H.-S.	Favorable Biological Performance Regarding the Interaction between Gold Nanoparticles and Mesenchymal Stem Cells	International Journal of Molecular Sciences	10.3390/ijms24010005	Corresponding Author
62	Chang, H.-W. Chen, C.-L. Jhu, S.-J. Lin, G.-W. Cheng, C.-W. Tsai, Y.-C.	Femtosecond laser structuring in the fabrication of periodic nanostructure on titanium for enhanced photoelectrochemical dopamine sensing performance	Microchemical Journal	10.1016/j.microc.2023.108423	
63	Chen, H.-Y. Araoka, F. Lee, F.-Y. Lee, C. Chen, J.J.	Field-induced second-harmonic generation induced by distorted soft chiral crystal	Journal of Physics D: Applied Physics	10.1088/1361-6463/acbe09	First Author, Corresponding Author
64	Lin, T.-I. Wang, W.-L.	Flexible modeling of multiple nonlinear longitudinal trajectories with censored and non-ignorable missing outcomes	Statistical Methods in Medical Research	10.1177/09622802221146312	First Author
65	Guo, J.-S. Hamel, F. Wu, C.-C.	Forced waves for a three-species predator-prey system with nonlocal dispersal in a shifting environment	Journal of Differential Equations	10.1016/j.jde.2022.11.039	Corresponding Author
66	Guo, J.-S. Poh, A.A.L. Wu, C.-C.	Forced waves of saturation type for Fisher–KPP equation in a shifting environment	Applied Mathematics Letters	10.1016/j.aml.2023.108573	Corresponding Author
67	Suryantari, R. Shih, Y.-H. Shih, Y.-H. Chen, H.-Y. Wu, C.-S. Huang, C.-Y.	Formation of monodomain polymer-stabilized blue phase liquid crystals using surface acoustic waves	Optics Letters	10.1364/OL.475938	
68	Yaghoot-Nezhad, A. Wacławek, S. Madihi-Bidgoli, S. Hassani, A. Lin, K.-Y.A. Ghanbari, F.	Heterogeneous photocatalytic activation of electrogenerated chlorine for the production of reactive	Journal of Hazardous Materials	10.1016/j.jhazmat.2022.130626	Corresponding Author

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		oxygen and chlorine species: A new approach for Bisphenol A degradation in saline wastewater			
69	Khiem, T.C. Huy, N.N. Kwon, E. Duan, X. Waclawek, S. Bedia, J. Tsai, Y.-C. Ebrahimi, A. Ghanbari, F. Lin, K.-Y.A.	Hetero-interface-engineered sulfur vacancy and oxygen doping in hollow Co ₉ S ₈ /Fe ₇ S ₈ nanospheres towards monopersulfate activation for boosting intrinsic electron transfer in paracetamol degradation	Applied Catalysis B: Environmental	10.1016/j.apcatb.2023.122550	
70	Liu, C.-N. Shih, H.-K. Chen, Y.-C. Chen, Y.-H. Cheng, W.-C. Cheng, W.-H.	High reliability and luminance of the color wheel by phosphor-in-inorganic silicone	Optical Materials Express	10.1364/OME.473011	First Author
71	Chen, C.-C. Nargotra, P. Kuo, C.-H. Liu, Y.-C.	High-Molecular-Weight Exopolysaccharides Production from Tuber brochii Cultivated by Submerged Fermentation	International Journal of Molecular Sciences	10.3390/ijms24054875	Corresponding Author
72	Liu, W.-J. Park, Y.-K. Bui, H.M. Huy, N.N. Lin, C.-H. Ghotekar, S. Wi-Afedzi, T. Lin, K.-Y.A.	Hofmann-MOF-derived CoFeNi nanoalloy@CNT as a magnetic activator for peroxymonosulfate to degrade benzophenone-1 in water	Journal of Alloys and Compounds	10.1016/j.jallcom.2022.165189	
73	Huang, C.-C.	Hybrid Image Graphene Polaritons with Extremely Confined Mode and Field Enhancement in the Terahertz Regime	Advanced Optical Materials	10.1002/adom.202202199	Corresponding Author
74	Lee, J. Lin, K.-Y.A. Jung, S. Kwon, E.E.	Hybrid renewable energy systems involving thermochemical conversion process for waste-to-energy strategy	Chemical Engineering Journal	10.1016/j.cej.2022.139218	
75	Yim, H. Valizadeh, S. Pyo, S. Jang, S.-H. Ko, C.H. Khan, M.A. Jeon, B.-H. Lin, K.-Y.A. Park, Y.-K.	Hydrogen generation from gasification of woody biomass upon acid mine drainage sludge as a novel catalyst under an air medium	Fuel	10.1016/j.fuel.2022.127243	
76	Chan, Y.-K. Lin, Y.-C. Wang, W.-J. Hu, W.-T. Lin, C.-H. Yu, S.-S.	Identifying the occlusion of left subclavian artery with stent based on chest MRI images	Multimedia Tools and Applications	10.1007/s11042-022-13735-w	
77	Ko, W.-Y. Lubis, A.L. Liu, Y.-Z. Sitindaon, R.S. Lin, K.-J.	Improved performance of supercapacitor and zinc-ion battery based on 3D architected porous manganese oxide-based nanosheets as binder-free electrodes	Journal of Materials Research	10.1557/s43578-022-00820-x	Corresponding Author
78	Chang, L.-W. Liao, J.-R.	Improving non-local means image denoising by correlation correction	Multidimensional Systems and Signal Processing	10.1007/s11045-022-00855-7	Corresponding Author

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79	Deng, H.-W. Tseng, Y.-T. Lee, M.-P. Lin, Y.-F. Wu, W.-W.	In Situ TEM Observation of Electron-Beam-Induced Microstructural Evolution in van der Waals Layered Magnetic CrSBr Semiconductor	Advanced Electronic Materials	10.1002/aelm.202200994	
80	Shen, Z.-X. Li, S.-Y.	Increasing the atom economy of glucose fermentation for bioethanol production in Rubisco-based engineered Escherichia coli	Bioresource Technology Reports	10.1016/j.biteb.2023.101370	Corresponding Author
81	Boonrattanakij, N. Puangsuwan, S. Vilando, A.C. Lu, M.-C.	Influence of coexisting EDTA, citrate, and chloride ions on the recovery of copper and cobalt from simulated wastewater using fluidized-bed homogeneous granulation process	Process Safety and Environmental Protection	10.1016/j.psep.2023.02.009	Corresponding Author
82	Kilerci, E. Hashimoto, T. Goto, T. Göğüş, E. Kim, S.J. Ho, S.C. Valerie Wong, Y.H.	Infrared Galaxies Detected by the Atacama Cosmology Telescope	Astrophysical Journal, Supplement Series	10.3847/1538-4365/acb8ba	
83	Kong, Z.Y. Tsai, Y.-T. Sunarso, J. Adi, V.S.K.	Inherent flexibility design strategy of extractive distillation for binary azeotropic separation	Separation and Purification Technology	10.1016/j.seppur.2023.123344	Corresponding Author
84	Hassani, A. Eghbali, P. Mahdipour, F. Wacławek, S. Lin, K.-Y.A. Ghanbari, F.	Insights into the synergistic role of photocatalytic activation of peroxydisulfate by UVA-LED irradiation over CoFe ₂ O ₄ -rGO nanocomposite towards effective Bisphenol A degradation: Performance, mineralization, and activation mechanism	Chemical Engineering Journal	10.1016/j.cej.2022.139556	Corresponding Author
85	Wu, H.-D.I. Lin, R.-S. Hwang, W.-H. Huang, M.-L. Chen, B.-J. Yen, T.-C. Chao, D.-Y.	Integrating Citizen Scientist Data into the Surveillance System for Avian Influenza Virus, Taiwan	Emerging Infectious Diseases	10.3201/eid2901.220659	
86	Wu, H.-D.I. Lin, R.-S. Hwang, W.-H. Huang, M.-L. Chen, B.-J. Yen, T.-C. Chao, D.-Y.	Integrating Citizen Scientist Data into the Surveillance System for Avian Influenza Virus, Taiwan	Emerging Infectious Diseases	10.3201/eid2901.220659	First Author
87	Yen, C.-C. Singh, A.K. Wu, P.-W. Chou, H.-Y. Wu, D.-S.	Interface engineering in epitaxial growth of sputtered β -Ga ₂ O ₃ films on Si substrates via TiN (111) buffer layer for Schottky barrier diodes	Materials Today Advances	10.1016/j.mtadv.2023.100348	Corresponding Author
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91	Li, J.-Y. Wey, M.-Y. Tseng, H.-H.	Low-temperature Cu/Zn/SBA-16 integrating carbon membrane reactor for hydrogen production and high CO conversion through water-gas shift reaction	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2022.11.199	Corresponding Author
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100	Cheng, Y.-H. Chang, S.-C. Lai, Y.-L. Hu, C.-C.	Microbiome reengineering by four environmental factors for the rapid biodegradation of trichloroethylene	Journal of Environmental Management	10.1016/j.jenvman.2022.116658	Corresponding Author
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110	Chen, C.-H. Kuo, S.-Y. Feng, H.-Y. Li, Z.-H. Yang, S. Wu, S.-H. Hsieh, H.-Y. Lin, Y.-S. Lee, Y.-C. Chen, W.-C. Wu, P.-H. Chen, J.-C. Huang, Y.-Y. Lu, Y.-J. Kuo, Y. Lin, C.-F. Yang, C.C.	Photon color conversion enhancement of colloidal quantum dots inserted into a subsurface laterally-extended GaN nano-porous structure in an InGaN/GaN quantum-well template	Optics Express	10.1364/OE.478250	
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No.	Authors	Title	Scopus Source title	DOI	Author / Affiliations
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No.	Authors	Title	Scopus Source title	DOI	Author / Affiliations
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