

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 : 20 April 2023~19 July 2023)

Data source : SciVal – 28 July 2023

Sciences and Engineering

No.	Authors	Title	Scopus Source title	DOI	Authorship
1	Venkatesan, M. Chandrasekar, J. Liang, F.-C. Lin, W.-C. Chen, W.-C. Cho, C.-J. Chen, Y.-T. Lee, W.-Y. Su, C. Zhou, Y. Lai, Y.-C. Kuo, C.-C.	2022 Taiwanese Dermatological Association (TDA), Taiwanese Association for Psoriasis and Skin Immunology (TAPSI), and Taiwan Society of cardiology (TSOC) joint consensus recommendations for the management of psoriatic disease with attention to cardiovascular comorbidities	Nano Energy	10.1016/j.nanoen.2023.108556	Corresponding Author
2	Wu, C.-Y. Su, Y.-T. Su, C.-K.	4D-printed needle panel meters coupled with enzymatic derivatization for reading urea and glucose concentrations in biological samples	Biosensors and Bioelectronics	10.1016/j.bios.2023.115500	Corresponding Author
3	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
4	Chen, H.-J. Chang, W.-T. Tang, C.-W. Peng, C.-F.	A Feasibility Study on Textile Sludge as a Raw Material for Sintering Lightweight Aggregates and Its Application in Concrete	Applied Sciences (Switzerland)	10.3390/app13116395	First Author
5	Lin, Y. Liu, W. Huang, Y. Huang, Y. Yeh, Y. Chang, M. Lin, S. Liao, Y. Liao, Y.	A Multimodality Electrochemical and Impedance Spectroscopy System-on-A-Chip With Temperature Sensing and Impedance-Boosting Techniques	IEEE Transactions on Biomedical Circuits and Systems	10.1109/TBCAS.2023.3287835	
6	Lan, C.-F. Wang, C.-M. Lin, W.	A Novel Adaptive Image Data Hiding and Encryption Scheme Using Constructive Image Abstraction	Applied Sciences (Switzerland)	10.3390/app13106208	Corresponding Author
7	Wang, S.-M. Peng, J.-K. Gunawan, H. Tu, R.-Q. Chiou, S.-J.	A Novel Electrode Front-End Face Design to Improve Geometric Accuracy in Electrical Discharge Machining Process	Metals	10.3390/met13061122	First Author
8	Li, W. Gupta, R. Zhang, Z. Cao, L. Li, Y. Show, P.L. Gupta, V.K. Kumar, S. Lin, K.-Y.A. Varjani, S. Connelly, S. You, S.	A review of high-solid anaerobic digestion (HSAD): From transport phenomena to process design	Renewable and Sustainable Energy Reviews	10.1016/j.rser.2023.113305	
9	Chen, W.-H. Biswas, P.P. Ubando, A.T. Kwon, E.E. Lin, K.-Y.A. Ong, H.C.	A review of hydrogen production optimization from the reforming of C1 and C2 alcohols via artificial neural networks	Fuel	10.1016/j.fuel.2023.128243	

No.	Authors	Title	Scopus Source title	DOI	Authorship
10	Chen, C.-W. Mirzaei, S. Huang, C.-C. Li, S.-Y.	A scale-up study of the continuous ABE fermentation in a packed bed coupled with the extraction/gas-stripping in situ butanol recovery process	Separation and Purification Technology	10.1016/j.seppur.2023.123952	Corresponding Author
11	Ciou, J.-J. Wu, T.-C. Chen, Z.-J. Cheng, B. Lai, C.-H.	A selective fluorescent turn-on probe for imaging and sensing of hydrogen peroxide in living cells	Analytical and Bioanalytical Chemistry	10.1007/s00216-023-04800-w	Corresponding Author
12	Li, C.-G. Bale, R. Wang, W. Tsubokura, M.	A sharp interface immersed boundary method for thin-walled geometries in viscous compressible flows	International Journal of Mechanical Sciences	10.1016/j.ijmecsci.2023.108401	
13	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
14	Tsai, C.-C. Chen, H.-Y. Chen, S.-C. Tai, F.-C. Chen, G.-M.	Adaptive Reinforcement Learning Formation Control Using ORFBLs for Omnidirectional Mobile Multi-Robots	International Journal of Fuzzy Systems	10.1007/s40815-023-01491-4	First Author, Corresponding Author
15	Kao, J.-J. Lin, C.-L. Yang, J.	Adaptive Wireless Power Transfer System With Relay Transmission and Communication	IEEE Transactions on Power Electronics	10.1109/TPEL.2022.3218368	Corresponding Author
16	Chiou, C.-Y. Lee, K.-T. Huang, C.-R. Chung, P.-C.	ADMM-SRNet: Alternating Direction Method of Multipliers Based Sparse Representation Network for One-Class Classification	IEEE Transactions on Image Processing	10.1109/TIP.2023.3274488	Corresponding Author
17	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
18	Lin, C.-L. Sun, Z.-T. Chen, Y.-Y.	Air-mattress system for ballistocardiogram-based heart rate and breathing rate estimation	Heliyon	10.1016/j.heliyon.2022.e12717	First Author, Corresponding Author
19	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
20	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
21	Tseng, C. Lin, Y. Wang, G.	An Electrochemical HbA1c Immunosensor with a Simple Electrode of Gold Nanoparticle Monolayer	IEEE Sensors Journal	10.1109/JSEN.2023.3289075	
22	Lo, F. Yang, G. Chang, M. Kwong, W.C.	An Improved Two-Hop Rendezvous Model with Buffer-Aided Relays in Channel-Hopping Cognitive-Radio Wireless Networks for Internet-of-Things	IEEE Internet of Things Journal	10.1109/JIOT.2023.3280716	

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23	Deng, Z.-Y. Chiang, N.-Z. Kumar, U. Chen, K.-L. Chen, J.-H. Wu, C.-H.	Analyze the characteristics of magnetic properties changes in NiFe ₂ O ₄ induced by trapping polar gas	Surfaces and Interfaces	10.1016/j.surfins.2023.102982	Corresponding Author
24	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
25	Tsai, J. Chang, C.-C. Li, T.	Autonomous Driving Control Based on the Technique of Semantic Segmentation	Sensors	10.3390/s23020895	First Author
26	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
27	Su, Y.-C. Liu, G.-L. Ko, B.-T.	Bimetallic Nickel Complexes as Effective and Versatile Catalysts for Copolymerization of Epoxides with Carbon Dioxide or Phthalic Anhydride: Catalysis and Kinetics	Inorganic Chemistry	10.1021/acs.inorgchem.3c00355	Corresponding Author
28	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	
29	Ching, C.T.S. Wang, C.-K. Tang, P.-C. Ha, M.-K. Li, C. Chiu, H.-N. Yao, F.Y.-D. Nhan, N.C. Hieu, N.V. Phan, T.-L.	Bioimpedance-Measurement-Based Non-Invasive Method for In Ovo Chicken Egg Sexing	Biosensors	10.3390/bios13040440	First Author
30	Jiang, C.-Y. Fan, Y.-C.	Biomedical Abstract Sentence Classification by BERT-Based Reading Comprehension	SN Computer Science	10.1007/s42979-023-01830-0	Corresponding Author
31	Chen, J.-W. Wu, T.-C. Liang, W. Ciou, J.-J. Lai, C.-H.	Boronates as hydrogen peroxide-reactive warheads in the design of detection probes, prodrugs, and nanomedicines used in tumors and other diseases	Drug Delivery and Translational Research	10.1007/s13346-022-01248-w	Corresponding Author
32	Karim, N.A. Alias, M.S. Shaari, N. Yang, H.	Calcium carbonate from chicken eggshells as filler in composite Nafion membrane for direct ethanol fuel cell: a molecular dynamics study	Journal of Chemical Technology and Biotechnology	10.1002/jctb.7384	
33	Chang, K.-P. Chien, Y.-W. Wang, P.-H. Yen, C.-C. Lin, Y.-X. Gao, Y.-J. Wu, W.-Y. Wu, D.-S.	Characteristics of High-Power Impulse Magnetron Sputtering ITO/Ag/ITO Films for Application in Transparent Micro-LED Displays	ACS Applied Electronic Materials	10.1021/acsaem.2c01461	First Author, Corresponding Author
34	Chen, B.H. Hashimoto, T. Goto, T. Raquel, B.J.R. Uno, Y. Kim, S.J. Hsiao, T.Y.-Y. Ho, S.C.-C.	Classifying a frequently repeating fast radio burst, FRB 20201124A, with unsupervised machine learning	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/stad930	

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35	Huang, Y.-H. Yen, T.-Y. Shi, M.-T. Hung, Y.-H. Chen, W.-T. Wu, C.-H. Hung, K.-M. Lo, K.-Y.	Competition between oxygen and water molecules on SiO ₂ /P-doped Si surface: The electrical dipole evolution on water/oxygen-adsorbed oxide surface	Sensors and Actuators B: Chemical	10.1016/j.snb.2022.133011	
36	Huang, Y.-Y. Wang, P.-C.	Computation Offloading and User-Clustering Game in Multi-Channel Cellular Networks for Mobile Edge Computing	Sensors	10.3390/s23031155	Corresponding Author
37	Chang, Y.-J. Tsai, K.-L. Jiang, W.-C. Liu, M.-K.	Content-aware malicious webpage detection using convolutional neural network	Multimedia Tools and Applications	10.1007/s11042-023-15559-8	First Author
38	Lin, Z.-I. Tsai, T.-H. Yu, K.-C. Nien, Y.-H. Liu, R.-P. Liu, G.-L. Chi, P.-L. Fang, Y.-P. Ko, B.-T. Law, W.-C. Zhou, C. Yong, K.-T. Cheng, P.-W. Chen, C.-K.	Creation of Chitosan-Based Nanocapsule-in-Nanofiber Structures for Hydrophobic/Hydrophilic Drug Co-Delivery and Their Dressing Applications in Diabetic Wounds	Macromolecular Bioscience	10.1002/mabi.202300145	
39	Chung, M.-C. Huang, G.-Y. McCulloch, I.P. Tsai, Y.-H.	Deep learning of phase transitions for quantum spin chains from correlation aspects	Physical Review B	10.1103/PhysRevB.107.214451	First Author
40	Su, E.-C. Hsu, J.-N. Lin, Y.-C. Tseng, H.-H.	Design of a sodium peroxide/sulfonic acid functionalized SBA-16 bi-functional catalyst for improving the conversion of waste cooking oil to biodiesel	Fuel	10.1016/j.fuel.2023.128274	Corresponding Author
41	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
42	Chen, C.-W. Chen, S.-H. Huang, C.-F. Chen, J.-K.	Designable Poly(methacrylic Acid)/Silver Cluster Ring Arrays as Reflectance Spectroscopy-Based Biosensors for Label-Free Plague Diagnosis	Polymers	10.3390/polym15081919	Corresponding Author
43	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	
44	Kumar, N. Lin, Y.-J. Huang, Y.-C. Liao, Y.-T. Lin, S.-P.	Detection of lactate in human sweat via surface-modified, screen-printed carbon electrodes	Talanta	10.1016/j.talanta.2023.124888	Corresponding Author
45	Ling, D.F.-J. Hashimoto, T. Yamasaki, S. Goto, T. Kim, S.J. Ho, S.C.-C. Hsiao, T.Y.-Y. Wong, Y.H.V.	Detection rate of fast radio bursts in the Milky Way with BURSTT	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/stac3018	Corresponding Author

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46	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 acetonide-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
47	Zhao, Y.-Y. Zhang, C. Cheng, S. Li, X. Guo, Y. Liu, B.-H. Ku, H.-Y. Chen, S.-L. Wen, Q. Huang, Y.-F. Xiang, G.-Y. Li, C.-F. Guo, G.-C.	Device-independent verification of Einstein–Podolsky–Rosen steering	Optica	10.1364/OPTICA.456382	
48	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
49	Su, Y.-J. Tsai, K.-L. Li, Y.-J. Chen, C.-M.	Effects of suppressors on the incorporation of impurities and microstructural evolution of electrodeposited Cu solder joints	Journal of the Taiwan Institute of Chemical Engineers	10.1016/j.jtice.2023.104956	Corresponding Author
50	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
51	Cerrón-Calle, G.A. dos Santos, A.J. Lanza, M.R.V. Lu, M.-C. Garcia-Segura, S.	Electrified technologies for physical separation of arsenic from water	Current Opinion in Environmental Science and Health	10.1016/j.coesh.2023.100477	
52	Gu, B.-C. Chung, K.-J. Chen, B.-W. Dai, Y.-H. Wu, C.-C.	Electrochemical detection combined with artificial neural networks for the simultaneous intelligent sensing of caffeine and chlorogenic acid	Electrochimica Acta	10.1016/j.electacta.2023.142820	Corresponding Author
53	Lin, Y.-T. Li, J.-Y. Wey, M.-Y. Tseng, H.-H.	Engineered pinhole-stitching process of PEI-based hollow fiber membrane enables preferred performance toward light gas separation	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2023.06.103	First Author, Corresponding Author
54	Lin, D.-Y. Hsu, H.-P. Liu, K.-H. Wu, P.-H. Shih, Y.-T. Wu, Y.-F. Wang, Y.-P. Lin, C.-F.	Enhanced Optical Response of SnS/SnS ₂ Layered Heterostructure	Sensors	10.3390/s23104976	
55	Chuang, K.-H. Hsu, H.-H. Lee, J.-T. Wey, M.-Y.	Enhanced photocatalytic performance of PS/F-PANI/PNT films for visible-light-induced hydrogen production	Journal of Environmental Chemical Engineering	10.1016/j.jece.2023.109965	
56	Ha, T.-H. Mahasti, N.N.N. Lin, C.-S. Lu, M.-C. Huang, Y.-H.	Enhanced struvite (MgNH ₄ PO ₄ ·6H ₂ O) granulation and separation from synthetic wastewater using fluidized-bed crystallization (FBC) technology	Journal of Water Process Engineering	10.1016/j.jwpe.2023.103855	Corresponding Author
57	Luong, X.T.H. Shen, Y.-S. Liang, C. Chen, Y.-T.	Evaluation of various natural weeds and reaction conditions for reductive degradation of 1,3-dinitrobenzene	Journal of Hazardous Materials	10.1016/j.jhazmat.2023.131467	Corresponding Author

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58	Lae Yi Win, S. Liao, C.-T. Chang, H.-Y. Lai, C.-M.	Experimental observations on electricity generation and thermal characteristics of TEG façades	Energy and Buildings	10.1016/j.enbuild.2023.113225	
59	Huang, C.-C. Ho, H.-C. Lai, J.-S. Lee, F.-Z.	Experimental study with hydraulic modeling of a reservoir desilting operation using a sediment bypass tunnel	Environmental Earth Sciences	10.1007/s12665-023-10992-2	
60	Hsiung, B.-C.B. Phan, H.K.	Exploration of maximum wall deflection and stability for deep excavation in loose to medium-dense sand	Acta Geotechnica	10.1007/s11440-023-01926-0	First Author, Corresponding Author
61	Tsai, Y.-L.	Exploring circulations yielding no vortex equilibria	Journal of Symbolic Computation	10.1016/j.jsc.2022.04.019	
62	Lin, Y.-T. Tung, Y.-T. Wong, J.-Y. Wang, G.-J.	Fabrication of perfusable microvessel networks by mimicking in vivo vasculogenesis using a novel scaffold-wrapping method	Materials and Design	10.1016/j.matdes.2023.111707	Corresponding Author
63	Ko, Y.-Y. Tsai, C.-C. Hwang, J.-H. Hwang, Y.-W. Ge, L. Chu, M.-C.	Failure of engineering structures and associated geotechnical problems during the 2022 M L 6.8 Chihshang earthquake, Taiwan	Natural Hazards	10.1007/s11069-023-05993-0	Corresponding Author
64	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
65	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
66	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
67	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
68	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	
69	Ho, S.C. Hashimoto, T. Goto, T. Lin, Y.-W. Kim, S.J. Uno, Y. Hsiao, T.Y.	Future Constraints on Dark Matter with Gravitationally Lensed Fast Radio Bursts Detected by BURSTT	Astrophysical Journal	10.3847/1538-4357/accb9e	
70	Jhang, J. Tsai, Y. Hsu, T. Huang, C. Cheng, H. Sheu, B.	Gastric Section Correlation Network for Gastric Precancerous Lesion Diagnosis	IEEE Open Journal of Engineering in Medicine and Biology	10.1109/OJEM.2023.3277219	

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71	Singh, A.K. Yen, C.-C. Wen, C.-F. Horng, R.-H. Wu, D.-S.	Growth and Characterization of Sputtered ZnO:ZnGa ₂ O ₄ Dual-Phase Films on Sapphire Substrates for NO Gas-Sensing Applications	ACS Applied Electronic Materials	10.1021/acsaem.3c00045	Corresponding Author
72	Liang, C.-H. Lin, Y.-H. Lin, Y.-K. Chiang, C.-F.	Hair growth-promotion effects and antioxidant activity of the banana flower extract HappyAngel®: double-blind, placebo-controlled trial	Food Science and Human Wellness	10.1016/j.fshw.2023.02.043	Corresponding Author
73	Wu, S.C. Hsiao, W.-C. Zhao, Y.-C. Wu, L.-F.	Hexavalent chromate bioreduction by a magnetotactic bacterium Magnetospirillum gryphiswaldense MSR-1 and the effect of magnetosome synthesis.	Chemosphere	10.1016/j.chemosphere.2023.138739	First Author, Corresponding Author
74	Chen, Y. Wu, Y. Chang, C.-H. Shen, T.-J.	How close is an undiscovered species to you after conducting biodiversity sampling?	Ecological Indicators	10.1016/j.ecolind.2023.110482	Corresponding Author
75	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
76	Tsai, C.-Y. Su, C.-L. Wang, Y.-H. Wu, S.-M. Liu, W.-T. Hsu, W.-H. Majumdar, A. Stettler, M. Chen, K.-Y. Lee, Y.-T. Hu, C.-J. Lee, K.-Y. Tsuang, B.-J. Tseng, C.-H.	Impact of lifetime air pollution exposure patterns on the risk of chronic disease	Environmental Research	10.1016/j.envres.2023.115957	
77	Cheng, L.-H. Kumar, U. Deng, Z.-Y. Wu, C.-H.	Improved Charge Transfer for NO ₂ Gas Sensors by Using 0D SnS Quantum Dot/2D WSe ₂ Heterostructures	ACS Applied Nano Materials	10.1021/acsnano.3c01181	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
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/aem.202200994	
80	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	
81	Huang, C.-R. Lu, M.-C.	Investigation of Cutting Path Effect on Spindle Vibration and AE Signal Features for Tool Wear Monitoring in Micro Milling	Applied Sciences (Switzerland)	10.3390/app13021107	Corresponding Author
82	Chen, J.-L. Feng, S.-Y. Lu, C.-J. Huang, J.-F.	Janus Ru/RuO ₂ nano-boomerangs on carbon as pH-universal electrocatalysts with bifunctional	Chemical Engineering Journal	10.1016/j.cej.2023.143761	Corresponding Author

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		activity toward the hydrogen/oxygen evolution reaction			
83	Tahani, M. Bastien, P. Furuya, R.S. Pattle, K. Johnstone, D. Arzoumanian, D. Doi, Y. Hasegawa, T. Inutsuka, S.-I. Coudé, S. Fissel, L. Chen, M.C. Poidevin, F. Sadavoy, S. Friesen, R. Koch, P.M. Di Francesco, J. Moriarty-Schieven, G.H. Chen, Z. Chung, E.J. Eswaraiah, C. Fanciullo, L. Gledhill, T. Le Gouellec, V.J.M. Hoang, T. Hwang, J. Kang, J.-H. Kim, K.H. Kirchschrager, F. Kwon, W. Lee, C.W. Liu, H.-L. Onaka, T. Rawlings, M.G. Soam, A. Tamura, M. Tang, X. Tomisaka, K. Whitworth, A.P. Kwon, J. Hoang, T.D. Redman, M. Berry, D. Ching, T.-C. Wang, J.-W. Lai, S.-P. Qiu, K. Ward-Thompson, D. Houde, M. Byun, D.-Y. Chen, H.V. Chen, W.P. Cho, J. Choi, M. Choi, Y. Chrysostomou, A. Diep, P.N. Duan, H.-Y. Fiege, J. Franzmann, E. Friberg, P. Fuller, G. Graves, S.F. Greaves, J.S. Griffin, M.J. Gu, Q. Han, I. Hatchell, J. Hayashi, S.S. Hull, C.L.H. Inoue, T. Iwasaki, K. Jeong, I.-G. Kanamori, Y. Kang, M. Kang, S.-J. Kataoka, A. Kawabata, K.S. Kemper, F. Kim, G. Kim, J. Kim, K.-T. Kim, M.-R. Kim, S. Kirk, J.M. Kobayashi, M.I.N. Konyves, V. Kusune, T. Lacaille, K. Law, C.-Y. Lee, C.-F. Lee, H. Lee, J.-E. Lee, S.-S. Lee, Y.-H. Li, D. Li, D. Li, H.-B. Liu, J. Liu, S.-Y. Liu, T. de Looze, I. Lyo, A.-R. Mairs, S. Matsumura, M. Matthews, B.C. Nagata, T. Nakamura, F. Nakanishi, H. Ohashi, N. Park, G. Parsons, H. Peretto, N. Pyo, T.-S. Qian, L. Rao, R. Retter, B. Richer, J. Rigby, A. Saito, H. Savini, G. Scaife, A.M.M. Seta, M. Shimajiri, Y. Shinnaga, H. Tang, Y.-W. Tsukamoto, Y. Viti, S. Wang, H. Yen, H.-W. Yoo, H. Yuan, J. Yun, H.-S. Zenko, T. Zhang, C.-P. Zhang, G. Zhang, Y. Zhou, J. Zhu, L. André, P. Dowell, C.D. Eyres, S.P.S. Falle, S. van Loo, S. Robitaille, J.-F.	JCMT BISTRO Observations: Magnetic Field Morphology of Bubbles Associated with NGC 6334	Astrophysical Journal	10.3847/1538-4357/acac81	

No.	Authors	Title	Scopus Source title	DOI	Authorship
84	Shao, H.-C. Ping, H.-L. Chen, K.-S. Su, W.-T. Lin, C.-W. Fang, S.-Y. Tsai, P.-Y. Liu, Y.-H.	Keeping Deep Lithography Simulators Updated: Global-Local Shape-Based Novelty Detection and Active Learning	IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems	10.1109/TCAD.2022.3192175	First Author
85	Li, C.-K. Tsai, M.-C. Wang, Y.-S. Wong, N.-C.	Linear maps preserving matrices annihilated by a fixed polynomial	Linear Algebra and Its Applications	10.1016/j.laa.2023.05.022	Corresponding Author
86	Yang, C.-Y. Yu, C.-Y. Lin, Y.-L. Hon, M.-T. Yang, S.-J. Zhang, Y.-Z. Kang, H.-C. Kuo, Y.-W. Lin, C.-F. Wu, Y.-L. Chou, H.-H. Chen, H. Li, Y.-H. Han, J.	Machine vision inspection of early failure and line-shaped defects of blue InGaN/GaN light emitting diodes soaked in liquid nitrogen for cryogenic tests	Results in Physics	10.1016/j.rinp.2023.106594	
87	Ren, B.H. Chu, C.Y. Jhang, B.S.	Magnetic Field-Induced Order-Order Transition from Hexagonally Packed Cylinders to Lamellae with Large-Scale Orientations in a Block Copolymer/Magnetic Nanoparticle Nanocomposite Film	Macromolecules	10.1021/acs.macromol.2c02412	Corresponding Author
88	Shim, H. Hwang, H.S. Jeong, W.-S. Toba, Y. Kim, M. Kim, D. Song, H. Hashimoto, T. Nakagawa, T. Nanni, A. Pearson, W.J. Takagi, T.	Metallicity-PAH Relation of MIR-selected Star-forming Galaxies in AKARI North Ecliptic Pole-wide Survey	Astronomical Journal	10.3847/1538-3881/aca09c	
89	Kuo, S.-Y. Tseng, F.-H. Chou, Y.-H.	Metaverse intrusion detection of wormhole attacks based on a novel statistical mechanism	Future Generation Computer Systems	10.1016/j.future.2023.01.017	First Author
90	Hsieh, K.-S. Wang, C.-M.	Multi-Hider Reversible Data Hiding Using a Weighted Color Transfer and Modulus Operation	Applied Sciences (Switzerland)	10.3390/app13021013	Corresponding Author
91	Chang, Y.-J. Chen, S.-H.	Multi-Logic Sense Amplifier (MLSA) Design for In-Memory Computing	IEEE Journal on Emerging and Selected Topics in Circuits and Systems	10.1109/JETCAS.2023.3243434	First Author
92	Juang, C.-F. Pan, G.-R. Huang, W.-C. Wen, C.-Y. Wu, M.-F.	Multiobjective Optimization of Interpretable Fuzzy Systems and Applicable Subjects for Fast Estimation of Obstructive Sleep Apnea-Hypopnea Severity	IEEE Transactions on Fuzzy Systems	10.1109/TFUZZ.2022.3222033	First Author
93	Chen, W.-H. Chou, W.-S. Chein, R.-Y. Hoang, A.T. Juan, J.C.	Multiple-objective optimization on ammonia decomposition using membrane reactor	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2023.05.081	Corresponding Author
94	Tu, C.-H. Wang, R.-T. Wang, B.-S. Kuo, C.-E. Wang, E.-Y. Tu, C.-T. Yu, W.-N.	Neural network combining with clinical ultrasonography: A new approach for classification of salivary gland tumors	Head and Neck	10.1002/hed.27396	Corresponding Author

No.	Authors	Title	Scopus Source title	DOI	Authorship
95	Lin, E.-Y. Tu, C.-T. Lien, J.-J.J.	Nut Geometry Inspection Using Improved Hough Line and Circle Methods	Sensors	10.3390/s23083961	
96	Singh, K. Agarwal, T. Kumar, U. Pal, S. Runthala, A. Pan, T.-M. Wu, C.C.	Optical biosensors for diabetes management: Advancing into stimuli-responsive sensing mechanisms	Smart Materials in Medicine	10.1016/j.smaim.2022.08.003	
97	Lai, C.-M. Teh, J. Alharbi, B. AlKassem, A. Aljabr, A. Alshammari, N.	Optimisation of generation unit commitment and network topology with the dynamic thermal rating system considering N-1 reliability	Electric Power Systems Research	10.1016/j.epr.2023.109444	First Author
98	Lai, C.-M. Loo, D.L. Teoh, Y.H. How, H.G. Le, T.D. Nguyen, H.T. Ghfar, A.A. Sher, F.	Optimization and performance characteristics of diesel engine using green fuel blends with nanoparticles additives	Fuel	10.1016/j.fuel.2023.128462	First Author
99	Chang, T.-Y. Kumar Singh, A. Shao, J.-H. Huang, C.-Y. Shieh, J.-M. Wu, D.-S. Liu, P.-L. Horng, R.-H.	Performance improvement of MOCVD grown ZnGa2O4 based NO gas sensors using plasma surface treatment	Applied Surface Science	10.1016/j.apsusc.2023.157929	
100	Tu, C.-T. Hsieh, S.-H. Chen, K.-L. Lien, J.-J.J.	Personalized smile synthesis using attention-guided global parametric model and local non-parametric model	Multimedia Tools and Applications	10.1007/s11042-022-14260-6	First Author, Corresponding Author
101	Zhang, J. Zhang, Z. Yao, L. Qian, M. Li, Z. Han, Y. Bai, S. Lee, M.	pH-responsive switchable deep eutectic solvents to mediate pretreatment method for trace analysis of triazole fungicides in peel wastes	Food Chemistry	10.1016/j.foodchem.2023.135486	
102	Chen, W.-L. Lee, T.-W. Chen, C.	Polypyrrole-induced active-edge-S and high-valence-Mo reinforced composites with boosted electrochemical performance for the determination of 2,4,6-trichlorophenol in the aquatic environment	Chemosphere	10.1016/j.chemosphere.2023.139003	Corresponding Author
103	Huang, H.-L. Huang, C.-C. Su, C.-K.	Post-administration labeling with Palladium(II) ions enables ICP-MS-based determination of the biodistribution of carbonized nanogels	Analytica Chimica Acta	10.1016/j.aca.2023.341155	Corresponding Author
104	Tsai, C.-P. Chen, Y.-C. Ko, C.-H.	Prediction of Bay-Shaped Shorelines between Detached Breakwaters with Various Gap Spacings	Sustainability (Switzerland)	10.3390/su15076218	First Author
105	Chu, L.-P. Chen, K.-T. Lu, H.-K. Lai, C.-L. Huang, H.-C. Hsieh, K.-C.	Preliminary study on the application of bioimpedance analysis to measure the psoas major muscle in older adults	PLoS ONE	10.1371/journal.pone.0275884	
106	Huynh, T.M.H. Yalamandala, B.N. Chiang, M.-R. Weng, W.-H. Chang, C.-W. Chiang, W.-H. Liao, L.-D. Liu, Y.-C. Hu, S.-H.	Programmed antigen capture-harnessed dendritic cells by margination-hitchhiking lung delivery	Journal of Controlled Release	10.1016/j.jconrel.2023.05.028	

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107	Yalamandala, B.N. Huynh, T.M.H. Chiang, M.-R. Weng, W.-H. Chang, C.-W. Chiang, W.-H. Hu, S.-H.	Programmed Catalytic Therapy and Antigen Capture-Mediated Dendritic Cells Harnessing Cancer Immunotherapies by In Situ-Forming Adhesive Nanoreservoirs	Advanced Functional Materials	10.1002/adfm.202210644	
108	Chiang, M.-R. Shen, W.-T. Huang, P.-X. Wang, K.-L. Weng, W.-H. Chang, C.-W. Chiang, W.-H. Liu, Y.-C. Chang, S.-J. Hu, S.-H.	Programmed T cells infiltration into lung metastases with harnessing dendritic cells in cancer immunotherapies by catalytic antigen-capture sponges	Journal of Controlled Release	10.1016/j.jconrel.2023.06.033	
109	Kuo, S.-Y. Tseng, K.-C. Chou, Y.-H. Tseng, F.-H.	Quantum Oblivious Transfer with Reusable Bell State	Computers, Materials and Continua	10.32604/cmc.2023.032320	First Author
110	Nargotra, P. Sharma, V. Tsai, M.-L. Hsieh, S.-L. Dong, C.-D. Wang, H.-M.D. Kuo, C.-H.	Recent Advancements in the Valorization of Agro-Industrial Food Waste for the Production of Nanocellulose	Applied Sciences (Switzerland)	10.3390/app13106159	Corresponding Author
111	Lee, T.-W. Su, Y.-H. Chen, C.	Recovery and repurposing of waste isopropanol with CO ₂ -switchable deep eutectic solvents	Science of the Total Environment	10.1016/j.scitotenv.2023.165053	Corresponding Author
112	Liao, J.-R. Lin, K.-F. Chang, Y.-C.	Residual dense network with non-residual guidance for blind image denoising	Digital Signal Processing: A Review Journal	10.1016/j.dsp.2023.104052	First Author, Corresponding Author
113	Naderi, M. Mirfarah, E. Wang, W.-L. Lin, T.-I.	Robust mixture regression modeling based on the normal mean-variance mixture distributions	Computational Statistics and Data Analysis	10.1016/j.csda.2022.107661	First Author, Corresponding Author
114	Yang, C.-W. Tsai, C.-W. Chen, C.-A. Lin, J.	Robust Semi-Quantum Summation over a Collective-Dephasing Noise Channel	Mathematics	10.3390/math11061405	Corresponding Author
115	Dutta, A. Tung, S.-Y. Gupta, S.K. Tsai, M.-H. Nene, S.S.	Room-Temperature Superformability in Novel As-Cast High-Entropy Alloy During Compressive Loading	Advanced Engineering Materials	10.1002/adem.202201347	
116	Chen, H. Chang, W.-Y. Chiu, T.-L. Chiang, M.-C. Tsai, C.-W.	SEFSD: an effective deployment algorithm for fog computing systems	Journal of Cloud Computing	10.1186/s13677-023-00475-x	First Author
117	Yang, C.-W. Wang, H.-W. Lin, J. Tsai, C.-W.	Semi-Quantum Identification without Information Leakage	Mathematics	10.3390/math11020452	
118	Chiang, T.-H. Hsiao, H.-H.	Single drop analysis of mercury ions by rational design of peptide coated gold nanoparticles integrated with MALDI-MS measurement	Talanta	10.1016/j.talanta.2022.123913	Corresponding Author

No.	Authors	Title	Scopus Source title	DOI	Authorship
119	Chen, C.-H. Lai, Y.-T. Chen, C.-F. Wu, P.-T. Su, K.-J. Hsu, S.-Y. Dai, G.-J. Huang, Z.-Y. Hsu, C.-L. Lee, S.-Y. Shen, C.-H. Chen, H.-Y. Lee, C.-C. Hsieh, D.-R. Lin, Y.-F. Chao, T.-S. Lo, S.-T.	Single-Gate In-Transistor Readout of Current Superposition and Collapse Utilizing Quantum Tunneling and Ferroelectric Switching	Advanced Materials	10.1002/adma.202301206	
120	Laksono, A.D. Al-Audhah, L.Y.W. Chen, C.-M. Ho, Y.X. Yen, Y.-W.	Solid/Solid State Interfacial Reactions in the Sn-9Zn/Cu-Based Alloys (C1990 HP, Alloy 25, and C194) Couples	JOM	10.1007/s11837-023-05827-1	
121	Lai, H.-H. Hsieh, H. Kuo, C.-Y. Wu, W.	Solidification cracking nature and sequence of different stainless steels	Journal of Materials Research and Technology	10.1016/j.jmrt.2023.06.017	First Author, Corresponding Author
122	Wu, C.K.-W. Ling, C.-T. Goto, T. Kim, S.J. Hashimoto, T. Kilerci, E. Lin, Y.-W. Wang, P.-Y. Uno, Y. Ho, S.C.-C. Hsiao, T.Y.-Y.	Source counts at 7.7–21 μm in CEERS field with JWST	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/stad1769	
123	Kao, W.-C. Xie, H.-X. Lin, C.-Y. Cheng, W.-H.	Specific Expert Learning: Enriching Ensemble Diversity via Knowledge Distillation	IEEE Transactions on Cybernetics	10.1109/TCYB.2021.3125320	
124	Li, T.-Y. Li, W.-J. Wey, M.-Y.	Strategies for designing hydrophobic MnCe-montmorillonite catalysts against water vapor for low-temperature NH ₃ -SCR	Fuel	10.1016/j.fuel.2023.128857	Corresponding Author
125	Chen, C.-C. Wang, J.-M. Huang, Y.-R. Yu, Y.-H. Wu, T.-M. Ding, S.-J.	Synergistic Effect of Thermoresponsive and Photocuring Methacrylated Chitosan-Based Hybrid Hydrogels for Medical Applications	Pharmaceutics	10.3390/pharmaceutics15041090	Corresponding Author
126	Ramesh, K.S. Saravanabhavan, M. Muhammad, S. Edison, D. Ho, M.-S. Sekar, M. Al-Sehemi, A.G.	Synthesis, physico-chemical characterization and quantum chemical studies of 2, 3-dimethyl quinoxalinium-5-sulphosalicylate crystal	Journal of Molecular Structure	10.1016/j.molstruc.2023.135425	
127	Lin, H.-T. Wang, P.-C.	TCAM-based packet classification for many-field rules of SDNs	Computer Communications	10.1016/j.comcom.2023.03.001	Corresponding Author
128	Pacifici, C. Iyer, K.G. Mobasher, B. da Cunha, E. Acquaviva, V. Burgarella, D. Calistro Rivera, G. Carnall, A.C. Chang, Y.-Y. Chartab, N. Cooke, K.C. Fairhurst, C. Kartaltepe, J. Leja, J. Malek, K. Salmon, B. Torelli, M. Vidal-García, A. Boquien, M. Brammer, G.G. Brown, M.J.I. Capak, P.L. Chevallard, J. Circosta, C. Croton, D. Davidzon, I. Dickinson, M. Duncan, K.J. Faber, S.M. Ferguson, H.C. Fontana, A. Guo, Y. Haeussler, B. Hemmati, S. Jafariyazani, M.	The Art of Measuring Physical Parameters in Galaxies: A Critical Assessment of Spectral Energy Distribution Fitting Techniques	Astrophysical Journal	10.3847/1538-4357/acacff	

No.	Authors	Title	Scopus Source title	DOI	Authorship
	Kassin, S.A. Larson, R.L. Lee, B. Mantha, K.B. Marchi, F. Nayyeri, H. Newman, J.A. Pandya, V. Pforr, J. Reddy, N. Sanders, R. Shah, E. Shahidi, A. Stevans, M.L. Triani, D.P. Tyler, K.D. Vanderhoof, B.N. de la Vega, A. Wang, W. Weston, M.E.				
129	Chen, Y.-J. Uan, J.-Y.	The Effect of Lithium Ion Leaching from Calcined Li–Al Hydrotalcite on the Rapid Removal of Ni ²⁺ /Cu ²⁺ from Contaminated Aqueous Solutions	Nanomaterials	10.3390/nano13091477	Corresponding Author
130	Chang, Y.-E. Lin, C.-M. Shen, J.-M. Luo, S.-F. Yu, K.-W. Wu, W.	The effect of the addition of alumina on the viscosity, surface tension, and foaming efficiency of 2.5(CaO/SiO ₂)-xAl ₂ O ₃ -yFeO-MgO melts	Ceramics International	10.1016/j.ceramint.2023.04.024	Corresponding Author
131	Sheu, W.-T. Lu, S.-H. Hsu, Y.-L.	The generally weighted moving average control chart for monitoring the process mean of autocorrelated observations	Annals of Operations Research	10.1007/s10479-023-05384-5	
132	Hsu, T.-Y. Hashimoto, T. Hatsukade, B. Goto, T. Wang, P.-Y. Ling, C.-T. Ho, S.C.-C. Uno, Y.	The molecular gas kinematics in the host galaxy of non-repeating FRB 180924B	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/stac3655	
133	Lien, W.-C. Zhou, X.-R. Liang, Y.-J. Ching, C.T.-S. Wang, C.-Y. Lu, F.-I. Chang, H.-C. Lin, F.-H. Wang, H.-M.D.	Therapeutic potential of nanoceria pretreatment in preventing the development of urological chronic pelvic pain syndrome: Immunomodulation via reactive oxygen species scavenging and SerpinB2 downregulation	Bioengineering and Translational Medicine	10.1002/btm2.10346	Corresponding Author
134	Chen, J.-R. Tsai, W.-H. Su, C.-K.	TiO ₂ nanoparticle–Coated 3D-Printed porous monoliths enabling highly sensitive speciation of inorganic Cr, As, and Se	Analytica Chimica Acta	10.1016/j.aca.2023.341489	Corresponding Author
135	Elsyed, A.F.N. Wong, G.-L. Ameen, M. Wu, M.-W. Chang, C.-C.	Tunable Fluorescence via Self-Assembled Switching of AIE-Active Micelle-like Nanoaggregates	International Journal of Molecular Sciences	10.3390/ijms24129941	Corresponding Author
136	Wang, M.-W. Su, C.-K.	Tuning the fabrication of knotted reactors via 3D printing techniques and materials	Analytica Chimica Acta	10.1016/j.aca.2023.341295	Corresponding Author
137	Chang, C.-P. Lagitnay, R.B.J.S. Li, T.-R. Lai, W.-T. Derilo, R.C. Chuang, D.-Y.	Unleashing the Influence of cAMP Receptor Protein: The Master Switch of Bacteriocin Export in <i>Pectobacterium carotovorum</i> subsp. <i>carotovorum</i>	International Journal of Molecular Sciences	10.3390/ijms24119752	Corresponding Author
138	Uno, Y. Hashimoto, T. Goto, T. Ho, S.C.-C. Hsu, T.-Y. Burns, R.	Upper limits on transmitter rate of extragalactic civilizations placed by Breakthrough Listen observations	Monthly Notices of the Royal Astronomical Society	10.1093/mnras/stad993	

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139	Li, M.-W. Chan, Y.-K. Yu, S.-S.	Use of CNN for Water Stress Identification in Rice Fields Using Thermal Imagery	Applied Sciences (Switzerland)	10.3390/app13095423	
140	Liu, J.-F. Chen, J.-H. Liao, S.-H. Chen, K.-L. Wei, W.-C. Chen, T.-Y. Chieh, J.-J. Huang, K.-W.	Versatile and Accessible Magnetic Diagnosis Platform with Different Types of Magnetic Particles for Liquid and Solid Biopsies	International Journal of Molecular Sciences	10.3390/ijms241210363	
141	Hsu, T.-C. Liao, Y.-S. Huang, C.-R.	Video Summarization With Spatiotemporal Vision Transformer	IEEE Transactions on Image Processing	10.1109/TIP.2023.3275069	Corresponding Author
142	Cho, S.-H. Kim, Y. Lee, S. Andrew Lin, K.-Y. Chen, W.-H. Jung, S. Lee, D. Hyun Moon, D. Jeon, Y.J. Kwon, E.E.	Virtuous utilization of carbon dioxide in pyrolysis of polylactic acid	Chemical Engineering Journal	10.1016/j.cej.2023.143307	
143	Chiang, H.-M. Lyu, J.-L. Lu, M.-E. Lin, Y.-H. Chan, S.-T. Lin, Y.-K. Chiang, C.-F.	Wasabi leaf supplementation had antioxidant, anti-glycation, and improved skin melanin, spot and moisture	Journal of Functional Foods	10.1016/j.jff.2022.105398	
144	Wang, C.-C. Lo, A.-Y. Cheng, M.-C. Chang, Y.-S. Shih, H.-C. Shieu, F.-S. Tsai, H.-T.	Zinc oxide nanostructures enhanced photoluminescence by carbon-black nanoparticles in Moiré heterostructures	Scientific Reports	10.1038/s41598-023-36847-1	Corresponding Author