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Publications at National Chung Hsing University that fall within the top 10% journals
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 5 April 2023
 11 April 2023

Title	Authors	Year	Scopus Source title	Volume	Issue	Source ID	Source type	DOI	Publication type
Network topology optimisation based on dynamic thermal rating and battery storage systems for improved wind penetration and reliability	Lai, C.-M. Teh, J.	2022	Applied Energy	305	-	28801	Journal	10.1016/j.apenergy.2021.117837	Article
Mini review on H2 production from electrochemical water splitting according to special nanostructured morphology of electrocatalysts	Lee, J.E. Jeon, K.-J. Show, P.L. Lee, I.H. Jung, S.-C. Choi, Y.J. Rhee, G.H. Lin, K.-Y.A. Park, Y.-K.	2022	Fuel	308	-	16313	Journal	10.1016/j.fuel.2021.122048	Article
Adopting the configurational approach to the analysis of job satisfaction in Mongolia	Moslehpour, M. Chang, M.-L. Pham, V.K. Dadvari, A.	2022	European Research on Management and Business Economics	28	1	21100465205	Journal	10.1016/j.iedeen.2021.100179	Article
Highly efficient activation of peroxymonosulfate by MOF-derived CoP/CoOx heterostructured nanoparticles for the degradation of tetracycline	Liu, Y. Zou, H. Ma, H. Ko, J. Sun, W. Andrew Lin, K. Zhan, S. Wang, H.	2022	Chemical Engineering Journal	430	-	16398	Journal	10.1016/j.cej.2021.132816	Article
Current application of algae derivatives for bioplastic production: A review	Dang, B.-T. Bui, X.-T. Tran, D.P.H. Hao Ngo, H. Nghiem, L.D. Hoang, T.-K.-D. Nguyen, P.-T. Nguyen, H.H. Vo, T.-K.-Q. Lin, C. Yi Andrew Lin, K. Varjani, S.	2022	Bioresource Technology	347	-	15423	Journal	10.1016/j.biortech.2022.126698	Review
Biohydrogen production from furniture waste via catalytic gasification in air over Ni-loaded Ultra-stable Y-type zeolite	Valizadeh, S. Jang, S.-H. Hoon Rhee, G. Lee, J. Loke Show, P. Ali Khan, M. Jeon, B.-H. Andrew Lin, K.-Y. Hyun Ko, C. Chen, W.-H. Park, Y.-K.	2022	Chemical Engineering Journal	433	-	16398	Journal	10.1016/j.cej.2021.133793	Article
Enhanced piezoelectric and photocatalytic performance of flexible energy harvester	Venkatesan, M. Chen, W.-C. Cho, C.-J. Veeramuthu, L. Chen, L.-G.	2022	Chemical Engineering Journal	433	-	16398	Journal	10.1016/j.cej.2021.133620	Article
Adsorption of metal on pineapple leaf biochar: Key affecting factors, mechanism identification, and regeneration evaluation	Iamsaard, K. Weng, C.-H. Yen, L.-T. Tzeng, J.-H. Poonpakdee, C. Lin, Y.-T.	2022	Bioresource Technology	344	-	15423	Journal	10.1016/j.biortech.2021.126131	Article
Can biochar and hydrochar be used as sustainable catalyst for persulfate activation?	Gasim, M.F. Lim, J.-W. Low, S.-C. Lin, K.-Y.A. Oh, W.-D.	2022	Chemosphere	287	-	24657	Journal	10.1016/j.chemosphere.2021.132	Review
Exploring the factors of using mobile ticketing applications: Perspectives from innovation resistance theory	Chen, C.-C. Chang, C.-H. Hsiao, K.-L.	2022	Journal of Retailing and Consumer Services	67	-	22992	Journal	10.1016/j.jretconser.2022.102974	Article

Pyrolysis of lignocellulosic, algal, plastic, and other biomass wastes for biofuel production and circular bioeconomy: A review of thermogravimetric analysis (TGA)	Escalante, J. Chen, W.-H. Tabatabaei, M. Hoang, A.T. Kwon, E.E. Andrew Lin, K.-Y. Saravanakumar, A.	2022	Renewable and Sustainable Energy Reviews	169	-	27567	Journal	10.1016/j.rser.2022.112914	Article
Co-culture of microalgae-activated sludge in sequencing batch photobioreactor systems: Effects of natural and artificial lighting on wastewater treatment	Nguyen, T.-T.-D. Bui, X.-T. Nguyen, T.-T. Hao Ngo, H. Yi Andrew Lin, K. Lin, C. Le, L.-T. Dang, B.-T. Bui, M.-H. Varjani, S.	2022	Bioresource Technology	343	-	15423	Journal	10.1016/j.biortech.2021.126091	Article
Machine-learning and high-throughput studies for high-entropy materials	Huang, E.-W. Lee, W.-J. Singh, S.S. Kumar, P. Lee, C.-Y. Lam, T.-N. Chin, H.-H. Lin, B.-H. Liaw, P.K.	2022	Materials Science and Engineering R: Reports	147	-	17814	Journal	10.1016/j.mser.2021.100645	Review
Filling the gap between topological insulator nanomaterials and triboelectric nanogenerators	Li, M. Lu, H.-W. Wang, S.-W. Li, R.-P. Chen, J.-Y. Chuang, W.-S. Yang, F.-S. Lin, Y.-F. Chen, C.-Y. Lai, Y.-C.	2022	Nature Communications	13	1	19700182758	Journal	10.1038/s41467-022-28575-3	Article
Electro-peroxone application for ciprofloxacin degradation in aqueous solution using sacrificial iron anode: A new	Khavari Kashani, M.R. Kiani, R. Hassani, A. Kadier, A. Madihi-Bidgoli, S. Lin, K.-Y.A. Ghanbari,	2022	Separation and Purification Technology	292	-	14292	Journal	10.1016/j.seppur.2022.121026	Article
Inter-tissue and inter-organ signaling in drought stress response and phenotyping of drought tolerance	Kuromori, T. Fujita, M. Takahashi, F. Yamaguchi-Shinozaki, K. Shinozaki, K.	2022	Plant Journal	109	2	16612	Journal	10.1111/tpj.15619	Article
Power generation of thermoelectric generator with plate fins for recovering low-temperature waste heat	Chen, W.-H. Chiou, Y.-B. Chein, R.-Y. Uan, J.-Y. Wang, X.-D.	2022	Applied Energy	306	-	28801	Journal	10.1016/j.apenergy.2021.118012	Article
Biodiesel from microalgae: Recent progress and key challenges	Kim, J.Y. Jung, J.-M. Jung, S. Park, Y.-K. Tsang, Y.F. Lin, K.-Y.A. Choi, Y.-E. Kwon, E.E.	2022	Progress in Energy and Combustion Science	93	-	27538	Journal	10.1016/j.peccs.2022.101020	Review
Multi-heteroatom-doped carbocatalyst as peroxymonosulfate and peroxydisulfate activator for water purification: A critical review	Choong, Z.-Y. Lin, K.-Y.A. Lisak, G. Lim, T.-T. Oh, W.-D.	2022	Journal of Hazardous Materials	426	-	25858	Journal	10.1016/j.jhazmat.2021.128077	Review
Biodiesel production from black soldier fly larvae derived from food waste by non-catalytic transesterification	Jung, S. Jung, J.-M. Tsang, Y.F. Bhatnagar, A. Chen, W.-H. Lin, K.-Y.A. Kwon, E.E.	2022	Energy	238	-	29348	Journal	10.1016/j.energy.2021.121700	Article
Removal of protein, histological dye and tetracycline from simulated bioindustrial wastewater with a dual pore size PPSU membrane	Lin, Y.-C. Zhuang, G.-L. Tasi, P.-F. Tseng, H.-H.	2022	Journal of Hazardous Materials	431	-	25858	Journal	10.1016/j.jhazmat.2022.128525	Article
A comprehensive review of thermoelectric generation optimization by statistical approach: Taguchi method, analysis of variance (ANOVA), and response surface methodology (RSM)	Chen, W.-H. Carrera Uribe, M. Kwon, E.E. Lin, K.-Y.A. Park, Y.-K. Ding, L. Saw, L.H.	2022	Renewable and Sustainable Energy Reviews	169	-	27567	Journal	10.1016/j.rser.2022.112917	Review
Ultrafine cobalt nanoparticle-embedded leaf-like hollow N-doped carbon as an enhanced catalyst for activating monopersulfate to degrade phenol	Tuan, D.D. Liu, W.-J. Kwon, E. Thanh, B.X. Munagapati, V.S. Wen, J.-C. Lisak, G. Hu, C. Lin, K.-Y.A.	2022	Journal of Colloid and Interface Science	606	-	26950	Journal	10.1016/j.jcis.2021.08.027	Article
Mycena chlorophos-inspired autoluminescent triboelectric fiber for wearable energy harvesting, self-powered sensing, and as human-device interfaces	Li, L. Chen, Y.-T. Hsiao, Y.-C. Lai, Y.-C.	2022	Nano Energy	94	-	21100197947	Journal	10.1016/j.nanoen.2022.106944	Article

Study on the effect of size on InGaN red micro-LEDs	Horng, R.-H. Ye, C.-X. Chen, P.-W. Iida, D. Ohkawa, K. Wu, Y.-R. Wu, D.-S.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-05370-0	Article
Enhancing the hydrophilicity and biofoulant removal ability of a PVDF ultrafiltration membrane via π - π interactions as measured by AFM	Lin, Y.-C. Liu, K.-M. Chiu, P.-L. Chao, C.-M. Wen, C.-S. Wang, C.-Y. Tseng, H.-H.	2022	Journal of Membrane Science	641	-	26953	Journal	10.1016/j.memsci.2021.119874	Article
Hydrogen-rich gas production via steam gasification of food waste over basic oxides (MgO/CaO/SrO) promoted-Ni/Al ₂ O ₃ catalysts	Moogi, S. Jang, S.-H. Rhee, G.H. Ko, C.H. Choi, Y.J. Lee, S.H. Show, P.L. Andrew Lin, K.-Y. Park, Y.-K.	2022	Chemosphere	287	-	24657	Journal	10.1016/j.chemosphere.2021.132	Article
Nanoneedle-Assembled Copper/Cobalt sulfides on nickel foam as an enhanced 3D hierarchical catalyst to activate monopersulfate for Rhodamine b degradation	Chen, H.-H. Park, Y.-K. Kwon, E. Fai Tsang, Y. Xuan Thanh, B. Cong Khiem, T. You, S. Hu, C. Lin, K.-Y.A.	2022	Journal of Colloid and Interface Science	613	-	26950	Journal	10.1016/j.jcis.2021.11.186	Article
A comprehensive review of thermogravimetric analysis in lignocellulosic and algal biomass gasification	Felix, C.B. Chen, W.-H. Ubando, A.T. Park, Y.-K. Lin, K.-Y.A. Pugazhendhi, A. Nguyen, T.-B. Dong, C.-D.	2022	Chemical Engineering Journal	445	-	16398	Journal	10.1016/j.cej.2022.136730	Article
The nephrotoxic potential of polystyrene microplastics at realistic environmental concentrations	Chen, Y.-C. Chen, K.-F. Lin, K.-Y.A. Chen, J.-K. Jiang, X.-Y. Lin, C.-H.	2022	Journal of Hazardous Materials	427	-	25858	Journal	10.1016/j.jhazmat.2021.127871	Article
Fabrication and characterization of sputtered Mg and F co-doped ZnO thin films with different substrate temperature for silicon thin-film solar cell applications	Wang, F.-H. Chen, M.-S. Jiang, Y.-L. Liu, H.-W. Kang, T.-K.	2022	Journal of Alloys and Compounds	897	-	12325	Journal	10.1016/j.jallcom.2021.163174	Article
A longitudinal study of the effects of problematic smartphone use on social functioning among people with schizophrenia: Mediating roles for sleep quality and self-stigma	Chang, K.-C. Chang, Y.-H. Yen, C.-F. Chen, J.-S. Chen, P.-J. Lin, C.-Y. Griffiths, M.D. Potenza, M.N. Pakpour, A.H.	2022	Journal of Behavioral Addictions	-	-	21100373947	Journal	10.1556/2006.2022.00012	Article
Ag-modified TiO ₂ /SiO ₂ /Fe ₃ O ₄ sphere with core-shell structure for photo-assisted reduction of 4-nitrophenol	Ningsih, L.A. Yoshida, M. Sakai, A. Andrew Lin, K.-Y. Wu, K.C.W. Catherine, H.N. Ahamad, T. Hu, C.	2022	Environmental Research	214	-	21524	Journal	10.1016/j.envres.2022.113690	Article
How Plants Recalibrate Cellular Iron Homeostasis	Vélez-Bermúdez, I.C. Schmidt, W.	2022	Plant and Cell Physiology	63	2	19019	Journal	10.1093/pcp/pcab166	Review
In vitro activity of cefiderocol, cefepime/enmetazobactam, cefepime/zidebactam, eravacycline, omadacycline, and other comparative agents against carbapenem-non-susceptible Pseudomonas aeruginosa and Acinetobacter baumannii isolates associated from bloodstream infection in Taiwan between 2018–2020	Liu, P.-Y. Ko, W.-C. Lee, W.-S. Lu, P.-L. Chen, Y.-H. Cheng, S.-H. Lu, M.-C. Lin, C.-Y. Wu, T.-S. Yen, M.-Y. Wang, L.-S. Liu, C.-P. Shao, P.-L. Lee, Y.-L. Shi, Z.-Y. Chen, Y.-S. Wang, F.-D. Tseng, S.-H. Lin, C.-N. Chen, Y.-H. Sheng, W.-H. Lee, C.-M. Tang, H.-J. Hsueh, P.-R.	2022	Journal of Microbiology, Immunology and Infection	55	5	20238	Journal	10.1016/j.jmii.2021.08.012	Article
Lead-free hybrid perovskite photocatalysts: surface engineering, charge-carrier behaviors, and solar-driven applications	Tang, Y. Mak, C.H. Jia, G. Cheng, K.-C. Kai, J.-J. Hsieh, C.-W. Meng, F. Niu, W. Li, F.-F. Shen, H.-H. Zhu, X. Chen, H.M. Hsu, H.-Y.	2022	Journal of Materials Chemistry A	10	23	21100232403	Journal	10.1039/d2ta01170k	Review
Functional use of CO ₂ to mitigate the formation of bisphenol A in catalytic pyrolysis of polycarbonate	Lee, T. Jung, S. Baek, K. Tsang, Y.F. Lin, K.-Y.A. Jeon, Y.J. Kwon, E.E.	2022	Journal of Hazardous Materials	423	-	25858	Journal	10.1016/j.jhazmat.2021.126992	Article

Toward the next-generation phyto-nanomedicines: cell-derived nanovesicles (CDNs) for natural product delivery	Chen, C. Wang, J. Sun, M. Li, J. Wang, H.-M.D.	2022	Biomedicine and Pharmacotherapy	145	-	28620	Journal	10.1016/j.biopha.2021.112416	Review
Tumor site-specific PEG detachment and active tumor homing of therapeutic PEGylated chitosan/folate-decorated polydopamine nanoparticles to augment antitumor efficacy of photothermal/chemo	Hsieh, M.-H. Wang, T.-H. Hu, S.-H. Hsu, T.-C. Yow, J.-L. Tzang, B.-S. Chiang, W.-H.	2022	Chemical Engineering Journal	446	-	16398	Journal	10.1016/j.cej.2022.137243	Article
A Systematic Review on Machine Learning and Deep Learning Models for Electronic Information Security in Mobile Networks	Gupta, C. Johri, I. Srinivasan, K. Hu, Y.-C. Qaisar, S.M. Huang, K.-Y.	2022	Sensors	22	5	130124	Journal	10.3390/s22052017	Review
Magnetic Fe ₃ O ₄ nanoparticles loaded papaya (Carica papaya L.) seed powder as an effective and recyclable adsorbent material for the separation of anionic azo dye (Congo Red) from liquid phase: Evaluation of adsorption properties	Subbaiah Munagapati, V. Wen, H.-Y. Gollakota, A.R.K. Wen, J.-C. Shu, C.-M. Andrew Lin, K.-Y. Tian, Z. Wen, J.-H. Mallikarjuna Reddy, G. Zyryanov, G.V.	2022	Journal of Molecular Liquids	345	-	26965	Journal	10.1016/j.molliq.2021.118255	Article
Promoted cellular uptake and intracellular cargo release of ICG/DOX-carrying hybrid polymeric nanoassemblies upon acidity-activated PEG detachment to enhance cancer photothermal/chemo combination therapy	Hung, Y.-N. Liu, Y.-L. Chou, Y.-H. Hu, S.-H. Cheng, B. Chiang, W.-H.	2022	European Polymer Journal	163	-	25854	Journal	10.1016/j.eurpolymj.2021.11094	Article
Electrochemically-driven regeneration of iron (II) enhances Fenton abatement of pesticide cartap	de Luna, M.D.G. Gumaling, R.P. Barte, E.G. Abarca, R.R.M. Garcia-Segura, S. Lu, M.-C.	2022	Journal of Hazardous Materials	421	-	25858	Journal	10.1016/j.jhazmat.2021.126713	Article
Hofmann-MOF derived nanoball assembled by FeNi alloy confined in carbon nanotubes as a magnetic catalyst for activating peroxydisulfate to degrade an ionic liquid	Liu, W.-J. Kwon, E. Xuan Thanh, B. Cong Khiem, T. Dinh Tuan, D. Lin, J.-Y. Wi-Afedzi, T. Hu, C. Sirivithayapakorn, S. Lin, K.-Y.A.	2022	Separation and Purification Technology	295	-	14292	Journal	10.1016/j.seppur.2022.120945	Article
Deep learning networks for real-time regional domestic waste detection	Mao, W.-L. Chen, W.-C. Fathurrahman, H.I.K. Lin, Y.-H.	2022	Journal of Cleaner Production	344	-	19167	Journal	10.1016/j.jclepro.2022.131096	Article
Facilely-prepared sulfide-doped Co ₃ O ₄ nanocomposite as a boosted catalyst for activating Oxone to degrade a sunscreen agent	Liu, W.-J. Kwon, E. Huy, N.N. Khiem, T.C. Lisak, G. Wi-Afedzi, T. Wu, C.-C. Ghanbari, F. Lin, K.-Y.A.	2022	Journal of the Taiwan Institute of Chemical Engineers	133	-	13900154734	Journal	10.1016/j.jtice.2022.104253	Article
In situ growth of ternary metal sulfide based quantum dots to detect dual gas at extremely low levels with theoretical investigations	Kumar, U. Yang, Y.-H. Deng, Z.-Y. Lee, M.-W. Huang, W.-M. Wu, C.-H.	2022	Sensors and Actuators B: Chemical	353	-	25236	Journal	10.1016/j.snb.2021.131192	Article
Enhanced degradation of ultra-violet stabilizer Bis(4-hydroxy)benzophenone using oxone catalyzed by hexagonal nanoplate-assembled CoS 3-dimensional	Liu, W.-J. Yang, H. Park, Y.-K. Kwon, E. Huang, C.-W. Thanh, B.X. Khiem, T.C. You, S. Ghanbari, F. Lin, K.-Y.A.	2022	Chemosphere	288	-	24657	Journal	10.1016/j.chemosphere.2021.132	Article
Biochar application strategies for polycyclic aromatic hydrocarbons removal from soils	Valizadeh, S. Lee, S.S. Choi, Y.J. Baek, K. Jeon, B.-H. Andrew Lin, K.-Y. Park, Y.-K.	2022	Environmental Research	213	-	21524	Journal	10.1016/j.envres.2022.113599	Article
3D hexagonal hierarchitectured cobalt sulfide as an enhanced catalyst for activating monopersulfate to degrade sunscreen agent ensulizole	Liu, W.-J. Kwon, E. Thanh, B.X. Khiem, T.C. Lisak, G. Lee, J. Lin, K.-Y.A.	2022	Journal of the Taiwan Institute of Chemical Engineers	131	-	13900154734	Journal	10.1016/j.jtice.2021.10.009	Article
Carbapenemase-producing Enterobacterales infections: recent advances in diagnosis and treatment	Lee, Y.-L. Chen, H.-M. Hii, I.-M. Hsueh, P.-R.	2022	International Journal of Antimicrobial Agents	59	2	19757	Journal	10.1016/j.ijantimicag.2022.10652	Review

Influence of C/N ratios on treatment performance and biomass production during co-culture of microalgae and activated sludge	Dang, B.-T. Nguyen, T.-T. Ngo, H.H. Pham, M.-D.-T. Le, L.T. Nguyen, N.-K.-Q. Vo, T.-D.-H. Varjani, S. You, S.-J. Lin, K.A. Huynh, K.-P.-H. Bui, X.-T.	2022	Science of the Total Environment	837	-	25349	Journal	10.1016/j.scitotenv.2022.155832	Article
Cell-derived artificial nanovesicle as a drug delivery system for malignant melanoma treatment	Lin, Y.-Y. Chen, C.-Y. Ma, D.-L. Leung, C.-H. Chang, C.-Y. Wang, H.-M.D.	2022	Biomedicine and Pharmacotherapy	147	-	28620	Journal	10.1016/j.biopha.2021.112586	Article
Modulation Doping Enables Ultrahigh Power Factor and Thermoelectric ZT in n-Type Bi ₂ Te _{2.7} Se _{0.3}	Chen, C.-L. Wang, T.-H. Yu, Z.-G. Hutabalian, Y. Vankayala, R.K. Chen, C.-C. Hsieh, W.-P. Jeng, H.-T. Wei, D.-H. Chen, Y.-Y.	2022	Advanced Science	9	20	21100470165	Journal	10.1002/advs.202201353	Article
Redox participation and plasmonic effects of Ag nanoparticles in nickel cobaltite-Ag architectures as battery type electrodes for hybrid supercapacitor	Girija, N. Kuttan, S.S. Jyothibasu, J.P. Lee, R.-H. Nair, B.N. Mohamed, A.A.P. Devaki, S.J. Hareesh, U.N.S.	2022	Electrochimica Acta	412	-	25181	Journal	10.1016/j.electacta.2022.140141	Article
Development and validation of a deep learning-based algorithm for colonoscopy quality assessment	Chang, Y.-Y. Li, P.-C. Chang, R.-F. Chang, Y.-Y. Huang, S.-P. Chen, Y.-Y. Chang, W.-Y. Yen, H.-H.	2022	Surgical Endoscopy	36	9	19196	Journal	10.1007/s00464-021-08993-y	Article
Effects of pulsed electric field-assisted thawing on the characteristics and quality of Pekin duck meat	Lung, C.-T. Chang, C.-K. Cheng, F.-C. Hou, C.-Y. Chen, M.-H. Santoso, S.P. Yudhistira, B. Hsieh, C.-W.	2022	Food Chemistry	390	-	24039	Journal	10.1016/j.foodchem.2022.133137	Article
Neuronal intranuclear inclusion disease in patients with adult-onset non-vascular leukoencephalopathy	Liu, Y.H. Chou, Y.T. Chang, F.P. Lee, W.J. Guo, Y.C. Chou, C.T. Huang, H.C. Mizuguchi, T. Chou, C.C. Yu, H.Y. Yu, K.W. Wu, H.M. Tsai, P.C. Matsumoto, N. Lee, Y.C. Liao, Y.C.	2022	Brain : a journal of neurology	145	9	14317	Journal	10.1093/brain/awac135	Article
Anthracene-Bridged Sensitizers for Dye-Sensitized Solar Cells with 37% Efficiency under Dim Light	Chen, C.-C. Nguyen, V.S. Chiu, H.-C. Chen, Y.-D. Wei, T.-C. Yeh, C.-Y.	2022	Advanced Energy Materials	12	20	21100199127	Journal	10.1002/aenm.202104051	Article
Development of physicochemically stable Z-scheme MIL-88A/g-C ₃ N ₄ heterojunction photocatalyst with excellent charge transfer for improving acid red 1 dye decomposition efficiency	Tan, C.-E. Su, E.-C. Wey, M.-Y.	2022	Applied Surface Science	590	-	28983	Journal	10.1016/j.apsusc.2022.152954	Article
Effects of Bidens alba and Plectranthus amboinicus dietary supplements on nonspecific immune responses, growth, and resistance to Vibrio alginolyticus in white leg shrimp (Penaeus vannamei)	Huang, H.-T. Liao, Z.-H. Wu, Y.-S. Lin, Y.-J. Kang, Y.-S. Nan, F.-H.	2022	Aquaculture	546	-	29419	Journal	10.1016/j.aquaculture.2021.7373	Article
Broccoli-like CeO ₂ with Hierarchical/Porous Structures, and promoted oxygen vacancy as an enhanced catalyst for catalytic diesel soot elimination	Tsai, Y.-C. Kwon, E. Park, Y.-K. Nhat Huy, N. Lisak, G. Hsu, P.-S. Hu, C. Lin, K.-Y.A.	2022	Separation and Purification Technology	281	-	14292	Journal	10.1016/j.seppur.2021.119867	Article
Sensitive Oligonucleotide Detection Using Resonant Coupling between Fano Resonance and Image Dipoles of Gold Nanoparticles	Kuo, C.-W. Wang, S.-H. Lo, S.-C. Yong, W.-H. Ho, Y.-L. Delaunay, J.-J. Tsai, W.-S. Wei, P.-K.	2022	ACS Applied Materials and Interfaces	14	12	19700171101	Journal	10.1021/acscami.1c21936	Article
Breaking the Relation between Activity and Stability of the Oxygen-Evolution Reaction by Highly Doping Ru in Wide-Band-Gap SrTiO ₃ as Electrocatalyst	Liu, H.-J. Chiang, C.-Y. Wu, Y.-S. Lin, L.-R. Ye, Y.-C. Huang, Y.-H. Tsai, J.-L. Lai, Y.-C. Munprom, R.	2022	ACS Catalysis	-	-	19700188320	Journal	10.1021/acscatal.1c05539	Article

A tube-shaped solid–liquid-interfaced triboelectric–electromagnetic hybrid nanogenerator for efficient ocean wave energy harvesting	Sun, X. Shang, C. Ma, H. Li, C. Xue, L. Xu, Q. Wei, Z. Li, W. Yalikun, Y. Lai, Y.-C. Yang, Y.	2022	Nano Energy	100	-	21100197947	Journal	10.1016/j.nanoen.2022.107540	Article
Geographic Patterns of Carbapenem-Resistant <i>Pseudomonas aeruginosa</i> in the Asia-Pacific Region: Results from the Antimicrobial Testing Leadership and Surveillance (ATLAS) Program, 2015-2019	Lee, Y.-L. Ko, W.-C. Hsueh, P.-R.	2022	Antimicrobial Agents and Chemotherapy	66	2	19615	Journal	10.1128/AAC.02000-21	Article
Synergistic effect of KCl mixing and melamine/urea mixture in the synthesis of g-C ₃ N ₄ for photocatalytic removal of tetracycline	Hu, C. Liu, Z.-T. Andrew Lin, K.-Y. Wei, W.-H. Wang, K.-H.	2022	Journal of Industrial and Engineering Chemistry	107	-	144861	Journal	10.1016/j.jiec.2021.11.036	Article
ANGPTL1 attenuates cancer migration, invasion, and stemness through regulating FOXO3a-mediated SOX2 expression in colorectal cancer	Chang, T.-Y. Lan, K.-C. Chiu, C.-Y. Sheu, M.-L. Liu, S.-H.	2022	Clinical Science	136	9	29710	Journal	10.1042/CS20220043	Article
The optical research progress of nanophosphors composed of transition elements in the fourth period of near-infrared windows I and II for deep-tissue theranostics	Chan, M.-H. Huang, W.-T. Chen, K.-C. Su, T.-Y. Chan, Y.-C. Hsiao, M. Liu, R.-S.	2022	Nanoscale	-	-	19700173215	Journal	10.1039/d2nr00343k	Review
Catalytic pyrolysis of chicken manure over various catalysts	Shim, J.-W. Pyo, S. Lam, S.S. Jae, J. Jeon, B.-H. Khan, M.A. Lin, K.-Y.A. Kim, Y.-M. Jung, S.-C. Park, Y.-K.	2022	Fuel	322	-	16313	Journal	10.1016/j.fuel.2022.124241	Article
Effect of torrefaction and fractional condensation on the quality of bio-oil from biomass pyrolysis for fuel applications	Valizadeh, S. Oh, D. Jae, J. Pyo, S. Jang, H. Yim, H. Rhee, G.H. Khan, M.A. Jeon, B.-H. Lin, K.-Y.A. Show, P.L. Sohn, J.M. Park, Y.-K.	2022	Fuel	312	-	16313	Journal	10.1016/j.fuel.2021.122959	Article
MiR398-regulated antioxidants contribute to Bamboo mosaic virus accumulation and symptom manifestation	Lin, K.-Y. Wu, S.-Y. Hsu, Y.-H. Lin, N.-S.	2022	Plant Physiology	188	1	16615	Journal	10.1093/plphys/kiab451	Article
Touch-modulated van der Waals heterostructure with self-writing power switch for synaptic simulation	Gao, C. Nie, Q. Lin, C.-Y. Huang, F. Wang, L. Xia, W. Wang, X. Hu, Z. Li, M. Lu, H.-W. Lai, Y.-C. Lin, Y.-F. Chu, J. Li, W.	2022	Nano Energy	91	-	21100197947	Journal	10.1016/j.nanoen.2021.106659	Article
<i>Lactobacillus rhamnosus</i> GKLC1 ameliorates cisplatin-induced chronic nephrotoxicity by inhibiting cell	Tsai, Y.-S. Chen, Y.-P. Lin, S.-W. Chen, Y.-L. Chen, C.-C. Huang, G.-J.	2022	Biomedicine and Pharmacotherapy	147	-	28620	Journal	10.1016/j.biopha.2022.112701	Article
Do curious students learn more science in an immersive virtual reality environment? Exploring the impact of advance organizers and epistemic curiosity	Lee, S.W.-Y. Hsu, Y.-T. Cheng, K.-H.	2022	Computers and Education	182	-	17645	Journal	10.1016/j.compedu.2022.104456	Article
Causality between energy consumption and economic growth in the presence of GDP threshold effect: Evidence from OECD countries	Tran, B.-L. Chen, C.-C. Tseng, W.-C.	2022	Energy	251	-	29348	Journal	10.1016/j.energy.2022.123902	Article
Surface plasmon-enhanced fluorescence and surface-enhanced Raman scattering dual-readout chip constructed with silver nanowires: Label-free clinical detection of direct-bilirubin	Sahoo, S.R. Huey-Jen Hsu, S. Chou, D.-A. Wang, G.-J. Chang, C.-C.	2022	Biosensors and Bioelectronics	213	-	15437	Journal	10.1016/j.bios.2022.114440	Article

Immunomodulatory effect of camellia oil (<i>Camellia oleifera</i> Abel.) on CD19+ B cells enrichment and IL-10 production in BALB/c mice	Lin, C.-Y. Chen, S.-Y. Lee, W.-T. Yen, G.-C.	2022	Journal of Functional Foods	88	-	17500155016	Journal	10.1016/j.jff.2021.104863	Article
Homogeneous sub-nanophase network tailoring of dual organosilica membrane for enhancing CO ₂ gas separation	Li, J.-Y. Wang, D.K. Lin, Y.-T. Wey, M.-Y. Tseng, H.-H.	2022	Journal of Membrane Science	644	-	26953	Journal	10.1016/j.memsci.2021.120170	Article
A two-in-one immunoassay biosensor for the simultaneous detection of <i>Odontoglossum ringspot virus</i> and <i>Cymbidium mosaic virus</i>	Lin, W.-P. Wang, W.-J. Lee, C.-H. Jan, F.-J. Wang, G.-J.	2022	Sensors and Actuators B: Chemical	350	-	25236	Journal	10.1016/j.snb.2021.130875	Article
Employment of biogas as pyrolysis medium and chemical feedstock	Lee, S. Tsang, Y.F. Lin, K.-Y.A. Kwon, E.E. Lee, J.	2022	Journal of CO ₂ Utilization	57	-	21100255407	Journal	10.1016/j.jcou.2021.101877	Review
Association of Smoking with Patient Characteristics and Outcomes in Small Cell Lung Carcinoma, 2011-2018	Tseng, J.-S. Chiang, C.-J. Chen, K.-C. Zheng, Z.-R. Yang, T.-Y. Lee, W.-C. Hsu, K.-H. Huang, Y.-H. Liu, T.-W. Hsia, J.-Y. Chang, G.-C.	2022	JAMA Network Open	5	3	21100900345	Journal	10.1001/jamanetworkopen.2022.4	Article
The association of hypertension and prehypertension with greenness and PM _{2.5} in urban environment	Chien, J.-W. Wu, C. Chan, C.-C.	2022	Science of the Total Environment	821	-	25349	Journal	10.1016/j.scitotenv.2022.153526	Article
The U1 snRNP component RBP45d regulates temperature-responsive flowering in <i>Arabidopsis</i>	Chang, P. Hsieh, H.-Y. Tu, S.-L.	2022	Plant Cell	34	2	16594	Journal	10.1093/plcell/koab273	Article
Degradation of dihydroxybenzophenone through monopersulfate activation over nanostructured cobalt ferrites with various morphologies: A comparative study	Cong Khiem, T. Dinh Tuan, D. Kwon, E. Nhat Huy, N. Oh, W.-D. Chen, W.-H. Lin, K.-Y.A.	2022	Chemical Engineering Journal	450	-	16398	Journal	10.1016/j.cej.2022.137798	Article
Syngas production via chemical looping reforming using methane-based feed and NiO/Al ₂ O ₃ oxygen carrier	Chein, R.-Y. Lu, C.-Y. Chen, W.-H.	2022	Energy	250	-	29348	Journal	10.1016/j.energy.2022.123815	Article
Application of saponins extract from food byproducts for the removal of pesticide residues in fruits and vegetables	Hsu, W.-H. Chen, S.-Y. Lin, J.-H. Yen, G.-C.	2022	Food Control	136	-	22577	Journal	10.1016/j.foodcont.2022.108877	Article
The mainstream and extension of contemporary virtual reality education research: Insights from a co-citation network analysis (2015–2020)	Cheng, K.-H. Tang, K.-Y. Tsai, C.-C.	2022	Educational Technology Research and Development	70	1	20764	Journal	10.1007/s11423-021-10070-z	Article
Natural orifice versus conventional mini-laparotomy for specimen extraction after reduced-port laparoscopic surgery for colorectal cancer: propensity score-matched comparative study	Chang, S.-C. Lee, T.-H. Chen, Y.-C. Chen, M.-T. Chen, H.-C. Ke, T.-W. Tsai, Y.-Y. Fingerhut, A. Chen, W.T.-L.	2022	Surgical Endoscopy	36	1	19196	Journal	10.1007/s00464-020-08250-8	Article
Skin cells undergo asynthetic fission to expand body surfaces in zebrafish	Chan, K.Y. Yan, C.-C.S. Roan, H.-Y. Hsu, S.-C. Tseng, T.-L. Hsiao, C.-D. Hsu, C.-P. Chen, C.-H.	2022	Nature	605	7908	21206	Journal	10.1038/s41586-022-04641-0	Article
Echinacoside exhibits antidepressant-like effects through AMPAR–Akt/ERK–mTOR pathway stimulation and BDNF expression in mice	Chuang, H.-W. Wang, T.-Y. Huang, C.-C. Wei, I.-H.	2022	Chinese Medicine (United Kingdom)	17	1	6400153120	Journal	10.1186/s13020-021-00549-5	Article
Infection by phloem-limited phytoplasma affects mineral nutrient homeostasis in tomato leaf tissues	Buoso, S. Musetti, R. Marroni, F. Calderan, A. Schmidt, W. Santi, S.	2022	Journal of Plant Physiology	271	-	19257	Journal	10.1016/j.jplph.2022.153659	Article

Mining frequent weighted utility itemsets in hierarchical quantitative databases	Nguyen, H. Le, T. Nguyen, M. Fournier-Viger, P. Tseng, V.S. Vo, B.	2022	Knowledge-Based Systems	237	-	24772	Journal	10.1016/j.knosys.2021.107709	Article
Properties, Synthesis, and Device Applications of 2D Layered InSe	Dai, M. Gao, C. Nie, Q. Wang, Q.-J. Lin, Y.-F. Chu, J. Li, W.	2022	Advanced Materials Technologies	7	12	21100843238	Journal	10.1002/admt.202200321	Review
Influences of Innovation Attributes on Value Perceptions and Usage Intentions of Mobile Payment	Wang, E.S.-T.	2022	Journal of Electronic Commerce Research	23	1	21100210920	Journal	-	Article
Carbon dioxide-mediated thermochemical conversion of banner waste using cobalt oxide catalyst as a strategy for plastic waste treatment	Lee, N. Lin, K.-Y.A. Lee, J.	2022	Environmental Research	213	-	21524	Journal	10.1016/j.envres.2022.113560	Article
Detection of Fe ³⁺ and Hg ²⁺ ions through photoluminescence quenching of carbon dots derived from urea and bitter tea oil residue	Hu, C. Wang, K.-H. Chen, Y.-Y. Maniwa, M. Andrew Lin, K.-Y. Kawai, T. Chen, W.	2022	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	272	-	24530	Journal	10.1016/j.saa.2022.120963	Article
Deep learning-based endoscopic anatomy classification: an accelerated approach for data preparation and model validation	Chang, Y.-Y. Li, P.-C. Chang, R.-F. Yao, C.-D. Chen, Y.-Y. Chang, W.-Y. Yen, H.-H.	2022	Surgical Endoscopy	36	6	19196	Journal	10.1007/s00464-021-08698-2	Article
Solid-state intrinsically-superstretchable multifunctional nanogenerator fiber for biomechanical and ambient electromagnetic energy harvesting and self-powered sensing	Ginnaram, S. Chen, Y.-T. Lai, Y.-C.	2022	Nano Energy	95	-	21100197947	Journal	10.1016/j.nanoen.2022.107035	Article
S-scheme g-C ₃ N ₄ /ZnO heterojunction photocatalyst with enhanced photodegradation of azo dye	Lee, J.-T. Lee, S.-W. Wey, M.-Y.	2022	Journal of the Taiwan Institute of Chemical Engineers	134	-	13900154734	Journal	10.1016/j.jtice.2022.104357	Article
Novel MOF-808 metal-organic framework as highly efficient adsorbent of perfluorooctane sulfonate in water	Chang, P.-H. Chen, C.-Y. Mukhopadhyay, R. Chen, W. Tzou, Y.-M. Sarkar, B.	2022	Journal of Colloid and Interface Science	623	-	26950	Journal	10.1016/j.jcis.2022.05.050	Article
S-Allyl cysteine in garlic (<i>Allium sativum</i>): Formation, biofunction, and resistance to food processing for value-added product development	Yudhistira, B. Punthi, F. Lin, J.-A. Sulaimana, A.S. Chang, C.-K. Hsieh, C.-W.	2022	Comprehensive Reviews in Food Science and Food Safety	21	3	4900152301	Journal	10.1111/1541-4337.12937	Article
Effects of the number and position of methoxy substituents on triphenylamine-based chalcone visible-light-absorbing	Yen, S.-C. Lee, Z.-H. Ni, J.-S. Chen, C.-C. Chen, Y.-C.	2022	Polymer Chemistry	13	25	19700182678	Journal	10.1039/d2py00604a	Article
Trends of kidney transplantation from the 2020 annual report on kidney disease in Taiwan	Tsai, S.-F. Lin, M.-H. Hsu, C.-C. Wu, M.-J. Wang, I.-K. Chen, C.-H.	2022	Journal of the Formosan Medical Association	121	-	27952	Journal	10.1016/j.jfma.2021.12.009	Article
Photosynthesis in response to salinity and submergence in two Rhizophoraceae mangroves adapted to different tidal	Wang, C.-W. Wong, S.-L. Liao, T.-S. Weng, J.-H. Chen, M.-N. Huang, M.-Y. Chen, C.-I.	2022	Tree Physiology	42	5	17807	Journal	10.1093/treephys/tpab167	Article
Digital policy in European countries from the perspective of the Digital Economy and Society Index	Liu, T.-C.	2022	Policy and Internet	14	1	21100208044	Journal	10.1002/poi3.274	Article
Development and Validation of an Insulin Resistance Model for a Population with Chronic Kidney Disease Using a Machine Learning Approach	Lee, C.-L. Liu, W.-J. Tsai, S.-F.	2022	Nutrients	14	14	19700188323	Journal	10.3390/nu14142832	Article
Aggravation of pulmonary fibrosis after knocking down the aryl hydrocarbon receptor in the insulin-like growth factor 1 receptor pathway	Wu, S.-M. Tsai, J.-J. Pan, H.-C. Arbiser, J.L. Elia, L. Sheu, M.-L.	2022	British Journal of Pharmacology	179	13	20084	Journal	10.1111/bph.15806	Article

Recovery of cobalt and copper from single- and co-contaminated simulated electroplating wastewater via carbonate and hydroxide precipitation	Quiton, K.G.N. Huang, Y.-H. Lu, M.-C.	2022	Sustainable Environment Research	32	1	21100287109	Journal	10.1186/s42834-022-00140-z	Article
Simultaneous productions of biodiesel and biochar from krill	Kim, M. Kim, H.-B. Jung, S. Jung, J.-M. Lin, K.-Y.A. Rinklebe, J. Baek, K. Kwion, E.E.	2022	Journal of Cleaner Production	335	-	19167	Journal	10.1016/j.jclepro.2021.130296	Article
Rice Seedling Detection in UAV Images Using Transfer Learning and Machine Learning	Tseng, H.-H. Yang, M.-D. Saminathan, R. Hsu, Y.-C. Yang, C.-Y. Wu, D.-H.	2022	Remote Sensing	14	12	86430	Journal	10.3390/rs14122837	Article
Preparation of fluorine- and nanoparticle-free superwetting polybenzoxazine/cellulose composites for efficient oil/water separations	Ejeta, D.D. Tan, F.-H. Mathivathanan, A. Juang, T.-Y. Abu-Omar, M.M. Wang, C.-F. Lin, C.-H. Lai, J.-Y.	2022	Separation and Purification Technology	288	-	14292	Journal	10.1016/j.seppur.2022.120675	Article
The necessity of a loading dose when prescribing intravenous colistin in critically ill patients with CRGNB-associated pneumonia: a multi-center observational	Wang, S.-H. Yang, K.-Y. Sheu, C.-C. Chen, W.-C. Chan, M.-C. Feng, J.-Y. Chen, C.-M. Wu, B.-R. Zheng, Z.-R. Chou, Y.-C. Peng, C.-K.	2022	Critical Care	26	1	29914	Journal	10.1186/s13054-022-03947-9	Article
Novel biomass-derived porous-graphitic carbon coated iron oxide nanocomposite as an efficient electrocatalyst for the sensitive detection of rutin (vitamin P) in food and environmental samples	Elanchezian, M. Ganesan, S. Theyagarajan, K. Duraisamy, M. Thenmozhi, K. Weng, C.-H. Lin, Y.-T. Ponnusamy, V.K.	2022	Environmental Research	211	-	21524	Journal	10.1016/j.envres.2022.113012	Article
Stepwise redox changes alter the speciation and mobilization of phosphorus in hydromorphic soils	Shaheen, S.M. Wang, J. Baumann, K. Ahmed, A.A. Hsu, L.-C. Liu, Y.-T. Wang, S.-L. Kühn, O. Leinweber, P. Rinklebe, J.	2022	Chemosphere	288	-	24657	Journal	10.1016/j.chemosphere.2021.132	Article
Pexophagy is critical for fungal development, stress response, and virulence in <i>Alternaria alternata</i>	Wu, P.-C. Choo, C.Y.L. Lu, H.-Y. Wei, X.-Y. Chen, Y.-K. Yago, J.I. Chung, K.-R.	2022	Molecular Plant Pathology	23	10	19790	Journal	10.1111/mpp.13247	Article
4D-printed pH sensing claw	Wu, C.-Y. Chen, J.-R. Su, C.-K.	2022	Analytica Chimica Acta	1204	-	23911	Journal	10.1016/j.aca.2022.339733	Article
Firms' adoption of CSR initiatives and employees' organizational commitment: Organizational CSR climate and employees' CSR-induced attributions as mediators	Lin, Y.-T. Liu, N.-C. Lin, J.-W.	2022	Journal of Business Research	140	-	20550	Journal	10.1016/j.jbusres.2021.11.028	Article
Proteomics for species authentication of cod and corresponding fishery products	Chien, H.-J. Huang, Y.-H. Zheng, Y.-F. Wang, W.-C. Kuo, C.-Y. Wei, G.-J. Lai, C.-C.	2022	Food Chemistry	374	-	24039	Journal	10.1016/j.foodchem.2021.131631	Article
Revealing a Highly Sensitive Sub-ppb-Level NO ₂ Gas-Sensing Capability of Novel Architecture 2D/0D MoS ₂ /SnS Heterostructures with DFT Interpretation	Kumar, U. Hsieh, H.-W. Liu, Y.-C. Deng, Z.-Y. Chen, K.-L. Huang, W.-M. Wu, C.-H.	2022	ACS Applied Materials and Interfaces	14	28	19700171101	Journal	10.1021/acsami.2c03173	Article
Hybrid PEGylated chitosan/PLGA nanoparticles designed as pH-responsive vehicles to promote intracellular drug delivery and cancer chemotherapy	Huang, S.-J. Wang, T.-H. Chou, Y.-H. Wang, H.-M.D. Hsu, T.-C. Yow, J.-L. Tzang, B.-S. Chiang, W.-H.	2022	International Journal of Biological Macromolecules	210	-	17544	Journal	10.1016/j.ijbiomac.2022.04.209	Article
Main-chain engineering of polymer photocatalysts with hydrophilic non-conjugated segments for visible-light-driven hydrogen evolution	Chang, C.-L. Lin, W.-C. Ting, L.-Y. Shih, C.-H. Chen, S.-Y. Huang, T.-F. Tateno, H. Jayakumar, J. Jao, W.-Y. Tai, C.-W. Chu, C.-Y. Chen, C.-W. Yu, C.-H. Lu, Y.-J. Hu, C.-C. Elewa, A.M. Mochizuki, T. Chou, H.-H.	2022	Nature Communications	13	1	19700182758	Journal	10.1038/s41467-022-33211-1	Article

Targeting histone deacetylase-3 blocked epithelial-mesenchymal plasticity and metastatic dissemination in gastric cancer	Wu, S.-M. Jan, Y.-J. Tsai, S.-C. Pan, H.-C. Shen, C.-C. Yang, C.-N. Lee, S.-H. Liu, S.-H. Shen, L.-W. Chiu, C.-S. Arbiser, J.L. Meng, M. Sheu, M.-L.	2022	Cell Biology and Toxicology	-	-	24626	Journal	10.1007/s10565-021-09673-2	Article
Mutations in DNA polymerase δ subunit 1 co-segregate with CMD2-type resistance to Cassava Mosaic Geminiviruses	Lim, Y.-W. Mansfeld, B.N. Schläpfer, P. Gilbert, K.B. Narayanan, N.N. Qi, W. Wang, Q. Zhong, Z. Boyher, A. Gehan, J. Beyene, G. Lin, Z.-J.D. Esuma, W. Feng, S. Chanez, C. Eggenberger, N. Adiga, G. Alicai, T. Jacobsen, S.E. Taylor, N.J. Gruissem, W. Bart, R.S.	2022	Nature Communications	13	1	19700182758	Journal	10.1038/s41467-022-31414-0	Article
Endurance exercise ameliorates Western diet-induced atherosclerosis through modulation of microbiota and its metabolites	Huang, W.-C. Tung, C.-L. Yang, Y.-C.S.H. Lin, I.-H. Ng, X.E. Tung, Y.-T.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-07317-x	Article
Using the response surface methodology to establish the optimal conditions for preserving bananas (<i>Musa acuminata</i>) in a pulsed electric field and to decrease browning induced by storage at a low	Chen, B.-K. Chang, C.-K. Cheng, K.-C. Hou, C.-Y. Lin, J.-A. Chen, M.-H. Santoso, S.P. Chen, C.-P. Hsieh, C.-W.	2022	Food Packaging and Shelf Life	31	-	21100285075	Journal	10.1016/j.fpsl.2021.100804	Article
Thermally Stable D2h Symmetric Donor- π -Donor Porphyrins as Hole-Transporting Materials for Perovskite Solar Cells	Mai, C.-L. Xiong, Q. Li, X. Chen, J.-Y. Chen, J.-Y. Chen, C.-C. Xu, J. Liu, C. Yeh, C.-Y. Gao, P.	2022	Angewandte Chemie - International Edition	-	-	22687	Journal	10.1002/anie.202209365	Article
Toward Automated Machine Learning-Based Hyperspectral Image Analysis in Crop Yield and Biomass Estimation	Li, K.-Y. de Lima, R.S. Burnside, N.G. Vahtmäe, E. Kutser, T. Sepp, K. Pinheiro, V.H.C. Yang, M.-D. Vain, A. Sepp, K.	2022	Remote Sensing	14	5	86430	Journal	10.3390/rs14051114	Article
Estimation of nitrogen status of paddy rice at vegetative phase using unmanned aerial vehicle based multispectral imagery	Wang, Y.-P. Chang, Y.-C. Shen, Y.	2022	Precision Agriculture	23	1	86245	Journal	10.1007/s11119-021-09823-w	Article
Association of Adherence to the Mediterranean Diet with All-Cause Mortality in Subjects with Heart Failure	Chang, C.-Y. Lee, C.-L. Liu, W.-J. Wang, J.-S.	2022	Nutrients	14	4	19700188323	Journal	10.3390/nu14040842	Article
Semantic Context-Aware Image Style Transfer	Liao, Y.-S. Huang, C.-R.	2022	IEEE Transactions on Image Processing	31	-	25534	Journal	10.1109/TIP.2022.3149237	Article
An Anomaly-Based IDS Framework Using Centroid-Based Classification	Lin, I.-C. Chang, C.-C. Peng, C.-H.	2022	Symmetry	14	1	21100201542	Journal	10.3390/sym14010105	Article
A Light and Anonymous Three-Factor Authentication Protocol for Wireless Sensor Networks	Zhu, L. Xiang, H. Zhang, K.	2022	Symmetry	14	1	21100201542	Journal	10.3390/sym14010046	Article
Ultrastable carbazole-tethered conjugated microporous polymers for high-performance energy storage	Ahmed, M. Kotp, M.G. Mansoure, T.H. Lee, R.-H. Kuo, S.-W. EL-Mahdy, A.F.M.	2022	Microporous and Mesoporous Materials	333	-	26989	Journal	10.1016/j.micromeso.2022.11176	Article
Spatial differences in stoichiometry of EGR phosphatase and Microtubule-associated Stress Protein 1 control root meristem activity during drought stress	Longkumer, T. Chen, C.-Y. Biancucci, M. Bhaskara, G.B. Verslues, P.E.	2022	Plant Cell	34	2	16594	Journal	10.1093/plcell/koab290	Article
Alkali pretreatment method of dairy wastewater based grown <i>Arthrospira platensis</i> for enzymatic degradation and bioethanol production	Manmai, N. Balakrishnan, D. Obey, G. Ito, N. Ramaraj, R. Unpaprom, Y. Velu, G.	2022	Fuel	330	-	16313	Journal	10.1016/j.fuel.2022.125534	Article

Data Security and Preservation Mechanisms for Industrial Control Network Using IOTA	Lin, I.-C. Chang, C.-C. Chang, Y.-S.	2022	Symmetry	14	2	21100201542	Journal	10.3390/sym14020237	Article
Mode of inactivation of Staphylococcus aureus and Escherichia coli by heated oyster-shell powder	Yen, L.-T. Weng, C.-H. Than, N.A.T. Tzeng, J.-H. Jacobson, A.R. Iamsaard, K. Dang, V.D. Lin, Y.-T.	2022	Chemical Engineering Journal	432	-	16398	Journal	10.1016/j.cej.2021.134386	Article
Constructive image steganography using example-based weighted color transfer	Hsieh, K.-S. Wang, C.-M.	2022	Journal of Information Security and Applications	65	-	21100332403	Journal	10.1016/j.jisa.2022.103126	Article
Influence of horizontally variable soil properties on nonlinear seismic site response and ground motion coherency	Chang, Y.-H. Tsai, C.-C. Ge, L. Park, D.	2022	Earthquake Engineering and Structural Dynamics	51	3	15620	Journal	10.1002/eqe.3587	Article
Examining the generalizability of research findings from archival data	Delios, A. Clemente, E.G. Wu, T. Tan, H. Wang, Y. Gordon, M. Viganola, D. Chen, Z. Dreber, A. Johannesson, M. Pfeiffer, T. Uhlmann, E.L. Al-Aziz, A.M.A.	2022	Proceedings of the National Academy of Sciences of the United States of America	119	30	21121	Journal	10.1073/pnas.2120377119	Article
Pulsed electric field-assisted drying: A review of its underlying mechanisms, applications, and role in fresh produce plant-based food preservation	Punthi, F. Yudhistira, B. Gavahian, M. Chang, C.-K. Cheng, K.-C. Hou, C.-Y. Hsieh, C.-W.	2022	Comprehensive Reviews in Food Science and Food Safety	21	6	4900152301	Journal	10.1111/1541-4337.13052	Article
The haplotype-resolved chromosome pairs of a heterozygous diploid African cassava cultivar reveal novel pan-genome and allele-specific transcriptome features	Qi, W. Lim, Y.-W. Patrignani, A. Schläpfer, P. Bratus-Neuenschwander, A. Grüter, S. Chanez, C. Rodde, N. Prat, E. Vautrin, S. Fustier, M.-A. Pratas, D. Schlapbach, R. Gruissem, W.	2022	GigaScience	11	-	21100420802	Journal	10.1093/gigascience/giac028	Article
From Chinese tourists to Taiwanese campers: Impacts of tourism policies on campsite land use/cover change	Chen, M.-W. Tu, H.-M. Tung, C.-H.	2022	Journal of Environmental Management	310	-	23371	Journal	10.1016/j.jenvman.2022.114749	Article
Navigation of a Fuzzy-Controlled Wheeled Robot Through the Combination of Expert Knowledge and Data-Driven Multiobjective Evolutionary Learning	Juang, C.-F. Chou, C.-Y. Lin, C.-T.	2022	IEEE Transactions on Cybernetics	52	8	21100274221	Journal	10.1109/TCYB.2020.3041269	Article
Protective effect of fermented okara on the regulation of inflammation, the gut microbiota, and SCFAs production in rats with TNBS-induced colitis	Hong, C.-J. Chen, S.-Y. Hsu, Y.-H. Yen, G.-C.	2022	Food Research International	157	-	23180	Journal	10.1016/j.foodres.2022.111390	Article
Very Low Stocks and Inputs of Necromass in Wind-affected Tropical Forests	Chao, K.-J. Liao, P.-S. Chen, Y.-S. Song, G.-Z.M. Phillips, O.L. Lin, H.-J.	2022	Ecosystems	25	2	20343	Journal	10.1007/s10021-021-00667-z	Article
Effect of the coexistence of endosulfan on the lindane biodegradation by <i>Novosphingobium barchaimii</i> and microbial	Wu, S.C. Chang, B.-S. Li, Y.-Y.	2022	Chemosphere	297	-	24657	Journal	10.1016/j.chemosphere.2022.134	Article
Recycling Waste Polycarbonate to Bisphenol A-Based Oligoesters as Epoxy-Curing Agents, and Degrading Epoxy Thermosets and Carbon Fiber Composites into Useful Chemicals	Jiang, T.-W. Reddy, K.S.K. Chen, Y.-C. Wang, M.-W. Chang, H.-C. Abu-Omar, M.M. Lin, C.-H.	2022	ACS Sustainable Chemistry and Engineering	10	7	21100248891	Journal	10.1021/acssuschemeng.1c07247	Article
Modular evolution of secretion systems and virulence plasmids in a bacterial species complex	Chou, L. Lin, Y.-C. Haryono, M. Santos, M.N.M. Cho, S.-T. Weisberg, A.J. Wu, C.-F. Chang, J.H. Lai, E.-M. Kuo, C.-H.	2022	BMC Biology	20	1	13096	Journal	10.1186/s12915-021-01221-y	Article

Effects of free radicals from doxycycline hyclate and minocycline hydrochloride under blue light irradiation on the deactivation of Staphylococcus aureus, including a methicillin-resistant strain	Yuann, J.-M.P. Lee, S.-Y. He, S. Wong, T.-W. Yang, M.-J. Cheng, C.-W. Huang, S.-T. Liang, J.-Y.	2022	Journal of Photochemistry and Photobiology B: Biology	226	-	17622	Journal	10.1016/j.jphotobiol.2021.112370	Article
Incentives for disclosing the store brand supplier	Hsiao, L. Chen, Y.-J. Xiong, H. Liu, H.	2022	Omega (United Kingdom)	109	-	21915	Journal	10.1016/j.omega.2021.102590	Article
Enhancement of bioaromatics production from food waste through catalytic pyrolysis over Zn and Mo-loaded HZSM-5 under an environment of decomposed methane	Moogi, S. Pyo, S. Farooq, A. Valizadeh, S. Jun Choi, Y. Hoon Rhee, G. Lee, J. Jae, J. Hussain, M. Ali Khan, M. Jeon, B.-H. Andrew Lin, K.-Y. Chen, W.-H. Park, Y.-K.	2022	Chemical Engineering Journal	446	-	16398	Journal	10.1016/j.cej.2022.137215	Article
Antimicrobial Resistance in Campylobacter coli and Campylobacter jejuni from Human Campylobacteriosis in Taiwan, 2016 to 2019	Liao, Y.-S. Chen, B.-H. Teng, R.-H. Wang, Y.-W. Chang, J.-H. Liang, S.-Y. Tsao, C.-S. Hong, Y.-P. Sung, H.-Y. Chiou, C.-S.	2022	Antimicrobial Agents and Chemotherapy	66	1	19615	Journal	10.1128/AAC.01736-21	Article
Electrodeposition of nanocrystalline Cu for Cu-Cu direct bonding	Jhan, J.-J. Wataya, K. Nishikawa, H. Chen, C.-M.	2022	Journal of the Taiwan Institute of Chemical Engineers	132	-	13900154734	Journal	10.1016/j.jtice.2021.10.027	Article
Mitigation of hazardous toluene via ozone-catalyzed oxidation using MnOx/Sawdust biochar catalyst	Cha, J.S. Kim, Y.-M. Lee, I.H. Choi, Y.J. Rhee, G.H. Song, H. Jeon, B.-H. Lam, S.S. Khan, M.A. Andrew Lin, K.-Y. Chen, W.-H.	2022	Environmental Pollution	312	-	23916	Journal	10.1016/j.envpol.2022.119920	Article
SSR individual identification system construction and population genetics analysis for Chamaecyparis formosensis	Huang, C.-J. Chu, F.-H. Huang, Y.-S. Tu, Y.-C. Hung, Y.-M. Tseng, Y.-H. Pu, C.-E. Hsu, C.T. Chao, C.-H. Chou, Y.-S. Liu, S.-C. You, Y.T. Hsu, S.-Y. Hsieh, H.-C. Wang, C.-T. Chen, C.-T.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-07870-5	Article
On-line Error-Matching Measurement and Compensation Method for a Precision Machining Production Line	Wang, S.-M. Lee, C.-Y. Gunawan, H. Yeh, C.-C.	2022	International Journal of Precision Engineering and Manufacturing - Green Technology	9	2	21100317418	Journal	10.1007/s40684-021-00336-5	Article
Hollow porous cobalt oxide nanobox as an enhanced for activating monopersulfate to degrade 2-hydroxybenzoic acid in water	Tuan, D.D. Khiem, C. Kwon, E. Tsang, Y.F. Sirivithayapakorn, S. Thanh, B.X. Lisak, G. Yang, H. Lin, K.-Y.A.	2022	Chemosphere	294	-	24657	Journal	10.1016/j.chemosphere.2021.133	Article
A microfluidic hanging drop-based spheroid co-culture platform for probing tumor angiogenesis	Rodoplu, D. Matahum, J.S. Hsu, C.-H.	2022	Lab on a Chip	22	7	24738	Journal	10.1039/d1lc01177d	Article
Adopting renewable energies to meet the carbon reduction target: Is forest carbon sequestration cheaper?	Liu, W.-Y. Chiang, Y.-H. Lin, C.-C.	2022	Energy	246	-	29348	Journal	10.1016/j.energy.2022.123328	Article
A Content-Adaptive Resizing Framework for Boosting Computation Speed of Background Modeling Methods	Huang, C.-R. Huang, W.-Y. Liao, Y.-S. Lee, C.-C. Yeh, Y.-W.	2022	IEEE Transactions on Systems, Man, and Cybernetics: Systems	52	2	21100262320	Journal	10.1109/TSMC.2020.3018872	Article
N-Schroff TiO2 nanocomposite for visible-light photocatalysis deactivation yeast exemplified by Candida albicans	Tzeng, J.-H. Weng, C.-H. Chang, C.-J. Yen, L.-T. de Luna, M.D.G. Huang, J.-W. Lin, Y.-T.	2022	Chemical Engineering Journal	435	-	16398	Journal	10.1016/j.cej.2021.134294	Article
Creative Situated Augmented Reality Learning for Astronomy Curricula	Chen, C.-C. Chen, H.-R. Wang, T.-Y.	2022	Educational Technology and Society	25	2	18405	Journal	-	Article
Polyimide-Based Covalent Organic Framework as a Photocurrent Enhancer for Efficient Dye-Sensitized Solar Cells	Chang, P.-H. Sil, M.C. Reddy, K.S.K. Lin, C.-H. Chen, C.-M.	2022	ACS applied materials & interfaces	14	22	19700171101	Journal	10.1021/acsami.2c04507	Article

Oxidative removal of thallium(I) using Al beverage can waste with amendments of Fe: Tl speciation and removal mechanisms	Chen, K.-Y. Tzou, Y.-M. Hsu, L.-C. Guo, J.-W. Cho, Y.-L. Teah, H.-Y. Hsieh, Y.-C. Liu, Y.-T.	2022	Chemical Engineering Journal	427	-	16398	Journal	10.1016/j.cej.2021.130846	Article
An ensemble model for link prediction based on graph embedding	Chen, Y.-L. Hsiao, C.-H. Wu, C.-C.	2022	Decision Support Systems	157	-	21933	Journal	10.1016/j.dss.2022.113753	Article
Multiple Performance Characteristics in the Application of Taguchi Fuzzy Method in Nanofluid/Ultrasonic Atomization Minimum Quantity Lubrication for Grinding Inconel 718 Alloys	Huang, W.-T. Tsai, J.-T. Hsu, C.F. Ho, W.-H. Chou, J.-H.	2022	International Journal of Fuzzy Systems	24	1	12358	Journal	10.1007/s40815-021-01135-5	Article
Upcycling fruit peel waste into a green reductant to reduce graphene oxide for fabricating an electrochemical sensing platform for sulfamethoxazole determination in aquatic environments	Lee, T.-W. Tsai, I.-C. Liu, Y.-F. Chen, C.	2022	Science of the Total Environment	812	-	25349	Journal	10.1016/j.scitotenv.2021.152273	Article
Purchasing from multiple capital-constrained suppliers using order financing	Wu, A.	2022	International Journal of Production Research	-	-	27656	Journal	10.1080/00207543.2021.2020926	Article
The effect of a Halal label and label size on purchasing intent for non-Muslim consumers	Nugraha, W.S. Chen, D. Yang, S.-H.	2022	Journal of Retailing and Consumer Services	65	-	22992	Journal	10.1016/j.jretconser.2021.102873	Article
An immunochromatographic assay utilizing magnetic nanoparticles to detect major peanut allergen Ara h 1 in processed foods	Yin, H.-Y. Li, Y.-T. Tsai, W.-C. Dai, H.-Y. Wen, H.-W.	2022	Food Chemistry	375	-	24039	Journal	10.1016/j.foodchem.2021.131844	Article
Symbol-Level Precoding for Multiuser Multiple-Input-Single-Output Downlink Systems with Low-Resolution DACs	Chen, C.-E.	2022	IEEE Transactions on Vehicular Technology	71	2	17393	Journal	10.1109/TVT.2021.3131478	Article
Omnidirectional / Unidirectional Antireflection-Switchable Structures Inspired by Dragonfly Wings	Chen, R.-Y. Lai, C.-J. Chen, Y.-J. Wu, M.-X. Yang, H.	2022	Journal of Colloid and Interface Science	610	-	26950	Journal	10.1016/j.jcis.2021.12.025	Article
Bilayer Lubricant-Infused Particulate Films as Slippery Protective Coatings with Durable Anticorrosion and Antifouling Performance	Chien, C.-H. Chen, T.-L. Wu, X.-Y. Chen, Y.-C. Lee, P.-Y. Lin, L.-Y. Wang, W.-L. Hsueh, H.-Y.	2022	Advanced Materials Interfaces	9	11	21100403124	Journal	10.1002/admi.202102144	Article
Early-life infections in association with the development of atopic dermatitis in infancy and early childhood: a nationwide nested case-control study	Lin, T.-L. Fan, Y.-H. Chang, Y.-L. Ho, H.J. Wu, C.-Y. Chen, Y.-J.	2022	Journal of the European Academy of Dermatology and Venereology	36	4	24790	Journal	10.1111/jdv.17908	Article
High-density genetic map and genome-wide association studies of aesthetic traits in Phalaenopsis orchids	Hsu, C.-C. Chen, S.-Y. Chiu, S.-Y. Lai, C.-Y. Lai, P.-H. Shehzad, T. Wu, W.-L. Chen, W.-H. Paterson, A.H. Chen, H.-H.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-07318-w	Article
Repurposing gestrinone for tumor suppressor through P21 reduction regulated by JNK in gynecological cancer	Ciou, H.-H. Lee, T.-H. Wang, H.-C. Ding, Y.-R. Tseng, C.-J. Wang, P.-H. Tsai, M.-H. Tzeng, S.-L.	2022	Translational Research	243	-	4700152753	Journal	10.1016/j.trsl.2021.12.002	Article
High Spectral Efficiency and Low Error Rate MIMO-GFDM for Next-Generation Communication Systems	Wang, H.-F. Ueng, F.-B. Chiang, C.-T.	2022	IEEE Transactions on Vehicular Technology	71	1	17393	Journal	10.1109/TVT.2021.3127912	Article
Recent advances in the managements of type 2 diabetes mellitus and natural hypoglycemic substances	Ning, C. Jiao, Y. Wang, J. Li, W. Zhou, J. Lee, Y.-C. Ma, D.-L. Leung, C.-H. Zhu, R. David Wang, H.-M.	2022	Food Science and Human Wellness	11	5	21100906935	Journal	10.1016/j.fshw.2022.04.004	Review

Catalytic ozonation of N, N-dimethylacetamide in aqueous solution by Fe ₃ O ₄ @SiO ₂ @MgO composite: Optimization, degradation pathways and mechanism	Su, W. Li, Y. Hong, X. Lin, K.-Y.A. Tong, S.	2022	Journal of the Taiwan Institute of Chemical Engineers	135	-	13900154734	Journal	10.1016/j.jtice.2022.104380	Article
Adverse pulmonary impacts of environmental concentrations of oil mist particulate matter in normal human bronchial	Lai, C.-H. Chen, Y.-C. Lin, K.-Y.A. Lin, Y.-X. Lee, T.-H. Lin, C.-H.	2022	Science of the Total Environment	809	-	25349	Journal	10.1016/j.scitotenv.2021.151119	Article
Significance of the modified nutric score for predicting clinical outcomes in patients with severe community-acquired pneumonia	Tseng, C.-C. Tu, C.-Y. Chen, C.-H. Wang, Y.-T. Chen, W.-C. Fu, P.-K. Chen, C.-M. Lai, C.-C. Kuo, L.-K. Ku, S.-C. Fang, W.-F.	2022	Nutrients	14	1	19700188323	Journal	10.3390/nu14010198	Article
PD-L1 strong expressions affect the clinical outcomes of osimertinib in treatment naïve advanced EGFR-mutant non-small cell lung cancer patients	Hsu, K.-H. Tseng, J.-S. Yang, T.-Y. Chen, K.-C. Su, K.-Y. Yu, S.-L. Chen, J.J.W. Huang, Y.-H. Chang, G.-C.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-13102-7	Article
Navigation of Three Cooperative Object-Transportation Robots Using a Multistage Evolutionary Fuzzy Control Approach	Juang, C.-F. Lu, C.-H. Huang, C.-A.	2022	IEEE Transactions on Cybernetics	52	5	21100274221	Journal	10.1109/TCYB.2020.3015960	Article
Removal of sulfonated azo Reactive Red 195 textile dye from liquid phase using surface-modified lychee (Litchi chinensis) peels with quaternary ammonium groups: Adsorption performance, regeneration, and mechanism	Subbaiah Munagapati, V. Wen, H.-Y. Gollakota, A.R.K. Wen, J.-C. Andrew Lin, K.-Y. Shu, C.-M. Mallikarjuna Reddy, G. Zyryanov, G.V. Wen, J.-H. Tian, Z.	2022	Journal of Molecular Liquids	368	-	26965	Journal	10.1016/j.molliq.2022.120657	Article
Determination of adulteration, geographical origins, and species of food by mass spectrometry	Chien, H.-J. Zheng, Y.-F. Wang, W.-C. Kuo, C.-Y. Hsu, Y.-M. Lai, C.-C.	2022	Mass Spectrometry Reviews	-	-	12229	Journal	10.1002/mas.21780	Review
Template-Free Try-On Image Synthesis via Semantic-Guided Optimization	Chou, C.-L. Chen, C.-Y. Hsieh, C.-W. Shuai, H.-H. Liu, J. Cheng, W.-H.	2022	IEEE Transactions on Neural Networks and Learning Systems	33	9	21100235616	Journal	10.1109/TNNLS.2021.3058379	Article
Human Posture Classification Using Interpretable 3-D Fuzzy Body Voxel Features and Hierarchical Fuzzy Classifiers	Juang, C.-F. Ni, W.-E.	2022	IEEE Transactions on Fuzzy Systems	30	12	24242	Journal	10.1109/TFUZZ.2022.3177028	Article
WSe ₂ /WS ₂ Heterobilayer Nonvolatile Memory Device with Boosted Charge Retention	Siao, M.-D. Gandhi, A.C. Sahoo, A.K. Wu, Y.-C. Syu, H.-K. Tsai, M.-Y. Tsai, T.-H. Yang, Y.-C. Lin, Y.-F. Liu, R.-S. Chiu, P.-W.	2022	ACS Applied Materials and Interfaces	14	2	19700171101	Journal	10.1021/acsami.1c20076	Article
Synergistic degradation of Methylene Blue by novel Fe-Co bimetallic catalyst supported on waste silica in photo-Fenton-like system	Quiton, K.G.N. Lu, M.-C. Huang, Y.-H.	2022	Sustainable Environment Research	32	1	21100287109	Journal	10.1186/s42834-022-00127-w	Article
Deer Velvet Antler Extracts Exert Anti-Inflammatory and Anti-Arthritic Effects on Human Rheumatoid Arthritis Fibroblast-Like Synoviocytes and Distinct Mouse Arthritis	Cheng, W.-J. Yang, H.-T. Chiang, C.-C. Lai, K.-H. Chen, Y.-L. Shih, H.-L. Kuo, J.-J. Hwang, T.-L. Lin, C.-C.	2022	American Journal of Chinese Medicine	50	6	18134	Journal	10.1142/S0192415X22500689	Article
Ethylene Response Factor109 Attunes Immunity, Photosynthesis, and Iron Homeostasis in Arabidopsis Leaves	Yang, C.-L. Huang, Y.-T. Schmidt, W. Klein, P. Chan, M.-T. Pan, I.-C.	2022	Frontiers in Plant Science	13	-	21100313905	Journal	10.3389/fpls.2022.841366	Article
Lower All-Cause Mortality for Coronary Heart or Stroke Patients Who Adhere Better to Mediterranean Diet-An NHANES	Liang, K.-W. Lee, C.-L. Liu, W.-J.	2022	Nutrients	14	15	19700188323	Journal	10.3390/nu14153203	Article

Epigenetic therapy combination of UNC0638 and CI-994 suppresses breast cancer via epigenetic remodeling of BIRC5 and GADD45A	Lin, H.-Y. Wu, H.-J. Chen, S.-Y. Hou, M.-F. Lin, C.-S. Chu, P.-Y.	2022	Biomedicine and Pharmacotherapy	145	-	28620	Journal	10.1016/j.biopha.2021.112431	Article
Non-submerged attached growth process for domestic wastewater treatment: Influence of media types and internal recirculation ratios	Dang, B.-T. Nguyen, T.-T. Bui, X.-T. Hao Ngo, H. Andrew Lin, K.-Y. Tomoaki, I. Saunders, T. Huynh, T.-N. Ngoc-Dan Cao, T. Visvanathan, C. Varjani, S. Rene, E.R.	2022	Bioresource Technology	343	-	15423	Journal	10.1016/j.biortech.2021.126125	Article
Allometric equations may underestimate the contribution of fine roots to mangrove carbon sequestration	Chou, M.-Q. Lin, W.-J. Lin, C.-W. Wu, H.-H. Lin, H.-J.	2022	Science of the Total Environment	833	-	25349	Journal	10.1016/j.scitotenv.2022.155032	Article
Effect of air quality improvement by urban parks on mitigating PM2.5 and its associated heavy metals: A mobile-monitoring field	Su, T.-H. Lin, C.-S. Lu, S.-Y. Lin, J.-C. Wang, H.-H. Liu, C.-P.	2022	Journal of Environmental Management	323	-	23371	Journal	10.1016/j.jenvman.2022.116283	Article
The bright side of environmental uncertainty for organizational learning: the moderating role of political skill	Chang, M.-L. Tang, A.D. Cheng, C.-F. Chen, W.-K.	2022	Asian Business and Management	-	-	17600155227	Journal	10.1057/s41291-022-00185-3	Article
Increasing salinity stress decreases the thermal tolerance of amphibian tadpoles in coastal areas of Taiwan	Chuang, M.-F. Cheng, Y.-J. Andersen, D. Borzée, A. Wu, C.-S. Chang, Y.-M. Yang, Y.-J. Jang, Y. Kam, Y.-C.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-12837-7	Article
A Nonflammable High-Voltage 4.7 V Anode-Free Lithium Battery	Liang, P. Sun, H. Huang, C.-L. Zhu, G. Tai, H.-C. Li, J. Wang, F. Wang, Y. Huang, C.-J. Jiang, S.-K. Lin, M.-C. Li, Y.-Y. Hwang, B.-J. Wang, C.-A. Dai, H.	2022	Advanced Materials	34	51	19881	Journal	10.1002/adma.202207361	Article
p17-Modulated Hsp90/Cdc37 Complex Governs Oncolytic Avian Reovirus Replication by Chaperoning p17, Which Promotes Viral Protein Synthesis and Accumulation of Viral Proteins s C and s A	Huang, W.-R. Li, J.-Y. Wu, Y.-Y. Liao, T.-L. Nielsen, B.L. Liu, H.-J.	2022	Journal of Virology	96	6	20250	Journal	10.1128/jvi.00074-22	Article
Increasing the λ-Red mediated gene deletion efficiency in Escherichia coli using methyl phosphotriester-modified DNA	Chou, S.-C. Lai, Y.-J. Zhuo, X.-Z. Chen, W.-Y. Li, S.-Y.	2022	Journal of the Taiwan Institute of Chemical Engineers	137	-	13900154734	Journal	10.1016/j.jtice.2022.104297	Article
Boundary Layer Characteristics Over Complex Terrain in Central Taiwan: Observations and Numerical Modeling	Cheng, F.-Y. Wang, Y.-T. Huang, M.-Q. Lin, P.-L. Lin, C.-H. Lin, P.-H. Wang, S.-H. Tsuang, B.-J.	2022	Journal of Geophysical Research: Atmospheres	127	2	21101038508	Journal	10.1029/2021JD035726	Article
Overexpression of NDR1 leads to pathogen resistance at elevated temperatures	Samaradivakara, S.P. Chen, H. Lu, Y.-J. Li, P. Kim, Y. Tsuda, K. Mine, A. Day, B.	2022	New Phytologist	235	3	19908	Journal	10.1111/nph.18190	Article
What's unique? the unfolded protein response in plants	Yu, C.-Y. Cho, Y. Sharma, O. Kanehara, K.	2022	Journal of Experimental Botany	73	5	19210	Journal	10.1093/jxb/erab513	Article
Theoretical and experimental analysis of an electromagnetic seismic isolation system	Lin, G.-L. Lin, C.-C. Li, Y.-H. Lin, T.-T.	2022	Engineering Structures	250	-	15652	Journal	10.1016/j.engstruct.2021.113411	Article
Photo-induced poly(styrene-[C1mim][Tf2N])-supported hollow fiber ionic liquid membranes to enhance CO2	Lai, W.-H. Wang, D.K. Tseng, H.-H. Wey, M.-Y.	2022	Journal of CO2 Utilization	56	-	21100255407	Journal	10.1016/j.jcou.2021.101871	Article
Novel rice iron biofortification approaches using expression of ZmYS1 and OsTOM1 controlled by tissue-specific promoters	Kawakami, Y. Gruissem, W. Bhullar, N.K.	2022	Journal of Experimental Botany	73	16	19210	Journal	10.1093/jxb/erac214	Article

Effect of heat diffusivity for driving chain stitching of dual-type hybrid organosilica-derived membranes	Li, J.-Y. Lin, Y.-T. Wang, D.K. Tseng, H.-H. Wey, M.-Y.	2022	Separation and Purification Technology	290	-	14292	Journal	10.1016/j.seppur.2022.120848	Article
Authenticated Semi-Quantum Key Distribution Protocol Based on W States	Wang, H.-W. Tsai, C.-W. Lin, J. Yang, C.-W.	2022	Sensors	22	13	130124	Journal	10.3390/s22134998	Article
Attenuation of in vitro and in vivo melanin synthesis using a Chinese herbal medicine through the inhibition of tyrosinase activity	Liu, S.-C. Sheu, M.-L. Tsai, Y.-C. Lin, Y.-C. Chang, C.-W. Lai, D.-W.	2022	Phytomedicine	95	-	17067	Journal	10.1016/j.phymed.2021.153876	Article
Bisulfite reduction of soil iron for the reductive degradation of trichloroethylene	Hou, Y. Liang, C.	2022	Chemosphere	286	-	24657	Journal	10.1016/j.chemosphere.2021.131	Article
Human amniotic fluid mesenchymal stem cells attenuate pancreatic cancer cell proliferation and tumor growth in an orthotopic xenograft mouse model	Chen, Y.-C. Lan, Y.-W. Huang, S.-M. Yen, C.-C. Chen, W. Wu, W.-J. Staniczek, T. Chong, K.-Y. Chen, C.-M.	2022	Stem Cell Research and Therapy	13	1	19700201524	Journal	10.1186/s13287-022-02910-3	Article
The effects of modest drinking on life expectancy and mortality risks: a population-based cohort study	Liu, Y.-T. Lee, J.H. Tsai, M.K. Wei, J.C.-C. Wen, C.-P.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-11427-x	Article
Genome-wide analysis identified novel susceptible genes of restless legs syndrome in migraineurs	Jiang, Y.-J. Fann, C.S.-J. Fuh, J.-L. Chung, M.-Y. Huang, H.-Y. Chu, K.-C. Wang, Y.-F. Hsu, C.-L. Kao, L.-S. Chen, S.-P. Wang, S.-J.	2022	Journal of Headache and Pain	23	1	16714	Journal	10.1186/s10194-022-01409-9	Article
Bandgap Funneling in Bismuth-Based Hybrid Perovskite Photocatalyst with Efficient Visible-Light-Driven Hydrogen Evolution	Tang, Y. Mak, C.H. Wang, C. Fu, Y. Li, F.-F. Jia, G. Hsieh, C.-W. Shen, H.-H. Colmenares, J.C. Song, H. Yuan, M. Chen, Y. Hsu, H.-Y.	2022	Small Methods	6	8	21100924211	Journal	10.1002/smt.202200326	Article
Molecular chaperone TRiC governs avian reovirus replication by protecting outer-capsid protein σ C and inner core protein σ A and non-structural protein σ NS from ubiquitin- proteasome degradation	Huang, W.-R. Li, J.-Y. Liao, T.-L. Yeh, C.-M. Wang, C.-Y. Wen, H.-W. Hu, N.-J. Wu, Y.-Y. Hsu, C.-Y. Chang, Y.-K. Chang, C.-D. Nielsen, B.L. Liu, H.-J.	2022	Veterinary Microbiology	264	-	20882	Journal	10.1016/j.vetmic.2021.109277	Article
Complete classification of steerability under local filters and its relation with measurement incompatibility	Ku, H.-Y. Hsieh, C.-Y. Chen, S.-L. Chen, Y.-N. Budroni, C.	2022	Nature Communications	13	1	19700182758	Journal	10.1038/s41467-022-32466-y	Article
Ten years of augmented reality in education: A meta-analysis of (quasi-) experimental studies to investigate the impact	Chang, H.-Y. Binali, T. Liang, J.-C. Chiou, G.-L. Cheng, K.-H. Lee, S.W.-Y. Tsai, C.-C.	2022	Computers and Education	191	-	17645	Journal	10.1016/j.compedu.2022.104641	Article
Using the ARCS model to improve undergraduates' perceived information security protection motivation and behavior	Tsai, C.-Y. Shih, W.-L. Hsieh, F.-P. Chen, Y.-A. Lin, C.-L. Wu, H.-J.	2022	Computers and Education	181	-	17645	Journal	10.1016/j.compedu.2022.104449	Article
Clinical outcome of nosocomial pneumonia caused by Carbapenem-resistant gram-negative bacteria in critically ill patients: a multicenter retrospective observational study	Chen, C.-Y. Yang, K.-Y. Peng, C.-K. Sheu, C.-C. Chan, M.-C. Feng, J.-Y. Wang, S.-H. Chen, C.-M. Zheng, Z.-R. Liang, S.-J. Lin, Y.-C. Chen, C.-Y. Wu, B.-R. Shen, Y.-C. Chen, W.-C. Liang, S.-J. Lin, Y.-C. Feng, J.-Y. Peng, C.-K. Wang, S.-H. Sheu, C.-C. Chen, C.-M. Zheng, Z.-R.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-11061-7	Article
Biological traits can mediate species-specific, quasi-extinction risks of macroinvertebrates in streams experiencing	Hsieh, T.-T. Chiu, M.-C. Resh, V.H. Kuo, M.-H.	2022	Science of the Total Environment	806	-	25349	Journal	10.1016/j.scitotenv.2021.150313	Article

BURSTT: Bustling Universe Radio Survey Telescope in Taiwan	Lin, H.-H. Lin, K.-Y. Li, C.-T. Tseng, Y.-H. Jiang, H. Wang, J.-H. Cheng, J.-C. Pen, U.-L. Chen, M.-T. Chen, P. Chen, Y. Goto, T. Hashimoto, T. Hwang, Y.-J. King, S.-K. Kubo, D. Kuo, C.-Y. Mills, A. Nam, J. Oshiro, P. Shen, C.-S. Tseng, H.-C. Wang, S.-H. Wu, V.F. Bower, G. Chang, S.-H. Chen, P.-A. Chen, Y.-C. Chiang, Y.-K. Fedynitch, A. Gusinskaia, N. Ho, S.C. Hsiao, T.Y. Hu, C.-P. Huang, Y.D. Jáuregui García, J.M. Kim, S.J. Kuo, C.-Y. Ling, D.F. On, A.Y.L. Peterson, J.B. R. Raquel, B.J. Su, S.-C. Uno, Y. Wu, C.K. Yamasaki, S. Zhu, H.-M.	2022	Publications of the Astronomical Society of the Pacific	134	1039	27781	Journal	10.1088/1538-3873/ac8f71	Article
The formulation and the release of low-methoxyl pectin liquid-core beads containing an emulsion of soybean isoflavones	Chao, P.-W. Yang, K.-M. Chiang, Y.-C. Chiang, P.-Y.	2022	Food Hydrocolloids	130	-	22597	Journal	10.1016/j.foodhyd.2022.107722	Article
Voltage-dependent anion channel proteins associate with dynamic Bamboo mosaic virus-induced complexes	Lee, H.-C. Huang, Y.-P. Huang, Y.-W. Hu, C.-C. Lee, C.-W. Chang, C.-H. Lin, N.-S. Hsu, Y.-H.	2022	Plant Physiology	188	2	16615	Journal	10.1093/plphys/kiab519	Article
Induction of amphotericin B resistance in susceptible Candida auris by extracellular vesicles	Chan, W. Chow, F.W.-N. Tsang, C.-C. Liu, X. Yao, W. Chan, T.T.-Y. Siu, G.K.-H. Ho, A.Y.-M. Luk, K.S. Lau, S.K.-P. Woo, P.C.-Y.	2022	Emerging Microbes and Infections	11	1	21100232818	Journal	10.1080/22221751.2022.2098058	Article
FKBP-type peptidyl-prolyl cis-trans isomerase interacts with the movement protein of tomato leaf curl New Delhi virus and impacts viral replication in Nicotiana	Chang, H.-H. Lee, C.-H. Chang, C.-J. Jan, F.-J.	2022	Molecular Plant Pathology	23	4	19790	Journal	10.1111/mpp.13181	Article
Functionalized Cellulose Nanofibers as Crosslinkers to Produce Chitosan Self-Healing Hydrogel and Shape Memory	Juan, L.-T. Lin, S.-H. Wong, C.-W. Jeng, U.-S. Huang, C.-F. Hsu, S.-H.	2022	ACS Applied Materials and Interfaces	14	32	19700171101	Journal	10.1021/acsami.2c07170	Article
Disposal of plastic mulching film through CO ₂ -assisted catalytic pyrolysis as a strategic means for microplastic mitigation	Jung, J.-M. Cho, S.-H. Jung, S. Lin, K.-Y.A. Chen, W.-H. Tsang, Y.F. Kwon, E.E.	2022	Journal of Hazardous Materials	430	-	25858	Journal	10.1016/j.jhazmat.2022.128454	Article
Computation Offloading Game for Multi-Channel Wireless Sensor Networks	Hu, H.-C. Wang, P.-C.	2022	Sensors	22	22	130124	Journal	10.3390/s22228718	Article
Valorization of peanut wastes into a catalyst in production of biodiesel	Kim, M. Lee, D.-J. Jung, S. Chang, S.X. Lin, K.-Y.A. Bhatnagar, A. Kwon, E.E. Tsang, Y.F.	2022	International Journal of Energy Research	46	2	26676	Journal	10.1002/er.7248	Article
Mechanism insight into the photocatalytic degradation of fluoroquinolone antibiotics by the ZIF-8@Bi ₂ MoO ₆ heterojunction	Dung, N.T. Thu, L.M. Thuy, U.T.D. Thien, V.T. Thuy, N.T. Tien, N.T.C. Lin, K.A. Huy, N.N.	2022	Environmental Science: Nano	9	10	21100371216	Journal	10.1039/d2en00219a	Article
The next generation beneficial actions of novel probiotics as potential therapeutic targets and prediction tool for metabolic	Cheng, H.-L. Yen, G.-C. Huang, S.-C. Chen, S.-C. Hsu, C.-L.	2022	Journal of Food and Drug Analysis	30	1	20578	Journal	10.38212/2224-6614.3396	Review
Available Capacity Computation Model Based on Long Short-Term Memory Recurrent Neural Network for Gelled-Electrolyte Batteries in Golf Carts	Lai, C.-M. Kuo, T.-J.	2022	IEEE Access	10	-	21100374601	Journal	10.1109/ACCESS.2021.3123789	Article

Nationwide surveillance of antimicrobial resistance in invasive isolates of <i>Streptococcus pneumoniae</i> in Taiwan from 2017 to 2019	Tsai, Y.-T. Lee, Y.-L. Lu, M.-C. Shao, P.-L. Lu, P.-L. Cheng, S.-H. Ko, W.-C. Lin, C.-Y. Wu, T.-S. Yen, M.-Y. Wang, L.-S. Liu, C.-P. Lee, W.-S. Shi, Z.-Y. Chen, Y.-S. Wang, F.-D. Tseng, S.-H. Lin, C.-N. Chen, Y.-H. Sheng, W.-H. Lee, C.-M. Tang, H.-J. Lin, C.-Y. Chen, Y.-H. Hsueh, P.-R.	2022	Journal of Microbiology, Immunology and Infection	55	2	20238	Journal	10.1016/j.jmii.2021.05.008	Article
A Digital Media Subscription Management System Combined with Blockchain and Proxy Re-Encryption Mechanisms	Huang, D.-C. Liu, L.-C. Deng, Y.-Y. Chen, C.-L.	2022	Symmetry	14	10	21100201542	Journal	10.3390/sym14102167	Article
The Oncidium Ethylene Synthesis Gene Oncidium 1-Aminocyclopropane-1 Carboxylic Acid Synthase 12 and Ethylene Receptor Gene Oncidium ETR1 Affect GA-DELLA and Jasmonic Acid Signaling in Regulating Flowering Time, Anther Dehiscence, and Flower Senescence in	Huang, T.-H. Hsu, W.-H. Mao, W.-T. Yang, C.-H.	2022	Frontiers in Plant Science	13	-	21100313905	Journal	10.3389/fpls.2022.785441	Article
Dinuclear Cobalt Complexes for Homogeneous Water Oxidation: Tuning Rate and Overpotential through the Non-Innocent Ligand	Hsu, W.-C. Zeng, W.-Q. Lu, I.-C. Yang, T. Wang, Y.-H.	2022	ChemSusChem	15	21	12000154478	Journal	10.1002/cssc.202201317	Article
Inhibition of the clinical isolates of <i>Acinetobacter baumannii</i> by <i>Pseudomonas aeruginosa</i> : In vitro assessment of a case-based study	Huang, C.-W. Lin, Y.-S. Huang, W.-C. Lai, C.-C. Chien, H.-J. Hu, N.-J. Chen, J.-H.	2022	Journal of Microbiology, Immunology and Infection	55	1	20238	Journal	10.1016/j.jmii.2020.11.006	Article
Magnesium lithospermate b attenuates high-fat diet-induced muscle atrophy in c57bl/6j mice	Cheng, T.-L. Lin, Z.-Y. Liao, K.-Y. Huang, W.-C. Jhuo, C.-F. Pan, P.-H. Chen, C.-J. Kuan, Y.-H. Chen, W.-Y.	2022	Nutrients	14	1	19700188323	Journal	10.3390/nu14010104	Article
The global spread of misinformation on spiders	Mammola, S. Malumbres-Olarte, J. Arabesky, V. Barrales-Alcalá, D.A. Barrion-Dupo, A.L. Benamú, M.A.	2022	Current Biology	32	16	15537	Journal	10.1016/j.cub.2022.07.026	Article
Closer vein spacing by ectopic expression of nucleotide-binding and leucine-rich repeat proteins in rice leaves	Lo, S.-F. Chatterjee, J. Biswal, A.K. Liu, I.-L. Chang, Y.-P. Chen, P.-J. Wanchana, S. Elmido-Mabilangan, A. Nepomuceno, R.A. Bandyopadhyay, A. Hsing, Y.-I.	2022	Plant Cell Reports	41	2	16595	Journal	10.1007/s00299-021-02810-5	Article
Food Safety Assessment of Commercial Genetically Modified Soybeans in Rats	Lin, H.-Y. Liao, J.-W. Chen, R.-S. Chang, C.-H. Chang, H.-W. Chang, S.-C. Chu, W.-S. Lin, C.-K. Lin, H.-T.	2022	Foods	11	4	21100898636	Journal	10.3390/foods11040496	Article
Ornithine decarboxylase functions in both autophagy and apoptosis in response to ultraviolet B radiation injury	Liu, Y.-L. Hsiao, I.-H. Lin, Y.-H. Lin, C.-L. Jan, M.-S. Hung, H.-C. Liu, G.-Y.	2022	Journal of Cellular Physiology	237	4	23455	Journal	10.1002/jcp.30678	Article
Exploring the Effect of Spatial Ability and Learning Achievement on Learning Effect in VR Assisted Learning Environment	Chen, C.-C. Chen, L.-Y.	2022	Educational Technology and Society	25	3	18405	Journal	-	Article
Area-population control of fungus-growing termite, <i>Odontotermes formosanus</i> , using hexaflumuron durable baits	Chiu, C.-I. Chuang, Y.-H. Liang, W.-R. Yeh, H.-T. Yang, H.-Y. Tsai, M.-J. Spomer, N.A. Li, H.-F.	2022	Pest Management Science	78	1	39591	Journal	10.1002/ps.6612	Article

A new approach on visible light assisted oxygen doped g-C ₃ N ₄ /β-Bi ₂ O ₃ direct Z-scheme heterojunction towards the degradation of bisphenol A: Degradation pathway, toxicity assessment, and continuous mode study	Mahdipour, F. Rafiee, M. Kakavandi, B. Khazaei, Z. Ghanbari, F. Andrew Lin, K.-Y. Wacławek, S. Eslami, A. Bagheri, A.	2022	Separation and Purification Technology	303	-	14292	Journal	10.1016/j.seppur.2022.122171	Article
Paeonol inhibits profibrotic signaling and HOTAIR expression in fibrotic buccal mucosal fibroblasts	Ho, D.C.-Y. Chen, S.-H. Fang, C.-Y. Hsieh, C.-W. Hsieh, P.-L. Liao, Y.-W. Yu, C.-C. Tsai, L.-L.	2022	Journal of the Formosan Medical Association	121	5	27952	Journal	10.1016/j.jfma.2021.09.027	Article
Determination of temperature-dependent optimal oral doses of florfenicol and corresponding withdrawal times in Nile tilapia (<i>Oreochromis niloticus</i>) reared at 25	Rairat, T. Chen, S.-M. Lu, Y.-P. Hsu, J.C.-N. Liu, Y.-K. Chou, C.-C.	2022	Aquaculture	561	-	29419	Journal	10.1016/j.aquaculture.2022.7387	Article
Microbiome Restructuring: Dominant Coral Bacterium <i>Endozoicomonas</i> Species Respond Differentially to Environmental Changes	Tandon, K. Chiou, Y.-J. Yu, S.-P. Hsieh, H.J. Lu, C.-Y. Hsu, M.-T. Chiang, P.-W. Chen, H.-J. Wada, N. Tang, S.-L.	2022	mSystems	7	4	21100850723	Journal	10.1128/msystems.00359-22	Article
Bidirectional association between systemic lupus erythematosus and macrophage activation syndrome: A nationwide population-based study	Huang, L.-W. Wei, J.C.-C. Chen, D.-Y. Chen, Y.-J. Tang, K.-T. Ko, T.-M. Chen, H.-H.	2022	Rheumatology (United Kingdom)	61	3	19771	Journal	10.1093/rheumatology/keab502	Article
Antibiotic resistance in <i>Enterobacter hormaechei</i>	Yeh, T.-K. Lin, H.-J. Liu, P.-Y. Wang, J.-H. Hsueh, P.-R.	2022	International Journal of Antimicrobial Agents	60	4	19757	Journal	10.1016/j.ijantimicag.2022.10665	Review
Dual pretreatment of mixing H ₂ O ₂ followed by torrefaction to upgrade spent coffee grounds for fuel production and upgrade level identification of H ₂ O ₂ pretreatment	Chen, W.-H. Ho, K.-Y. Lee, K.-T. Ding, L. Andrew Lin, K.-Y. Rajendran, S. Singh, Y. Chang, J.-S.	2022	Environmental Research	215	-	21524	Journal	10.1016/j.envres.2022.114016	Article
Hollow and oval-configured ultrafine Co ₃ O ₄ as a highly-efficient activator of monopersulfate for catalytic elimination of Azorubin S	Khiem, T.C. Tuan, D.D. Kwon, E. Thanh, B.X. Tsang, Y.F. Munagapati, V.S. Wen, J.-C. Hu, C. Lin, K.-Y.A.	2022	Sustainable Environment Research	32	1	21100287109	Journal	10.1186/s42834-022-00158-3	Article
Pulsed laser deposition grown non-stoichiometry transferred ZnGa ₂ O ₄ films for deep-ultraviolet applications	Yen, C.-C. Singh, A.K. Chang, H. Chang, K.-P. Chen, P.-W. Liu, P.-L. Wu, D.-S.	2022	Applied Surface Science	597	-	28983	Journal	10.1016/j.apsusc.2022.153700	Article
Heat kernel bounds for nonlocal operators with singular kernels	Kassmann, M. Kim, K.-Y. Kumagai, T.	2022	Journal des Mathématiques Pures et Appliquées	164	-	23795	Journal	10.1016/j.matpur.2022.05.017	Article
Removal of hexavalent chromium using durian in the form of rind, cellulose, and activated carbon: Comparison on adsorption performance and economic evaluation	Sulistiyo, C.D. Cheng, K.-C. Su'andi, H.J. Yuliana, M. Hsieh, C.-W. Ismadji, S. Angkawijaya, A.E. Go, A.W. Hsu, H.Y. Tran-Nguyen, P.L. Santoso, S.P.	2022	Journal of Cleaner Production	380	-	19167	Journal	10.1016/j.jclepro.2022.135010	Article
First Results from the Taiwan Axion Search Experiment with a Haloscope at 19.6 μeV	Chang, H. Chang, J.-Y. Chang, Y.-C. Chang, Y.-H. Chang, Y.-H. Chen, C.-H. Chen, C.-F. Chen, K.-Y. Chen, Y.-F. Chiang, W.-Y. Chien, W.-C. Doan, H.T. Hung, W.-C. Kuo, W. Lai, S.-B. Liu, H.-W. Ouyang, M.-W. Wu, P.-I. Yu, S.-S.	2022	Physical Review Letters	129	11	29150	Journal	10.1103/PhysRevLett.129.111801	Article
The Roles of Epistemic Curiosity and Situational Interest in Students' Attitudinal Learning in Immersive Virtual Reality Environments	Cheng, K.-H. Lee, S.W.-Y. Hsu, Y.-T.	2022	Journal of Educational Computing Research	-	-	18874	Journal	10.1177/07356331221121284	Article

N-3 polyunsaturated fatty acids block the trimethylamine-N-oxide- ACE2- TMPRSS2 cascade to inhibit the infection of human endothelial progenitor cells by SARS-CoV-2	Chiang, E.-P.I. Syu, J.-N. Hung, H.-C. Rodriguez, R.L. Wang, W.-J. Chiang, E.-R. Chiu, S.-C. Chao, C.-Y. Tang, F.-Y.	2022	Journal of Nutritional Biochemistry	109	-	12719	Journal	10.1016/j.jnutbio.2022.109102	Article
A review on chemical precipitation in carbon capture, utilization and storage	Lin, J.-Y. Garcia, E.A. Ballesteros, F.C. Garcia-Segura, S. Lu, M.-C.	2022	Sustainable Environment Research	32	1	21100287109	Journal	10.1186/s42834-022-00155-6	Review
Two genomic regions of a sodium azide induced rice mutant confer broad-spectrum and durable resistance to blast disease	Lo, K.-L. Chen, Y.-N. Chiang, M.-Y. Chen, M.-C. Panibe, J.P. Chiu, C.-C. Liu, L.-W. Chen, L.-J. Chen, C.-W. Li, W.-H. Wang, C.-S.	2022	Rice	15	1	19500157075	Journal	10.1186/s12284-021-00547-z	Article
Optimization of Robotic Task Sequencing Problems by Crowding Evolutionary Algorithms	Chen, C.-H. Chou, F.-I. Chou, J.-H.	2022	IEEE Transactions on Systems, Man, and Cybernetics: Systems	52	11	21100262320	Journal	10.1109/TSMC.2021.3104862	Article
Biochar as a catalyst in the production of syngas and biodiesel from peanut waste	Kim, M. Jung, J.-M. Jung, S. Kim, J. Bhatnagar, A. Tsang, Y.F. Lin, K.-Y.A. Kwon, E.E.	2022	International Journal of Energy Research	46	13	26676	Journal	10.1002/er.7708	Article
Combination treatment of docetaxel with caffeic acid phenethyl ester suppresses the survival and the proliferation of docetaxel-resistant prostate cancer cells via induction of apoptosis and metabolism interference	Fu, Y.-K. Wang, B.-J. Tseng, J.-C. Huang, S.-H. Lin, C.-Y. Kuo, Y.-Y. Hour, T.-C. Chuu, C.-P.	2022	Journal of Biomedical Science	29	1	15849	Journal	10.1186/s12929-022-00797-z	Article
Severe herpes simplex and varicella-zoster viral infection in patients with solid organ transplantation: A nationwide population-based cohort study with propensity score matching analysis	Yu, T.-M. Sun, K.-T. Kung, S.-C. Lee, B.K. Wu, M.-J. Chen, C.-H. Sun, C.-S. Lo, Y.-C. Lan, T.-H. Li, C.-Y. Chiu, T.-F. Lin, M.-C. Kao, C.-H.	2022	Journal of the American Academy of Dermatology	87	2	24245	Journal	10.1016/j.jaad.2021.10.016	Article
Prenatal and early life exposure to air pollution and the incidence of Kawasaki	Kuo, N.-C. Lin, C.-H. Lin, M.-C.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-07081-y	Article
Adaptive Advertising Interval for Electronic Shelf Label System Based on Bluetooth Low Energy	Tseng, H.-W. Kao, H. Kuo, C.-F.	2022	IEEE Sensors Journal	22	12	15047	Journal	10.1109/JSEN.2022.3172405	Article
Flexoelectric Domain Walls Originated from Structural Phase Transition in Epitaxial BiVO4 Films	Shao, P.-W. Liu, H.-J. Sun, Y. Wu, M. Peng, R.-C. Wang, M. Xue, F. Cheng, X. Su, L. Gao, P. Yu, P. Chen, L.-Q. Pan, X. Ivry, Y. Chen, Y.-C. Chu, Y.-H.	2022	Small	18	19	3200147828	Journal	10.1002/sml.202107540	Article
CHK2 activation contributes to the development of oxaliplatin resistance in colorectal cancer	Hsieh, C.-C. Hsu, S.-H. Lin, C.-Y. Liaw, H.-J. Li, T.-W. Jiang, K.-Y. Chiang, N.-J. Chen, S.-H. Lin, B.-W. Chen, P.-C. Chan, R.-H. Lin, P.-C. Yeh, Y.-M. Shen, C.-H.	2022	British Journal of Cancer	127	9	28770	Journal	10.1038/s41416-022-01946-9	Article
GPU-accelerated study of the inertial cavitation threshold in viscoelastic soft tissue using a dual-frequency driving signal	Filonets, T. Solovchuk, M.	2022	Ultrasonics Sonochemistry	88	-	13517	Journal	10.1016/j.ultsonch.2022.106056	Article
Comparing survival between neoadjuvant chemoradiotherapy followed by open or thoracoscopic oesophagectomy in patients with oesophageal squamous cell carcinoma	Chen, H.-S. Lin, C.-H. Wu, S.-C. Wang, B.-Y.	2022	European Journal of Cardiothoracic Surgery	62	2	23185	Journal	10.1093/ejcts/ezac114	Article
Potential of Piperidine-Co3O4 nanoparticles as high-performance photocatalysts for the removal of industrial dyes	Kumar, S. Kaur, G. Rawat, M. Tsang, Y.F. Lin, K.-Y. Kim, K.-H.	2022	Journal of Cleaner Production	361	-	19167	Journal	10.1016/j.jclepro.2022.132242	Article
r-Reference points based k-means algorithm	Wang, C.-L. Chan, Y.-K. Chu, S.-W. Yu, S.-S.	2022	Information Sciences	610	-	15134	Journal	10.1016/j.ins.2022.07.166	Article

A single promoter-TALE system for tissue-specific and tuneable expression of multiple genes in rice	Danila, F. Schreiber, T. Ermakova, M. Hua, L. Vlad, D. Lo, S.-F. Chen, Y.-S. Lambret-Frotte, J. Hermanns, A.S. Athmer, B. von Caemmerer, S. Yu, S.-M. Hibberd, J.M. Tissier, A. Furbank, R.T. Kelly, S. Langdale, J.A.	2022	Plant Biotechnology Journal	20	9	16592	Journal	10.1111/pbi.13864	Article
Tunable antireflective characteristics enabled by small yellow leafhopper-inspired soccer ball-shaped structure arrays	Chen, H.-Y. Chiang, K.-T. Ye, Y.-Z. Lin, K.-Y.A. Yang, H.	2022	Journal of the Taiwan Institute of Chemical Engineers	136	-	13900154734	Journal	10.1016/j.jtice.2022.104407	Article
RamAp Is an Efflux Pump Regulator Carried by an IncHI2 Plasmid	Hong, Y.-P. Wang, Y.-W. Chen, B.-H. Song, H.-Y. Chiou, C.-S. Chen, Y.-T.	2022	Antimicrobial Agents and Chemotherapy	66	1	19615	Journal	10.1128/AAC.01152-21	Article
Improving Discovery Process Toward User Engagement Based on Advertising Extensions in Bluetooth Low Energy	Yang, T.-T. Tseng, H.-W.	2022	IEEE Transactions on Mobile Computing	21	9	25038	Journal	10.1109/TMC.2021.3054931	Article
Staggered intercalation of DNA duplexes with base-pair modulation by two distinct drug molecules induces asymmetric backbone twisting and structure	Satange, R. Kao, S.-H. Chien, C.-M. Chou, S.-H. Lin, C.-C. Neidle, S. Hou, M.-H.	2022	Nucleic acids research	50	15	14204	Journal	10.1093/nar/gkac629	Article
Synergistic effect of Cu and Ru decoration on g-C3N4 for electrocatalytic CO2	Hu, C. Liu, M.-T. Sakai, A. Yoshida, M. Lin, K.-Y.A. Huang,	2022	Journal of Industrial and Engineering Chemistry	115	-	144861	Journal	10.1016/j.jiec.2022.08.015	Article
New Asynchronous Channel-Hopping Sequences for Cognitive-Radio Wireless Networks	Yang, L.-H. Yang, G.-C. Kwong, W.C.	2022	IEEE Transactions on Cognitive Communications and Networking	8	2	21100854831	Journal	10.1109/TCCN.2022.3153076	Article
Cadmium induces the expression of Interleukin-6 through Heme Oxygenase-1 in HK-2 cells and Sprague-Dawley rats	Ou, Y.-C. Li, J.-R. Wu, C.-C. Yu, T.-M. Chen, W.-Y. Liao, S.-L. Kuan, Y.-H. Chen, Y.-F. Chen, C.-J.	2022	Food and Chemical Toxicology	161	-	25096	Journal	10.1016/j.fct.2022.112846	Article
Continuous low surface tension and high viscosity two phases liquid separation	Wang, X.-L. Ni, C.-H. Chang, J.-W. Chiang, Y.-Y.	2022	Sensors and Actuators B: Chemical	365	-	25236	Journal	10.1016/j.snb.2022.131957	Article
Multimorbidity patterns and their relationships with incident disability and frailty among older adults in Taiwan: A 16-year, population-based cohort study	Ho, H.-E. Yeh, C.-J. Wei, J.C.-C. Chu, W.-M. Lee, M.-C.	2022	Archives of Gerontology and Geriatrics	101	-	28541	Journal	10.1016/j.archger.2022.104688	Article
Risk of inflammatory bowel disease in uveitis patients: a population-based cohort	Lo, T.-C. Chen, Y.-Y. Chen, H.-H.	2022	Eye (Basingstoke)	36	6	13867	Journal	10.1038/s41433-021-01645-4	Article
Codification and description of the phenological growth stages of red-fleshed pitaya (Hylocereus polyrhizus) using the extended BBCH scale- with special reference to spines, areole, and flesh color development under field conditions	Chu, Y.-C. Chang, J.-C.	2022	Scientia Horticulturae	293	-	26751	Journal	10.1016/j.scienta.2021.110752	Article
Feasibility of substituting old corrugated carton pulp with thermal alkali and enzyme pretreated semichemical mechanical rice	Lai, Y.-H. Sun, H.-C. Chang, M.-H. Li, C.-C. Shyu, J.-G. Perng, Y.-S.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-07482-z	Article
Isolation and label-free detection of circulating tumour cells by fluidic diffraction chips with a reflective laser beam system	Lin, F.-P. Hsu, H.-L. Chang, C.-J. Lu, C.-H. Chen, J.-K.	2022	Chemical Engineering Journal	436	-	16398	Journal	10.1016/j.cej.2022.135206	Article
The MicroRNA-signaling-peroxisome proliferator-activated receptor gamma connection in the modulation of adipogenesis: bioinformatics projection on	Huang, C.-J. Choo, K.B. Chen, C.-F.	2022	Poultry Science	101	8	36431	Journal	10.1016/j.psj.2022.101950	Review

Kefir peptides ameliorate osteoporosis in AKR1A1 knockout mice with vitamin C deficiency by promoting osteoblastogenesis and inhibiting osteoclastogenesis	Chang, G.R.-L. Lin, W.-Y. Fan, H.-C. Tu, M.-Y. Liu, Y.-H. Yen, C.-C. Cidem, A. Chen, W. Chen, C.-M.	2022	Biomedicine and Pharmacotherapy	156	-	28620	Journal	10.1016/j.biopha.2022.113859	Article
Estimation of soil depth in the Liukuei Experimental Forest by using conceptual model	Wu, S.-W. Lin, C.-Y. Sun, M.-Y. Lu, S.-Y.	2022	Catena	209	-	25155	Journal	10.1016/j.catena.2021.105839	Article
The effect of inhaled corticosteroids on the outcomes of patients with COVID-19: A systematic review and meta-analysis of randomized controlled trials	Chen, C.-H. Wang, C.-Y. Wang, Y.-H. Chen, C.-Y. Chen, K.-H. Lai, C.-C. Wei, Y.-F. Fu, P.-K.	2022	Expert Review of Clinical Pharmacology	15	5	10300153301	Journal	10.1080/17512433.2022.2094769	Article
Producing medium-chain-length polyhydroxyalkanoate from diverse feedstocks by deregulating unsaturated fatty acid biosynthesis in Escherichia coli	Zhuo, X.-Z. Chou, S.-C. Li, S.-Y.	2022	Bioresource Technology	365	-	15423	Journal	10.1016/j.biortech.2022.128078	Article
Many-Objective Adaptive Fuzzy With Sliding Mode Control for a Class of Switching Power Converters Using Global	Chen, C.-L.	2022	IEEE Access	10	-	21100374601	Journal	10.1109/ACCESS.2022.3144836	Article
Allantoin ameliorates amyloid β -peptide-induced memory impairment by regulating the PI3K/Akt/GSK-3 β signaling pathway in	Tzeng, C.-Y. Lee, W.-S. Liu, K.-F. Tsou, H.-K. Chen, C.-J. Peng, W.-H. Tsai, J.-C.	2022	Biomedicine and Pharmacotherapy	153	-	28620	Journal	10.1016/j.biopha.2022.113389	Article
Utilisation of Oxford Nanopore sequencing to generate six complete gastropod mitochondrial genomes as part of a biodiversity curriculum	De Vivo, M. Lee, H.-H. Huang, Y.-S. Dreyer, N. Fong, C.-L. de Mattos, F.M.G. Jain, D. Wen, Y.-H.V. Mwhiki, J.K. Wang, T.-Y. Machida, R.J. Wang, J. Chan, B.K.K. Tsai, I.J.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-14121-0	Article
Moisture retention of glycerin solutions with various concentrations: a comparative study	Chen, H.J. Lee, P.Y. Chen, C.Y. Huang, S.L. Huang, B.W. Dai, F.J. Chau, C.F. Chen, C.S. Lin, Y.S.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-13452-2	Article
Association of SGLT2 inhibitors with lower incidence of death in type 2 diabetes mellitus and causes of death analysis	Chung, M.-C. Hsu, H.-T. Chang, C.-H. Hung, P.-H. Hsiao, P.-J. Wu, L.-Y. Wu, M.-J. Shieh, J.-J. Chung, C.-J.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-13760-7	Article
Water-Insensitive Electron Transport and Photoactive Layers for Improved Underwater Stability of Organic Photovoltaics	Lin, C.-T. Hsieh, C.-T. Macdonald, T.J. Chang, J.-F. Lin, P.-C. Cha, H. Steier, L. Wadsworth, A. McCulloch, I. Chueh, C.-C. Durrant,	2022	Advanced Functional Materials	32	40	25143	Journal	10.1002/adfm.202203487	Article
The Evaluation of Color Spaces for Large Woody Debris Detection in Rivers Using XGBoost Algorithm	Liang, M.-C. Tfwala, S.S. Chen, S.-C.	2022	Remote Sensing	14	4	86430	Journal	10.3390/rs14040998	Article
Energy stable arbitrary Lagrangian Eulerian finite element scheme for simulating flow dynamics of droplets on non-homogeneous surfaces	Ivančić, F. Solovchuk, M.	2022	Applied Mathematical Modelling	108	-	28065	Journal	10.1016/j.apm.2022.03.018	Article
Silver Cyanide Powder-Catalyzed Selective Epoxidation of Cyclohexene and Styrene with its Surface Activation by H ₂ O ₂ (aq) and Assisted by CH ₃ CN as a Non-Innocent Solvent	Lu, Y.-J. Janmanchi, D. Natarajan, T. Lin, Z.-H. Wanna, W.H. Hsu, I.-J. Tzou, D.-L.M. Ayalew Abay, T. Yu, S.S.F.	2022	ChemCatChem	14	13	19900191733	Journal	10.1002/cctc.202200030	Article
IbTLD modulates reactive oxygen species scavenging and DNA protection to confer salinity stress tolerance in tobacco	Chen, T.-C. Chou, S.-Y. Chen, M.-C. Lin, J.-S.	2022	Plant Science	323	-	16620	Journal	10.1016/j.plantsci.2022.111415	Article

Electromyography Parameter Variations with Electrocardiography Noise	Chang, K.-M. Liu, P.-T. Wei, T.-S.	2022	Sensors	22	16	130124	Journal	10.3390/s22165948	Article
Reducing Contact Time of Droplets Impacting Superheated Hydrophobic	Huang, C.-T. Lo, C.-W. Lu, M.-C.	2022	Small	18	13	3200147828	Journal	10.1002/sml.202106704	Article
A Weighted Portfolio Optimization Model Based on the Trend Ratio, Emotion Index, and ANGQTS	Chou, Y.-H. Jiang, Y.-C. Hsu, Y.-R. Kuo, S.-Y. Kuo, S.-Y.	2022	IEEE Transactions on Emerging Topics in Computational Intelligence	6	4	21100976672	Journal	10.1109/TETCI.2021.3118041	Article
Effects of rice straw fermented with spent Pleurotus sajor-caju mushroom substrates on milking performance in Alpine dairy goats	Fan, G.-J. Chen, M.-H. Lee, C.-F. Yu, B. Lee, T.-T.	2022	Animal Bioscience	35	7	21101044876	Journal	10.5713/ab.21.0340	Article
Reversible Charge-Polarity Control for Multioperation-Mode Transistors Based on van der Waals Heterostructures	Chen, C.-F. Yang, S.-H. Lin, C.-Y. Lee, M.-P. Tsai, M.-Y. Yang, F.-S. Chang, Y.-M. Li, M. Lee, K.-C. Ueno, K. Shi, Y. Lien, C.-H. Wu, W.-W. Chiu, P.-W. Li, W. Lo, S.-T. Lin, Y.-F.	2022	Advanced Science	9	24	21100470165	Journal	10.1002/advs.202106016	Article
Application of low-solubility dolomite as seed material for phosphorus recovery from synthetic wastewater using fluidized-bed crystallization (FBC) technology	Ha, T.-H. Mahasti, N.N.N. Lu, M.-C. Huang, Y.-H.	2022	Separation and Purification Technology	303	-	14292	Journal	10.1016/j.seppur.2022.122192	Article
A Fuzzy Neural Network Model for Rapid Prediction of Optimal Positive Airway Pressures in OSAS Patients	Juang, C.-F. Pan, G.-R. Wen, C.-Y. Chang, K.-M. Wu, M.-F. Huang, W.-C.	2022	IEEE Journal of Biomedical and Health Informatics	26	4	21100256982	Journal	10.1109/JBHI.2021.3120662	Article
Comparative cost-benefit analysis of four retrieval systems with preventive maintenance and unreliable service station	Wang, K.-H. Wu, C.-H. Yen, T.-C.	2022	Reliability Engineering and System Safety	221	-	13853	Journal	10.1016/j.res.2022.108342	Article
Causal effect of tourist visa exemption schemes on international tourist arrivals	Chi, P.-Y. Lee, K.-C. Chang, K.-I.	2022	Economic Analysis and Policy	75	-	5800191435	Journal	10.1016/j.eap.2022.06.003	Article
A variant NS1 protein from H5N2 avian influenza virus suppresses PKR activation and promotes replication and virulence in mammals	Chung, Y.-T. Kuan, C.-Y. Liao, G.-R. Albrecht, R.A. Tseng, Y.-Y. Hsu, Y.-C. Ou, S.-C. Hsu, W.-L.	2022	Emerging Microbes and Infections	11	1	21100232818	Journal	10.1080/22221751.2022.2114853	Article
Genetic and Biochemical Characterization of Halogenation and Drug Transportation Genes Encoded in the Albofungin Biosynthetic Gene Cluster	Wang, Z.-C. Lo, I.-W. Lin, K.-H. Cheng, A.N. Zadeh, S.M. Huang, Y.-H. Li, T.-L.	2022	Applied and Environmental Microbiology	88	17	19618	Journal	10.1128/aem.00806-22	Article
Selenium Yeast and Fish Oil Combination Diminishes Cancer Stem Cell Traits and Reverses Cisplatin Resistance in A549 Sphere Cells	Lai, I.-C. Liao, C.-H. Hu, M.-H. Chang, C.-L. Lai, G.-M. Chiou, T.-J. Hsia, S. Tsai, W.-L. Lin, Y.-Y. Chuang, S.-E. Whang-Peng, J. Chen, H.-Y. Yao, C.-J.	2022	Nutrients	14	15	19700188323	Journal	10.3390/nu14153232	Article
One-pot green reduction and surface decoration of graphene oxide nanosheets with PEGylated chitosan for application in cancer photothermal therapy	Jhang, J.-W. Chou, Y.-H. Wang, T.-H. Hsieh, M.-H. Chiang, W.-H.	2022	Journal of the Taiwan Institute of Chemical Engineers	134	-	13900154734	Journal	10.1016/j.jtice.2022.104359	Article
THIAMIN REQUIRING2 is involved in thiamin diphosphate biosynthesis and homeostasis	Hsieh, W.-Y. Wang, H.-M. Chung, Y.-H. Lee, K.-T. Liao, H.-S. Hsieh, M.-H.	2022	Plant Journal	111	5	16612	Journal	10.1111/tpj.15895	Article
Natural Variation in Vitamin B1 and Vitamin B6 Contents in Rice Germplasm	Mangel, N. Fudge, J.B. Gruissem, W. Fitzpatrick, T.B. Vanderschuren, H.	2022	Frontiers in Plant Science	13	-	21100313905	Journal	10.3389/fpls.2022.856880	Article

Mitochondrial activity is the key to the protective effect of β -Lapachone, a NAD ⁺ booster, in healthy cells against cisplatin cytotoxicity	Lin, S.-Y. Syu, J.-P. Lo, Y.-T. Chau, Y.-P. Don, M.-J. Shy, H.-T. Lai, S.-M. Kung, H.-N.	2022	Phytomedicine	101	-	17067	Journal	10.1016/j.phymed.2022.154094	Article
Analysis of landslide occurrence time via rainfall intensity and soil water index ternary diagram	Liu, Y.-J. Chiu, Y.-Y. Tsai, F.T.-C. Chen, S.-C.	2022	Landslides	19	12	145210	Journal	10.1007/s10346-022-01944-1	Article
Coenzyme Q10 Supplementation Increases Removal of the ATXN3 Polyglutamine Repeat, Reducing Cerebellar Degeneration and Improving Motor Dysfunction in Murine Spinocerebellar Ataxia Type 3	Wu, Y.-L. Chang, J.-C. Sun, H.-L. Cheng, W.-L. Yen, Y.-P. Lin, Y.-S. Chao, Y.-C. Liu, K.-H. Huang, C.-S. Liu, K.-L. Liu, C.-S.	2022	Nutrients	14	17	19700188323	Journal	10.3390/nu14173593	Article
Exploring farmland ecology to assess habitat suitability for birds	Wu, C.-F. Wu, Y.-T. Chen, S.-H. Thong Trac, L. V.	2022	Ecological Indicators	142	-	20292	Journal	10.1016/j.ecolind.2022.109244	Article
Generalized simple model for predicting the modulus degradation and strain accumulation of clay subject to long-term undrained cyclic loading	Tsai, C.-C.	2022	Ocean Engineering	254	-	28339	Journal	10.1016/j.oceaneng.2022.111412	Article
Store brand introduction, retail competition and manufacturers' coping strategies	Hsiao, L. Xiong, H.	2022	Transportation Research Part E: Logistics and Transportation Review	165	-	20909	Journal	10.1016/j.tre.2022.102861	Article
A Large Payload Data Hiding Scheme Using Scalable Secret Reference Matrix	Lin, J. Tsai, C.-W. Yang, C.-W. Liu, K.-H.	2022	Symmetry	14	4	21100201542	Journal	10.3390/sym14040828	Article
Identification of an emerging cucumber virus in Taiwan using Oxford nanopore sequencing technology	Dong, Z.-X. Lin, C.-C. Chen, Y.-K. Chou, C.-C. Chen, T.-C.	2022	Plant Methods	18	1	6400153153	Journal	10.1186/s13007-022-00976-x	Article
Total Synthesis of (\pm)-Fasicularin through Double Consecutive Epimerizations	Wang, Y.-T. Wu, J.-L. Chiou, W.-H.	2022	Organic Letters	24	32	26396	Journal	10.1021/acs.orglett.2c02225	Article
The physicochemical properties and the release of sodium caseinate/ polysaccharide gum chlorophyll multiple-layer particles by rotary side-spray fluid bed technology	Yang, Z.-S. Song, H.-Y. Yang, K.-M. Chiang, P.-Y.	2022	Food Chemistry	394	-	24039	Journal	10.1016/j.foodchem.2022.133442	Article
Detection of heavy metal ion using photonic crystals of polymer brushes with reflective laser beam system	Chou, P.-C. Chen, S.-H. Chang, C.-J. Lu, C.-H. Chen, J.-K.	2022	Applied Surface Science	585	-	28983	Journal	10.1016/j.apsusc.2022.152718	Article
Nanoarchitectonics with lead sulfide quantum dots for room-temperature real-time ozone trace detection with different light	Kumar, U. Li, Y.-N. Deng, Z.-Y. Chiang, P.-C. Yadav, B.C. Wu, C.-H.	2022	Journal of Alloys and Compounds	926	-	12325	Journal	10.1016/j.jallcom.2022.166828	Article
Blue LED-Mediated Syntheses of Arylazo Phosphine Oxides and Phosphonates via N-P Bond Formation	Shen, B.-R. Annamalai, P. Bai, R. Badsara, S.S. Lee, C.-F.	2022	Organic Letters	24	32	26396	Journal	10.1021/acs.orglett.2c02251	Article
Multi-Target PIR Indoor Localization and Tracking System with Artificial Intelligence	Chen, X.-Y. Wen, C.-Y. Sethares, W.A.	2022	Sensors	22	23	130124	Journal	10.3390/s22239450	Article
A detailed study of ion transport through the SARS-CoV-2 E protein ion channel	Saurabh, K. Solovchuk, M. Sheu, T.W.	2022	Nanoscale	14	23	19700173215	Journal	10.1039/d2nr01385a	Article
Regulation of mitochondrial fusion and mitophagy by intra-tumoral delivery of membrane-fused mitochondria or Midiv-1 enhances sensitivity to doxorubicin in triple-negative breast cancer	Chang, J.-C. Chang, H.-S. Yeh, C.-Y. Chang, H.-J. Cheng, W.-L. Lin, T.-T. Liu, C.-S. Chen, S.-T.	2022	Biomedicine and Pharmacotherapy	153	-	28620	Journal	10.1016/j.biopha.2022.113484	Article

Optimization of hydrogen enrichment via palladium membrane in vacuum environments using Taguchi method and normalized regression analysis	Chen, W.-H. Chen, K.-H. Chein, R.-Y. Ong, H.C. Arunachalam, K.D.	2022	International Journal of Hydrogen Energy	47	100	26991	Journal	10.1016/j.ijhydene.2022.01.060	Article
Aerial Imagery Can Detect Nitrogen Fertilizer Effects on Biomass and Stand Health of <i>Miscanthus × giganteus</i>	Namoi, N. Jang, C. Robins, Z. Lin, C.-H. Lim, S.-H. Voigt, T. Lee, D.	2022	Remote Sensing	14	6	86430	Journal	10.3390/rs14061435	Article
Life span of a landslide dam on mountain valley caught on seismic signals and its possible early warnings	Yang, C.-M. Chang, J.-M. Hung, C.-Y. Lu, C.-H. Chao, W.-A. Kang, K.-H.	2022	Landslides	19	3	145210	Journal	10.1007/s10346-021-01818-y	Article
Environmental indicators combined with conceptual models to assess the spatial distribution of carbon storages in the Liukui Experimental Forest in southern Taiwan	Lin, C.-Y. Wang, S.-M. Wu, S.-W. Tseng, C.-W. Chen, T.-Y.	2022	Ecological Indicators	137	-	20292	Journal	10.1016/j.ecolind.2022.108724	Article
Characterization of effective phytochemicals in traditional Chinese medicine by mass spectrometry	Chen, C.-Y. Li, Y.-H. Li, Z. Lee, M.-R.	2022	Mass Spectrometry Reviews	-	-	12229	Journal	10.1002/mas.21782	Review
Functional divergence of a pair of Arabidopsis phospho-base methyltransferases, PMT1 and PMT3, conferred by distinct N-terminal sequences	Liu, Y.-C. Tan, Y.-R. Chang, C.-W. Nguyen, V.C. Kanehara, K. Kobayashi, K. Nakamura, Y.	2022	Plant Journal	110	4	16612	Journal	10.1111/tpj.15741	Article
Microbial polyketides and their roles in insect virulence: from genomics to biological functions	Toopaang, W. Bunnak, W. Srisuksam, C. Wattananukit, W. Tanticharoen, M. Yang, Y.-L. Amnuaykanjanasin, A.	2022	Natural Product Reports	39	11	26371	Journal	10.1039/d1np00058f	Review
A stochastic model of geomorphic risk due to episodic river aggradation and degradation	Chen, T.-Y.K. Hung, C.-Y. Chiang, Y.-C. Hsieh, M.-L. Capart, H.	2022	Engineering Geology	309	-	15648	Journal	10.1016/j.enggeo.2022.106845	Article
Prototypical leaders reinforce efficacy beliefs: How and when leader–leader exchange relates to team effectiveness	Zhang, S. Hu, J. Chuang, C.-H. Chiao, Y.-C.	2022	Journal of Organizational Behavior	43	6	30020	Journal	10.1002/job.2614	Article
To exclude or not to exclude? The effect of protest responses on the economic value of an iconic urban heritage tree	Liu, W.-Y. Chuang, Y.-C.	2022	Urban Forestry and Urban Greening	71	-	145301	Journal	10.1016/j.ufug.2022.127551	Article
Geographic patterns of global isolates of carbapenem-resistant <i>Klebsiella pneumoniae</i> and the activity of ceftazidime/avibactam, meropenem/vaborbactam, and comparators against these isolates: Results from the Antimicrobial Testing Leadership and Surveillance (ATLAS) program, 2020	Lee, Y.-L. Ko, W.-C. Hsueh, P.-R.	2022	International Journal of Antimicrobial Agents	60	5-6	19757	Journal	10.1016/j.ijantimicag.2022.10667	Article
<i>Bacillus amyloliquefaciens</i> and <i>Saccharomyces cerevisiae</i> feed supplements improve growth performance and gut mucosal architecture with modulations on cecal microbiota in red-feathered native	Lee, T.-T. Chou, C.-H. Wang, C. Lu, H.-Y. Yang, W.-Y.	2022	Animal Bioscience	35	6	21101044876	Journal	10.5713/ab.21.0318	Article
NbNAC42 and NbZFP3 Transcription Factors Regulate the Virus Inducible NbAGO5 Promoter in <i>Nicotiana</i>	Ke, Y.-D. Huang, Y.-W. Viswanath, K.K. Hu, C.-C. Yeh, C.-M. Mitsuda, N. Lin, N.-S. Hsu, Y.-H.	2022	Frontiers in Plant Science	13	-	21100313905	Journal	10.3389/fpls.2022.924482	Article
ZIF-8/styrene-IL polymerization hollow fiber membrane for improved CO ₂ /N ₂ separation	Lai, W.-H. Wang, D.K. Wey, M.-Y. Tseng, H.-H.	2022	Journal of Cleaner Production	372	-	19167	Journal	10.1016/j.jclepro.2022.133785	Article
Bridge Crack Inspection Efficiency of an Unmanned Aerial Vehicle System with a Laser Ranging Module	Kao, S.-P. Wang, F.-L. Lin, J.-S. Tsai, J. Chu, Y.-D. Hung, P.-S.	2022	Sensors	22	12	130124	Journal	10.3390/s22124469	Article

A multiple phenotype imputation method for genetic diversity and core collection in Taiwanese vegetable soybean	Huang, Y.-H. Ku, H.-M. Wang, C.-A. Chen, L.-Y. He, S.-S. Chen, S. Liao, P.-C. Juan, P.-Y. Kao, C.-F.	2022	Frontiers in Plant Science	13	-	21100313905	Journal	10.3389/fpls.2022.948349	Article
Weather fluctuation can override the effects of integrated nutrient management on fungal disease incidence in the rice fields in Taiwan	Chiu, M.-C. Chen, C.-L. Chen, C.-W. Lin, H.-J.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-08139-7	Article
Tumor acidity-responsive polymeric nanoparticles to promote intracellular delivery of zoledronic acid by PEG detachment and positive charge exposure for enhanced antitumor potency	Chou, Y.-H. Liu, Y.-L. Hsu, T.-C. Yow, J.-L. Tzang, B.-S. Chiang, W.-H.	2022	Journal of Materials Chemistry B	10	23	21100229202	Journal	10.1039/d2tb00695b	Article
Study of synergy of monoethanolamine and urea on copper corrosion inhibition in alkaline solution	Chang, H.-D. Wu, B.-E. Chandra Sil, M. Yang, Z.-H. Chen, C.-M.	2022	Journal of Molecular Liquids	359	-	26965	Journal	10.1016/j.molliq.2022.119344	Article
Metal-Ion-Induced Mechanical Chirality: Achiral Rotaxane as the only Ligand in Chiral Palladium(II)-N-Heterocyclic Carbene Complexes	Cho, H.-L. Lai, C.-C. Liu, Y.-H. Hsu, H.-F. Peng, S.-M. Chiu, S.-H.	2022	Organic Letters	24	10	26396	Journal	10.1021/acs.orglett.2c00426	Article
Implicit sentiment analysis based on multi-feature neural network model	Zhuang, Y. Liu, Z. Liu, T.-T. Hung, C.-C. Chai, Y.-J.	2022	Soft Computing	26	2	28554	Journal	10.1007/s00500-021-06486-7	Article
The importance of Arabidopsis PHOSPHOLIPID N-METHYLTRANSFERASE in glycerolipid metabolism and plant growth	Tan, Y.-R. Nakamura, Y.	2022	Journal of Experimental Botany	73	9	19210	Journal	10.1093/jxb/erac049	Article
Maintenance metronomic chemotherapy for metastatic/recurrent nasopharyngeal carcinoma	Twu, C.-W. Lin, P.-J. Tsou, H.-H. Liu, Y.-C. Jiang, R.-S. Liang, K.-L. Lin, T.-Y. Wang, W.-Y. Lin, J.-C.	2022	Head and Neck	44	6	11000153737	Journal	10.1002/hed.27044	Article
Synthesis of multifunctional poly(carbamoyl ester)s containing dual-cleavable linkages and an AIE luminogen via Passerini-type multicomponent polymerization	Chou, L.-C. Mohamed, M.G. Kuo, S.-W. Nakamura, Y. Huang, C.-F.	2022	Chemical Communications	58	88	22781	Journal	10.1039/d2cc03829c	Article
Revival Duration and Determinants of ASEAN Machinery Trade During COVID-19 Pandemic and the Global Financial Crisis	Chang, C.-L. Wang, Y.-H. Chang, K.-I.	2022	Emerging Markets Finance and Trade	-	-	27748	Journal	10.1080/1540496X.2022.212875	Article
Low water availability enhances volatile-mediated direct defences but disturbs indirect defences against herbivores	Lin, P.-A. Paudel, S. Bin Zainuddin, N. Tan, C.-W. Helms, A. Ali, J.G. Felton, G.W.	2022	Journal of Ecology	110	11	29602	Journal	10.1111/1365-2745.13987	Article
The phospho-base N-methyltransferases PMT1 and PMT2 produce phosphocholine for leaf growth in phosphorus-starved	Ngo, A.H. Angkawijaya, A.E. Lin, Y.-C. Liu, Y.-C. Nakamura, Y.	2022	Journal of Experimental Botany	73	9	19210	Journal	10.1093/jxb/erab436	Article
Use of sewage sludge biochar as a catalyst in production of biodiesel through thermally induced transesterification	Jung, S. Kim, M. Kim, Y.-H. Lin, K.-Y.A. Chen, W.-H. Tsang, Y.F. Kwon, E.E.	2022	Biochar	4	1	21101049099	Journal	10.1007/s42773-022-00194-7	Article
A Case Study of the Adaptive Learning Platform in a Taiwanese Elementary School: Precision Education from Teachers' Perspectives	Liu, T.C.	2022	Education and Information Technologies	27	5	144955	Journal	10.1007/s10639-021-10851-2	Article
Origin and Evolution of Nitrogen Fixation in Prokaryotes	Pi, H.-W. Lin, J.-J. Chen, C.-A. Wang, P.-H. Chiang, Y.-R. Huang, C.-C. Young, C.-C. Li, W.-H.	2022	Molecular biology and evolution	39	9	12216	Journal	10.1093/molbev/msac181	Article
A Novel Hypercube-Based Heuristic for Quantum Boolean Circuit Synthesis	Jiang, Y.-C. Tseng, K.-C. Hua, C.-Y. Kuo, S.-Y. Chou, Y.-H. Kuo, S.-Y.	2022	IEEE Journal on Emerging and Selected Topics in Circuits and Systems	12	3	19700201678	Journal	10.1109/JETCAS.2022.3202840	Article

From mining to meaning: How B2B marketers can leverage text to inform strategy	Tsao, H.-Y. Campbell, C. Sands, S. Mavrommatis, A.	2022	Industrial Marketing Management	106	-	22792	Journal	10.1016/j.indmarman.2022.08.00	Article
MnO2 nanoparticle encapsulated in polyelectrolytic hybrids from alkyl functionalized carboxymethyl cellulose and azide functionalized gelatin to treat tumors by photodynamic therapy and photothermal therapy	Thankachan, D. Anbazhagan, R. Krishnamoorthi, R. Tsai, H.C. Gebrie, H.T. Darge, H.F. Lu, C.-H. Chen, J.-K.	2022	Journal of the Taiwan Institute of Chemical Engineers	139	-	13900154734	Journal	10.1016/j.jtice.2022.104503	Article
DNN-kWTA With Bounded Random Offset Voltage Drifts in Threshold Logic Units	Lu, W. Leung, C.-S. Sum, J. Xiao, Y.	2022	IEEE Transactions on Neural Networks and Learning Systems	33	7	21100235616	Journal	10.1109/TNNLS.2021.3050493	Article
Oncolytic avian reovirus σ A-modulated fatty acid metabolism through the PSMB6/Akt/SREBP1/acetyl-CoA carboxylase pathway to increase energy production for virus replication	Hsu, C.-Y. Chen, Y.-H. Huang, W.-R. Huang, J.-W. Chen, I.-C. Chang, Y.-K. Wang, C.-Y. Chang, C.-D. Liao, T.-L. Nielsen, B.L. Liu, H.-J.	2022	Veterinary Microbiology	273	-	20882	Journal	10.1016/j.vetmic.2022.109545	Article
Case study of large-scale levee failures induced by cyclic softening of clay during the 2016 Meinong earthquake	Tsai, C.-C. Yang, Z.-X. Chung, M.-H. Hsu, S.-Y.	2022	Engineering Geology	297	-	15648	Journal	10.1016/j.enggeo.2022.106518	Article
Energy recovery from banner waste through catalytic pyrolysis over cobalt oxide: Effects of catalyst configuration	Park, C. Lin, K.-Y.A. Kwon, E.E. Lee, J. Park, Y.-K.	2022	International Journal of Energy Research	46	13	26676	Journal	10.1002/er.8531	Article
The function of chloroplast ferredoxin-NADP ⁺ oxidoreductase positively regulates the accumulation of bamboo mosaic virus in <i>Nicotiana benthamiana</i>	Chen, I.-H. Chen, X.-Y. Chiu, G.-Z. Huang, Y.-P. Hsu, Y.-H. Tsai, C.-H.	2022	Molecular Plant Pathology	23	4	19790	Journal	10.1111/mpp.13174	Article
Effective topical treatments using innovative NNO-tridentate vanadium(IV) complexes-mediated photodynamic therapy in a psoriasis-like mouse model	Lin, R.-K. Venkatesan, P. Yeh, C.-H. Chien, C.-M. Lin, T.-S. Lin, C.-C. Lin, C.-C. Lai, P.-S.	2022	Journal of Materials Chemistry B	10	25	21100229202	Journal	10.1039/d2tb00344a	Article
Characterization of exopolysaccharide-producing lactic acid bacteria from Taiwanese ropy fermented milk and their application in low-fat fermented milk	Ng, K.-S. Chang, Y.-C. Chen, Y.-P. Lo, Y.-H. Wang, S.-Y. Chen, M.-J.	2022	Animal Bioscience	35	2	21101044876	Journal	10.5713/ab.21.0251	Article
Treatment of synthetic zinc and nickel wastewater and identification of its crystallization products by fluidized bed homogeneous crystallization technology	Liu, P.-C. Vilando, A.C. Lu, M.-C.	2022	Process Safety and Environmental Protection	164	-	13754	Journal	10.1016/j.psep.2022.05.066	Article
Drowsiness Detection System Based on PERCLOS and Facial Physiological Signal †	Chang, R.C.-H. Wang, C.-Y. Chen, W.-T. Chiu, C.-D.	2022	Sensors	22	14	130124	Journal	10.3390/s22145380	Article
winter–summer contrast for the 1990s decadal change in relation to Afro–Asian	Wu, C.-H. Tsai, P.-C. Huang, W.-R. Wang, S.-Y.S.	2022	Climate Dynamics	59	7-8	12172	Journal	10.1007/s00382-022-06191-7	Article
An advanced systems biology framework of feature engineering for cold tolerance genes discovery from integrated omics and non-omics data in soybean	Kao, P.-H. Baiya, S. Lai, Z.-Y. Huang, C.-M. Jhan, L.-H. Lin, C.-J. Lai, Y.-S. Kao, C.-F.	2022	Frontiers in Plant Science	13	-	21100313905	Journal	10.3389/fpls.2022.1019709	Article
Tunable fluorescence and magnetic properties of ceria- organic core- shell hollow structures	Chien, H.-C. Wu, B.-Y. Hsu, P.-K. Chen, Y.-C. Song, J.-M. Gloter, A. Chen, S.-Y.	2022	Applied Surface Science	597	-	28983	Journal	10.1016/j.apsusc.2022.153685	Article
Toward a Rational Civil Society: Deliberative Thinking, Civic Participation, and Self-Efficacy among Taiwanese Young	Chung, M.-L. Fung, K.K.-W. Chiu, E.M.P. Liu, C.-L.	2022	Political Studies Review	20	4	4000149603	Journal	10.1177/14789299211024440	Article

A unique self-truncation of bacterial GH5 endoglucanases leads to enhanced activity and thermostability	Wu, M.-H. Kao, M.-R. Li, C.-W. Yu, S.-M. Ho, T.-H.D.	2022	BMC Biology	20	1	13096	Journal	10.1186/s12915-022-01334-y	Article
Hydrogen production optimization from methanol partial oxidation via ultrasonic sprays using response surface methodology and analysis of variance	Chen, W.-H. Chiu, K.-L. Chein, R.-Y. Arpia, A.A. Sharma, A.K. Juan, J.C.	2022	International Journal of Energy Research	-	-	26676	Journal	10.1002/er.8351	Article
Conformer Selection by Electrostatic Hexapoles: A Theoretical Study on 1-Chloroethanol and 2-Chloroethanol	Caglioti, C. Nakamura, M. Che, D.-C. Tsai, P.-Y. Palazzetti, F.	2022	Symmetry	14	2	21100201542	Journal	10.3390/sym14020317	Article
Elevated emissions of volatile and nonvolatile nanoparticles from heavy-duty diesel engine running on diesel-gas co-fuels	Young, L.-H. Lai, C.-W. Lu, J.-H. Yang, H.-H. Wang, L.-C. Chen, Y.-H.	2022	Science of the Total Environment	821	-	25349	Journal	10.1016/j.scitotenv.2022.153459	Article
Second-generation bioethanol production from phytomass after phytoremediation using recombinant bacteria-yeast co-culture	Tusher, T.R. Chang, J.-J. Saunivalu, M.I. Wakasa, S. Li, W.-H. Huang, C.-C. Inoue, C. Chien, M.-F.	2022	Fuel	326	-	16313	Journal	10.1016/j.fuel.2022.124975	Article
Grazoprevir/Elbasvir Treatment in Liver or Kidney Transplant Recipients with Genotype 1b Hepatitis C Virus Infection	Lai, P.-C. Chen, C.-H. Jeng, L.-B. Yu, T.-M. Tsai, S.-F. Wu, M.-J. Cheng, S.-B. Yang, S.-S. Lee, T.-Y.	2022	Antimicrobial Agents and Chemotherapy	66	2	19615	Journal	10.1128/aac.02003-21	Article
Periodic Attention-based Stacked Sequence to Sequence framework for long-term travel time prediction	Huang, Y. Dai, H. Tseng, V.S.	2022	Knowledge-Based Systems	258	-	24772	Journal	10.1016/j.knosys.2022.109976	Article
Application of Blockchain Technology to Podcast-Based Enterprise Content Marketing	Chang, S.E. Chen, T.-Y.	2022	IEEE Access	10	-	21100374601	Journal	10.1109/ACCESS.2022.3211928	Article
Impact of COVID-19 on returns-volatility spillovers in national and regional carbon markets in China	Mai, T.-K. Foley, A.M. McAleer, M. Chang, C.-L.	2022	Renewable and Sustainable Energy Reviews	169	-	27567	Journal	10.1016/j.rser.2022.112861	Article
Negotiating social value, time perspective, and development space in sustainable product design: A dialectics perspective	Wan, C.K. Lin, S.-Y.	2022	Design Studies	81	-	36450	Journal	10.1016/j.destud.2022.101121	Article
Perceived COVID-19-related stress drives home gardening intentions and improves human health in Taiwan	Wu, C.-F. Chou, L.-W. Huang, H.-C. Tu, H.-M.	2022	Urban Forestry and Urban Greening	78	-	145301	Journal	10.1016/j.ufug.2022.127770	Article
Associations of hyperglycemic emergency and severe hypoglycemia incidences with seasonality and ambient temperature among pregnant women with diabetes: a nested case-control study in Taiwan	Hou, W.-H. Wu, J.-L. Lu, C.-L. Sulistyorini, L. Isfandiari, M.A. Chiu, C.-T. Li, C.-Y.	2022	Environmental Health and Preventive Medicine	27	-	28127	Journal	10.1265/ehpm.22-00003	Article
Oncolytic Avian Reovirus p17-Modulated Inhibition of mTORC1 by Enhancement of Endogenous mTORC1 Inhibitors Binding to mTORC1 To Disrupt Its Assembly and Accumulation on Lysosomes	Li, J.-Y. Huang, W.-R. Liao, T.-L. Nielsen, B.L. Liu, H.-J.	2022	Journal of Virology	96	17	20250	Journal	10.1128/jvi.00836-22	Article
Efficient Cost-Reduced with High-Quality Image of Imperceptible Steganography Using Modulo and Magic Cube	Ko, H.-J. Huang, C.-T. Tseng, H.-W. Wang, S.-J.	2022	IEEE Access	10	-	21100374601	Journal	10.1109/ACCESS.2022.3185120	Article
Reductive degradation of carbon tetrachloride with guava leaf extract	Liang, C. Chou, H.-Y. Wu, S.C.	2022	Journal of Industrial and Engineering Chemistry	113	-	144861	Journal	10.1016/j.jiec.2022.06.002	Article
Multifunctional conjugated molecules combined with electrospun CuCoP/carbon nanofibers as a modifier of the Pt counter electrode for dye-sensitized solar cells	Lin, F.-S. Sakthivel, M. Fan, M.-S. Wu, C.-H. Fong, G.-L. Lin, J.-J. Jeng, R.-J. Ho, K.-C.	2022	Journal of Materials Chemistry C	10	34	21100229207	Journal	10.1039/d2tc01564a	Article

High-resolution spatial and genomic characterization of coral-associated microbial aggregates in the coral <i>Stylophora pistillata</i>	Wada, N. Hsu, M.-T. Tandon, K. Hsiao, S.S.-Y. Chen, H.-J. Chen, Y.-H. Chiang, P.-W. Yu, S.-P. Lu, C.-Y. Chiou, Y.-J. Tu, Y.-C. Tian, X. Chen, B.-C. Lee, D.-C. Yamashiro, H. Bourne, D.G. Tang, S.-L.	2022	Science Advances	8	27	21100457028	Journal	10.1126/sciadv.abo2431	Article
Persistence of two weak competing species in a shifting environment	Wu, C.-C.	2022	Applied Mathematics Letters	129	-	25184	Journal	10.1016/j.aml.2022.107973	Article
The prevalence and clinical features of chronic obstructive pulmonary disease patients with traits of asthma in Taiwan	Huang, W.-C. Sheu, C.-C. Hsu, J.-Y. Perng, D.-W. Wang, H.-C. Cheng, S.-L. Chen, B.C.-P.	2022	Journal of the Formosan Medical Association	121	1	27952	Journal	10.1016/j.jfma.2021.01.003	Article
Asymmetric Sequential Vinylogous Mannich/Annulation/Acylation Process of 2-Ethylidene 1,3-Indandiones and Isatin N-Boc Ketimines: Access to Chiral Spiro-Oxindole Piperidine Derivatives	Chen, I.-T. Guan, R.-Y. Han, J.-L.	2022	Advanced Synthesis and Catalysis	364	15	22669	Journal	10.1002/adsc.202200465	Article
The growth effects of knowledge-based technological change on Taiwan's industry: A comparison of R&D and education level	Wang, L.-H. Liao, S.-Y. Huang, M.-L.	2022	Economic Analysis and Policy	73	-	5800191435	Journal	10.1016/j.eap.2021.12.009	Article
Automated Machine Learning System for Defect Detection on Cylindrical Metal Surfaces	Huang, Y.-C. Hung, K.-C. Lin, J.-C.	2022	Sensors	22	24	130124	Journal	10.3390/s22249783	Article
Identifying pathological slices of gastric cancer via deep learning	Tung, C.-L. Chang, H.-C. Yang, B.-Z. Hou, K.-J. Tsai, H.-H. Tsai, C.-Y. Yu, P.-T.	2022	Journal of the Formosan Medical Association	121	12	27952	Journal	10.1016/j.jfma.2022.05.004	Article
Exploring the impact of restaurants' physical environment on kitchen employees' creativity	Yeh, S.-S. Lin, K.-H. Chiang, T.-Y. Lin, C.-F. Huan, T.-C.	2022	Tourism Management Perspectives	44	-	21100202157	Journal	10.1016/j.tmp.2022.101023	Article
Development and application of the Ames test using a direct-exposure module: The assessment of mutagenicity of incense and sidestream cigarette smoke	Chen, P.-W. Lu, H.-F. Liu, Z.-S.	2022	Indoor Air	32	10	21431	Journal	10.1111/ina.13140	Article
The Information-Leveling Role of Management Forecast Consistency in Facilitating Investment Efficiency	Chin, C.-L. Chiu, P.-C. Haight, T. Yu, P.-H.	2022	European Accounting Review	-	-	7100153129	Journal	10.1080/09638180.2022.2105368	Article
A promoter toolbox for tissue-specific expression supporting translational research in cassava (<i>Manihot esculenta</i>)	Zierer, W. Anjanappa, R.B. Lamm, C.E. Chang, S.-H. Gruissem, W. Sonnewald, U.	2022	Frontiers in Plant Science	13	-	21100313905	Journal	10.3389/fpls.2022.1042379	Article
The efficacy and tolerability of antibiotics in scrub typhus: an updated network meta-analysis of randomized controlled trials	Zeng, B.-S. Zeng, B.-Y. Hung, C.-M. Kuo, H.-C. Chen, Y.-W. Suen, M.-W. Shiue, Y.-L. Tseng, P.-T. Chen, C.-H.	2022	International Journal of Infectious Diseases	122	-	22380	Journal	10.1016/j.ijid.2022.06.024	Article
Circuit quantum electrodynamics with dressed states of a superconducting artificial	Chang, Y.-H. Dubyna, D. Chien, W.-C. Chen, C.-H. Wu, C.-S. Kuo,	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-26828-1	Article
Protocorm-like-body extract of <i>Phalaenopsis aphrodite</i> combats watermelon fruit blotch disease	Ho, B.-L. Chen, J.-C. Huang, T.-P. Fang, S.-C.	2022	Frontiers in Plant Science	13	-	21100313905	Journal	10.3389/fpls.2022.1054586	Article
A Novel Constraint-Based Knee- Guided Neuroevolutionary Algorithm for Context-Specific ECG Early Classification	Huang, Y. Yen, G.G. Tseng, V.S.	2022	IEEE Journal of Biomedical and Health Informatics	26	11	21100256982	Journal	10.1109/JBHI.2022.3199377	Article
Peritoneal contamination and associated post-operative infectious complications after natural orifice specimen extraction for laparoscopic colorectal surgery	Chang, S.-C. Lee, T.-H. Ke, T.-W. Chen, Y.-C. Chen, H.-C. Tsai, Y.-Y. Fingerhut, A. Chen, W.T.-L.	2022	Surgical Endoscopy	36	12	19196	Journal	10.1007/s00464-022-09308-5	Article

Molecular characterization of polyphenol oxidase between small and large leaf tea cultivars	Chen, C.-T. Yang, C.-Y. Tzen, J.T.C.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-17184-1	Article
LYSOPHOSPHATIDIC ACID ACYLTRANSFERASE 2 (LPAT2) is required for de novo glycerolipid biosynthesis, growth, and development in vegetative and reproductive tissues of	Barroga, N.A.M. Nakamura, Y.	2022	Plant Journal	112	3	16612	Journal	10.1111/tbj.15974	Article
Plumbagin ameliorates bile duct ligation-induced cholestatic liver injury in rats	Pan, P.-H. Wang, Y.-Y. Lin, S.-Y. Liao, S.-L. Chen, Y.-F. Huang, W.-C. Chen, C.-J. Chen, W.-Y.	2022	Biomedicine and Pharmacotherapy	151	-	28620	Journal	10.1016/j.biopha.2022.113133	Article
A Neural Network Approach to Estimate Transient Aerodynamic Properties of a Flapping Wing System	Lan, B. Lin, Y.-J. Lai, Y.-H. Tang, C.-H. Yang, J.-T.	2022	Drones	6	8	21101017244	Journal	10.3390/drones6080210	Article
PTEN regulates invasiveness in pancreatic neuroendocrine tumors through DUSP19-mediated VEGFR3 dephosphorylation	Chang, T.-M. Chu, P.-Y. Lin, H.-Y. Huang, K.-W. Hung, W.-C. Shan, Y.-S. Chen, L.-T. Tsai, H.-J.	2022	Journal of Biomedical Science	29	1	15849	Journal	10.1186/s12929-022-00875-2	Article
Optimized model of fermentable sugar production from Napier grass for biohydrogen generation via dark	Balakrishnan, D. Manmai, N. Ponnambalam, S. Unpaprom, Y. Chaichompoo, C. Ramaraj, R.	2022	International Journal of Hydrogen Energy	-	-	26991	Journal	10.1016/j.ijhydene.2022.12.011	Article
Design of the Stable Homogeneous Magnetic Field Calibration Device Generated by the Circular Coils	Syu, S.S. Krishna, M.G. Yadav, R. Lin, K.-W.	2022	IEEE Access	10	-	21100374601	Journal	10.1109/ACCESS.2022.3209685	Article
The impact of scripts on blended and online socially shared regulation of learning: A role-playing game theory perspective	Warden, C.A. Chang, C.-C. Stanworth, J.O. Caskey, D.A. Chen, J.F.	2022	International Journal of Computer-Supported Collaborative Learning	17	4	4700152632	Journal	10.1007/s11412-022-09381-x	Article
Photocatalytic H ₂ O-to-H ₂ O ₂ synchronized oxidation of an organic pollutant by carbon dot/g-C ₃ N ₄ composites	Hsu, J.-W. Wei, L.-W. Chen, C. Wang, H.P.	2022	Journal of Cleaner Production	380	-	19167	Journal	10.1016/j.jclepro.2022.134918	Article
Determinants of corporate social responsibility performance in emerging markets: An international orientation	Li, P.-Y.	2022	Corporate Social Responsibility and Environmental Management	-	-	21873	Journal	10.1002/csr.2424	Article
Imiquimod-induced ROS production causes lysosomal membrane permeabilization and activates caspase-8-mediated apoptosis in skin cancer cells	Chang, S.-H. Lin, P.-Y. Wu, T.-K. Hsu, C.-S. Huang, S.-W. Li, Z.-Y. Liu, K.-T. Kao, J.-K. Chen, Y.-J. Wong, T.-W. Wu, C.-Y. Shieh, J.-J.	2022	Journal of Dermatological Science	107	3	24859	Journal	10.1016/j.jdermsci.2022.08.006	Article
Pattern-Selective Feedback Stabilization of Ginzburg–Landau Spiral Waves	Schneider, I. de Wolff, B. Dai, J.-Y.	2022	Archive for Rational Mechanics and Analysis	246	2-3	25208	Journal	10.1007/s00205-022-01826-9	Article
A Rapid Deployment Mechanism of Forwarding Rules for Reactive Mode SDN Networks	Kao, M.-T. Kao, S.-J. Tseng, H.-W. Chang, F.-M.	2022	Symmetry	14	5	21100201542	Journal	10.3390/sym14051026	Article
Correlations between pore water pressure development in sandy soil and CAV-based ground motion intensity measures	Tsai, C.-C. Wang, J.P. Huang, T.-Y. Sung, C.-Y.	2022	Engineering Geology	307	-	15648	Journal	10.1016/j.enggeo.2022.106785	Article
Infection in Living Donor Liver Transplantation Leads to Increased Risk of Adverse Renal Outcomes	Hsu, K.-M. Lin, P.-R. Chiu, P.-F. Hsieh, Y.-P.	2022	Nutrients	14	17	19700188323	Journal	10.3390/nu14173660	Article
Evaluation of alkaline activated sodium persulfate sustained release rod for the removal of dissolved trichloroethylene	Liang, C. Weng, C.-Y.	2022	Journal of Hazardous Materials	439	-	25858	Journal	10.1016/j.jhazmat.2022.129657	Article

Genome Assembly and Evolutionary Analysis of the Mandarin Duck <i>Aix galericulata</i> Reveal Strong Genome Conservation among Ducks	Ng, C.S. Lai, C.-K. Ke, H.-M. Lee, H.-H. Chen, C.-F. Tang, P.-C. Cheng, H.-C. Lu, M.J. Li, W.-H. Tsai, I.J.	2022	Genome Biology and Evolution	14	6	19700182013	Journal	10.1093/gbe/evac083	Article
The role of transformation in the risks of chemically exfoliated molybdenum disulfide nanosheets to the aquatic environment	Lee, T.-W. Lai, Y.-H. Chen, J.-L. Chen, C.	2022	Journal of Environmental Management	324	-	23371	Journal	10.1016/j.jenvman.2022.116278	Article
Deciphering the Role of Hole Transport Layer HOMO Level on the Open Circuit Voltage of Perovskite Solar Cells	Jiang, Z. Du, T. Lin, C.-T. Macdonald, T.J. Chen, J. Chin, Y.-C. Xu, W. Ding, B. Kim, J.-S. Durrant, J.R. Heeney, M.	2022	Advanced Materials Interfaces	-	-	21100403124	Journal	10.1002/admi.202201737	Article
Comparative demography and mass rearing of <i>Aedes aegypti</i> fed on different food sources using a novel perforated feeder	Hsu, P.-C. Atlihan, R. Chi, H. Dai, S.-M.	2022	Entomologia Generalis	42	5	19794	Journal	10.1127/entomologia/2022/1542	Article
Structural insights into DNA binding domain of vancomycin-resistance-associated response regulator in complex with its promoter DNA from <i>Staphylococcus aureus</i>	Kumar, J.V. Tseng, T.-S. Lou, Y.-C. Wei, S.-Y. Wu, T.-H. Tang, H.-C. Chiu, Y.-C. Hsu, C.-H. Chen, C.	2022	Protein Science	31	5	14280	Journal	10.1002/pro.4286	Article
U(1) dynamics in neuronal activities	Lin, C.-Y. Chen, P.-H. Lin, H.-H. Huang, W.-M.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-22526-0	Article
Transformation of sedimentary and colloidal phosphorus across the land–sea margin received effluents from agricultural and municipal activities	Hsu, L.-C. Tzou, Y.-M. Liao, W.-H. Teah, H.Y. Liu, Y.-T.	2022	Journal of Cleaner Production	379	-	19167	Journal	10.1016/j.jclepro.2022.134686	Article
The gibberellic acid derived from the plastidial MEP pathway is involved in the accumulation of Bamboo mosaic virus	Huang, Y.-P. Chen, I.-H. Kao, Y.-S. Hsu, Y.-H. Tsai, C.-H.	2022	New Phytologist	235	4	19908	Journal	10.1111/nph.18210	Article
Physiological responses and antioxidant properties of coriander plants (<i>Coriandrum sativum</i> L.) under different light intensities of red and blue lights	Lin, H.-H. Lin, K.-H. Yang, M.-J. Nguyen, H.C. Wang, H.-J. Huang, H.-X. Huang, M.-Y.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-25749-3	Article
Survival Comparison Among Neoadjuvant Chemoradiotherapy Followed by Esophagectomy, Definitive Chemoradiotherapy, and Esophagectomy Alone for Esophageal Squamous Cell Carcinoma	Chen, H.-S. Lin, C.-H. Wu, S.-C. Wang, B.-Y.	2022	Annals of Surgical Oncology	29	6	39465	Journal	10.1245/s10434-021-11210-8	Article
Preparation of recombinant glycoprotein B (gB) of Chelonid herpesvirus 5 (ChHV5) for antibody production and its application for infection detection in sea turtles	Li, T.-H. Hsu, W.-L. Chen, C.-Y. Chen, Y.-C. Wang, Y.-C. Tsai, M.-A. Chen, I.-C. Chang, C.-C.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-15281-9	Article
Efficient SPARQL Queries Generator for Question Answering Systems	Chen, Y.-H. Lu, E.J.-L. Lin, Y.-Y.	2022	IEEE Access	10	-	21100374601	Journal	10.1109/ACCESS.2022.3206794	Article
Did library learners benefit from m-learning strategies? Research-based evidence from a co-citation network analysis of the literature	Tang, K.-Y. Chen, C.-C. Hwang, G.-J. Tu, Y.-F.	2022	Educational Technology Research and Development	70	5	20764	Journal	10.1007/s11423-022-10136-6	Article
Effects of fermented soybean meal with <i>Bacillus velezensis</i> , <i>Lactobacillus</i> spp. or their combination on broiler performance, gut antioxidant activity and microflora	Tsai, C.F. Lin, L.J. Wang, C.H. Tsai, C.S. Chang, S.C. Lee, T.T.	2022	Animal Bioscience	35	12	21101044876	Journal	10.5713/ab.21.0529	Article

Programmed Catalytic Therapy and Antigen Capture-Mediated Dendritic Cells Harnessing Cancer Immunotherapies by In Situ-Forming Adhesive Nanoreservoirs	Yalamandala, B.N. Huynh, T.M.H. Chiang, M.-R. Weng, W.-H. Chang, C.-W. Chiang, W.-H. Hu, S.-H.	2022	Advanced Functional Materials	-	-	25143	Journal	10.1002/adfm.202210644	Article
In-Depth NMR Investigation of the Magnetic Hardening in Co Thin Films Induced by the Interface with Molecular Layers	Benini, M. Allodi, G. Surpi, A. Riminucci, A. Lin, K.-W. Sanna, S. Dediu, V.A. Bergenti, I.	2022	Advanced Materials Interfaces	9	36	21100403124	Journal	10.1002/admi.202201394	Article
Artificial Intelligence-Enabled Model for Early Detection of Left Ventricular Hypertrophy and Mortality Prediction in Young to Middle-Aged Adults	Liu, C.-M. Hsieh, M.-E. Hu, Y.-F. Wei, T.-Y. Wu, I.-C. Chen, P.-F. Lin, Y.-J. Higa, S. Yagi, N. Chen, S.-A. Tseng, V.S.	2022	Circulation: Cardiovascular Quality and Outcomes	15	8	19700166401	Journal	10.1161/CIRCOUTCOMES.121.	Article
Site-Selective Acylation of Phenols Mediated by a Thioacid Surrogate through Sodium Thiosulfate Catalysis	Liao, W.-J. Lin, S.-Y. Kuo, Y.-S. Liang, C.-F.	2022	Organic Letters	24	23	26396	Journal	10.1021/acs.orglett.2c01467	Article
Kinematic error model of a 3-PUU parallel mechanism for translational motion	Ke, J.-D. Wang, Y.-J. Tsai, J.-C.	2022	Measurement: Journal of the International Measurement Confederation	202	-	15424	Journal	10.1016/j.measurement.2022.111	Article
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	Chi, C.-C. Wu, Y.-W. Chao, T.-H. Chen, C.-C. Chen, Y.-J. Cheng, H.-M. Chiu, H.-Y. Chiu, Y.-W. Chung, W.-H. Hsieh, T.-Y. Huang, P.-H. Huang, Y.-H. Lin, S.-H. Lin, T.-H. Ueng, K.-C. Wang, C.-C. Wang, Y.-C. Wu, N.-L. Jia-Yin Hou, C. Tsai, T.-F.	2022	Journal of the Formosan Medical Association	-	-	27952	Journal	10.1016/j.jfma.2022.10.010	Article
Metal-free and oxidizing agent-free ultra-selective catalytic aerobic conversion of vanillyl alcohol to vanillin by carbon fiber	Wu, H.C. Huy, N.N. Kwon, E. Lin, J.-Y. Jaree, A. Lee, J. Ghotekar, S. Duan, X. Tuan, D.D. Lin, K.-Y.A.	2022	Journal of the Taiwan Institute of Chemical Engineers	140	-	13900154734	Journal	10.1016/j.jtice.2022.104492	Article
Taiwan Axion Search Experiment with Haloscope: CD102 analysis details	Chang, H. Chang, J.-Y. Chang, Y.-C. Chang, Y.-H. Chang, Y.-H. Chen, C.-H. Chen, C.-F. Chen, K.-Y. Chen, Y.-F. Chiang, W.-Y. Chien, W.-C. Doan, H.T. Hung, W.-C. Kuo, W. Lai, S.-B. Liu, H.-W. Ouyang, M.-W. Wu, P.-I. Yu, S.-S.	2022	Physical Review D	106	5	21100779241	Journal	10.1103/PhysRevD.106.052002	Article
Production, purification, and structural characteristics of extracellular polysaccharides derived from Lactobacillus acidophilus	Huang, J.-J. Yang, L.-C. Liu, Y.-C.	2022	Journal of the Taiwan Institute of Chemical Engineers	137	-	13900154734	Journal	10.1016/j.jtice.2021.104189	Article
Numerical simulation of fuel reactor for a methane-fueled chemical looping combustion using bubbling fluidized bed with internal particle circulation	Chein, R.-Y. Tseng, W.-F. Wu, K.-T.	2022	International Journal of Hydrogen Energy	47	88	26991	Journal	10.1016/j.ijhydene.2021.11.190	Article
Characterizing the climate-phenology-hydrology associations in a subtropical forested watershed, central Taiwan	Chang, C.-T. Lee, J.-Y. Chiang, J.-M. Wang, H.-C. Huang, J.-C. Tseng, C.-W. Wang, C.-H. Fu, S.-W.	2022	Ecological Indicators	145	-	20292	Journal	10.1016/j.ecolind.2022.109650	Article
Evolution of trimethoprim/sulfamethoxazole resistance in Shewanella algae from the perspective of comparative genomics and global phylogenetic analysis	Chia-Wei, L. Cheng, J.-F. Tung, K.-C. Hong, Y.-K. Lin, J.-H. Lin, Y.-H. Tsai, C.-A. Lin, S.-P. Chen, Y.-C. Shi, Z.-Y. Huang, Y.-T. Liu, P.-Y.	2022	Journal of Microbiology, Immunology and Infection	55	6	20238	Journal	10.1016/j.jmii.2021.09.014	Article

Crystal structure of a Burkholderia peptidase and modification of the substrate-binding site for enhanced hydrolytic activity toward gluten-derived pro-immunogenic peptides	Liu, Y.-Y. Lin, I.-C. Chen, P.-C. Lee, C.-C. Meng, M.	2022	International Journal of Biological Macromolecules	222	-	17544	Journal	10.1016/j.ijbiomac.2022.10.016	Article
Renal impairment is one of appropriate predictors of future diabetic peripheral neuropathy: a hospital-based 6-year follow-up study	Wang, C.-S. Pai, Y.-W. Lin, C.-H. Lee, I.-T. Chang, M.-H.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-09333-3	Article
Production of flammable gases from cattle manure via pyrolysis using CO2 as an oxidant	Jung, J.-M. Choi, D. Jung, S. Lin, K.-Y.A. Tsang, Y.F. Kwon, E.E.	2022	International Journal of Energy Research	46	5	26676	Journal	10.1002/er.7622	Article
Investigating the role of signal transducer and activator of transcription 3 in feline injection site sarcoma	Shih, C.-H. Chang, Y.-C. Lai, Y.-C. Chiou, H.-Y.	2022	BMC Veterinary Research	18	1	4300151401	Journal	10.1186/s12917-022-03352-y	Article
What Intentions and Interesting Information Can Make Consumers Scan QR Code While Buying Eggs?	Yang, S.-H. Phan, H.T.T. Hsieh, C.-M. Li, T.-N.	2022	Foods	11	9	21100898636	Journal	10.3390/foods11091259	Article
High-Throughput Imaging and Spectral Analysis of Gold Nanoparticles Through Waveguide Excitation	Yong, W.-H. Shen, L. Hou, Y.-C. Lai, C.-H. Tsai, W.-S.	2022	IEEE Sensors Journal	22	22	15047	Journal	10.1109/JSEN.2022.3211944	Article
Multiobjective Optimization of Interpretable Fuzzy Systems and Applicable Subjects for Fast Estimation of Obstructive Sleep Apnea-hypopnea Severity	Juang, C. Pan, G. Huang, W. Wen, C. Wu, M.	2022	IEEE Transactions on Fuzzy Systems	-	-	24242	Journal	10.1109/TFUZZ.2022.3222033	Article
Association of leukocyte mitochondrial DNA copy number with longitudinal C-reactive protein levels and survival in older adults: a cohort study	Wu, I.-C. Liu, C.-S. Cheng, W.-L. Lin, T.-T. Chen, H.-L. Chen, P.-F. Wu, R.-C. Huang, C.-W. Hsiung, C.A. Hsu, C.-C.	2022	Immunity and Ageing	19	1	4400151516	Journal	10.1186/s12979-022-00322-8	Article
Asynchronous Channel-Hopping Sequences With Maximum Rendezvous Diversity and Asymptotic Optimal Period for Cognitive-Radio Wireless Networks	Wang, Y.-H. Yang, G.-C. Kwong, W.C.	2022	IEEE Transactions on Communications	70	9	18931	Journal	10.1109/TCOMM.2022.3194983	Article
Mulberry Leaf (Morus alba L.) Extracts and Its Chlorogenic Acid Isomer Component Improve Glucolipotoxicity-Induced Hepatic Lipid Accumulation via Downregulating miR-34a and Decreased Inflammation	Yang, T.-Y. Yu, M.-H. Wu, Y.-L. Hong, C.-C. Chen, C.-S. Chan, K.-C. Wang, C.-J.	2022	Nutrients	14	22	19700188323	Journal	10.3390/nu14224808	Article
The ACE genes in Aphelenchoides besseyi isolates and their expression correlation to the fenamiphos treatment	Hsu, J.-K. Weng, C.-W. Chen, J.J.W. Chen, P.J.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-05998-y	Article
Effects of replication domains on genomewide UV-induced DNA damage and repair	Huang, Y. Azgari, C. Yin, M. Chiou, Y.-Y. Lindsey-Boltz, L.A. Sancar, A. Hu, J. Adebali, O.	2022	PLoS Genetics	18	9	4000151808	Journal	10.1371/journal.pgen.1010426	Article
Facial Chirality: From Visual Self-Reflection to Robust Facial Feature Learning	Lo, L. Xie, H. Shuai, H.-H. Cheng, W.-H.	2022	IEEE Transactions on Multimedia	24	-	16211	Journal	10.1109/TMM.2022.3197365	Article
How artificial intelligence (AI) supports nursing education: profiling the roles, applications, and trends of AI in nursing education research (1993–2020)	Hwang, G.-J. Tang, K.-Y. Tu, Y.-F.	2022	Interactive Learning Environments	-	-	145681	Journal	10.1080/10494820.2022.2086579	Article
A Lightweight and Accurate Spatial-Temporal Transformer for Traffic Forecasting	Li, G. Zhong, S. Deng, X. Xiang, L. Chan, S.G. Li, R. Liu, Y. Zhang, M. Hung, C. Peng, W.	2022	IEEE Transactions on Knowledge and Data Engineering	-	-	17362	Journal	10.1109/TKDE.2022.3233086	Article

A Fast Quantized Precoding Algorithm for Massive MU-MISO Systems With Low-Resolution DACs and PSK Signaling: A Safety Margin Fitting Approach	Chen, C.-E.	2022	IEEE Transactions on Vehicular Technology	71	10	17393	Journal	10.1109/TVT.2022.3187710	Article
Estimation and application of spatial distribution of carbon storage in Wushe reservoir watershed based on environmental indicators in Taiwan	Lin, C.-Y. Kuo, L.-S. Chen, T.-Y. Wu, S.-W. Tseng, C.-W.	2022	Ecological Indicators	145	-	20292	Journal	10.1016/j.ecolind.2022.109626	Article
One-dimensional diffraction sensors with high sensitivity for on-site rapid label-free plague diagnosis with a reflective laser detection system	Lin, F.-P. Hsu, H.-L. Tsui, P.-Y. Liang, C.-C. Lu, C.-H. Chen, J.-K.	2022	Sensors and Actuators B: Chemical	353	-	25236	Journal	10.1016/j.snb.2021.131080	Article
Influence of fine particle content in debris flows on alluvial fan morphology	Chen, T.-Y.K. Hung, C.-Y. Mullenbach, J. Hill, K.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-24397-x	Article
miR-196a enhances polymerization of neuronal microfilaments through suppressing IMP3 and upregulating IGF2 in Huntington's disease	Yang, H.-I. Huang, P.-Y. Chan, S.C. Tung, C.-W. Cheng, P.-H. Chen, C.-M. Yang, S.-H.	2022	Molecular Therapy - Nucleic Acids	30	-	21100218543	Journal	10.1016/j.omtn.2022.10.002	Article
Improving production of biohydrogen from COOH-functionalized multiwalled carbon nanotubes through Co-immobilization with Clostridium pasteurianum	Wannapokin, A. Huang, H.-T. Chang, P.-H. Chien, Y.-W. Hung, C.-H.	2022	International Journal of Hydrogen Energy	47	96	26991	Journal	10.1016/j.ijhydene.2022.09.095	Article
High-porosity hybrid bilayer-enabled portable LED plasmonic biosensing	Ko, W.-Y. Yeh, S.-C. Chu, H.-W. Hsu, Y.-C. Lin, K.-J.	2022	Chemical Communications	58	73	22781	Journal	10.1039/d2cc03757b	Article
Dual-lumen power injectable peripherally inserted central catheters in allogeneic hematopoietic stem cell transplantation: A prospective observational study	Shih, Y.-H. Teng, C.-L.J. Chen, T.-C. Chang, K.-H. Chen, M.-H.	2022	Journal of Clinical Nursing	31	11-12	28191	Journal	10.1111/jocn.16020	Article
Cross-redox and simultaneous removal of Cr(VI) and As(III): Influences of Fe(II), Fe(III), oxalic acid, and dissolved organic carbon	Ng, K.H. Hsu, L.-C. Liu, Y.-T. Hsiao, C.-Y. Chiang, P.-N. Teah, H.Y. Hung, J.-T. Tzou, Y.-M.	2022	Ecotoxicology and Environmental Safety	245	-	25076	Journal	10.1016/j.ecoenv.2022.114084	Article
Decomposition and mineralization of glyphosate herbicide in water by radical and non-radical pathways through peroxymonosulfate activation using Co3O4/g-C3N4: a comprehensive study	Dung, N.T. Hanh, P.T.H. Thao, V.D. Ngan, L.V. Thuy, N.T. Thanh, D.T.M. Phuong, N.T. Lin, K.A. Huy, N.N.	2022	Environmental Science: Water Research and Technology	9	1	21100468963	Journal	10.1039/d2ew00688j	Article
Modulation of striatal glutamatergic, dopaminergic and cholinergic neurotransmission pathways concomitant with motor disturbance in rats with kaolin-induced hydrocephalus	Chen, L.-J. Chen, J.-R. Tseng, G.-F.	2022	Fluids and Barriers of the CNS	19	1	19900193571	Journal	10.1186/s12987-022-00393-1	Article
Association of Albumin and Globulin with Mortality Risk in Incident Peritoneal Dialysis Patients	Lai, K.-J. Hsieh, Y.-P. Chiu, P.-F. Lin, P.-R.	2022	Nutrients	14	14	19700188323	Journal	10.3390/nu14142850	Article
Template-Based Headline Generator for Multiple Documents	Tseng, Y.-C. Yang, M.-H. Fan, Y.-C. Peng, W.-C. Hung, C.-C.	2022	IEEE Access	10	-	21100374601	Journal	10.1109/ACCESS.2022.3157287	Article
Association of Sugar-Sweetened Beverages and Cardiovascular Diseases Mortality in a Large Young Cohort of nearly 300,000 Adults (Age 20–39)	Chen, C.-H. Tsai, M.-K. Lee, J.-H. Wen, C. Wen, C.-P.	2022	Nutrients	14	13	19700188323	Journal	10.3390/nu14132720	Article
Effects of Artemisia annua on experimentally induced leucocytozoonosis in	Chiang, Y.-H. Lin, Y.-C. Wang, S.-Y. Lee, Y.-P. Chen, C.-F.	2022	Poultry Science	101	4	36431	Journal	10.1016/j.psj.2021.101690	Article

Ascophyllum nodosum and Fucus vesiculosus Extracts Improved Lipid Metabolism and Inflammation in High-Energy Diet-Induced Hyperlipidemia Rats	Tung, Y.-T. Wu, C.-H. Chen, W.-C. Pan, C.-H. Chen, Y.-W. Tsao, S.-P. Chen, C.-J. Huang, H.-Y.	2022	Nutrients	14	21	19700188323	Journal	10.3390/nu14214665	Article
What drives online-to-offline purchase intention in a VR store? An examination of affective and cognitive factors	Hsiao, K.-L. Chen, C.-C. Lin, K.-Y. Hsu, H.-Y.	2022	Quality and Quantity	-	-	19372	Journal	10.1007/s11135-022-01510-w	Article
Effect of Total Intravenous Anesthesia on Postoperative Pulmonary Complications in Patients Undergoing Microvascular Reconstruction for Head and Neck Cancer: A Randomized Clinical Trial	Chang, Y.-T. Lai, C.-S. Lu, C.-T. Wu, C.-Y. Shen, C.-H.	2022	JAMA Otolaryngology - Head and Neck Surgery	148	11	21100228518	Journal	10.1001/jamaoto.2022.2552	Article
Learning curve and surgical outcome of robotic assisted colorectal surgery with ERAS program	Lin, C.-Y. Liu, Y.-C. Chen, M.-C. Chiang, F.-F.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-24665-w	Article
Premature translation termination mediated non-ER stress induced ATF6 activation by a ligand-dependent ribosomal frameshifting circuit	Hsu, H.-T. Murata, A. Dohno, C. Nakatani, K. Chang, K.	2022	Nucleic Acids Research	50	9	14204	Journal	10.1093/nar/gkac257	Article
Asset Pricing Tests of Infrequently Traded Securities: The Case of Municipal Bonds	Chen, Y.-T. Wu, C. Yeh, C.-Y.	2022	Review of Asset Pricing Studies	12	3	21100926577	Journal	10.1093/rapstu/raac002	Article
On the phase constituents of three CoCrFeNiX (X = B, Al, Ga) high-entropy alloys after prolonged annealing	Chen, Y.-Y. Li, J.-H. Tung, S.-Y. Tsai, M.-H.	2022	Journal of Alloys and Compounds	900	-	12325	Journal	10.1016/j.jallcom.2021.163388	Article
Metabolic Isolation, Stereochemical Determination, and Total Synthesis of Predominant Native Cholesteryl Phosphatidyl- α -glucoside from Carcinogenic Helicobacter pylori	Chang, C.-C. Jan, H.-M. Tseng, C.-J. Mondal, S. Abera, A.B. Hsieh, M.-Y. Yang, T.-C. Muthusamy, S. Huang, S.-C. Lin, C.-H. Tony Mong, K.-K.	2022	Organic Letters	24	28	26396	Journal	10.1021/acs.orglett.2c01815	Article
Comparative genomic and transcriptomic analyses of trans-kingdom pathogen Fusarium solani species complex reveal degrees of compartmentalization	Hoh, D.Z. Lee, H.-H. Wada, N. Liu, W.-A. Lu, M.R. Lai, C.-K. Ke, H.-M. Sun, P.-F. Tang, S.-L. Chung, W.-H. Chen, Y.-L. Chung, C.-L. Tsai, I.J.	2022	BMC Biology	20	1	13096	Journal	10.1186/s12915-022-01436-7	Article
Evaluation of Calibration Equations by Using Regression Analysis: An Example of Chemical Analysis	Chen, H.-Y. Chen, C.	2022	Sensors	22	2	130124	Journal	10.3390/s22020447	Article
What can occupancy models gain from time-to-detection data?	Priyadarshani, D. Altwegg, R. Lee, A.T.K. Hwang, W.-H.	2022	Ecology	103	12	20308	Journal	10.1002/ecy.3832	Article
Electric-field control of the nucleation and motion of isolated three-fold polar vertices	Li, M. Yang, T. Chen, P. Wang, Y. Zhu, R. Li, X. Shi, R. Liu, H.-J. Huang, Y.-L. Ma, X. Zhang, J. Bai, X. Chen, L.-Q. Chu, Y.-H. Gao, P.	2022	Nature Communications	13	1	19700182758	Journal	10.1038/s41467-022-33973-8	Article
Bacterial community and physiological characteristics of octylphenol polyethoxylate biodegradation in soil slurries	Lau, S.H. Hung, C.-H. Chang, Y.-T.	2022	Applied Soil Ecology	171	-	96119	Journal	10.1016/j.apsoil.2021.104317	Article
Diverse Properties of Molecular Gas in the Host Galaxies of Fast Radio Bursts	Hatsukade, B. Hashimoto, T. Niino, Y. Hsu, T.-Y.	2022	Astrophysical Journal Letters	940	2	19900192103	Journal	10.3847/2041-8213/ac9f39	Article
Numerical analysis of the mechanical behavior of separated joints in underground pipelines rehabilitated by cured-in-place	Hsu, J.-M. Shou, K.-J.	2022	Tunnelling and Underground Space Technology	125	-	14642	Journal	10.1016/j.tust.2022.104520	Article

Effects of Cordyceps militaris fermentation products on reproductive development in juvenile male mice	Lin, S.-H. Hsu, W.-K. Tsai, M.-S. Hsu, T.-H. Lin, T.-C. Su, H.-L. Wang, S.-H. Jin, D.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-18066-2	Article
Reactivity-Tunable Palladium Precatalysts with Favorable Catalytic Properties in Suzuki–Miyaura Cross-Coupling Reactions	Liang, S.-W. Guo, Y. Lee, W.-C. Zeng, P.-R. Lin, T.-H. Xie, P.-Z. Kang, H.-H. Lu, I.-C. Chang, Y.-C.	2022	ChemCatChem	14	16	19900191733	Journal	10.1002/cctc.202200736	Article
Aryl hydrocarbon receptor deficiency augments dysregulated microangiogenesis and diabetic retinopathy	Lee, W.-J. Lin, K.-H. Wang, J.-S. Sheu, W.H.-H. Shen, C.-C. Yang, C.-N. Wu, S.-M. Shen, L.-W. Lee, S.-H. Lai, D.-W. Lan, K.-L. Tung, C.-W. Liu, S.-H. Sheu, M.-L.	2022	Biomedicine and Pharmacotherapy	155	-	28620	Journal	10.1016/j.biopha.2022.113725	Article
Sustainable cement and clay support in Ni–Cu/Al2O3 catalysts for enhancing hydrogen production from methanol steam reforming	Chen, W.-H. Cheng, C.-Y. Chih, Y.-K. Chein, R.-Y. Ubando, A.T. Tabatabaei, M. Lam, S.S. Lin, H.-P.	2022	International Journal of Hydrogen Energy	-	-	26991	Journal	10.1016/j.ijhydene.2022.12.015	Article
Sensitivity enhancement of magneto-optical Faraday effect immunoassay method based on biofunctionalized γ -Fe2O3@Au core-shell magneto-plasmonic nanoparticles for the blood detection of Alzheimer's disease	Chen, K.-L. Tsai, P.-H. Lin, C.-W. Chen, J.-M. Lin, Y.-J. Kumar, P. Jeng, C.-C. Wu, C.-H. Wang, L.-M. Tsao, H.-M.	2022	Nanomedicine: Nanotechnology, Biology, and Medicine	46	-	4000149101	Journal	10.1016/j.nano.2022.102601	Article
Experimental study on the mechanism of sand boils and associated settlements due to soil liquefaction in loose sand	Tsai, C.-C. Lin, W.-C. Chu, M.-C. Chi, C.-C.	2022	Engineering Geology	306	-	15648	Journal	10.1016/j.enggeo.2022.106708	Article
One-pot alkaline carbonization hydrothermal synthesis of halloysite nanotubes with amino groups over Pd@CeO2/halloysite to enhance catalysis of three-way reactions	Wang, Y.-T. Li, W.-J. Wey, M.-Y.	2022	Applied Clay Science	230	-	24614	Journal	10.1016/j.clay.2022.106701	Article
A Discriminant Analysis of Personality Traits and Cluster Types of Physical Education Teachers	Chia, F. Huang, W.-Y. Wu, L.-M. Wu, C.-E.	2022	SAGE Open	12	3	21100255401	Journal	10.1177/21582440221121591	Article
Blood monocyte levels predict the risk of acute exacerbations of chronic obstructive pulmonary disease: a retrospective case–control study	Lin, C.-H. Li, Y.-R. Lin, P.R. Wang, B.-Y. Lin, S.-H. Huang, K.-Y. Kor, C.-T.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-25520-8	Article
Efficient fucoidan extraction and purification from Sargassum cristaefolium and preclinical dermal biological activity assessments of the purified fucoidans	Lin, E.-T. Lee, Y.-C. Wang, H.-M.D. Chiu, C.-Y. Chang, Y.-K. Huang, C.-Y. Chang, C.-C. Tsai, P.-C. Chang, J.-S.	2022	Journal of the Taiwan Institute of Chemical Engineers	137	-	13900154734	Journal	10.1016/j.jtice.2022.104294	Article
Diffused Beam Energy to Dope van der Waals Electronics and Boost Their Contact Barrier Lowering	Lin, C.-Y. Lee, M.-P. Chang, Y.-M. Tseng, Y.-T. Yang, F.-S. Li, M. Chen, J.-Y. Chen, C.-F. Tsai, M.-Y. Lin, Y.-C. Ueno, K. Yamamoto, M. Lo, S.-T. Lien, C.-H. Chiu, P.-W. Tsukagoshi, K. Wu, W.-W. Lin, Y.-F.	2022	ACS Applied Materials and Interfaces	14	36	19700171101	Journal	10.1021/acsami.2c07679	Article
The JMJD6/HURP axis promotes cell migration via NF- κ B-dependent centrosome repositioning and Cdc42-mediated Golgi repositioning	Huang, Y.-R.J. Chiu, S.-C. Tseng, J.-S. Chen, J.-M.M. Wei, T.-Y.W. Chu, C.-Y. Kao, H.-T.E. Yang, C.-Y.O. Shih, Y.-C.E. Yang, T.-Y. Chiu, K.-Y. Teng, C.-L.J. Yu, C.-T.R.	2022	Journal of Cellular Physiology	237	12	23455	Journal	10.1002/jcp.30900	Article
A Novel Deep Neural Network Method for HAR-Based Team Training Using Body-Worn Inertial Sensors	Fan, Y.-C. Tseng, Y.-H. Wen, C.-Y.	2022	Sensors	22	21	130124	Journal	10.3390/s22218507	Article

Moving mesh strategy for simulating sliding and rolling dynamics of droplets on inclined surfaces with finite element method	Ivančić, F. Solovchuk, M.	2022	Computer Methods in Applied Mechanics and Engineering	400	-	18158	Journal	10.1016/j.cma.2022.115404	Article
Synergetic Effects of ZnS Core Shell and Bisindolo Quinoxaline-Tips (BIQ-TIPs) Spreading on ZnO Nanorod-Based Light/Gas Dual Sensors	Li, M.-H. Liang, K.-T. Wu, Z.-H. Lin, S.-H. Chiu, Y.-S. Lee, C.-H. Kuo, M.-Y. Lin, C.-F. Chen, H. Wu, D.-S. Han, J.	2022	IEEE Sensors Journal	22	24	15047	Journal	10.1109/JSEN.2022.3216827	Article
Electrochemical Organophosphorus Pesticide Detection Using Nanostructured Gold-Modified Electrodes	Chang, H.-W. Chen, C.-L. Chen, Y.-H. Chang, Y.-M. Liu, F.-J. Tsai, Y.-C.	2022	Sensors	22	24	130124	Journal	10.3390/s22249938	Article
Hotspot Mitigation for Mobile Edge Computing	Chang, W.-C. Chen, Y.-L. Wang, P.-C.	2022	IEEE Transactions on Sustainable Computing	7	2	21100970266	Journal	10.1109/TSUSC.2018.2878438	Article
Lighting-and Personal Characteristic-Aware Markov Random Field Model for Facial Image Relighting System	Tu, C.-T. Lin, H.-J. Chang, C.-Y.	2022	IEEE Access	10	-	21100374601	Journal	10.1109/ACCESS.2022.3150341	Article
Self-Assembly of Gyroid-Forming Diblock Copolymers under Spherical Confinement	Juan, Y.-T. Lai, Y.-F. Li, X. Tai, T.-C. Lin, C.-H. Huang, C.-F. Li, B. Shi, A.-C. Hsueh, H.-Y.	2022	Macromolecules	-	-	21100779404	Journal	10.1021/acs.macromol.2c02086	Article
A Toolkit for Engineering Proteins in Living Cells: Peptide with a Tryptophan-Selective Ru-TAP Complex to Regioselectively Photolabel Specific Proteins	Chen, T.-H. Garnir, K. Chen, C.-Y. Jian, C.-B. Gao, H.-D. Cheng, B. Tseng, M.-C. Moucheron, C. Kirsch-De Mesmaeker, A. Lee, H.-M.	2022	Journal of the American Chemical Society	144	39	22680	Journal	10.1021/jacs.2c08342	Article
Low-Voltage and Low-Power True-Single-Phase 16-Transistor Flip-Flop Design	Lin, J.-F. Hong, Z.-J. Wu, J.-T. Tung, X.-Y. Yang, C.-H. Yen, Y.-C.	2022	Sensors	22	15	130124	Journal	10.3390/s22155696	Article
An approach for evaluating gas sorption in polymer matrix membranes based on balancing incoming and outgoing membrane mass fluxes	Setnickova, K. Jiriste, L. Maly, M. Petrickovic, R. Tseng, H.-H. Uchytil, P.	2022	Journal of Membrane Science	661	-	26953	Journal	10.1016/j.memsci.2022.120867	Article
Modification of the N-terminal FWKG- α H1 element of potyviral HC-Pro affects its multiple functions and generates effective attenuated mutants for cross-protection	Raja, J.A.J. Huang, C.-H. Chen, C.-C. Hu, W.-C. Cheng, H.-W. Goh, R.-P. Chao, C.-H. Tan, Y.-R. Yeh, S.-D.	2022	Molecular Plant Pathology	23	7	19790	Journal	10.1111/mpp.13201	Article
Highly radiation-tolerant polymer field-effect transistors with polystyrene dielectric layer	Li, W. Huang, F. Gao, C. Sun, Y. Guo, X. Chen, Y.-T. Chu, J. Lai, Y.-C.	2022	Nano Energy	100	-	21100197947	Journal	10.1016/j.nanoen.2022.107452	Article
Echinocystic Acid Ameliorates Arthritis in SKG Mice by Suppressing Th17 Cell Differentiation and Human Rheumatoid Arthritis Fibroblast-Like Synoviocytes Inflammation	Cheng, Y.-C. Zhang, X. Lin, S.-C. Li, S. Chang, Y.-K. Chen, H.-H. Lin, C.-C.	2022	Journal of Agricultural and Food Chemistry	-	-	33722	Journal	10.1021/acs.jafc.2c05802	Article
Multiobjective Evolutionary Interpretable Type-2 Fuzzy Systems with Structure and Parameter Learning for Hexapod Robot Control	Su, W.-C. Juang, C.-F. Hsu, C.-M.	2022	IEEE Transactions on Systems, Man, and Cybernetics: Systems	52	5	21100262320	Journal	10.1109/TSMC.2021.3063778	Article
Seismic control of structure with phase control active tuned mass damper	Lai, Y.-A. Luo, W.-C. Huang, S.-K. Yang, C.-Y. Chang, C.-M.	2022	Structural Control and Health Monitoring	29	7	12246	Journal	10.1002/stc.2946	Article
Performance of bioelectrochemical systems in treating exhaust gas with power generation: Effects of shock-load, shut-down episodes and microbial community	Lin, C.-W. Chang, S.-T. Chen, C. Chang, S.-H. Liu, S.-H.	2022	Bioelectrochemistry	148	-	16890	Journal	10.1016/j.bioelechem.2022.10820	Article

Reagent-Controlled Regiodivergent Annulations of Achmatowicz Products with Vinylogous Nucleophiles: Synthesis of Bicyclic Cyclopenta[b]pyrans and 8-Oxabicyclo[3.2.1]octane Derivatives	Lu, T.-Y. Hsu, W.-Y. Huang, B.-W. Han, J.-L.	2022	Organic Letters	24	42	26396	Journal	10.1021/acs.orglett.2c03127	Article
An Electromechanical Model for Clamped-Edge Bimorph Disk Type Piezoelectric Transformer Utilizing Kirchhoff Thin Plate Theory	Chen, S.-E. Gunawan, H. Wu, C.-C.	2022	Sensors	22	6	130124	Journal	10.3390/s22062237	Article
Improving Madden-Julian oscillation simulation in atmospheric general circulation models by coupling with a one-dimensional snow-ice-thermocline ocean model	Tseng, W.-L. Hsu, H.-H. Lan, Y.-Y. Lee, W.-L. Tu, C.-Y. Kuo, P.-H. Tsuang, B.-J. Liang, H.-C.	2022	Geoscientific Model Development	15	14	21100197121	Journal	10.5194/gmd-15-5529-2022	Article
Watershed landslide evolution combined with topographic factors to delineate the spatio-temporal distribution of sediment sources in central Taiwan	Lin, C.-Y. Wu, J.-P. Wu, S.-W. Lin, J.-Y. Chen, T.-Y.	2022	Catena	211	-	25155	Journal	10.1016/j.catena.2021.105978	Article
Flexible Printed Circuit Board Strain Sensor Embedded in a Miniaturized Pneumatic	Chuang, Y.-C. Cheng, T.-Y. Tsai, Y.-C.	2022	IEEE Sensors Journal	22	23	15047	Journal	10.1109/JSEN.2022.3216278	Article
Cesium carbonate-catalyzed synthesis of phosphorothioates via S-phosphination of thioketones	Chen, Z.-W. Pratheepkumar, A. Bai, R. Hu, Y. Badsara, S.S. Huang, K.-W. Lee, C.-F.	2022	Chemical Communications	58	78	22781	Journal	10.1039/d2cc04331a	Article
Orientation of Chiral Molecules by External Electric Fields: Focus on Photodissociation Dynamics	Tsai, P.-Y. Palazzetti, F.	2022	Symmetry	14	10	21100201542	Journal	10.3390/sym14102152	Review
Realization of ideal architecture of IoTs	Chen, C.-Y. Lin, C.-L. Chen, Y.-Y.	2022	Array	14	-	21101080486	Journal	10.1016/j.array.2022.100148	Article
How Is the Stroke? Inferring Shot Influence in Badminton Matches via Long Short-term Dependencies	Wang, W.-Y. Chan, T.-F. Peng, W.-C. Yang, H.-K. Wang, C.-C. Fan, Y.-C.	2022	ACM Transactions on Intelligent Systems and Technology	14	1	19700190323	Journal	10.1145/3551391	Article
Design of 3D Virtual Reality in the Metaverse for Environmental Conservation Education Based on Cognitive Theory	Lo, S.-C. Tsai, H.-H.	2022	Sensors	22	21	130124	Journal	10.3390/s22218329	Article
Patterns of antimicrobial resistance in Salmonella isolates from fattening pigs in Spain	Teng, K.T.-Y. Aerts, M. Jaspers, S. Ugarte-Ruiz, M. Moreno, M.A. Saez, J.L. Collado, S. de Frutos, C. Dominguez, L. Alvarez, J.	2022	BMC Veterinary Research	18	1	4300151401	Journal	10.1186/s12917-022-03377-3	Article
On the seasonality of long-range transport of acidic pollutants in East Asia	Chang, C.-T. Wang, L. Wang, L.-J. Liu, C.-P. Yang, C.-J. Huang, J.-C. Wang, C.-P. Lin, N.-H. Lin, T.-C.	2022	Environmental Research Letters	17	9	5200152632	Journal	10.1088/1748-9326/ac8b99	Article
Oxidant-free and metal-free highly-selective catalytic production of vanillic aldehyde through activated carbon fiber-mediated aerobic oxidation	Wu, H.-C. Park, Y.-K. Lin, J.-Y. Thanh, B.X. Jaree, A. Chen, W.-H. Lin, C.-H. You, S. Lin, K.-Y.A.	2022	Journal of Cleaner Production	375	-	19167	Journal	10.1016/j.jclepro.2022.134141	Article
Relationship between Preoperative Nutritional Status and Clinical Outcomes in Patients with Head and Neck Cancer	Wang, E.-Y. Chen, M.-K. Hsieh, M.-Y. Kor, C.-T. Liu, Y.-T.	2022	Nutrients	14	24	19700188323	Journal	10.3390/nu14245331	Article
Facile Synthesis of Polyaniline/Carbon-Coated Hollow Indium Oxide Nanofiber Composite with Highly Sensitive Ammonia Gas Sensor at the Room Temperature	Hong, S.-Z. Huang, Q.-Y. Wu, T.-M.	2022	Sensors	22	4	130124	Journal	10.3390/s22041570	Article

Insights to the 3D internal morphology and metal oxidation states of single atmospheric aerosol particles by synchrotron-based methodology	Young, L.-H. Chen, W.-Y. Wang, C.-C. Tang, M.-T. Tseng, S.-C. Lin, B.-H. Lai, C.-W. Chen, Y.-H. Yang, T.-T. Lin, Y.-T.	2022	Chemosphere	307	-	24657	Journal	10.1016/j.chemosphere.2022.135	Article
Application of Edge Computing in Structural Health Monitoring of Simply Supported PCI Girder Bridges	Lin, Y.-C. Hsiao, C.-Y. Tong, J.-H. Liao, C.-P. Song, S.-T. Tsai, H.-C. Wang, J.-L.	2022	Sensors	22	22	130124	Journal	10.3390/s22228711	Article
Fabrication, characterization and optical properties of Au-decorated Bi2Se3 nanoplatelets	Wang, C.-C. Chang, Y.-S. Lin, P.-T. Shieu, F.-S. Shih, H.-C.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-22408-5	Article
Research issues of the top 100 cited articles on information literacy in higher education published from 2011 to 2020: A systematic review and co-citation network analysis	Chen, C.-C. Wang, N.-C. Tang, K.-Y. Tu, Y.-F.	2022	Australasian Journal of Educational Technology	38	6	11600154702	Journal	10.14742/ajet.7695	Article
Nine equilibrium points of four point charges on the plane	Lee, T.-L. Tsai, Y.-L.	2022	Applied Mathematics Letters	132	-	25184	Journal	10.1016/j.aml.2022.108207	Article
Cloning and functional characterization of three sesquiterpene synthase genes from <i>Chamaecyparis formosensis</i> Matsumura	Hong, C.-Y. Tsao, N.-W. Wang, S.-Y. Chu, F.-H.	2022	Plant Science	321	-	16620	Journal	10.1016/j.plantsci.2022.111315	Article
Kefir peptides promote osteogenic differentiation to enhance bone fracture healing in rats	Lai, J.-C. Li, H.-P. Chang, G.R.-L. Lan, Y.-W. Chen, Y.-H. Tseng, Y.-S. Tu, M.-Y. Chen, C.-F. Chen, H.-L. Chen, C.-M.	2022	Life Sciences	310	-	20473	Journal	10.1016/j.lfs.2022.121090	Article
Innovative water-based dynamic liquid bubble membrane generation device for gas/vapour separation	Lin, Y.-C. Setnickova, K. Wang, D.K. Chu, Y.-F. Sima, V. Chiang, Y.-Y. Uchytil, P. Tseng, H.-H.	2022	Chemical Engineering Journal	450	-	16398	Journal	10.1016/j.cej.2022.138233	Article
Intelligent image analysis recognizes important orchid viral diseases	Tsai, C.-F. Huang, C.-H. Wu, F.-H. Lin, C.-H. Lee, C.-H. Yu, S.-S. Chan, Y.-K. Jan, F.-J.	2022	Frontiers in Plant Science	13	-	21100313905	Journal	10.3389/fpls.2022.1051348	Article
Nucleic acid amplification tests reduce delayed diagnosis and misdiagnosis of pulmonary tuberculosis	Feng, J.-Y. Lin, C.-J. Wang, J.-Y. Chien, S.-T. Lin, C.-B. Huang, W.-C. Lee, C.-H. Shu, C.-C. Yu, M.-C. Lee, J.-J. Chiang, C.-Y.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-16319-8	Article
Structural and Mechanistic Bases for StnK3 and Its Mutant-Mediated Lewis-Acid-Dependent Epimerization and Retro-Aldol Reactions	Chen, M.-H. Li, Y.-S. Hsu, N.-S. Lin, K.-H. Wang, Y.-L. Wang, Z.-C. Chang, C.-F. Lin, J.-P. Chang, C.-Y. Li, T.-L.	2022	ACS Catalysis	12	3	19700188320	Journal	10.1021/acscatal.1c04790	Article
Applying the design-based learning model to foster undergraduates' web design skills: the role of knowledge integration	Tsai, C.-Y. Shih, W.-L. Hsieh, F.-P. Chen, Y.-A. Lin, C.-L.	2022	International Journal of Educational Technology in Higher Education	19	1	21100466714	Journal	10.1186/s41239-021-00308-4	Article
Dissolved Oxygen-Sensing Chip Integrating an Open Container Connected with a Position-Raised Channel for Estimation of Cellular Mitochondrial Activity	Wu, C.-C. Wang, C.-J. Chang, C.L.-T. Shiku, H. Wang, Y.-R. Yan, J.-D. Ding, S.-J.	2022	ACS Sensors	7	7	21100824897	Journal	10.1021/acssensors.1c02287	Article
Climate resilience model on Arctic tourism: perspectives from tourism professionals	Chen, J.S. Wang, W. Kim, H. Liu, W.-Y.	2022	Tourism Recreation Research	-	-	16563	Journal	10.1080/02508281.2022.2122341	Article
Graphical comparison of numerical analysis, slope mass rating, and kinematic analysis for the effects of weak plane orientations on rock slope stability	Yeh, P.-T. Chen, I.-H. Lee, K.Z.-Z. Chang, K.-T.	2022	Engineering Geology	311	-	15648	Journal	10.1016/j.enggeo.2022.106900	Article
Surface co-silanization engineering to enhance amine functionality for adhesive heterojunction and antimicrobial application	Chang, Y.-C. Chandra Sil, M. Zhang, Y.-P. Chou, S.-C. Liu, Y.-X. Li, S.-Y. Chen, C.-M.	2022	Composites Science and Technology	218	-	15995	Journal	10.1016/j.compscitech.2021.1091	Article

A stochastic assessment to quantify the risk of introduction of African swine fever virus to Taiwan via illegal pork products carried by international travellers	Teng, K.T.-Y. Chang, C.-C. Tsai, Y.-L. Chiu, C.-Y. Yang, C.-Y. Chou, C.-C.	2022	Transboundary and Emerging Diseases	69	4	10300153305	Journal	10.1111/tbed.14337	Article
Induction of type II collagen expression in M2 macrophages derived from peripheral blood mononuclear cells	Wang, F.-H. Hsieh, C.-Y. Shen, C.-I. Chuang, C.-H. Chung, Y.-H. Kuo, C.-C. Lee, K.-D. Lin, C.-L. Su, H.-L.	2022	Scientific Reports	12	1	21100200805	Journal	10.1038/s41598-022-25764-4	Article
Assessing the synergies and trade-offs of development projects in response to climate change in an urban region	Huang, S.-L. Lee, Y.-C. Chiang, L.-Y.	2022	Journal of Environmental Management	319	-	23371	Journal	10.1016/j.jenvman.2022.115731	Article