

年度	系所	主持人	產學案編號	計畫名稱	合作企業	起始日	終止日	新台幣
2022年	工業設計系	高○漢	O01-111-M027	三輪EV造型機能整合研究	乘號股份有限公司	2022/5/15	2023/3/15	50,000
2022年	半導體材料與製程學士學位學程	吳○富	O01-111-S004	全鈦液流電池之最適操作模型研究	創芯科技有限公司	2022/1/1	2022/12/31	500,000
2022年	能源電池博士班	楊○誠	I01-111-S008	複合式矽-石墨棒-石墨/碳製備合成及材料相關物化性質檢測及電性分析	南亞塑膠工業股份有限公司	2022/2/15	2022/12/31	1,200,000
2022年	能源電池博士班	楊○誠	I01-111-S050	鋰電池原理介紹及電性分析實作	南亞塑膠工業股份有限公司	2022/7/1	2022/12/31	200,000
2022年	能源電池博士班	楊○誠	I01-111-S034	開發可量產技術高能量密度的高鎳NCM811氧化物(LiNi0.8Co0.1Mn0.1O2)正極材料	南亞塑膠工業股份有限公司	2022/5/1	2023/4/30	1,500,000
2022年	能源電池博士班	楊○誠	O01-111-S044	製備長壽命穩態電致變色層全固態電致變色玻璃技術開發計畫	宏益玻璃科技股份有限公司	2022/8/1	2023/7/31	2,000,000
2022年	材料工程系	陳○吉	O01-111-S025	銀奈米學晶薄膜澱鍍與蒸鍍製程最佳化	樂鑫材料科技股份有限公司	2022/4/1	2023/9/30	1,500,000
2022年	通識教育中心	林○良	O01-111-T058	Pass the TOEIC Test: Intermediate Course之SDGs主題字彙及習題補充教材	文鶴出版有限公司	2022/12/1	2023/7/31	50,000
2022年	電機工程系	王○寬	O01-111-E021	111年度即時數位模擬器系統維護	彩普科技股份有限公司	2022/6/1	2023/5/31	100,000
2022年	電機工程系	王○寬	O01-111-E047	111年改善新建再生能源及儲能系統對台電系統的衝擊	創價心工程顧問股份有限公司	2022/9/1	2023/8/31	4,320,000
2022年	電機工程系	王○寬	O01-111-E054	即時數位模擬器NovaCor系統維護	彩普科技股份有限公司	2022/11/1	2023/5/31	116,000
2022年	電子工程系	劉○維	I01-111-E042	中心設備及透明白光光伏元件試量合作	南亞塑膠股份有限公司	2022/6/1	2023/5/31	2,000,000
2022年	材料工程系	陳○平	O01-111-S031	有機光電材料量子元件特性分析	天光科技股份有限公司	2022/6/1	2023/5/31	200,000
2022年	材料工程系	黃○清	O01-111-S045	半透明大面積鈣鈣礦太陽能模組	四維精密材料股份有限公司	2022/8/1	2023/7/31	1,000,000
2022年	材料工程系	黃○清	I01-111-S040	透明有機太陽能電池阻水氣鍍膜之製備與特性研究	南亞塑膠工業股份有限公司	2022/5/1	2023/2/28	1,870,000
2022年	材料工程系	黃○清	O01-111-S001	透明電荷傳輸材料開發計畫	前創科技股份有限公司	2022/1/1	2022/6/30	2,500,000
2022年	電子工程系	曾○亮	U01-111-E102	高效率鈣鈣礦量子點發光二極體材料開發及其應用於頭盔瞄準器鍍膜技術研究	空軍航空科技研究發展中心	2022/1/7	2022/12/15	2,500,000
2022年	工業工程與管理系	陳○量	I01-111-M060	基於AI模型之煤價預測輔助系統	台灣化學纖維股份有限公司	2022/11/1	2023/10/31	1,800,000
2022年	環境與安全衛生工程系	陳○隆	I01-111-S056	以氮摻雜碳材改質磷酸鋰鐵於高效能鋰離子電池之應用	南亞塑膠工業股份有限公司	2022/11/1	2023/10/31	1,200,000
2022年	環境與安全衛生工程系	陳○隆	111-先導-S-02	回收廢棄鋰電池中有價金屬之高值化技術研究	明志科技大學	2022/7/1	2022/9/30	230,000
2022年	能源電池博士班	洪○峰	U01-111-S003	碳包覆鈦磷酸材料合成、XRD晶相鑑定、電子顯微結構、熱重及循環伏安分析	財團法人工業技術研究院	2022/3/15	2022/11/30	500,000
2022年	機械工程系	陳○彥	O03-111-E004	乘號商用電動機車委託測試	乘號股份有限公司	2022/3/1	2023/2/28	72,000
2022年	機械工程系	鄭○和	O03-111-E014	電動商用運輸國產化與智慧化開發平台	湛橋股份有限公司	2022/7/1	2022/12/31	36,000
2022年	機械工程系	鄭○和	I01-111-E010	先進電動貨車開發與測試驗證(一)	台塑汽車股份有限公司、台塑汽車貨運股份有限公司	2022/1/1	2022/12/31	#####
2022年	機械工程系	鄭○和	I01-111-E048	貨卡電動國產化生態系先行研究計畫	台塑汽車貨運股份有限公司	2022/8/1	2023/5/31	1,200,000
2022年	機械工程系	鄭○和	I01-111-E055	先進電動貨車開發與測試驗證(二)	台塑汽車股份有限公司、台塑汽車貨運股份有限公司	2022/9/1	2023/12/31	#####
2022年	材料工程系	賴○廷	O01-111-S072	奈米鑽石的成長與分析	碩傑企業股份有限公司	2022/12/1	2023/11/30	200,000

年度	系所	教師	技轉編號	案名	合作公司	起始日	結束日	新台幣
2022年	電機工程系	陳○宏	T01-111-E002	電池管理系統靜態電流抑制技術	台塑汽車貨運股份有限公司	2022/5/1	2023/4/30	1,000,000
2022年	電子工程系	劉○維	T01-111-E010	高靈敏與全蒸鍍型鈣鈦礦感測器之製程技術	矽導科技有限公司	2022/12/1	2024/11/30	1,050,000
2022年	電子工程系	劉○維	T01-111-E001	可見光吸收之蒸鍍型有機光感測器元件	晶宜科技股份有限公司	2022/6/1	2023/5/31	1,050,000

年度	主聘系所	教師姓名	專利名稱	專利區域	專利類型	申請日期/生效日期	終止日期	證書字號	申請人/權利人
2022年	能源電池博士班	楊純誠	利用連續式泰勒流動反應器製備富鎳氫氧化物前驅物與富鎳正極複合材料之製備方法	國內	發明專利	2022/10/21	2040/7/27	I781427	明志科技大學
2022年	能源電池博士班	楊純誠	全固態複合式高分子電解質膜的製備方法及全固態鋰電池	國內	發明專利	2022/2/21	2041/11/4	I756162	明志科技大學
2022年	能源電池博士班	楊純誠	矽/還原態皺褶式氧化石墨烯/碳複合負極材料之製備方法及其在儲能系統之應用	國內	發明專利	2022/8/1	2039/9/25	I772686	明志科技大學
2022年	能源電池博士班	楊純誠	固態複合高分子電解質膜及全固態鋰電池	國內	發明專利	2022/11/21	2042/6/26	I784918	明志科技大學
2022年	能源電池博士班	楊純誠	複合式固態電解質膜之製備方法、及使用該複合式固態電解質膜之全固態鋰電池	國外(不含美國)	發明專利	2022/6/22	2041/7/19	JP7093588B2	明志科技大學
2022年	材料工程系	謝建國	HEAT CONDUCTIVE DEVICE AND ELECTRONIC DEVICE	美國	發明專利	2022/2/8	2040/5/28	US11246238B2	SULFURSCIENCE TECHNOLOGY CO., LTD., MING CHI UNIVERSITY OF TECHNOLOGY
2022年	材料工程系	程志賢	金屬支撐型微管式固體氧化物燃料電池之製備方法	國內	發明專利	2022/11/11	2040/11/23	I783307	明志科技大學
2022年	材料工程系	陳O吉	鍍於耐熱鋼上的抗高溫氧化複合材料層及其製造方法	國內	發明專利	2022/1/21	2040/5/28	I753441	明志科技大學,北京科技大學
2022年	材料工程系	彭O增	MANUFACTURING METHOD OF INDIUM TIN OXIDE	美國	發明專利	2022/6/14	2041/9/16	US11359299B2	明志科技大學
2022年	材料工程系	彭O增	MANUFACTURING METHOD OF TITANIUM DIOXIDE SOLUTION AND TITANIUM DIOXIDE FILM	美國	發明專利	2022/9/8	2041/11/24	US20220281755A1	明志科技大學

2022年本校發表國際能源期刊論文

年份	作者	標題	來源出版物名稱	卷	期	來源出版物	SDGs
2022	Houng, A.T.J Varbanov, P.S.J Nižetić, S.J Sir	Perspective review on Municipal Solid Waste-to-energy route; Characteristics, m	Journal of Cleaner Production	359	-	Scopus	SDG 7  SDG 8  SDG 9  SDG 11  SDG 12
2022	Houng, A.T.J Nižetić, S.J Ne, K.H.I Panadaro	Microbial fuel cells for bioelectricity production from waste as sustainable prosp	Chemosphere	287	-	Scopus	SDG 7  SDG 9  SDG 12
2022	Houng, A.T.J Pandey, A.J Hume, Z.J Luque, C.-H	Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustaina	ACS Sustainable Chemistry and Engineering	10	10	Scopus	SDG 7
2022	Mei, B.J Barnoon, P.J Toohraie, D.J Su, C.-H.	Energy, exergy, environmental and economic analyzes (4E) and multi-objective c	Renewable and Sustainable Energy Reviews	157	-	Scopus	SDG 7  SDG 8
2022	Chatterjee, P.I Ambati, M.S.K.I Chakraborty,	Photovoltaic/photo-electrocatalysis integration for green hydrogen: A review	Energy Conversion and Management	261	-	Scopus	SDG 7
2022	Lei, Y.J Ne, K.H.I Zhang, Y.J Li, Z.J Xu, S.I H	One-pot loading of cadmium sulfide onto tunstene carbide for efficient photocata	Chemical Engineering Journal	434	-	Scopus	SDG 7
2022	Su, G.J Ong, H.C.I Fattah, I.M.R.I Ok, Y.J Xu, S.I	State-of-the-art of the pyrolysis and co-pyrolysis of food waste: Progress and cha	Science of the Total Environment	809	-	Scopus	SDG 3  SDG 7  SDG 12
2022	Jiang, B.-H.I Peng, Y.-J.I Su, Y.-W.I Chang, J.	A polymer donor with versatility for fabricating high-performance ternary organo	Chemical Engineering Journal	431	-	Scopus	SDG 7
2022	Chong, C.-C.I Cheng, Y.-W.I Ne, K.H.I Vo, D.	Bio-hydrogen production from steam reforming of liquid biomass wastes and bio	Fuel	311	-	Scopus	SDG 7
2022	Hsiao, Y.-S.I Chang-Jian, C.-W.I Chu Weng,	Doping with W6+ ions enhances the performance of TiNb2O7 as an anode mater	Applied Surface Science	573	-	Scopus	SDG 7
2022	Dong, Z.I Yu, X.I Chang, C.-T.I Zhou, D.I Sai	How does feed-in tariff and renewable portfolio standard evolve synergistically?	Renewable Energy	186	-	Scopus	SDG 7  SDG 13  SDG 17
2022	Sang, X.I Yu, X.I Chang, C.-T.I Liu, X.	Electric bus charging station site selection based on the combined DEMATEL an	Computers and Industrial Engineering	168	-	Scopus	SDG 7  SDG 11  SDG 13
2022	Liou, T.-H.I Wang, S.-Y.I Lin, Y.-T.I Yang, S.	Sustainable utilization of rice husk waste for preparation of ordered nanostructu	Colloids and Surfaces A: Physicochemical and E	636	-	Scopus	SDG 7
2022	Yu, X.I Ge, S.I Zhou, D.I Wang, Q.I Chang, C.	Whether feed-in tariff can be effectively replaced or not? An integrated analysis	Energy	245	-	Scopus	SDG 7  SDG 8  SDG 10  SDG 13  SDG 17
2022	Hanmandlu, C.I Sahoo, M.I Liu, C.-C.I Chen,	Sea-layer fluorine-functionalized graphene hole-selective contacts for efficient ir	Chemical Engineering Journal	430	-	Scopus	SDG 7
2022	Jeyakumar, J.I Wu, Y.-S.I Wu, S.-H.I Jose, R.I	Fluorine-Modified Quaternary Layered Ni-Rich Cathode Materials by Li2ZrO3fo	ACS Applied Energy Materials	5	4	Scopus	SDG 7
2022	Abdelhasset, W.K.I Elkholi, S.M.I Jade Catala	Development of multiple machine-learning computational techniques for optimiz	Arabian Journal of Chemistry	15	6	Scopus	SDG 7
2022	Hsu, S.-C.I Hsiao, Y.-S.I Lu, C.-Z.I Chiang, H.	The effect of dual-doping on the electrochemical performance of LiNi0.5Mn1.5	Ceramics International	48	10	Scopus	SDG 7
2022	Singh, S.V.I Gupta, U.I Biring, S.I Mukherjee	In-situ grown nanoscale p-n heterojunction of Cu2S-TiO2 thin film for efficient p	Surfaces and Interfaces	28	-	Scopus	SDG 7
2022	Cheng, T.-M.I Huang, H.-W.I Chen, T.-Y.I Ya	Facile synthesis of metal organic framework-derived cobalt sulfide on Ni foam a	Journal of Energy Storage	56	-	Scopus	SDG 7
2022	Tang, J.-F.I Sie, Y.-D.I Tseng, Z.-J.I Lin, J.-F	Perovskite Quantum Dot-ZnO Nanowire Composites for Ultraviolet-Visible Phot	ACS Applied Nano Materials	5	5	Scopus	SDG 7
2022	Li, M.-C.I Dai, M.-J.I Lin, S.-S.I Chen, S.-C.I	Effect of annealing temperature on the optoelectronic properties and structure of	Ceramics International	48	2	Scopus	SDG 7
2022	Wang, Y.I Wang, Z.I Zheng, F.I Sun, J.I Oh, I.	Ferroelectric Engineered Electrode-Composite Polymer Electrolyte Interfaces for	Advanced Science	9	13	Scopus	SDG 7
2022	Shih, J.-Y.I Lin, G.-Y.I Li, Y.-J.I Hung, T.-I	Operando investigation on the fast two-phase transition kinetics of LiFePO4/C co	Electrochimica Acta	419	-	Scopus	SDG 7
2022	Sakalley, S.I Saravanan, A.I Cheng, W.-C.I Cl	High power impulse magnetron sputtering growth processes for copper nitride thi	Journal of Alloys and Compounds	896	-	Scopus	SDG 7
2022	Abdelal, M.M.I Hung, T.-C.I Mohamed, S.G	Two Birds with One Stone: Hydrogel-Derived Hierarchical Porous Activated Car	ACS Sustainable Chemistry and Engineering	10	14	Scopus	SDG 7
2022	Zheng, X.-X.I Chang, C.-T.I Li, D.-J.I Liu, Z.	Designing an incentive scheme for producer responsibility organization of waste	Computers and Industrial Engineering	167	-	Scopus	SDG 7  SDG 9
2022	Kamal Abdelhasset, W.I Alrawaili, S.M.I Elsa	Optimization of heterogeneous Catalyst-assisted fatty acid methyl esters biodiese	Arabian Journal of Chemistry	15	7	Scopus	SDG 7  SDG 13
2022	Walle, K.-Z.I Wu, Y.-S.I Wu, S.-H.I Chang, J.	Lithium Nafion-Modified Li6.05Ga0.25La3Zr2O11.8F0.2Trilayer Hybrid Solid E	ACS Applied Materials and Interfaces	14	13	Scopus	SDG 7
2022	Beshahwured, S.I.I Meneshaz, T.H.I Babulal	Hybrid Interconnected Hybrid Solid Electrolyte Membrane for All-Solid-Sta	ACS Applied Energy Materials	5	2	Scopus	SDG 7
2022	Hashemzahi, M.I Prouzfar, V.I Navebadezh,	Modelling and optimization of main independent parameters for biodiesel produc	Journal of Chemical Technology and Biotechnol	97	1	Scopus	SDG 7
2022	Ho, T.-T.I Jokar, E.I Quadri, S.I Chen, R.-S.I	Enhancing the photovoltaic properties of SnS-Based solar cells by crystallograph	Solar Energy Materials and Solar Cells	236	-	Scopus	SDG 7
2022	Palani, R.I Wu, Y.-S.I Wu, S.-H.I Jose, R.I Ya	Metal-organic framework-derived ZrO2/NiCo2O4/graphene mesoporous cake-li	Electrochimica Acta	412	-	Scopus	SDG 7
2022	Nikodimos, Y.I Su, W.-N.I Bezabeh, H.K.I Tsa	Effect of selected dopants on conductivity and moisture stability of Li3PS4 sulfide	Materials Today Chemistry	24	-	Scopus	SDG 7
2022	Hsiao, Y.-C.I Yu, H.-Y.I Lee, P.-Y.I Youghan	Facile synthesis of ammonium-decorated cobalt molybdenum fluoride as electro	Journal of Energy Storage	56	-	Scopus	SDG 7
2022	Wu, Y.-S.I Pham, Q.-T.I Yang, C.-C.I Chen,	Coating of a Novel Lithium-Containing Hybrid Oligomer Additive on Nickel-Ri	ACS Sustainable Chemistry and Engineering	10	22	Scopus	SDG 7
2022	Chen, T.-C.I Ibrahim Alazzawi, F.I.J Grimald	Development of Machine Learning Methods in Hybrid Energy Storage Systems i	Mathematical Problems in Engineering	2022	-	Scopus	SDG 7
2022	Ling, J.I Karupiah, C.I Das, S.I Singh, V.K.I	Quasi-anisotropic benefits in electrospun nickel-cobalt-manganese oxide nano-co	New Journal of Chemistry	46	20	Scopus	SDG 7
2022	Lee, P.-H.I Wu, T.-T.I Li, C.-F.I Glowienka,	Featuring Semitransparent p - i - n Perovskite Solar Cells for High-Efficienc	Solar RRL	6	4	Scopus	SDG 7
2022	Jeng, S.-L.I Tan, C.-M.I Chen, P.-C.	Statistical distribution of Lithium-ion batteries useful life and its application for	Journal of Energy Storage	51	-	Scopus	SDG 7
2022	Mana-av, H.I Chen, C.-S.I Wang, X.-H.I Tu,	Polarization-sensitive UVA photodetector based on heterojunction of TiO and ra	Ceramics International	48	15	Scopus	SDG 7
2022	Wu, Z.-H.I Shih, J.-Y.I Li, Y.-J.I Tsai, Y.-D	MoO3 Nanoparticle Coatings on High-Voltage 5 V LiNi0.5 Mn1.5 O4 Cathode	Nanomaterials	12	3	Scopus	SDG 7
2022	Shi, Z.-E.I Long, J.-Y.I Li, C.-W.I Hsieh, S.-Y	A multifunctional ligand for defect passivation of perovskite film realizes air-sta	Sustainable Energy and Fuels	6	8	Scopus	SDG 7
2022	Wang, J.-P.I Mana-av, H.I Chen, C.-S.I Haw,	Enhanced UV photosensing properties by field-induced polarization in ZnO-mod	Journal of Alloys and Compounds	902	-	Scopus	SDG 7
2022	Sung, Y.-M.I Tsao, C.-S.I Lin, H.-K.I Cha, H.	Scale-up fabrication and characteristic study of oligomer-like small-molecule sol	Solar Energy	231	-	Scopus	SDG 7
2022	Huang, H.-W.I Hsiao, Y.-S.I Wu, S.-H.I Jose, R	In-situ carbonization of zeolitic imidazolate framework-67 on Ni foam as binder	Journal of Energy Storage	56	-	Scopus	SDG 7
2022	Hsia, T.-N.I Lu, H.-C.I Hsueh, Y.-C.I Raresh	Supercy poly(vinylidene fluoride-co-hexafluoropropylene) coating on a lithium	Journal of Colloid and Interface Science	626	-	Scopus	SDG 7
2022	Seenivasan, M.I Jeyakumar, J.I Wu, T.-Y.I	Bifunctional coating layer on Ni-rich cathode materials to enhance electrochemi	Composites Part B: Engineering	242	-	Scopus	SDG 7
2022	Lin, S.-C.I Cheng, T.-H.I Chen, C.-P.I Chen,	Structural effect on triphenylamine dibenzofulvene based interfacial hole transpo	Materials Chemistry and Physics	288	-	Scopus	SDG 7
2022	Wu, Y.-F.I Pai, H.I Kubendhrian, S.I Youghan	Size effects of zeolitic imidazolate framework 67 polyhedrons as Co-catalyst of	International Journal of Hydrogen Energy	47	97	Scopus	SDG 7
2022	Chiu, Y.-L.I Li, C.-W.I Kang, Y.-H.I Lin, C.-C	Dual-Functional Enantiomeric Compounds as Hole-Transporting Materials and li	ACS Applied Materials and Interfaces	14	22	Scopus	SDG 7
2022	Koishi, M.I Kotobuki, M.	Preparation of Y-doped Li7La3Zr2O12 by co-precipitation method.	Ionics	28	5	Scopus	SDG 7
2022	Cheng, Y.-W.I Hsieh, T.-H.I Huang, Y.-C.I T	Calcined Co(II)-Chelated Polyazomethine as Cathode Catalyst of Anion Exchang	Polymers	14	9	Scopus	SDG 7
2022	Nikodimos, Y.I Su, W.-N.I Taklu, B.W.I Meri	Resolving anodic and cathodic interface-incompatibility in solid-state lithium me	Journal of Power Sources	535	-	Scopus	SDG 7
2022	Amirtha, R.M.I Hsu, H.-H.I Abdelal, M.M.I	Constructing a Carbon-Encapsulated Carbon Composite Material with Hierarchic	International Journal of Molecular Sciences	23	12	Scopus	SDG 7
2022	Yu, Y.-Y.I Shih, K.-Y.I Peng, Y.-C.I Chiu, Y.	High-efficiency organic photovoltaic cells processed using a non-halogen solvent	Materials Chemistry and Physics	282	-	Scopus	SDG 7
2022	Ling, J.I Karupiah, C.I Das, S.I Misson, L.I I	Electrospun Ternary Composite Metal Oxide Fibers as an Anode for Lithium-Ion	Frontiers in Materials	9	-	Scopus	SDG 7
2022	Nawade, A.I Ramva, K.I Chakraborty, S.I Ba	Copper based transparent solar heat recting film on glass through in-situ nanoco	Ceramics International	48	2	Scopus	SDG 7
2022	Jiang, B.-H.I You, Y.-C.I Lin, D.-W.I Chen,	High-Performance Ternary Organic Photovoltaics Incorporating Small-Molecule	ACS Applied Energy Materials	5	12	Scopus	SDG 7
2022	Ni, Y.I Shen, G.I Ne, K.H.I Zhu, T.I Li, S.I Li	Rational construction of superhydrophobic PDMS/PTW@ cotton fabric for efficien	Cellulose	29	8	Scopus	SDG 7  SDG 8  SDG 13
2022	Chen, Y.-H.I Lee, P.-L.I Sakalley, S.I Wen, C.	Enhanced Electrical Properties of Copper Nitride Films Deposited via High Press	Nanomaterials	12	16	Scopus	SDG 7
2022	Chakraborty, I.I Lai, S.-S.I Wu, Y.-J.I Lai, C.	$\alpha$ -Fe2O3 Nanoparticles Aided-Dual Conversion for Self-Powered Bio-Based Ph	Nanomaterials	12	7	Scopus	SDG 7
2022	Hsu, P.-Y.I Hu, T.-Y.I Kumar, S.R.I Wu, K.C	Swelling-Resistant, Crosslinked Polyvinyl Alcohol Membranes with High ZIF-8	Nanomaterials	12	5	Scopus	SDG 7
2022	Liao, W.-L.I Hung, T.-F.I Abdelal, M.M.I Cl	Highly efficient sodium-ion capacitor enabled by mesoporous NaTi2(PO4)3/C an	Journal of Energy Storage	55	-	Scopus	SDG 7
2022	Quadri, S.I Qorbani, M.I Sabbah, A.I Wu, T.-S	Short- and Long-Range Cation Disorder in (Ag xCu1- x)ZnSnSe4Kesterites	Chemistry of Materials	34	15	Scopus	SDG 7
2022	Chan, S.-H.I Chang, Y.-H.I Jao, M.-H.I Hsiao	High Efficiency Quasi-2D/3D Pb - Ba Perovskite Solar Cells via Phenethylammi	Solar RRL	6	6	Scopus	SDG 7
2022	Wang, S.-C.I Chen, G.-J.I Liu, Y.-H.I Luo, Y.	An active balancer with rapid bidirectional charge shuttling and adaptive equaliz	International Journal of Energy Research	46	1	Scopus	SDG 7
2022	Das, B.I Soundararajan, N.I Kashwan, S.P.I Ja	Bioinspired polyaniline decorated polyvinyl acid nanofiber electrode by electro	International Journal of Energy Research	46	3	Scopus	SDG 6  SDG 7
2022	Wu, M.-C.I Wang, Q.-H.I Hsiao, K.-C.I Chen,	Composition engineering to enhance the photovoltaic performance and to prolong	Chemical Engineering Journal Advances	10	-	Scopus	SDG 7
2022	Rath, P.C.I Jheng, Y.-S.I Chen, C.-C.I Tsai, C	Tape-cast Ce-substituted Li7La3Zr2O12 electrolyte for improving electrochemic	Journal of Materials Chemistry A	10	42	Scopus	SDG 7
2022	Shih, J.-Y.I Chen, Y.-R.I James Li, Y.-J.I Hun	Suppressed Volume Change of a Spray-Dried 3D Spherical-like Si/Graphite Com	ACS Sustainable Chemistry and Engineering	10	38	Scopus	SDG 7
2022	Tsai, Y.-D.I Shih, J.-Y.I Li, Y.-J.I Hume, T.-I	Effect of Single-Walled Carbon Nanotube Sub-carbon Additives and Graphene O	ACS Sustainable Chemistry and Engineering	10	50	Scopus	SDG 7
2022	Yang, Z.-Z.	Development of an Active Equalizer for Lithium-Ion Batteries	Electronics (Switzerland)	11	14	Scopus	SDG 7
2022	Sun, C.-C.I Chou, C.-H.I Lin, Y.-L.I Huang, Y.	A Cost-Effective Passive/Active Hybrid Equalizer Circuit Design	Energies	15	6	Scopus	SDG 7
2022	Mangesh, V.I.I Tamizhdurai, P.I Umassankar,	Hydroprocessing mixed waste plastics to obtain clean transport fuel	Journal of Cleaner Production	358	-	Scopus	SDG 7  SDG 12
2022	Hsu, S.-C.I Chang-Jian, C.-W.I Huang, T.-Y.I	Synergistic effect of doping and surface engineering on LiNi0.5Mn1.5O4 and its	Ceramics International	48	19	Scopus	SDG 7
2022	Lin, Y.-J.I Huang, C.-S.I Tsai, P.-C.I Hsiao, Y.	Minor Copper-Doped Aluminum Alloy Enabling Long-Lifetime Organic Light-E	ACS Applied Materials and Interfaces	14	50	Scopus	SDG 7
2022	Rath, P.C.I Hsu, W.-L.I Chen, C.-C.I Huang,	Dual interface design of Ga-doped Li7La3Zr2O12/polymer composite electrolyte	International Journal of Energy Research	46	12	Scopus	SDG 7
2022	Hung, W.-K.I Tseng, Y.-H.I Lin, C.-C.I Chen,	Anion-Exchange Blue Perovskite Quantum Dots for Efficient Light-Emitting De	Nanomaterials	12	22	Scopus	SDG 7
2022	Nakayama, M.I Nakano, K.I Harada, M.I Tan	Na superionic conductor-type LiZr2(PO4)3 as a promising solid electrolyte for us	Chemical Communications	58	67	Scopus	SDG 7
2022	Prouzfar, V.I Sakhaeina, H.I Su, C.-H.	Power generation using produced biodiesel from palm oil with GTG, STG and co	Fuel	314	-	Scopus	SDG 7  SDG 12  SDG 13
2022	Yan, B.I Qu, Y.I Ren, H.I Lu, X.I Wang, Z.I Li	A solid-liquid composite electrolyte with a vertical microporous Li1.5Al0.5Ge1.5	Materials Chemistry and Physics	287	-	Scopus	SDG 7
2022	Huang, S.-H.I Wang, Y.-C.I Hsiao, K.-C.I Lee	Solid-State Ligand-Capped Metal Oxide Electron-Transporting Layer for Efficient	Solar RRL	6	2	Scopus	SDG 7
2022	James Li, Y.-J.I Chien, W.-C.I Tang, C.-J.I W	Electrochemical performance of spherical Li-rich LMNCO cathode materials pre	Ceramics International	48	5	Scopus	SDG 7
2022	Seenivasan, M.I Jeyakumar, J.I Jose, R.I Yang	Spray-drying Al onto hydroxide precursors to prepare LiNi0.855Co0.095Al0.05C	Journal of Alloys and Compounds	926	-	Scopus	SDG 7
2022	Liang, T.-C.I Su, H.-Y.I Chen, S.-A.I Chen, Y.	Planar Perovskite Solar Cells Using Perovskite CsPbI3 Quantum Dots as Efficient	Materials	15	24	Scopus	SDG 7
2022	Hsiao, Y.-C.I Hung, J.-L.I Kubendhrian, S.I Y	Novel synthesis of N-doped graphene quantum dot as conductive agent for carbon	Journal of Energy Storage	56	-	Scopus	SDG 7
2022	Kotobuki, M.I Zhou, C.I Su, Z.I Yang, L.I Wa	Importance of substrate materials for sintering Li1.5Al0.5Ge1.5(PO4)3 solid elec	Journal of Solid State Chemistry	310	-	Scopus	SDG 7
2022	Kuo, C.-C.I He, Z.-Y.I Lee, C.-X.	Development of a Three-Dimensional Optical Verification Technology without E	Materials	15	17	Scopus	SDG 7
2022	Lin, C.-H.I Chien, M.-Y.I Chuang, Y.-C.I Lai	Porous Membranes of Polysulfone and Graphene Oxide Nanohybrids for Vanadi	Polymers	14	24	Scopus	SDG 7
2022	Lee, K.-T.I Pien, C.-Y.	Preparation of monosodium 2-sulfoterephthalate to make a MIL-101(Cr)-SO3H c	New Journal of Chemistry	46	2	Scopus	SDG 7  SDG 9
2022	Hsieh, C.-T.I Mallick, B.C.I Gandomi, Y.A.I	Improvement on high-temperature electrochemical performance of lithium-ion pe	Electrochimica Acta	423	-	Scopus	SDG 7
2022	Chen, C.-P.I Liu, C.-I Peng, Y.-C.I Jiang, B.	Optimizing the solvent and blend morphology results in an additive-free organ	Materials Chemistry and Physics	285	-	Scopus	SDG 7
2022	Su, C.-H.I Masoumi, S.A.O.I Prouzfar, V.I N	Investigation of Options for Harnessing Energy Losses at Pressure-Reducing Stat	Journal of Pipeline Systems Engineering and Pra	13	4	Scopus	SDG 7
2022	Sukerta, I.M.I Chen, T.-C.I Marizal, J.I Salih	Comparison of lateral spillway and morning glory spillway performance in flood	Journal of Water and Land Development	53	-	Scopus	SDG 7  SDG 11  SDG 13
2022	Yu, Y.-Y.I Chen, H.-C.I Shih, K.-Y.I Peng, Y.	Improving the Performance of Polymer Solar Cells with Benzothienylpervlenetriim	Polymers	14	20	Scopus	SDG 7
2022	Yu, V.F.I Lin, Y.-S.I Jodiawan, P.I He, M.-D.	Optimizing the Maintenance Schedule of a Combined Cycle Gas Turbine Condi	IEEE Access	10	-	Scopus	SDG 7
2022	Palival, A.I Mardegan, L.I Roldan-Carmona,	Efficient Semitransparent Perovskite Solar Cells Based on Thin Compact Vacu	Advanced Materials Interfaces	9	29	Scopus	SDG 7