



化學工程系

Department of Chemical Engineering

一、師資

職稱	姓名	學歷	專長
講座教授 兼綠色能源電池研究中心主任、產學服務組組長、能源電池科技博士學位學程主任	楊純誠 Chun-Chen Yang	美國哥倫比亞大學 化工博士	電化學、電化學工程、電池技術、高分子電解質膜
特聘教授	柯雲飛 Yun-Fei Ko	美國馬里蘭大學 College Park 校區 化工博士	新陳代謝工程、生化工程、發酵工程、工程最適化
教授 兼環資學院院長	簡文鎮 Wen-Chen Chien	國立台灣大學 化工博士	溶液結晶技術與結晶製程、微/奈米粉體及懸浮液製備、有機/無機複合材料製備、鋰離子電池材料製備、聚酯材料循環利用製程開發
教授 兼化工系系主任、中草藥萃取與純化中心主任	蘇家弘 Chia-Hung Su	國立清華大學 化學工程研究所 博士	生化工程、反應工程、生質能源（生質汽油、柴油、航空油、潤滑油）、程序智能控制
教授 兼生物技術處處長、生化工程技術研發中心主任	劉昭麟 Chao-Lin Liu	國立臺灣大學 醫學院生化學研究所 博士	蛋白質與基因工程、蛋白質體、生物有機質譜、生物技術
教授	劉宗宏 Tzong-Horng Liou	國立中央大學 化工博士	奈米材料、碳材料、材料資源回收利用、陶瓷材料
教授	吳弦聰 Hsien-Tsung Wu	國立台灣科技大學 化工博士	化工熱力學、超臨界流體微細化程序 (SAA, SAS, PGSS, SFAD)、藥物控制釋放模式與肺部釋放之體外氣動行為研究、分散聚合法製備高分子微粒與顏料微膠囊、酯化反應動力學研究
副教授 兼半導體材料與製程學士學位學程主任	吳永富 Yung-Fu Wu	國立台灣大學 化工博士	光電顯示器材料與製程、半導體材料與製程、電化學工程

職稱	姓名	學歷	專長
副教授 兼學務處課外活動組 組長	簡良榮 Liang-Jung Chien	國立台灣科技大學 化工博士	基因代謝工程、有機高分子、生 質能源、觸媒轉化技術
副教授	李國通 Kuo-Tong Lee	美國德州大學 材料科學與工程 博士	玻璃陶瓷、有機無機混成材料、 陶瓷粉體製備、金屬有機架構物
副教授	吳紹榮 Shao-Jung Wu	國立中央大學 化工博士	高分子合成、高分子結構與物 性、生質材料應用
助理教授 兼環資學院榮譽學程 主任	施正元 Jeng-Ywan Shih	國立台灣科技大學 營建材料博士	奈米複合材料、無機聚合物、纖 維材料
助理教授 兼生物技術處生化分 析組組長	蔡榮進 Jung-Chin Tasi	國立台灣大學 化工博士	製程模擬與最適化、相平衡、超 臨界流體技術、分離技術
助理教授 兼生化工程技術研發 中心生化分離組組長	黃錦鴻 Kim Hoong Ng	馬來西亞彭亨大學 化工博士	觸媒製備、光催化、污廢水治理
助理教授 兼教務處招生組組長	郭亮吟 Liang-Yin Kuo	柏林自由大學生 物、化學、醫藥學 系博士	密度泛函理論、第一原理分子動 力學、表面和界面模擬、能源材 料、熱力學
助理教授	李英正 Yingjeng James Li	美國紐約州立大學 化學博士	能源材料、氫能科技、儲能科 技、化學品合成
助理教授	陳順基 Shun-Chi Chen	國立台灣師範大學 化學博士	有機光化學、有機合成、物理有 機、儀器分析
助理教授	杜鶴芸 He-Yun Du	國立台灣大學 化工博士	尖端材料成長、觸媒製備與分 析、電化學顯微鏡技術、原子力 顯微鏡技術
助理教授	鄭有為 Yu-Wei Cheng	國立台灣大學 高分子科學與工程 學博士	高分子合成、高分子複合材料、 有機-無機混成材料、奈米材料、 生醫檢測技術
助理教授	傅俊中 Chun-Chong Fu	國立清華大學化學 工程研究所博士	實驗設計法、綠能與環境、計算 機概論
講師	陳政佑 Cheng-Yu Chen	國立台灣科技大學 化工碩士	反應工程、程序控制、程序模擬

職稱	姓名	學歷	專長
講師	阮宏藝 Horng-Yi Juan	國立高雄師範大學 化學碩士	無機合成、化工機械、TFT-LCD 製程
講師	程桂祥 Kuei-Hsiang Chen	長庚大學 化工碩士	工業觸媒、反應工程、儀器分析 實驗、聚合物實驗
教授	張煜光 Yu-Kaung Chang (112.02 退休)	英國劍橋大學 化學工程博士	生化工程、生物反應器設計、蛋 白質純化技術

二、期刊論文

- [1] Yun-Jie Lin Yun-Jie Lin Department of Materials Science and Engineering, National Tsing Hua University, Hsinchu 30013, Taiwan, ROC More by Yun-Jie Lin , Chia-Sheng Huang, Pei-Chung Tsai, Yu-Lun Hsiao, Cheng-Yu Chen, and Jwo-Huei Jou,“Minor Copper-Doped Aluminum Alloy Enabling Long-Lifetime Organic Light-Emitting Diodes”,ACS APPLIED MATERIALS & INTERFACES,14, (50) ,pp.55898,pp.55904,2022, 【SCIE & EI 】
- [2] Hsien-Tsung Wu, Yao-Hsiang Chuang, Han-Cyuan Lin, Tzu-Chieh Hu, Yi-Jia Tu and Liang-Jung Chien,“Immediate Release Formulation of Inhaled Beclomethasone Dipropionate-Hydroxypropyl-Beta-Cyclodextrin Composite Particles Produced Using Supercritical Assisted Atomization”,polymers,14,(10),pp.2114-1,pp.2114-16,2022,【SCIE & EI 】
- [3] Christoph Roitzheim, Yoo Jung Sohn, Liang-Yin Kuo, Grit Häuschen, Markus Mann, Doris Sebold, Martin Finsterbusch, Payam Kaghazchi, Olivier Guillon, Dina Fattakhova-Rohlfing,“All-Solid-State Li Batteries with NCM-Garnet-Based Composite Cathodes: The Impact of NCM Composition on Material Compatibility”,ACS APPLIED ENERGY MATERIALS,5, (6) ,pp.6913,pp.6926,2022, 【SCIE & EI 】
- [4] Guan-Yu Huang, Wong-Jin Chang, Tzu-Wei Lu , I-Lin Tsai, Shao-Jung Wu, Ming-Hua Ho, Fwu-Long Mi,“Electrospun CuS nanoparticles/chitosan nanofiber composites for visible and near-infrared light-driven catalytic degradation of antibiotic pollutants”,Chemical Engineering Journal,431,pp.134509-1,pp.134509-16,2022, 【SCIE & 非EI 】
- [5] Liu Lexin, Ni Yimeng, Mao Jiajun, Li Shuhui, Ng Kim Hoong, Chen Zhong, Huang Jianying, Cai Weilong, Lai Yuekun,“Flexible and Highly Conductive Textiles Induced by Click Chemistry for Sensitive Motion and Humidity Monitoring”,ACS APPLIED MATERIALS & INTERFACES,14, (33) ,pp.37878,pp.37886,2022, 【SCIE & EI 】
- [6] Hoang AT, Pandey A, Huang ZH, Luque R, Ng KH, Papadopoulos AM, Chen WH, Rajamohan S, Hadiyanto H, Nguyen XP, Pham V,“Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustainable Biofuel Production Route”,ACS SUSTAINABLE CHEMISTRY & ENGINEERING,10, (10) ,pp.3079,pp.3115,2022, 【SCIE & EI 】
- [7] Yimeng Ni, Gang Shen, Kim Hoong Ng, Tianxue Zhu, Shuhui Li, Xiao Li, Weilong Cai, Zhong Chen, Jianying Huang,“Rational construction of superhydrophobic

- PDMS/PTW@cotton fabric for efficient UV/NIR light shielding”,*Cellulose*,29, (8) ,pp.4673,pp.4685,2022, 【SCIE & EI 】
- [8] Witoon T, Numpilai T, Nijpanich S, Chanlek N, Kidkhunthod P, Cheng CK, Ng KH, Vo DVN, Ittisanronnachai S, Wattanakit C, Chareonpanich M, Limtrakul J,“Enhanced CO₂ hydrogenation to higher alcohols over K-Co promoted In₂O₃ catalysts”,*Chemical Engineering Journal*,431,pp.1,pp.10,2022, 【SCIE & EI 】
- [9] Lei YG, Ng KH, Zhang YZ, Li ZX, Xu S, Huang JY, Lai, YK,“One-pot loading of cadmium sulfide onto tungsten carbide for efficient photocatalytic H₂ evolution under visible light irradiation”,*Chemical Engineering Journal*,434,pp.134689-1,pp.134699-11,2022, 【SCIE & EI 】
- [10] Chen KJ, Ng KH, Cheng CK, Cheng YW, Chong CC, Vo DVN, Witoon T, Ismail MH,“Biomass-derived carbon-based and silica-based materials for catalytic and adsorptive applications- An update since 2010”,*Chemosphere*,287,pp.1,pp.21,2022, 【SCIE & EI 】
- [11] Hoang AT, Nizetic S, Ng KH, Papadopoulos AM, Le AT, Kumar S, Hadiyanto H, Pham V,“Microbial fuel cells for bioelectricity production from waste as sustainable prospect of future energy sector”,*Chemosphere*,287,pp.1,pp.25,2022, 【SCIE & EI 】
- [12] Numpilai T, Ng KH, Polsomboon N, Cheng CK, Donphai W, Chareonpanich M, Witoon T,“Hydrothermal synthesis temperature induces sponge-like loose silica structure: A potential support for Fe₂O₃-based adsorbent in treating As (V)-contaminated water”,*Chemosphere*,308,pp.1,pp.10,2022, 【SCIE & EI 】
- [13] Li ZX, Ng KH, Xu S, Zhang YZ, Lei YG, Huang JY, Lai YK,“Facile preparation of tremella-like TiO₂/Cd:ZnIn₂S₄ photoanode with enhanced photo-electro-chemical (PEC) performance for energy and environmental applications”,*Chemosphere*,307,pp.1,pp.9,2022, 【SCIE & EI 】
- [14] Ng KH, Hsu LC, Liu YT, Hsiao CY, Chiang PN, Teah HY, Hung JT, Tzou, YM,“Cross-redox and simultaneous removal of Cr(VI) and As(III): Influences of Fe(II), Fe(III), oxalic acid, and dissolved organic carbon”,*ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*,245,pp.114084-1,pp.114094-11,2022, 【SCIE & EI 】
- [15] Hsi-Hsun Tsai, Shao-Jung Wu, Yu-De Wu, Wei-Zheng Hong,“Feasibility Study on the Fused Filaments of Injection-Molding-Grade Poly(Ethylene Terephthalate) for 3D Printing”,*Polymers*,14, (11) ,pp.2276-1,pp.2276-13,2022, 【SCIE & 非EI 】
- [16] Imanuella N, Witoon T, Cheng YW, Chong CC, Ng KH, Gunamantha IM, Vo DVN, Hoang AT, Lai YK,“Interfacial-engineered CoTiO₃-based composite for photocatalytic applications: a review”,*ENVIRONMENTAL CHEMISTRY LETTERS*,20, (5) ,pp.3039,pp.3069,2022, 【SCIE & EI 】
- [17] Chong CC, Cheng YW, Ng KH, Vo DVN, Lam MK, Lim JW,“Bio-hydrogen production from steam reforming of liquid biomass wastes and biomass-derived oxygenates: A review”,*Fuel*,311,pp.1,pp.23,2022, 【SCIE & EI 】
- [18] Cheng CK, Ng KH,“Editorial SI: Progress in grey, blue and green hydrogen”,*International Journal of Hydrogen Energy*,47, (98) ,pp.41373,pp.41373,2022, 【SCIE & EI 】

- [19] Hsi-Hsun Tsai, Shao-Jung Wu, Jia-Wei Liu, Sin-He Chen, Jui-Jung Lin, "Filling-Balance-Oriented Parameters for Multi-Cavity Molds in Polyvinyl Chloride Injection Molding", *Polymers*, 14, (17), pp.3483-1, pp.3483-18, 2022, 【SCIE & 非EI】
- [20] Hoang AT, Varbanov PS, Nizetic S, Sirohi R, Pandey A, Luque R, Ng KH, Pham V, "Perspective review on Municipal Solid Waste-to-energy route: Characteristics, management strategy, and role in circular economy", *JOURNAL OF CLEANER PRODUCTION*, 359, pp.1, pp.29, 2022, 【SCIE & EI】
- [21] Ng KH, Lai SY, Jamaludin NFM, Mohamed, AR, "A review on dry-based and wet-based catalytic sulphur dioxide (SO₂) reduction technologies", *Journal of Hazardous Materials*, 423, pp.1, pp.24, 2022, 【SCIE & EI】
- [22] 張大鵬, 黃俊傑, 楊宗叡, 施正元, "飛灰含量對高流動鹼激發爐石基聚合物混凝土工程性質之影響", *Journal of the Chinese Institute of Civil and Hydraulic Engineering*, 34, (1), pp.63, pp.72, 2022, 【Scopus】
- [23] Wu, Zong-Han Shih, Jeng-Ywan Li, Ying-Jeng James Tsai, Yi-De Hung, Tai-Feng Karuppiah, Chelladurai Jose, Rajan Yang, Chun-Chen, "MoO₃ Nanoparticle Coatings on High-Voltage 5 V LiNi_{0.5}Mn_{1.5}O₄ Cathode Materials for Improving Lithium-Ion Battery Performance", *NANOMATERIALS*, 12, (3), pp.1, pp.18, 2022, 【SCIE & EI】
- [24] Nguyen, H-A Chang, T-P Chen, C-T Wun, J-L Shih, J-Y, "Polypropylene fiber reinforced concrete improved by using silica fume and acrylic emulsion polymer", *MATERIALES DE CONSTRUCCION*, 72, (345), pp.1, pp.12, 2022, 【SCIE & EI】
- [25] Shih, Jeng-Ywan Lin, Guan-Yin Li, Ying-Jeng James Hung, Tai-Feng Jose, Rajan Karuppiah, Chelladurai Yang, Chun-Chen, "Operando investigation on the fast two-phase transition kinetics of LiFePO₄/C composite cathodes with carbon additives for lithium-ion batteries", *ELECTROCHIMICA ACTA*, 419, pp.1, pp.14, 2022, 【SCIE & EI】
- [26] Shih, Jeng-Ywan Chen, Ying-Ru Li, Ying-Jeng James Hung, Tai-Feng Hsu, Li-Fan Tsai, Yi-De Ramaraj, Sayee Kannan Jose, Rajan Karuppiah, Chelladurai Yang, Chun-Chen, "Suppressed Volume Change of a Spray-Dried 3D Spherical-like Si/ Graphite Composite Anode for High-Rate and Long-Term Lithium Ion Batteries", *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*, 10, (38), pp.12706, pp.12720, 2022, 【SCIE & EI】
- [27] Tsai, Yi-De Shih, Jeng-Ywan Li, Ying-Jeng James Hung, Tai-Feng Hsu, Li-Fan Ramaraj, Sayee Kannan Jose, Rajan Karuppiah, Chelladurai Yang, Chun-Chen, "Effect of Single-Walled Carbon Nanotube Sub-carbon Additives and Graphene Oxide Coating for Enhancing the 5 V LiNi_{0.5}Mn_{1.5}O₄ Cathode Material Performance in Lithium-Ion Batteries", *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*, 10, (50), pp.16709, pp.16724, 2022, 【SCIE & EI】
- [28] Kolhe, Shubham S. Chang, Ta-Peng Chen, Chun-Tao Shih, Jeng-Ywan, "Potential application of thermally treated calcium carbide residue as solid CaO activator for No-cement slag-FGDG composite", *CONSTRUCTION AND BUILDING MATERIALS*, 359, pp.1, pp.15, 2022, 【SCIE & EI】
- [29] Sheng-Min Lo, Yih-Shiou Hwang, Chao-Lin Liu, Chia-Ning Shen, Wei-Hsin Hong,

- Wei-Cheng Yang , Meng-Hua Lee , Chia-Rui Shen,“Inhibiting TLR7 Expression in the Retinal Pigment Epithelium Suppresses Experimental Autoimmune Uveitis”,*Frontiers in Immunology*,12,pp.736261-1,pp.736261-13,2022, 【SCIE & 非EI】
- [30] Wen-Hui Kuan , Yi-Lang Chen , Chao-Lin Liu,“Excretion of Ni, Pb, Cu, As, and Hg in Sweat under Two Sweating Conditions”,*INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*,19, (7) ,pp.4323-1,pp.4323-9,2022, 【SCIE & SSCI】
- [31] 劉宗宏, 劉上銘, 陳建維,“Utilization of e-wastes as a sustainable silica source in synthesis of ordered mesostructured titania nanocomposites with high adsorption and photoactivity”,*Journal of Environmental Chemical Engineering*,10, (2) ,pp.107283-1,pp.107283-16,2022, 【SCIE & EI】
- [32] 劉宗宏, 王聖擘, 林晏彤, 楊上,“Sustainable utilization of rice husk waste for preparation of ordered nanostructured mesoporous silica and mesoporous carbon: Characterization and adsorption performance”,*COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*,636,pp.128150-1,pp.128150-13,2022, 【SCIE & EI】
- [33] 劉宗宏, 陳冠維, 楊上,“Preparation of Amino-Functionalized Mesoporous SBA-15 Nanoparticles and the Improved Adsorption of Tannic Acid in Wastewater”,*Nanomaterials*,12, (5) ,pp.791-1,pp.791-18,2022, 【SCIE & EI】
- [34] Jheng-Yu Wu, Chi-Yun Wang, Kuei-Hsiang Chen, You-Ren Lai, Chen-Yaw Chiu, Hung-Che Lee, Yu-Kaung Chang,“Electrospinning of Quaternized Chitosan-Poly(vinyl alcohol) Composite Nanofiber Membrane: Processing Optimization and Antibacterial Efficacy”,*Membranes*,12, (3) ,pp.1,pp.20,2022, 【SCIE & 非EI】
- [35] Ren-Ze Huang, Kuei-Hsiang Chen, Chien Wei Ooi , Boon Chin Hoe, You-Ren Lai, Michael Hsu, Chen-Yaw Chiu, Steven S.-S. Wang, Yu-Kaung Chang,“Direct recovery of malate dehydrogenase from highly viscous yeast cell homogenate by a fluidized bed contactor equipped with an agitator”,*Biochemical Engineering Journal*,183,pp.108461-1,pp.108461-15,2022, 【SCIE & EI】
- [36] Dai-Lun Cai, Dinh Thi Hong Thanh, Pau-Loke Show, Su-Chun How, Chen-Yaw Chiu, Michael Hsu, Shir Reen Chia, Kuei-Hsiang Chen, Yu-Kaung Chang,“Studies of Protein Wastes Adsorption by Chitosan-Modified Nanofibers Decorated with Dye Wastes in Batch and Continuous Flow Processes: Potential Environmental Applications”,*Membranes*,12, (8) ,pp.759-1,pp.759-25,2022, 【SCIE & EI】
- [37] Shih-Jie Jian, Steven S.-S. Wang, Chien Wei Ooi, Boon Chin Hoe, You-Ren Lai, Chen-Yaw Chiu, Michael Hsu, Kuei-Hsiang Chen, Yu-Kaung Chang,“Cellulose-based nanofiber membrane functionalized with dye affinity ligand for purification of malate dehydrogenase from *Saccharomyces cerevisiae*”,*Cellulose*,29, (17) ,pp.9251,pp.9281,2022, 【SCIE & EI】
- [38] Cheng, Yu-Wei , Hsiao, Chia-Wei , Lin, Chia-Hsien , Huang, Li-Ying , Chen, Jeng-Shiung , Yang, Ming-Chien , Liu, Ting-Yu,“Bionic 3D periodic nanostructures by Ag nano-islands deposited on cicada wings for rapid SERS detection”,*SURFACE & COATINGS TECHNOLOGY*,436,pp.128323-1,pp.128323-7,2022, 【SCIE & EI】
- [39] Cheng, Yu-Wei , Hsieh, Tar-Hwa , Huang, Yu-Chang , Tseng, Po-Hao , Wang , Yen-Zen Ho ,

- Ko-Shan Huang, Yue-Jie, "Calcined Co(II)-Chelated Polyazomethine as Cathode Catalyst of Anion Exchange Membrane Fuel Cells", *Polymers*, 14, (9), pp.1784-1, pp.1784-19, 2022, 【SCIE & EI】
- [40] Juang, Ruey-Shin, Chen, Wei-Ting, Cheng, Yu-Wei, Wang, Kuan-Syun, Jeng, Ru-Jong, Zeng, Zi-Ling, Liu, Shou-Hsuan, Liu, Ting-Yu, "Fabrication of in situ magnetic capturing and Raman enhancing nanoplatelets for detection of bacteria and biomolecules", *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*, 648, pp.129189-1, pp.129189-9, 2022, 【SCIE & EI】
- [41] Cheng, Yu-Wei, Lin, Yen-Ting, Liu, Kun-Ho, Chen, Jung-San, Wang, Shih-Hsuan, Liu, Ting-Yu, "In situ and initiator-free atmospheric plasma-induced functionalization of poly(ethylene glycol) methacrylate on nonwoven cosmetic masks for the evaluation of the bacteria inhibitory effect", *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*, 642, pp.128719-1, pp.128719-7, 2022, 【SCIE & EI】
- [42] Juang, Ruey-Shin, Wang, Kuan-Syun, Cheng, Yu-Wei, Wu, Wei-En, Lin, Yu-Hsuan, Jeng, Ru-Jong, Huang, Li-Ying, Yang, Ming-Chien, Liu, Shou-Hsuan, Liu, Ting-Yu, "Intelligent and thermo-responsive Au-pluronic? F127 nanocapsules for Raman-enhancing detection of biomolecules", *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*, 279, pp.121475-1, pp.121475-6, 2022, 【SCIE & EI】
- [43] Hardiansyah, Andri, Randy, Ahmad, Dewi, Rizna Triana, Angelina, Marissa, Yudasari, Nurfini, Rahayu, Sri, Ulfah, Ika Maria, Maryani, Faiza, Cheng, Yu-Wei, Liu, Ting-Yu, "Magnetic Graphene-Based Nanosheets with Pluronic F127-Chitosan Biopolymers Encapsulated alpha-Mangosteen Drugs for Breast Cancer Cells Therapy", *Polymers*, 14, (15), pp.3163-1, pp.3163-14, 2022, 【SCIE & EI】
- [44] Yang, Ming-Chien, Hardiansyah, Andri, Cheng, Yu-Wei, Liao, Hung-Liang, Wang, Kuan-Syun, Randy, Ahmad, Harito, Christian, Chen, Jeng-Shiung, Jeng, Ru-Jong, Liu, Ting-Yu, "Reduced graphene oxide nanosheets decorated with core-shell of Fe₃O₄-Au nanoparticles for rapid SERS detection and hyperthermia treatment of bacteria", *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*, 281, pp.121578-1, pp.121578-9, 2022, 【SCIE & EI】
- [45] Cheng, Yu-Wei, Chuang, Wen-Hao, Wang, Kuan-Syun, Tseng, Wen-Chi, Chiu, Wen-Yen, Wu, Chien-Hsin, Liu, Ting-Yu, Jeng, Ru-Jong, "Thermoresponsive SERS Nanocapsules Constructed by Linear-Dendritic Poly(urea/malonamide) for Tunable Biomolecule Detection", *ACS Applied Polymer Materials*, 4, (1), pp.240, pp.249, 2022, 【SCIE & EI】
- [46] Chen, Pei-Hua, Iun, Chan-Pong, Tsai, Jung-Chin, Tang, Muoi, "Grafting of 2-hydroxyethyl methacrylate onto polyacrylonitrile using supercritical carbon dioxide", *JOURNAL OF SUPERCRITICAL FLUIDS*, 186, pp.105589, pp.105597, 2022, 【SCIE & EI】
- [47] Tang, Muoi, Wang, Hsin-Wei, Wu, Yi-Ping, Tsai, Jung-Chin, Chen, Yan-Ping, "Experimental Measurements for Equilibrium Conditions of Carbon Dioxide Hydrate Mixtures with Each Additive of 1,3-Dioxane, Acetamide, Cyclopentanol, Cyclopentanone, or 1,3,5-Trioxane", *JOURNAL OF CHEMICAL AND ENGINEERING DATA*, 67,

- (10) ,pp.2954,pp.2962,2022, 【SCIE & EI】
- [48] Tsai Jung-Chin, Tsai Jung-Tsan, Tang Muoi, "Solid-liquid equilibrium measurements using DSC for three binary mixtures of 2-methylbenzoic acid+3-methylbenzoic acid, 2-methoxybenzoic acid+3-methylbenzoic acid, and N-phenylacetamide plus benzamide", *FLUID PHASE EQUILIBRIA*, 558, pp.113443, pp.113450, 2022, 【SCIE & EI】
- [49] 鄭有為, 陳慶隆, 陳錦坤, 徐勤禎, 劉昭麟, "循環經濟的生醫聚合物-幾丁質和其衍生物的應用之現況和展望", *IEK Consulting*, 0, pp.1, pp.15, 2022, 【國內學術中文期刊論文】
- [50] YS Lin, YC Lin, WC Yang, GS Li, E Ercan, CC Hung, WC Chien, WC Chen, "Liquid Crystalline Rylenediimides with Highly Order Smectic Layer Structure as a Floating Gate for Multiband Photoresponding Photonic Transistor Memory", *Advanced Electronic Materials*, 8, (1) ,pp.2100798-1, pp.2100798-10, 2022, 【SCIE & EI】
- [51] Ying-Jeng James Li, Wen-Chen Chien, Chia-Ju Tang, She-Huang Wu, Yi-Shiuan Wu, Chun-Chen Yang, "Electrochemical performance of spherical Li-rich LMNCO cathode materials prepared using a two-step spray-drying method", *Ceramics International*, 48, (5) ,pp.6302, pp.6312, 2022, 【SCIE & EI】
- [52] Velusamy P, Su CH, Kannan K, Kumar GV, Anbu P, Gopinath SCB, "Surface engineered iron oxide nanoparticles as efficient materials for antibiofilm application", *BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY*, 69, (2) ,pp.714, pp.725, 2022, 【SCIE & EI】
- [53] Hashemzahi M, Pirouzfard V, Nayebzadeh H, Su CH, "Modelling and optimization of main independent parameters for biodiesel production over a Cu_{0.4}Zn_{0.6}Al₂O₄ catalyst using an RSM method", *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*, 97, (1) ,pp.111, pp.119, 2022, 【SCIE & EI】
- [54] Pirouzfard V, Moghaddam SN, Mousavi SAHS, Dehaghani AHS, Mollabagher H, Su CH, "Investigation of light aromatics removal from industrial wastewater using nano metal organic framework", *JOURNAL OF CONTAMINANT HYDROLOGY*, 249, pp.104048-1, pp.104048-10, 2022, 【SCIE & EI】
- [55] Abiyazani, Narges Karimi Pirouzfard, Vahid Su, Chia-Hung, "Enhancing engine power and torque and reducing exhaust emissions of blended fuels derived from gasoline-propanol-nano particles", *ENERGY*, 241, pp.122924-1, pp.122924-11, 2022, 【SCIE & EI】
- [56] Pirouzfard, Vahid Sakhaeinia, Hossein Su, Chia-Hung, "Power generation using produced biodiesel from palm oil with GTG, STG and combined cycles; process simulation with economic consideration", *Fuel*, 314, pp.123084-1, pp.123084-10, 2022, 【SCIE & EI】
- [57] Jafari A, Fakhri V, Kamrani S, Anbaran SRG, Su CH, Goodarzi V, Pirouzfard V, Khonakdar HA, "Development of Flexible Nanocomposites Based on Poly(epsilon-caprolactone) for Tissue Engineering Application: The Contributing Role of Poly(glycerol succinic acid) and Polypyrrol", *EUROPEAN POLYMER JOURNAL*, 164, pp.110984-1, pp.110984-13, 2022, 【SCIE & EI】
- [58] Raeisdanaei S, Pirouzfard V, Su CH, "Technical and economic assessment of processes for the LNG production in cycles with expander and refrigeration", *ENVIRONMENT*

- DEVELOPMENT AND SUSTAINABILITY,24, (11) ,pp.13407,pp.13425,2022, 【SCIE & EI 】
- [59] Wang, T , Su CH,“Medium Gaussian SVM, Wide Neural Network and stepwise linear method in estimation of Lornoxicam pharmaceutical solubility in supercritical solvent”,JOURNAL OF MOLECULAR LIQUIDS,349,pp.118120-1,pp.118120-6,2022, 【SCIE & EI 】
- [60] Mei B , Barnoon P , Toghraie D , Su CH , Nguyen HC , Khan A,“Energy, exergy, environmental and economic analyzes (4E) and multi-objective optimization of a PEM fuel cell equipped with coolant channels”,RENEWABLE & SUSTAINABLE ENERGY REVIEWS,157,pp.112021-1,pp.112021-22,2022, 【SCIE & EI 】
- [61] Hosseini H , Pirahmadi P , Shakeri SE , Khoshbakhti E , Sharafkhani S , Fakhri V , Saeidi A , McClements DJ , Chen WH , Su CH , Goodarzi V,“A novel environmentally friendly nanocomposite aerogel based on the semi-interpenetrating network of polyacrylic acid into Xanthan gum containing hydroxyapatite for efficient removal of methylene blue from wastewater”,INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES,201,pp.133,pp.142,2022, 【SCIE & EI 】
- [62] Rostamian M , Hosseini H , Fakhri V , Talouki PY , Farahani M , Gharehtzpeh AJ , Goodarzi V , Su CH,“Introducing a bio sorbent for removal of methylene blue dye based on flexible poly(glycerol sebacate)/chitosan/graphene oxide ecofriendly nanocomposites”,CHEMOSPHERE,289,pp.133219-1,pp.133219-12,2022, 【SCIE & EI 】
- [63] Jafari A , Mirzaei H , Shafiei MA , Fakhri V , Yazdanbakhsh A , Pirouzfard V , Su CH , Anbaran SRG , Khonakdar HA,“Conductive poly(epsilon-caprolactone)/polylactic acid scaffolds for tissue engineering applications: Synergy effect of zirconium nanoparticles and polypyrrole”,POLYMERS FOR ADVANCED TECHNOLOGIES,33, (5) ,pp.1427,pp.1441,2022, 【SCIE & EI 】
- [64] Nguyen ML , Nakhjiri AT , Kamal M , Mohamed A , Algarni M , Yu ST , Wang FM , Su CH,“State-of-the-Art Review on the Application of Membrane Bioreactors for Molecular Micro-Contaminant Removal from Aquatic Environment”,MEMBRANES,12, (4) ,pp.429-1,pp.429-19,2022, 【SCIE & EI 】
- [65] Soltani R , Nazari M , Marjani A , Faisal M , Pirestani N , Albadarin AB , Soltani S , Su CH , Chang CH , Pishnamazi M , Ansari MJ , Shirazian S,“Bio-based 3D dendritic silica nanosphere: A green superior adsorbent”,JOURNAL OF CLEANER PRODUCTION,335,pp.130204-1,pp.130204-14,2022, 【SCIE & EI 】
- [66] Herry Suryadi Djayaprabha , Ta-Peng Chang , Jeng-Ywan Shih , Hoang-Anh Nguyen,“Mechanical Properties of Eco-Friendly Self-consolidating Concrete Containing Ground Granulated Blast Furnace Slag and Calcined Dolomite”,Lecture Notes in Civil Engineering,215,pp.285,pp.296,2022, 【Scopus 】
- [67] Tirgar M , Hosseini H , Jafari M , Shojaei S , Abdollahi A , Jafari A , Uzun L , Goodarzi V , Su CH,“Introducing a flexible drug delivery system based on poly(glycerol sebacate)-urethane and its nanocomposite: potential application in the prevention and treatment of oral diseases”,JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION,33,

- (4) ,pp.443,pp.464,2022, 【SCIE &EI 】
- [68] Du Xiaobiao, Dehghani Mohammad, Alsaadi Naif, Nejad Mazyar Ghadiri, Saber-Samandari Saeed, Toghraie Davood, Su Chia-Hung, Nguyen Hoang Chinh,“A femoral shape porous scaffold bio-nanocomposite fabricated using 3D printing and freeze-drying technique for orthopedic application”,*MATERIALS CHEMISTRY AND PHYSICS*,275,pp.125302-1,pp.125302-13,2022, 【SCIE &EI 】
- [69] Su Chia-Hung, Farahani Ahmad Azizabadi, Pirouzfah Vahid, Nguyen Van Nguyen,“Analyzing the Effects of Injecting Gaseous Hydrocarbons Heavier Than Methane into a Gas Trunkline in Dynamic Mode”,*JOURNAL OF PIPELINE SYSTEMS ENGINEERING AND PRACTICE*,13, (4) ,pp.4022046-1,pp.4022046-11,2022, 【SCIE &EI 】
- [70] Hoang Chinh Nguyen, Alamray Fawzia, Kamal Mehnaz, Diana Tazeddinova, Mohamed Abdullah, Algarni Mohammed, Su Chia-Hung,“Computational prediction of drug solubility in supercritical carbon dioxide: Thermodynamic and artificial intelligence modeling”,*JOURNAL OF MOLECULAR LIQUIDS*,354,pp.118888-1,pp.118888-15,2022, 【SCIE &EI 】
- [71] Aregawi Beyene Hagos, Diana Tazeddinova, Su Chia-Hung, El-Shafay A. S., Alashwal May, Felemban Bassem F., Zwawi Mohammed, Algarni Mohammed, Wang Fu-Ming,“Development of a machine learning computational technique for estimation of molecular diffusivity of nonelectrolyte organic molecules in aqueous media”,*JOURNAL OF MOLECULAR LIQUIDS*,353,pp.118763-1,pp.118763-7,2022, 【SCIE &EI 】
- [72] Abdelbasset Walid Kamal, Elkholi Safaa M., Oplencia Maria Jade Catalan, Diana Tazeddinova, Su Chia-Hung, Alashwal May, Zwawi Mohammed, Algarni Mohammed, Abdelrahman Anas, Hoang Chinh Nguyen,“Development of multiple machine-learning computational techniques for optimization of heterogenous catalytic biodiesel production from waste vegetable oil”,*ARABIAN JOURNAL OF CHEMISTRY*,15, (6) ,pp.103843-1,pp.103843-10,2022, 【SCIE &EI 】
- [73] Wang Qilong, Zhang Ping, Ansari Mohammad Javed, Aldawsari Mohammed F., Alalaiwe Ahmed S., Kaur Jupinder, Kumar Ravinder, Lup Andrew Ng Kay, Enayati Ayesheh, Mirzaei Hassan, Soltani Alireza, Su Chia-Hung, Hoang Chinh Nguyen,“Electrostatic interaction assisted Ca-decorated C20 fullerene loaded to anti-inflammatory drugs to manage cardiovascular disease risk in rheumatoid arthritis patients”,*JOURNAL OF MOLECULAR LIQUIDS*,350,pp.118564-1,pp.118564-12,2022, 【SCIE &EI 】
- [74] Sun Nabo, Ansari Mohammad Javed, Lup Andrew Ng Kay, Javan Masoud, Soltani Alireza, Khandoozi Seyed Reza, Nia Ali Arian, Tavassoli Samaneh, Rahman Md Lutfor, Sarjadi Mohd Sani, Sarkar Shaheen M., Su Chia-Hung, Hoang Chinh Nguyen,“Improved anti-inflammatory and anticancer properties of celecoxib using zinc oxide and magnesium oxide nanoclusters: A molecular docking and density functional theory simulation”,*ARABIAN JOURNAL OF CHEMISTRY*,15, (2) ,pp.103568-1,pp.103568-14,2022, 【SCIE &EI 】
- [75] Soltani Alireza, Khan Afrasyab, Mirzaei Hassan, Onaq Marjan, Javan Masoud, Tavassoli Samaneh, Mahmoodi Nosrat O., Nia Ali Arian, Yahyazadeh Asieh, Salehi Aref, Khandoozi Seyed Reza, Masjedi Razieh Khaneh, Rahman Md Lutfor, Sarjadi Mohd Sani, Sarkar Shaheen

- M., Su Chia-Hung, "Improvement of anti-inflammatory and anticancer activities of poly(lactic-co-glycolic acid)-sulfasalazine microparticle via density functional theory, molecular docking and ADMET analysis", *ARABIAN JOURNAL OF CHEMISTRY*, 15, (1), pp.103464-1, pp.103464-10, 2022, 【SCIE & EI】
- [76] Bozorgkhou Nastaran, Pirouzfah Vahid, Su Chia-Hung, "Increasing the efficiency of liquefied natural gas production plant with considering appropriate refrigerant components", *ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY*, 41, (4), pp.e13806-1, pp.e13806-11, 2022, 【SCIE & EI】
- [77] Su Chia-Hung, Masoumi S. A. O., Pirouzfah Vahid, Nguyen Van Nguyen, "Investigation of Options for Harnessing Energy Losses at Pressure-Reducing Stations of High-Pressure Natural Gas Pipelines", *JOURNAL OF PIPELINE SYSTEMS ENGINEERING AND PRACTICE*, 13, (4), pp.4022038-1, pp.4022038-7, 2022, 【SCIE & EI】
- [78] Khalili Fatemeh, Dehaghani Amir Hossein Saeedi, Su Chia-Hung, "Investigation of the effects of salinity on the amount of asphaltene formed from emulsions Water-Oil", *PETROLEUM SCIENCE AND TECHNOLOGY*, 40, (18), pp.2251, pp.2262, 2022, 【SCIE & EI】
- [79] Yin Guanwei, Alazzawi Fouad Jameel Ibrahim, Mironov Sergei, Reegu Faheem, El-Shafay A. S., Rahman Md Lutfor, Su Chia-Hung, Lu Yi-Ze, Hoang Chinh Nguyen, "Machine learning method for simulation of adsorption separation: Comparisons of model's performance in predicting equilibrium concentrations", *ARABIAN JOURNAL OF CHEMISTRY*, 15, (3), pp.103612-1, pp.103612-10, 2022, 【SCIE & EI】
- [80] Nasution Mahyuddin K. M., Syah Rahmad, Ramdan Dadan, Afshari Hassan, Amirabadi Hossein, Selim Mahmoud M., Khan Afrasyab, Rahman Md Lutfor, Sarjadi Mohd Sani, Su Chia-Hung, "Modeling and computational simulation for supersonic flutter prediction of polymer/GNP/fiber laminated composite joined conical-conical shells", *ARABIAN JOURNAL OF CHEMISTRY*, 15, (1), pp.103460-1, pp.103460-21, 2022, 【SCIE & EI】
- [81] Cao Yan, Noori Malihe, Nazari Marziyeh, Lup Andrew Ng Kay, Soltani Alireza, Erfani-Moghadam Vahid, Salehi Aref, Aghaei Mehrdad, Rahman Md Lutfor, Sarjadi Mohd Sani, Sarkar Shaheen M., Su Chia-Hung, "Molecular docking evaluation of celecoxib on the boron nitride nanostructures for alleviation of cardiovascular risk and inflammatory", *ARABIAN JOURNAL OF CHEMISTRY*, 15, (1), pp.103521-1, pp.103521-12, 2022, 【SCIE & EI】
- [82] Zeng Kunrong, Hachem Kadda, Kuznetsova Mariya, Chupradit Supat, Su Chia-Hung, Nguyen Hoang Chinh, El-Shafay A. S., "Molecular dynamic simulation and artificial intelligence of lead ions removal from aqueous solution using magnetic-ash-graphene oxide nanocomposite", *JOURNAL OF MOLECULAR LIQUIDS*, 347, pp.118290-1, pp.118290-12, 2022, 【SCIE & EI】
- [83] Yin Guanwei, Alazzawi Fouad Jameel Ibrahim, Bokov Dmitry, Marhoon Haydar Abdulameer, El-Shafay A. S., Rahman Md Lutfor, Su Chia-Hung, Lu Yi-Ze, Hoang Chinh Nguyen, "Multiple machine learning models for prediction of CO₂ solubility in potassium and sodium based amino acid salt solutions", *ARABIAN JOURNAL OF CHEMISTRY*, 15,

- (3) ,pp.103608-1,pp.103608-14,2022, 【SCIE & EI 】
- [84] Parsaei Mozghan, Roudbari Elham, Piri Farhad, El-Shafay A. S., Su Chia-Hung, Nguyen Hoang Chinh, Alashwal May, Ghazali Sami, Algarni Mohammed,“Neural-based modeling adsorption capacity of metal organic framework materials with application in wastewater treatment”,SCIENTIFIC REPORTS,12, (1) ,pp.4125-1,pp.4125-11,2022, 【SCIE & EI 】
- [85] Abdelbasset Walid Kamal, Alrawaili Saud M., Elsayed Shereen H., Diana Tazeddinova, Ghazali Sami, Felemban Bassem F., Zwawi Mohammed, Algarni Mohammed, Su Chia-Hung, Nguyen Hoang Chinh,“Optimization of heterogeneous Catalyst-assisted fatty acid methyl esters biodiesel production from Soybean oil with different Machine learning methods”,ARABIAN JOURNAL OF CHEMISTRY,15, (7) ,pp.103915-1,pp.103915-10,2022, 【SCIE & EI 】
- [86] Tianhao Zhou, Majdi Hasan Sh, Bokov Dmitry Olegovich, Abdelbasset Walid Kamal, Thangavelu Lakshmi, Su Chia-Hung, Hoang Chinh Nguyen, Alashwal May, Ghazali Sami, “Prediction of busulfan solubility in supercritical CO₂ using tree-based and neural network-based methods”,JOURNAL OF MOLECULAR LIQUIDS,351,pp.118630-1,pp.118630-12,2022, 【SCIE & EI 】
- [87] Jaber Navid, Fakhri Vafa, Zeraatkar Ali, Jafari Aliakbar, Uzun Lokman, Shojaei Shahrokh, Asefnejad Azadeh, Rezaei Vahid Faghihi, Goodarzi Vahabodin, Su Chia-Hung, Anbaran S. Reza Ghaffarian, “Preparation and characterization of a new bio nanocomposites based poly(glycerol sebacic-urethane) containing nano-clay (Cloisite Na⁺) and its potential application for tissue engineering”,JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS,110, (10) ,pp.2217,pp.2230,2022, 【SCIE & EI 】
- [88] Zhu Lidong, Opulencia Maria Jade Catalan, Bokov Dmitry Olegovich, Krasnyuk Ivan Ivanovich, Su Chia-Hung, Hoang Chinh Nguyen, Mohamed Abdullah, Zare Masoud Habibi, Zwawi Mohammed, Algarni Mohammed, “Synthesis of Ag-coated on a wrinkled SiO₂@TiO₂ architectural photocatalyst: New method of wrinkled shell for use of semiconductors in the visible light range and penicillin antibiotic degradation”,ALEXANDRIA ENGINEERING JOURNAL,61, (12) ,pp.9315,pp.9334,2022, 【SCIE & EI 】
- [89] Kuo Tsung-Rong, Yen Shih-Chia, Kubendhiran Subbiramaniyan, Yougbare Sibidou, Lin Lu-Yin, Wu Yung-Fu,“Tailoring morphology of pure terephthalic acid induced beta nickel hydroxide using ultrasonication and alkalization for efficient energy storage”,JOURNAL OF ENERGY STORAGE,56, pp.106117-1,pp.106117-12,2022, 【SCIE & EI 】
- [90] Wu Yung-Fu, Hsiao Yu-Cheng, Ou Yu-Jun, Kubendhiran Subbiramaniyan, Huang Chen-Yi, Yougbare Sibidou, Lin Lu-Yin,“Synthesis of cigarette filter-derived activated carbon using various activating agents for flexible capacitive supercapacitors”,JOURNAL OF ENERGY STORAGE,54,pp.105379-1,pp.105379-9,2022, 【SCIE & EI 】
- [91] Wu Yung-Fu, Pai Hao, Kubendhiran Subbiramaniyan, Yougbare Sibidou, Lin Lu-Yin,“Size effects of zeolitic imidazolate framework 67 polyhedrons as Co-catalyst of W-doped BiVO₄ electrodes for photoelectrochemically catalytic water oxidation”,INTERNATIONAL JOURNAL OF HYDROGEN ENERGY,47, (97) ,pp.40961,pp.40971,2022, 【SCIE & EI 】

- [92] Chen Yue-Sheng, Ooi Chien Wei, Show Pau Loke, Hoe Boon Chin, Chai Wai Siong, Chiu Chen-Yaw, Wang Steven S. -S., Chang Yu-Kaung, "Removal of Ionic Dyes by Nanofiber Membrane Functionalized with Chitosan and Egg White Proteins: Membrane Preparation and Adsorption Efficiency", *MEMBRANES*, 12, (1), pp.63-1, pp.63-21, 2022, 【SCIE & EI】
- [93] Lee Kuo-Tong, Pien Chien-Yi, "Preparation of monosodium 2-sulfoterephthalate to make a MIL-101(Cr)-SO₃H catalyst", *NEW JOURNAL OF CHEMISTRY*, 46, (2), pp.868, pp.876, 2022, 【SCIE & EI】
- [94] Hsiao Yu-Cheng, Hung Jau-Lian, Kubendhiran Subbiramaniyan, Yougbar Sibidou, Lin Lu-Yin, Wu Yung-Fu, "Novel synthesis of N-doped graphene quantum dot as conductive agent for carbon based supercapacitors", *JOURNAL OF ENERGY STORAGE*, 56, pp.105902-1, pp.105902-12, 2022, 【SCIE & EI】
- [95] Wu Yung-Fu, Hsiao Yu-Cheng, Liao Chen-Hao, Hsu Chia-Shuo, Yougbare Sibidou, Lin Lu-Yin, "Novel design of Sulfur-doped nickel cobalt layered double hydroxide and polypyrrole nanotube composites from zeolitic imidazolate Framework-67 as efficient active material of battery supercapacitor hybrids", *JOURNAL OF COLLOID AND INTERFACE SCIENCE*, 628, pp.540, pp.552, 2022, 【SCIE & EI】
- [96] Sadeghi Arash, Su Chia-Hung, Khan Afrasyab, Rahman Md Lutfor, Sarjadi Mohd Sani, Sarkar Shaheen M., "Machine learning simulation of pharmaceutical solubility in supercritical carbon dioxide: Prediction and experimental validation for busulfan drug", *ARABIAN JOURNAL OF CHEMISTRY*, 15, (1), pp.103502-1, pp.103502-8, 2022, 【SCIE & EI】
- [97] Wu Chung-Hsien, Wu Yung-Fu, Lee Pin-Yan, Yougbare Sibidou, Lin Lu-Yin, "Ligand Incorporating Sequence-dependent ZIF67 Derivatives as Active Material of Supercapacitor: Competition between Ammonia Fluoride and 2-Methylimidazole", *ACS APPLIED MATERIALS & INTERFACES*, 14, (38), pp.43180, pp.43194, 2022, 【SCIE & EI】
- [98] Wu Yung-Fu, Kuo Tsung-Rong, Lin Lu-Yin, Kubendhiran Subbiramaniyan, Lai Kuan-Chen, Chen Tzu-Yang, Yougbare Sibidou, "Investigating energy storage ability of MIL101-(Fe) derivatives prepared using successive carbonization and oxidation for supercapacitors", *JOURNAL OF ENERGY STORAGE*, 55, pp.105420-1, pp.105420-9, 2022, 【SCIE & EI】
- [99] Huang Hsiao-Wen, Hsiao Yu-Cheng, Chen Tzu-Yang, Yougbare Sibidou, Lin Lu-Yin, Wu Yung-Fu, "In-situ carbonization of zeolitic imidazolate framework-67 on Ni foam as binder-free electrode for energy storage", *JOURNAL OF ENERGY STORAGE*, 56, pp.106035-1, pp.106035-10, 2022, 【SCIE & EI】
- [100] Wu Yung-Fu, Cao Yu-Cheng, Lee Pin-Yan, Kubendhiran Subbiramaniyan, Chung Ren-Jei, Yougbare Sibidou, Lin Lu-Yin, "Improving energy storage ability of ammonium-decorated cobalt fluoride using selenization as efficient active material of supercapacitor", *ELECTROCHIMICA ACTA*, 430, pp.141017-1, pp.141017-9, 2022, 【SCIE & EI】
- [101] Cheng Tsai-Mu, Huang Hsiao-Wen, Chen Tzu-Yang, Yougbare Sibidou, Lin Lu-Yin, Wu Yung-Fu, "Facile synthesis of metal organic framework-derived cobalt sulfide on Ni foam as

- binder-free electrode of battery supercapacitor hybrid", JOURNAL OF ENERGY STORAGE, 56, pp.106110-1, pp.106110-10, 2022, 【SCIE & EI】
- [102] Hsiao Yu-Cheng, Yu Hsiang-Yu, Lee Pin-Yan, Yougbare Sibidou, Lin Lu-Yin, Wu Yung-Fu, "Facile synthesis of ammonium-decorated cobalt molybdenum fluoride as electroactive material of supercapacitor", JOURNAL OF ENERGY STORAGE, 56, pp.106055-1, pp.106055-12, 2022, 【SCIE & EI】
- [103] Tsai Tzu-Hsuan, Chou Hao-Wei, Wu Yung-Fu, "Electrochemical Characteristics of Nickel Hydroxide Fabricated from a Spent Electroless Plating Bath", INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, 17, (2), pp.22026-1, pp.22026-11, 2022, 【SCIE & EI】
- [104] Lin En-Ting, Lee Yi-Chieh, Wang Hui-Min David, Chiu Chen-Yaw, Chang Yu-Kaung, Huang Chun-Yung, Chang Chia-Che, Tsai Pei-Chien, Chang Jo-Shu, "Efficient fucoidan extraction and purification from Sargassum cristaeifolium and preclinical dermal biological activity assessments of the purified fucoidans", JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, 137, pp.104294-1, pp.104294-8, 2022, 【SCIE & EI】
- [105] Wu Yung-Fu, Liu Dongqing, Sung Yu-Shun, Yougbare Sibidou, Lin Lu-Yin, "Effects of carbonization temperature on fabricating carbonized Universitetet i Oslo-66 as active materials for supercapacitors", JOURNAL OF SOLID STATE CHEMISTRY, 314, pp.123439-1, pp.123439-8, 2022, 【SCIE & EI】
- [106] Cheng Tsai-Mu, Chu Hsiu-Yi, Cao Yu-Cheng, Kubendhiran Subbiramaniyan, Lee Pin-Yan, Yougbare Sibidou, Lin Lu-Yin, Wu Yung-Fu, "Design of novel cobalt-based perovskite derivatives using sulfurization as active material of energy storage devices", JOURNAL OF ENERGY STORAGE, 55, pp.105653-1, pp.105653-10, 2022, 【SCIE & EI】
- [107] Xiao Cheng-Yu, Chen Tzu-Yang, Chung Ren-Jei, Yougbare Sibidou, Lin Lu-Yin, Wu Yung-Fu, "Binder-free synthesis of metal organic framework derived cobalt sulfide on carbon cloth for efficient energy storage devices", JOURNAL OF ENERGY STORAGE, 55, pp.105622-1, pp.105622-9, 2022, 【SCIE & EI】
- [108] Yung-Fu Wu, "自含銅溶液中製備氧化物以用於不鏽鋼之防蝕", 鑛冶, 66, pp.1, pp.9, 2022, 【國內學術中文期刊論文】

三、研討會論文

- [1] Liang-Yin Kuo¹, Olivier Guillon² and Payam Kaghazchi², "Insights into the structural changes of ternary cathode materials: First-principles studies", The 69th annual meeting of Taiwan institute of Chemical Engineer, 新北市 淡水, 中華民國, 2022/12/2, 【國內學術研討會】
- [2] Liang-Yin Kuo, Olivier Guillon, and Payam Kaghazchi, "A first-principles study of the origin of structural changes in $\text{Li}_x\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ and $\text{Li}_x\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ cathode materials with lithiation/delithiation", ACerS Pan American Ceramics Congress, Panama City, Panama, Panama City, Panama, 美國, 2022/7/24, 【國際學術研討會】
- [3] Nathasya Imanuella, Kim Hoong Ng, "Valorization of biomass to carbon-based materials for catalytic application: a review", Waste-to-Value: Towards Green and Circular Economy (WAVE2022), 曼谷, 泰國(泰國), 2022/8/25, 【國際學術研討會】

- [4] Yun-Hsien Chung, Ng, Kim Hoong, Ching-Lung Chen, "A review on biomass-derived carbon-based and silica-based adsorptive materials for environmental applications", Waste-to-Value: Towards Green and Circular Economy (WAVE2022), 曼谷, 泰國 (泰國), 2022/8/25, 【國際學術研討會】
- [5] 施正元, 陳柏勳, "化學品洩漏危害範圍模擬分析-以高雄丙烯氣爆事件為例", 2022安全管理與工程技術國際研討會, 嘉義縣民雄鄉, 中華民國, 2022/12/1, 【國內學術研討會】
- [6] 施正元, 蕭承宇, 張大鵬, "不同矽質摻料對單劑型爐石基無機聚合物性質之影響", 第二十屆營建產業永續發展研討會, 台中市, 中華民國, 2022/12/11, 【國內學術研討會】
- [7] Yu-Syuan Lin, Yi-Wen Huang, I-Wen Chang, Shao-Jung Wu, "Fe(III)/graphene oxide/chitosan composites for Fenton-like catalytic degradation of antibiotic pollutants", 2022 TwICH E (69屆化工年會), 新北市, 中華民國, 2022/12/2, 【國內學術研討會】
- [8] Hsien-Tsung Wu, Yao-Hsiang Chuang, Tzu-Chieh Hu, Yu-Xuan Huang, "Instant formulation of inhaled beclomethasone dipropionate-hydroxypropyl-beta-cyclodextrin composite particles produced using supercritical assisted atomization", 12th International Conference on Supercritical Fluids (Supergreen 2022), 台北市, 中華民國, 2022/10/27, 【國際學術研討會】
- [9] Hsien-Tsung Wu, Han-Cyuan Lin, Yi-Jia Tu, Zi-Yu Ye, "Characterization and aerosolization performance of gamma-cyclodextrin particles produced using supercritical assisted atomization", 12th International Conference on Supercritical Fluid (Supergreen 2022), 台北市, 中華民國, 2022/10/27, 【國際學術研討會】
- [10] Hsien-Tsung Wu, Yi-Jia Tu, and Yu-Xuan Huang, "Formation of bovine serum albumin particles using supercritical assisted atomization process", 台灣化學工程學會69週年年會, 新北市, 中華民國, 2022/12/2, 【國內學術研討會】
- [11] Hsien-Tsung Wu, Yao-Hsiang Chuang, Han-Cyuan Lin and Yi-Jia Tu, "Characterization and aerosolization performance of hydroxypropyl-beta-cyclodextrin particles produced using supercritical assisted atomization", 台灣化學工程學會 68 週年年會, 高雄市, 中華民國, 2022/1/6, 【國內學術研討會】
- [12] 劉宗宏, 陳建維, 楊上, "Synthesis of amino-functionalized mesoporous SBA-15 nanoparticles with excellent adsorption performance", 8th Asian Conference on Coordination Chemistry (ACCC8 2022), 台北市, 中華民國, 2022/8/7, 【國際學術研討會】
- [13] 劉宗宏, 陳冠維, 楊上, "Fabrication and characterization of functionalized porous graphene oxide/silica nanocomposites and its application for dye adsorption", 2022年功能性材料研討會暨科技部專題研究計畫成果發表會, 台南市, 中華民國, 2022/6/10, 【國內學術研討會】
- [14] 劉宗宏, 劉上銘, "Preparation of porous titania/silica nanocomposites with high photocatalysis activity", 2022年功能性材料研討會暨科技部專題研究計畫成果發表會, 台南市, 中華民國, 2022/6/10, 【國內學術研討會】
- [15] 劉宗宏, 王聖曄, "Surface and pore characteristics of mesoporous silica nanomaterials synthesized from biomass-based materials", 2022年功能性材料研討會暨科技部專題研究計畫成果發表會, 台南市, 中華民國, 2022/6/10, 【國內學術研討會】
- [16] 劉宗宏, 林晏彤, "Synthesis of amino-functionalized SBA-15 nanoparticles and its application for wastewater treatment", 2022年功能性材料研討會暨科技部專題研究計畫成果發表會, 台

南市,中華民國 ,2022/6/10,【國內學術研討會】

- [17]劉宗宏,林晏彤,王聖擘,楊上,陳冠維,“Preparation and Characterization of Mesoporous Silica Nanoceramics from Biomass-based Materials”,2022年台灣陶瓷學會年會暨科技部專題計畫成果發表會,新北市,中華民國 ,2022/5/21,【國內學術研討會】
- [18]劉宗宏,劉上銘,“Synthesis of Ordered Mesostructured Titania Nanocatalysts with High Photoactivity”,2022年台灣陶瓷學會年會暨科技部專題計畫成果發表會,新北市,中華民國 ,2022/5/21,【國內學術研討會】
- [19]劉宗宏,王聖擘,林晏彤,陳冠維,楊上,“Synthesis of Graphene Oxide-Silica Nanocomposites with Excellent Adsorption Performance”,2022年台灣陶瓷學會年會暨科技部專題計畫成果發表會,新北市,中華民國 ,2022/5/21,【國內學術研討會】
- [20]劉宗宏,劉上銘,“Preparation of amino-functionalized SBA-15 nanoceramics with good adsorption activity”,2022年台灣陶瓷學會年會暨科技部專題計畫成果發表會,新北市,中華民國 ,2022/5/21,【國內學術研討會】
- [21]Yu-Wei Cheng , Ru-Jong Jeng , Chien-Hsin Wu , Wen-Hao Chuang,“Thermo-Sensitive Dendritic Polymer Nanocapsules with Silver Nanoparticles for Tunable SERS Detection”,2022 高分子學會年會,台中市,中華民國 ,2022/1/18,【國內學術研討會】
- [22]Pei-Rong Lee, Kuei-Hsiang Chen, Yu-Kaung Chang,“Conversion of Carbon Dioxide by Immobilized Carbonic Anhydrase”,The 15th Asian Congress on Biotechnology,Bali,印度尼西亞共和國 ,2022/10/2,【國際學術研討會】
- [23]Fan-Xuan Xu, Kuei-Hsiang Chen, Yu-Kaung Chang,“Antibacterial efficacy of poly(hexamethylene biguanide) immobilized on chitosan/dye-modified nanofiber membranes”,Asian Regional Conference,金門,中華民國 ,2022/6/25,【國際學術研討會】
- [24]Tai-Horng Cheng, Kuei-Hsiang, Chen, Yu-Kaung Chang,“Removal of Soluble Microbial Products Using NaY Zeolite Decorated with Heavy Metal Wastes”,The 16th International Conference on Inorganic Membranes,台北,中華民國 ,2022/6/28,【國際學術研討會】
- [25]Jia-Yih Lin, kuei-Hsiang Chen, Yu-Kaung Chang,“Catalytic Hydration Reaction and Mineralization of Carbon Dioxide by Immobilized Carbonic Anhydrase”,The 34rd Annual Meeting of the Thai Society for Biotechnology and International Conference (TSB 2022),曼谷,泰國(泰國),2022/11/24,【國際學術研討會】
- [26]游翊洋,傅俊中,蘇家弘,“自廢棄暖暖包回收鐵劑並應用於降解染料廢水之研究”,台灣化學工程學會69週年年會暨科技部化學工程學門成果發表會&台、日、韓、捷化學工程國際研討會,新北市,中華民國 ,2022/12/2,【國內學術研討會】
- [27]Ting-Yu Lin, Wen-Chen Chien,“Synthesis and Characterization of LNMO Cathode Materials for Next Generation Lithium-Ion Batteries”,2022 International Conference on Green Electrochemical Technologies and the 2022 Annual Meeting of Electrochemical Society of Taiwan,台南市,中華民國 ,2022/11/10,【國際學術研討會】
- [28]Wei-Jay Sun, Wen-Chen Chien,“Preparation and Characterization of Hybrid Solid Electrolyte for Lithium-Ion Batteries”,2022 International Conference on Green Electrochemical Technologies and the 2022 Annual Meeting of Electrochemical Society of Taiwan,台南市,中華民國 ,2022/11/10,【國際學術研討會】

- [29] Tzu-Chieh Liao, Wen-Chen Chien, "Preparation of Lithium Iron Phosphate Cathode by Aqueous Process for Lithium-Ion Batteries", 2022 International Conference on Green Electrochemical Technologies and the 2022 Annual Meeting of Electrochemical Society of Taiwan, 台南市, 中華民國, 2022/11/10, 【國際學術研討會】
- [30] Chia-En Chiu, Han-Chun Tsui, Liang-Jung Chien, "Microbial synthesis of Resveratrol using genetically engineered Escherichia coli", 2021 TwICHe 台灣化學工程學會68週年年會, 高雄, 中華民國, 2022/1/6, 【國內學術研討會】
- [31] Han-Chun Tsui, Pin-Jan Huang, Yi-Hua Cai, Liang-Jung Chien, "Resveratrol Production in Genetically Modified Synechococcus elongates Pcc7942 via Carbon Dioxide Conversion", 2021 TwICHe 台灣化學工程學會68週年年會, 高雄, 中華民國, 2022/1/6, 【國內學術研討會】
- [32] 何紫令, 崔漢醇, 張宇智, 簡良榮, "可提升塗料耐蝕性及附著力之分子耦合劑開發", 2021 TwICHe 台灣化學工程學會68週年年會, 高雄, 中華民國, 2022/1/6, 【國內學術研討會】
- [33] Ting-Yu Liu, Yu-Wei Cheng, "Functionalized 2D Nanosheets and Raman Enhancing Nanoparticle Arrays for Biomolecules Detection", Advanced Materials Congress, 斯德哥爾摩, 瑞典王國, 2022/10/11, 【國際學術研討會】
- [34] Yung-Fu Wu, Wei-Teng Wang, Mei-Wei Chen, Yu-Min Fan, "Corrosion Prevention for 304 Stainless Steel by Using TiO₂/Ni(OH)₂ Composite Photocatalysts", 2022 Taipei International Conference on Catalysis, 台北市, 中華民國, 2022/7/20, 【國際學術研討會】

四、研究及產學合作計畫

單位:元

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
1	吳永富	應用於腐蝕偵測與防制之雙功能光電化學元件	國科會	111/08/01 112/07/31	968,000	968,000	0	0
2	吳弦聰	超臨界流體微細化程序研發肺部釋放蛋白質藥物緩釋型製劑之控制釋放與氣動霧化行為	國科會	111/08/01 112/07/31	1,163,000	1,163,000	0	0
3	吳紹榮	多孔性鐵/氧化石墨烯/幾丁聚醣複合材料用於類芬頓反應對抗生素催化降解	國科會	111/08/01 112/07/31	573,000	573,000	0	0
4	杜鶴芸	原位掃描探針顯微鏡複合技術應用在二維光電材料活性點探測及二氧化碳	國科會	111/08/01 112/07/31	1,547,000	1,547,000	0	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
		還原反應機制探討						
5	張煜光	新型二氧化碳反應器之驗證及應用：奈米纖維膜碳酸酐酶固定化在催化二氧化碳轉化和礦化反應(1/3)	國科會	111/08/01 112/07/31	1,177,000	1,177,000	0	0
6	張煜光	抗菌奈米纖維膜生產的商業應用	國科會	111/06/01 112/05/31	587,600	587,600	0	0
7	郭亮吟	高價陽離子摻雜對富鎳-鋰鎳鈷錳氧材料結構變化的影響：第一性原理研究	國科會	111/08/01 112/07/31	1,086,000	1,086,000	0	0
8	程桂祥	明志科技大學辦理111年度第一梯次在校生丙級化學技能檢定	勞動部	111/03/30 111/06/07	56,160	56,160	0	0
9	程桂祥	明志科技大學辦理111年度第2梯次全國技術士技能檢定化工乙級職類術科測試	勞動部	111/07/04 111/08/31	175,451	175,451	0	0
10	程桂祥	明志科技大學辦理111年度第2梯次全國技術士技能檢定化工丙級職類術科測試	勞動部	111/07/04 111/08/18	210,318	210,318	0	0
11	程桂祥	明志科技大學辦理111年度第3梯次全國技術士技能檢定化工乙級職類術科測試	勞動部	111/11/15 112/01/18	98,883	98,883	0	0
12	程桂祥	明志科技大學辦理111年度第3梯次全	勞動部	111/11/15 112/02/03	84,854	84,854	0	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
		國技術士技能檢定 化工丙級職類術科 測試						
13	程桂祥	明志科技大學辦理 111年度第3梯次全 國技術士技能檢定 化學甲級職類術科 測試	勞動部	111/11/15 112/04/12	30,700	30,700	0	0
14	黃錦鴻	能帶結構調整型 CoTiO ₃ /Pb-rich PbS 量子點 S-scheme 光 觸媒的合成與其光 催化水分解產氫 之應用	國科會	111/08/01 112/07/31	1,205,000	1,205,000	0	0
15	劉宗宏	電子廢棄物之資源 再生利用製備觸媒 擔體並添加氧化鎢 與氧化石墨烯合成 中孔洞奈米光觸媒 應用於可見光催化 反應之研究(2/2)	國科會	111/08/01 112/07/31	805,000	805,000	0	0
16	鄭有為	共軛高分子奈米複 合材料之多功能智 能可穿戴式柔性傳 感器開發及電子皮 膚與生醫檢測之應 用(2/2)	國科會	111/12/01 112/11/30	1,228,000	1,228,000	0	0
17	蘇家弘	生質柴油之綠色生 產程序:有機電催化 合成技術之應用 (2/3)	國科會	111/08/01 112/07/31	1,931,290	1,931,290	0	0
18	蘇家弘	教育部 110 年度 U-start 創新創業計 畫-雲聯勁網團隊營 運計畫書	教育部	111/05/01 111/06/30	100,000	100,000	0	0
19	吳紹榮	導電銀膠分析與開 發之評估	台灣晶技股 份有限公司	111/09/01 112/08/31	600,000	0	600,000	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
20	李英正	低加濕 MEA 膜電極研究開發第二期	揚志股份有限公司	111/02/01 112/01/31	600,000	0	600,000	0
21	張煜光	單次使用連續生產製造技術平台建立	鉅宸國際有限公司	111/10/01 112/09/30	72,000	0	72,000	0
22	陳政佑	功能母粒的開發與應用(V)	德春股份有限公司	111/08/01 112/07/31	1,000,000	0	1,000,000	0
23	陳政佑	PVC 抗菌給水管與接頭開發	南亞塑膠工業股份有限公司	111/07/01 112/06/30	900,000	0	900,000	0
24	陳政佑	海洋廢棄物蚶殼回收與高值化應用	誠佳科紡股份有限公司	111/09/01 112/02/28	100,000	0	100,000	0
25	陳順基	1,4-BG 製程 3,4-DABE 異構化 反應條件開發	南亞塑膠工業股份有限公司	111/05/01 112/04/30	1,200,000	0	1,200,000	0
26	黃錦鴻	回收二氧化碳經 Ni / Al ₂ O ₃ 觸媒轉換產出富氫合成氣之探討	南亞塑膠工業股份有限公司	111/05/01 112/07/31	1,200,000	0	1,200,000	0
27	蔡榮進	ARO2 廠分離單元 吸附劑壽命預測模組之開發	台灣化學纖維股份有限公司	111/06/01 112/05/31	1,400,000	0	1,400,000	0
28	蔡榮進	管線腐蝕率預測模組之開發	台灣化學纖維股份有限公司	111/03/01 112/02/28	1,900,000	0	1,900,000	0
29	蔡榮進	廢舊 PET 織物回收 低黃變級 BHET 純化程序開發	南亞塑膠工業股份有限公司	111/05/01 112/04/30	1,200,000	0	1,200,000	0
30	蔡榮進	ALK 單元冷凍區新鮮酸補充優化及硫酸腐蝕監控模組之開發	台塑石化股份有限公司	111/03/01 112/02/28	2,000,000	0	2,000,000	0
31	蔡榮進	輕油組成估價及效益最大化模組之開發	台塑石化股份有限公司	111/08/01 113/01/31	3,000,000	0	3,000,000	0
32	鄭有為	利用拉曼光譜技術	安生動物醫	111/10/01	200,000	0	200,000	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
		於動物皮膚病原檢測應用之研究	院	112/09/30				
33	簡文鎮	防爆級橡膠配方及其檢測技術應用	橡寶有限公司	111/01/01 112/01/31	180,000	0	180,000	0
34	簡良榮	可溶性多官能基乙炔基芳香族共聚物之合成	南亞塑膠工業股份有限公司	111/10/20 112/02/20	515,000	0	515,000	0
35	蘇家弘 傅俊中	建構線蟲抗老化篩選平台-天然物抗老化活性成分開發	長庚生物科技股份有限公司	111/06/01 111/12/31	800,000	0	800,000	0
36	蘇家弘 傅俊中	線蟲培養策略建立與理化特性分析	博士科儀股份有限公司	111/07/01 112/06/30	424,000	0	424,000	0
37	蘇家弘	奈米碳材/高分子複合尖端材料於生醫產品之應用 III	優材科技有限公司	111/11/01 114/10/31	1,500,000	0	1,500,000	0
38	蘇家弘 劉昭麟	建構中草藥延緩老化活性成分之篩選平台 III--快篩(II)	長庚生物科技股份有限公司	111/10/01 112/09/30	2,950,000	0	2,950,000	0
39	蘇家弘 劉昭麟	戈式副擬桿菌抑制自體免疫紅斑性狼瘡之作用機轉研究(II)	長庚生物科技股份有限公司	111/10/01 112/09/30	3,005,960	0	3,005,960	0
40	吳永富	全鈦液流電池之最適操作模型研究	創芯科技有限公司	111/01/01 111/12/31	500,000	0	500,000	0
合計					38,274,216	13,027,256	25,246,960	0

五、技術移轉或授權案件

單位:元

項次	教師	技術移轉或授權	計畫案名稱	廠商名稱	金額	起訖日期
1	蘇家弘 劉昭麟	技術移轉	應用新型式微膠囊包埋技術於乳酸菌試量產製程	長庚生物科技股份有限公司	1,500,000	111/11/01 112/10/31
2	蘇家弘 劉昭麟	技術移轉	技轉股票	長庚生物技術股份有限公司	4,644,480	111/01/01 111/12/31
3	張煜光	技術移轉	抗菌奈米纖維膜生產的商業應用	群育科技有限公司	69,120	111/06/01 112/05/31

項次	教師	技術移轉或授權	計畫案名稱	廠商名稱	金額	起訖日期
合計					6,213,600	

六、專利

項次	發明人	專利權人	專利名稱	類別	證書字號	專利國家	生效日期
1	蔡榮進	台灣化學纖維股份有限公司	腐蝕率預測裝置、方法及其電腦程式產品	發明專利	I787971	國內	111/12/21
2	鄭有為	明志科技大學	製備用於 SERS 檢測的可撓式基板的方法	發明專利	I776149	國內	111/09/01
3	蘇家弘	明志科技大學	製備導電性高分子及移除親蛋白尿毒素的方法、導電性奈米纖維塗層及生物電子介面裝置	發明專利	I777158	國內	111/09/11

七、專書(含篇章)及其他著作

姓名	篇章及所屬專書名稱/或專書名稱	出版社/出版處所	ISBN 編號
鄭有為	Advanced Polymer Nanocomposites	MDPI	9783036559575
蘇家弘	Pinch Technology	De Gruyter	9783110786316
蘇家弘	Gasoline Additives	De Gruyter	9783110999952

八、榮譽

姓名	作品名稱	獲獎或榮譽名稱	頒獎機構名稱	獲獎日期
吳弦聰	超臨界流體技術於肺部釋放藥物速溶型製劑之開發	2022 年全國技專校院學生實務專題製作競賽暨成果展	教育部	111/05/27
吳弦聰	SuperGreen 2022 - The 12th International Conference on Supercritical Fluids	Best Poster Award	亞洲超臨界流體學會	111/10/28

姓名	作品名稱	獲獎或榮譽名稱	頒獎機構名稱	獲獎日期
鄭有為	Bionic shark skin replica and zwitterionic polymer brushes functionalized PDMS membrane for anti-fouling and wound dressing applications	優秀論文獎	台灣鍍膜科技協會	111/11/04
鄭有為	魔法雪花	佳作	中國材料科學學會	111/11/18

九、研究生論文

項次	研究生姓名	論文題目	指導教授
1	沈彥龍	利用機器學習預測生質物在化學循環燃燒(CLC)中獲得高效率的碳捕捉方法之研究	蔡榮進
2	涂翊珈	超臨界輔助霧化法製備吸入性牛血清蛋白/藥物複合微粒之研究	吳弦聰
3	謝陳茹卉	Investigation on the activity of cell proteases with zymography	劉昭麟
4	阮慶隆	Analyzing The Proteins From The Bacteria	劉昭麟
5	呂宜澤	廢棄蛋殼製備過氧化鈣應用於降解染料廢水之研究	蘇家弘
6	游翊洋	自廢棄暖暖包回收鐵劑並應用於降解染料廢水之研究	蘇家弘
7	程顯皓	類芬頓 (CaO ₂ /Fe(II)) 體系對四環黴素降解性能之影響	吳紹榮
8	TRAN, THI-TAM-AN	Antibacterial Efficacy of Lysozyme Immobilized on Chitosan Modified Nanofiber Membrane	張煜光
9	GNOUMOU, EDOUARD	ANTIBACTERIAL EFFICACY OF LYSOZYME IMMOBILIZED ON ACIDIC NANOFIBER MEMBRANE	張煜光
10	阮原芳	以廢玻纖製備觸媒並用於合成生質柴油之研究	蘇家弘
11	吳忠祐	以大腸桿菌表現具有辨識β細胞的單鏈變異區片段之抗體	劉昭麟
12	簡義龍	以 Chitinibacter tainanesis 水解 Musca domestica 繭之研究	劉昭麟
13	王政文	Chitinibacter tainanesis 之初始生長期與幾丁質酶體之製備	劉昭麟
14	範氏清竹	以相可變溶劑進行生質柴油一鍋化合成反應之研究	蘇家弘
15	黎光榮	聚(六亞甲基雙胍)固定在染料/鹽酸羥胺改性納米纖維膜上的抗菌功效	張煜光
16	阮氏日宣	以原位測定自 Chitinibacter tainanensis 萃取物之幾丁質活性	劉昭麟
17	蔡馨儀	陽極 IrO ₂ 和陰極 Pt/C 觸媒比例對質子交換膜水電解槽影響	李英正
18	邱佳恩	探討大腸桿菌表現泛酸激酶對白藜蘆醇產量之影響	簡良榮
19	王浥丞	酸液相氧化改質碳纖維吸附水中重金屬	簡良榮
20	翠涵	修飾 LiFePO ₄ /C 複合正極使用金屬有機骨架(ZIF-8)	楊純誠
21	呂鈞淵	二維觸媒材料應用於鋰硫電池陰極	杜鶴芸
22	陳淑郁	電化學液滴蝕刻法應用於掃描式穿隧電子顯微鏡探針製備	杜鶴芸

項次	研究生姓名	論文題目	指導教授
23	江珽弘	觸媒層中添加氣相成長碳纖維對質子交換膜燃料電池性能的影響	李英正
24	胡子暉	非均相觸媒 Amberlyst 39 之丙酸乙酯合成反應動力行為之研究	吳弦聰
25	劉上銘	利用稻殼灰製備 AgBr/SBA-15 進行羅丹明 B 之可見光催化降解	劉宗宏
26	林俊融	以化學醇解回收硬質聚氨酯泡棉製程之研究	簡文鎮
27	詹翔策	以助熔劑法製造單晶結構之 NCM811 正極材料	簡文鎮
28	王歲騰	膠態電解質應用於光電化學陰極防蝕塗料	吳永富
29	林晏彤	TiO ₂ /SBA-15 的製備及其對剛果紅之光催化降解研究	劉宗宏
30	王聖擘	利用稻殼製備 SBA-15 和添加 TiO ₂ 對甲基橙之光催化研究	劉宗宏
31	吳筱薇	以原位生長法製備 ZIF-67 在表層聚偏二氟乙烯改質的聚乙烯醇不織布複合膜應用於鋰離子二次電池隔離膜	楊純誠
32	陳勇霖	磁場輔助微流體冷卻之研究	吳永富
33	林允雅	光電化學塗料應用於牙齒漂白	吳永富
34	羅賢亞	中性或鹼性環境的 MIL-101(Cr)-SO ₃ H 製備及應用於酯化合成油酸甲酯	李國通
35	張詠鈞	應用機器學習方法預測聚丙烯製程產率之研究	蔡榮進
36	林立辰	以熱固法製備聚醯亞胺包覆 NCM811 正極材料	簡文鎮
37	邱家宏	結合電紡聚醯亞胺/聚偏二氟乙烯複合薄膜與纖維素膜應用於鋰離子電池隔離膜之研究	楊純誠
38	蔡譯德	高電壓鋰鎳錳氧化物陰極材料進行表面改質及其電性分析	楊純誠
39	陳映如	以噴霧乾燥法製備 Si/Graphite 複合陽極材料及其電性分析	楊純誠 施正元
40	林冠吟	添加不同導電碳材應用於磷酸鋰鐵/碳陰極複合材料	施正元 楊純誠