

Wu, Kevin Chia-Wen (吳嘉文)

Associate Professor

B.S. in Agricultural Chemistry
National Taiwan University, 1998
M.S. in Agricultural Chemistry
National Taiwan University, 2000
Ph.D. in Materials Science and Engineering
The University of Tokyo, Japan, 2005
Post-doc in Applied Chemistry,
Waseda University, Japan, 2006
Post-doc in Chemistry, Iowa State University
& U.S. DOE Ames National Lab, 2008

Research and Professional Interests
Nanomaterials (mesoporous materials,
quantum dots, and nanoparticles)
Biomedical applications (drug delivery
system)
Energy applications (biofuels
from cellulose and microalgae)
Photo-electronic applications (dye-sensitized
solar cells and super-capacitors)

Projects

1. Synthesis of Multi-Functionalized Mesoporous Nanomaterials for Biomedical and Biofuel Applications
多功能中孔洞奈米材料的製備及在生醫和生質能源上的應用
Kevin Chia-Wen Wu, sponsored by the National Science Council (國科會) (優秀年輕學者計畫)
Contract # NSC 101-2628-E-002-015-MY3, NT \$4,831,000, 08/01/2012-7/31/2015.
2. Lignocellulose Biomass Conversion Using Mesoporous Carbon Nanocatalysts in Optimized Dimethyl Sulfoxide (DMSO) Systems
中孔洞碳奈米粒子於DMSO系統下催化木質纖維生質物的轉換
Kevin Chia-Wen Wu, sponsored by the National Science Council (國科會) (台印計畫)
Contract # NSC 101-2923-E-002-012-MY3, NT \$1,805,000, 03/01/2012-02/28/2015.
3. Synthesis of Multi-Functionalized Mesoporous Silica and Titania Nanoparticles as Highly Sensitive Luminescence Probes for Intracellular Biosensing
合成多功能中孔徑氧化矽及氧化鈦奈米粒子做為高感度螢光探針並用於細胞內生物感測
Kevin Chia-Wen Wu, sponsored by the National Health Research Institutes (國衛院)
Contract # 02A1-MEPP14-014, NT\$600,000, 01/01/2012-12/31/2013.
4. One-Pot Biomass-to-Biofuel Conversion
高效環保的生質柴油生產技術：原物料直接轉成生質燃料
Kevin Chia-Wen Wu, sponsored by the National Science Council (國科會)(能源科技研究計畫，整合型計畫：子計畫三)
Contract #NSC-101-2623-E-002-010-ET, NT\$ 730,000, 01/01/2013-12/31/2013.
5. Synthesis of Smart Functional Porous Nanomaterials for Biomedical and Energy Applications
Kevin Chia-Wen Wu, sponsored by National Taiwan University (台大工學院策略材料中心 SMART Center)
Contract # 102R104100, NT\$ 700,000, 10/01/2013-09/30/2014.

Journal Papers

1. Yusuke Yamauchi,* Norihiro Suzuki, and **Kevin C. W. Wu***, Lithography-Assisted Alignment Control for Preparation of Mesoporous Silica Films with Uniaxially Oriented Mesochannels. *Chemical Communications*. (In press) (IF: 6.378)
2. An-hsuan Hsieh, **Kevin C.-W. Wu**, and Cheng-che Hsu.* Kinetic Study of Acid Orange 7 Degradation Using Plasmas in NaNO₃ Solution sustained by Pulsed Power. *Journal of the Taiwan Institute of Chemical Engineers*. In press. (IF: 2.084)
3. Nagy L. Torad, Masanobu Naito, Junichi Tatami, Akira Endo, Sin-Yen Leo, **Kevin C.-W. Wu***, Toru Wakihara*, and Yusuke Yamauchi.* Highly Crystallized Nano-Sized Zeolite A with Large Cs Adsorption Capability toward Cleaning Water Contaminated with Radioactive Ions. *Chemistry-An Asian Journal*. In press. (IF: 4.572)
4. Fa-Kuen Shieh,* Chia-Teng Hsiao, Yu-Chein Sue, Kuan-Wei Lin, Chang-Cheng Wu, Xi-Hong Chen, Lei Wan, Ming-Hua Hsu, Jih Ru Hwu, Hsien-Ming Kao, Chia-Kuang Tsung, and **Kevin C.-W. Wu**. Size-Adjustable Annular Ring-Functionalized Mesoporous Silica as Effective and Selective Adsorbents for Heavy Metal Ions. *RSC Advances*. 2013, 3 (48), 25686 - 25689. (IF: 2.562) (SCI, EI)
5. Zih-Hua Li, Pei-Hsuan Lin, Jeffrey C. S. Wu*, Yu-Tzu Huang, Kuen-Song Lin, **Kevin C.-W. Wu**. A stirring packed-bed reactor to enhance the esterification-transesterification in biodiesel production by lowering mass-transfer resistance. *Chemical Engineering Journal*. 2013, 234, 9-15. (IF: 3.473) (SCI, EI)
6. Bishnu Prasad Bastakoti, Shih-Hsiang Liao, Masamichi Inoue, Shin-Ichi Yusa, Masataka Imura, Kenichi Nakashima, **Kevin C.-W. Wu*** and Yusuke Yamauchi.* pH-responsive polymeric micelles with core-shell-corona architectures as intracellular anti-cancer drug carriers. *Science and Technology of Advanced Materials*. 2013, 14, 044402-044407. (IF: 3.752) (SCI, EI)
7. Fa-Kuen Shieh,* Shao-Chun Wang, Sin-Yen Leo and **Kevin C.-W. Wu***. Water-Based Synthesis of Zeolitic Imidazolate Framework-90 (ZIF-90) with a Controllable Particle Size. *Chemistry-A European Journal*. 2013, 19(34), 11139-11142. (IF: 5.831) Selected as Back Cover. (SCI, EI)



8. Yi-Chun Lee, Ching-Tien Chen, Yu-Ting Chiu and **Kevin C.-W. Wu***. An Effective Cellulose-to-Glucose-to-Fructose Conversion Sequence Using Enzyme Immobilized, Fe₃O₄-Loaded Mesoporous Silica Nanoparticles as Recyclable Biocatalysts.



9. Pei-Jen Chen,* Wan-Lin Wu, and **Kevin C.-W. Wu**. The zerovalent iron nanoparticle causes higher developmental toxicity than its oxidation products in early life stages of medaka fish. *Water Research*. 2013, 47, 3899-3909. (IF: 4.655) (SCI, EI)
10. Chih-Peng Liang, Yusuke Yamauchi, Chia-Hung Liu and **Kevin C.-W. Wu*** Silica Sacrificial Layer-Assisted In-Plane Incorporation of Au Nanoparticles into Mesoporous Titania Thin Films through Different Reduction Methods. *Dalton Transactions*. 2013, 42(24), 8704-8708. (IF: 3.806) (SCI, EI)
11. Ya-Huei Yang, Chia-Hung Liu, Yung-He Liang, Feng-Huei Lin and **Kevin C.-W. Wu*** Hollow Mesoporous Hydroxyapatite Nanoparticles (hmHANPs) with Enhanced Drug Loading and pH-Responsive Release Property for Intracellular Drug Delivery. *Journal of Materials Chemistry B*. 2013, 1(19), 2447-2450.(SCI, EI)
12. Ya-Dong Chiang, Ming Hu, Yuichiro Kamachi, Shinsuke Ishihara, Kimiko Takai, Yoshihiro Tsujimoto, Katsuhiko Ariga, **Kevin C.-W. Wu***, and Yusuke Yamauchi.* Rational Design and Synthesis of Cyano-Bridged Coordination Polymers with Precise Control of Particle Size from 20 to 500 nm. *European Journal of Inorganic Chemistry*. 2013, 3141-3145. (IF: 3.120) (SCI, EI)
13. Prasannan Karthika, Hamed Atae-Esfahani, Yu-Heng Deng, **Kevin C.-W. Wu***, Natarajan Rajalakshmi, Kaveripatnam S. Dhathathreyan, Arivuoli Dakshanamoorthy, Katsuhiko Ariga, and Yusuke Yamauchi.* Hard-templating Synthesis of Mesoporous Pt-Based Alloy Particles with Low Ni and Co Contents. *Chemistry Letters*. 2013, 42, 447-449. (IF: 1.594) (SCI, EI)
14. Norihiro Suzuki, Yuichiro Kamachi, Ya-Dong Chiang, **Kevin C.-W. Wu**, Keisuke Sato, Naoki Fukata, Mikiya Matsuura, Kazuhiko Maekawa, Katsuhiko Ariga, and Yusuke Yamauchi.* Synthesis of Mesoporous Antimony-Doped Tin Oxide (ATO) Thin Films and Investigation of Their Electrical Conductivity. *CrystEngComm*. 2013, 15, 4404-4407. (IF: 3.879) (SCI, EI)
15. Norihiro Suzuki, Mohamed B. Zakaria, Nagy L. Torad, **Kevin C.-W. Wu***, Yoshihiro Nemoto, Masataka Imura, Minoru Osada,* and Yusuke Yamauchi.* Synthesis of Highly Strained Mesostructured SrTiO₃/BaTiO₃ Composite Films with Robust Ferroelectricity. *Chemistry-A European Journal*. 2013, 19(14), 4446-4450. (IF: 5.831) (SCI, EI)
16. Bishnu Prasad Bastakoti, Yin-Chu Hsu, Shih-Hsiang Liao, **Kevin C.-W. Wu***, Masamichi Inoue, Shin-ichi Yusa, Kenichi Nakashima*, and Yusuke Yamauchi.* Inorganic-Organic Hybrid Nanoparticles with Biocompatible Calcium Phosphate Thin Shells for Drastic Enhanced Fluorescence. *Chemistry-An Asian Journal*. 2013, 8(6), 1301-1305. (IF: 4.572) (SCI, EI)
17. Bishnu Prasad Bastakoti, **Kevin C.-W. Wu***, Masamichi Inoue, Shin-ichi Yusa, Kenichi

- Nakashima,* and Yusuke Yamauchi.* Multifunctional Core-Shell-Corona-Type Polymeric Micelles for Anticancer Drug-Delivery and Imaging. *Chemistry-A European Journal*. 2013, 19(15), 4812-4817. (IF: 5.831) (SCI, EI)
18. Bishnu Prasad Bastakoti, **Kevin C.-W. Wu*** and Yusuke Yamauchi.* Synthesis of Fine Gold Nanoparticles in Mesoporous Titania Nanoparticles through Different Reduction Methods. *Journal of Nanoscience and Nanotechnology*. 2013, 13, 2735-2739. (IF: 1.149) (SCI, EI)
 19. Hou-Sheng Huang, Kuo-Hsin Chang, Norihiro Suzuki, Yusuke Yamauchi,* Chi-Chang Hu* and **Kevin C.-W. Wu.*** Evaporation-induced Coating of Hydrous Ruthenium Oxide on Mesoporous Silica Nanoparticles to Develop High-performance Supercapacitors. *Small*. 2013, 9(15), 2520-2526. (IF: 7.823) (SCI, EI)
 20. Hsien-Ming Kao,* Yi-Wen Chen, Juti Rani Deka, and **Kevin C. -W. Wu.*** Highly Carboxylic Acid Functionalized Benzene-bridged Periodic Mesoporous Organosilicas: Synthesis, Bifunctionalization and Remarkable Adsorption Performance. *Chemistry-A European Journal*. 2013, 19(20), 6358-6367. (IF: 5.831) (SCI, EI)
 21. Bishnu Prasad Bastakoti, Hamid Oveisi, Chi-Chang Hu,* **Kevin C. -W. Wu,*** Norihiro Suzuki, Kimiko Takai, Yuichiro Kamachi, Masataka Imura, and Yusuke Yamauchi*. Mesoporous Carbon Incorporated with In₂O₃ Nanoparticles as High-Performance Supercapacitors. *European Journal of Inorganic Chemistry*. 2013, 1109-1112. (IF: 3.120) (SCI, EI)
 22. Hong-Yuan Lian, Zhen-Kai Kao, Ying-Chih Liao,* Yusuke Yamauchi* and **Kevin C.-W. Wu.*** Self-Assembled Mesoporous Silica Nanoparticles in Controlled Patterns Produced by Soft Lithography and Ink-Jet Printing. *Journal of Nanoscience and Nanotechnology*. 2013, 13, 2804-2808. (IF: 1.149) (SCI, EI)
 23. I-Jung Kuo, Norihiro Suzuki, Yusuke Yamauchi and **Kevin C.-W. Wu.*** Cellulose-to-HMF Conversion Using Crystalline Mesoporous Titania and Zirconia Nanocatalysts in Ionic Liquid Systems. *RSC Advances*. 2013, 3, 2028-2034. (IF: 2.562) (SCI, EI)
 24. Hamed Atae-Esfahani, Jian Liu, Ming Hu, Nobuyoshi Miyamoto, Satoshi Tominaka, **Kevin C.-W. Wu,*** and Yusuke Yamauchi.* Mesoporous Metallic Cells: Design of Uniformly Sized Hollow Mesoporous Pt-Ru Particles with Tunable Shell Thickness. *Small*. 2013, 9(7), 1047-1051. (IF: 7.823) (SCI, EI)
 25. Bishnu Prasad Bastakoti, Yuichiro Kamachi, Hou-Sheng Huang, Lin-Chi Chen, **Kevin C. -W. Wu,*** and Yusuke Yamauchi.* Hydrothermal Synthesis of Binary Ni-Co Hydroxides and Carbonate Hydroxides as Pseudosupercapacitors. *European Journal of Inorganic Chemistry*. 2013, 39-43. (IF: 3.120) (SCI, EI)
 26. Hou-Sheng Huang, Kuo-Hsin Chang, Norihiro Suzuki, Yusuke Yamauchi,* Chi-Chang Hu* and **Kevin C.-W. Wu.*** Evaporation-induced Coating of Hydrous Ruthenium Oxide on Mesoporous Silica Nanoparticles to Develop High-performance Supercapacitors. *Small*. 2013, 9(15), 2520-2526. (IF: 7.823) (SCI, EI)
 27. Hsien-Ming Kao,* Yi-Wen Chen, Juti Rani Deka, and **Kevin C. -W. Wu.*** Highly Carboxylic Acid Functionalized Benzene-bridged Periodic Mesoporous Organosilicas: Synthesis, Bifunctionalization and Remarkable Adsorption Performance. *Chemistry-A European Journal*. 2013, 19(20), 6358-6367. (IF: 5.831) (SCI, EI)

28. Hamed Atae-Esfahani, Jian Liu, Ming Hu, Nobuyoshi Miyamoto, Satoshi Tominaka, **Kevin C.-W. Wu**,* and Yusuke Yamauchi.* Mesoporous Metallic Cells: Design of Uniformly Sized Hollow Mesoporous Pt-Ru Particles with Tunable Shell Thickness. *Small*. 2013, 9(7), 1047-1051. (IF: 7.823) (SCI, EI)
29. Bishnu Prasad Bastakoti, Yuichiro Kamachi, Hou-Sheng Huang, Lin-Chi Chen, **Kevin C.-W. Wu**,* and Yusuke Yamauchi.* Hydrothermal Synthesis of Binary Ni-Co Hydroxides and Carbonate Hydroxides as Pseudosupercapacitors. *European Journal of Inorganic Chemistry*. 2013, 39-43. (IF: 3.120) (SCI, EI)
30. Hong-Yuan Lian, Zhen-Kai Kao, Ying-Chih Liao,* Yusuke Yamauchi* and **Kevin C.-W. Wu**.* Self-Assembled Mesoporous Silica Nanoparticles in Controlled Patterns Produced by Soft Lithography and Ink-Jet Printing. *Journal of Nanoscience and Nanotechnology*. 2013, 13, 2804-2808. (IF: 1.149) (SCI, EI)
31. 連泓原、趙寶瑜、吳嘉文，“磁性中孔洞氧化鈦膠體晶體之合成與光降解有機物應用”，陶業會刊，2013年，in press。
32. Wun-Huei Peng, Yin-Ying Lee, Connie Wu, and **Kevin C.-W. Wu**.* Acid-Base Bi-functionalized, Large-pored Mesoporous Silica Nanoparticles for Cooperative Catalysis of One-Pot Cellulose-to-HMF Conversion. *Journal of Materials Chemistry*. 2012, 22, 23181-23185. (IF: 5.968) (SCI, EI)
33. Yin-Ying Lee and **Kevin C.-W. Wu**.* Conversion and Kinetics Study of Fructose-to-5-Hydroxymethylfurfural (HMF) Using Sulfonic and Ionic Liquid Groups Bi-functionalized Mesoporous Silica Nanoparticles as Recyclable Solid Catalysts in DMSO Systems. *Physical Chemistry Chemical Physics*. 2012, 14(40), 13914-13917. (IF: 3.573) (SCI, EI)
34. Nagy L. Torad, Hong-Yuan Lian, **Kevin C.-W. Wu**, Mohamed B. Zakaria, Norihiro Suzuki, Shinsuke Ishihara, Qingmin Ji, Mikiya Matsuura, Kazuhiko Maekawa, Katsuhiko Ariga, Tatsuo Kimura, and Yusuke Yamauchi.* Novel Block Copolymer Templates for Tuning Mesopore Connectivity in Cage-Type Mesoporous Silica Films. *Journal of Materials Chemistry*. 2012, 22, 20008-20016. (IF: 5.968) (SCI, EI)
35. Bishnu Prasad Bastakoti, Hou-Sheng Huang, Lin-Chi Chen*, **Kevin C.-W. Wu***, and Yusuke Yamauchi*. Block Copolymer Assisted Synthesis for Porous α -Ni(OH)₂ Microflowers with High Surface Areas as Electrochemical Pseudocapacitor Materials. *Chemical Communications*. 2012, 48, 9150-9152. (IF: 6.169) (SCI, EI)
36. Watcharop Chaikitisilp, Ming Hu, Hongjing Wang, Hou-Sheng Huang, Taketoshi Fujita, **Kevin C.-W. Wu**, Lin-Chi Chen, Yusuke Yamauchi* and Katsuhiko Ariga*. Nanoporous Carbons Through Direct Carbonization of a Zeolitic Imidazolate Framework for Supercapacitor Electrodes. *Chemical Communications*. 2012, 48, 7259-7261. (IF: 6.169) (SCI, EI)
37. Bishnu Prasad Bastakoti, Masamichi Inoue, Shin-ichi Yusa, Shih-Hsiang Liao, **Kevin C.-W. Wu***, Kenichi Nakashima* and Yusuke Yamauchi*. A Block Copolymer Micelle Template for Synthesis of Hollow Calcium Phosphate Nanospheres with Excellent Biocompatibility. *Chemical Communications*. 2012, 48, 6532-6534. (IF: 6.169) (SCI, EI)
38. Xiangfen Jiang, Norihiro Suzuki, Bishnu Prasad Bastakoti, **Kevin C.-W. Wu** and Yusuke Yamauchi*. Synthesis of continuous mesoporous Alumina films with

- large-sized cage-type mesopores by using diblock copolymers. *Chemistry–An Asian Journal*. 2012, 7, 1713-1718. (IF: 4.5) (SCI, EI)
39. Liang Wang, Chia-Hung Liu, Yoshihiro Nemoto, Naoki Fukata, **Kevin C.-W. Wu*** and Yusuke Yamauchi*. Rapid synthesis of biocompatible gold nanoflowers with tailored surface textures with the assistance of amino acid molecules. *RSC Advances*. 2012, 2, 4608-4611.
 40. Hsien-Ming Kao*, Chih-Hsuan Chung, Diganta Saikia, Pei-Ying Chao, Yu-Han Chen, and **Kevin C. -W. Wu***. Direct synthesis and characterization of highly carboxylic acid functionalized ethane-bridged periodic mesoporous organosilicas. *Chemistry–An Asian Journal*. 2012, 7, 2111-2117. (IF: 4.5) (SCI, EI)
 41. Hong-Yuan Lian, Ming Hu, Chia-Hung Liu, Yusuke Yamauchi* and **Kevin C.-W. Wu***. Highly Biocompatible, Hollow Coordination Polymer Nanoparticles as Cisplatin Carriers for Efficient Intracellular Drug Delivery. *Chemical Communications*. 2012, 48, 5151-5153. (IF: 6.169) (SCI, EI)
 42. Norihiro Suzuki, Mohamed Mubark, Ya-Dong Chiang, **Kevin C.-W. Wu***, and Yusuke Yamauchi*. Thermally stable polymer composites with improved transparency by using colloidal mesoporous silica nanoparticles as inorganic fillers. *Physical Chemistry Chemical Physics*, 2012, 14(20), 7427-7432. (IF: 3.573) (SCI, EI)
 43. Hu Ming, Nagy L. K. Torad, Ya-Dong Chiang, **Kevin C.-W. Wu***, and Yusuke Yamauchi*. Size- and Shape-Controlled Synthesis of Prussian Blue Nanoparticles by Polyvinylpyrrolidone-Assisted Crystallization Process. *CrystEngComm*. 2012, 14(10), 3387-3396. (IF: 4.006)
 44. I-Ju Fang, Igor I. Slowing, **Kevin C.-W. Wu**, Victor S.-Y. Lin, and Brian G. Trewyn*. Ligand Conformation Dictates Membrane and Endosomal Trafficking of Linear and Cyclic Arginine-Glycine-Aspartate (RGD)-functionalized Mesoporous Silica Nanoparticles. *Chemistry-A European Journal*. 2012, 18, 7787-7792. (IF: 5.476) (SCI, EI)
 45. Yu-Te Liao, Chao-Wei Huang, Chi-Hung Liao, Jeffery C.-S. Wu*, and **Kevin C.-W. Wu***. Synthesis of Mesoporous Titania Thin Films (MTTFs) With Two Different Structures as Photocatalysts for Generating Hydrogen from Water Splitting. *Applied Energy*. 2012, 100, 75-80. (IF: 3.915) (EI)
 46. **Kevin C.-W. Wu** and Yusuke Yamauchi*. Controlling physical features of mesoporous silica nanoparticles (MSNs) for emerging applications. *Journal of Materials Chemistry*, 2012, 22(4), 1251-1256. Highlight Article. (IF: 5.968) (SCI, EI)
 47. 廖祐德、黃朝偉、廖啟宏、陳信璋、吳嘉文、吳紀聖、何國川，“製備中孔洞二氧化鈦之奈米顆粒應用於可撓曲染料敏化太陽能電池與薄膜應用於光觸媒水分解產氫”，*化工技術*，20期，44–70頁，2012年2月號。
 48. Juan L. Vivero-Escoto, Ya-Dong Chiang, **Kevin C.-W. Wu***, Yusuke Yamauchi*. Recent Progress in Mesoporous Titania Materials: Morphological Controls for Innovative Applications. *Science and Technology of Advanced Materials*, 2012, 13, 013003-013012. (IF: 3.226) (SCI, EI)
 49. Hsin-Wei Chen, Yu-Te Liao, Jian-Ging Chen, **Kevin C.-W. Wu***, Kuo-Chuan Ho*. Fabrication and characterization of plastic-based flexible dye-sensitized solar cells

- consisting of crystalline mesoporous titania nanoparticles as photoanodes. *Journal of Materials Chemistry*, 2011, 21(43), 17511-17518 (IF: 5.099) (SCI, EI)
50. **Kevin C.-W. Wu***, Ya-Huei Yang, Yung-He Liang, Hui-Yuan Chen, Eric Sung, Yusuke Yamauchi and Feng-Huei Lin. Facile Synthesis of Hollow Mesoporous Hydroxyapatite Nanoparticles for Intracellular Bio-imaging. *Current Nanoscience*, 2011, 7(6), 926-931. (IF: 1.879) (EI)
 51. Renee Han-Yi Chang, Jen Jang, and **Kevin C.-W. Wu***. Cellulase Immobilized Mesoporous Silica Nanocatalysts for Efficient Cellulose-to-Glucose Conversion. *Green Chemistry*, 2011, 13(10), 2844-2850. (IF: 5.472) (SCI)
 52. Ya-Dong Chiang, Hong-Yuan Lian, Sin-Yen Leo, Shy-Guey Wang, Yusuke Yamauchi, and **Kevin C.-W. Wu***. Controlling Particle Size and Structural Properties of Mesoporous Silica Nanoparticles Using the Taguchi Method. *Journal of Physical Chemistry C*, 2011, 115, 13158-13165. (IF: 4.520) (SCI, EI)
 53. Hsin-Wei Chen, Chih-Peng Liang, Hou-Sheng Huang, Jian-Ging Chen, R. Vittal, Chia-Yu Lin, **Kevin C.-W. Wu***, Kuo-Chuan Ho*. Electrophoretic deposition of mesoporous TiO₂ nanoparticles consisting of primary anatase nanocrystallites on a plastic substrate for flexible dye-sensitized solar cells. *Chemical Communications*, 2011, 47(29), 8346-8348. (IF: 5.787) (SCI, EI)
 54. Xiangfen Jiang, Hamid Oveisi, Yoshihiro Nemotoa, Norihiro Suzukia, **Kevin C.-W. Wu***, and Yusuke Yamauchi*. Synthesis of Highly Ordered Mesoporous Alumina Thin Films and Their Framework Crystallization to γ -Alumina Phase. *Dalton Transactions* 2011, 40, 10851-10856. (IF: 3.647). (SCI, EI)
 55. Wen-Chi Lin, Chun-Wei Chiang, Cheng-Yu Hong, Pei-Jen Chen,* and **Kevin C.-W. Wu***. Confocal Viviperception of a Transparent Medaka Fish (*Oryzias latipes*) Using Functionalized Mesoporous Silica Nanoparticles (MSNs). *Chemistry Letters*, 2011, 40(5), 533-535. (IF: 1.400) (SCI, EI)
 56. **Kevin C.-W. Wu**, Xiangfen Jiang, and Yusuke Yamauchi*. New Trend on Mesoporous Films: Precise Controls of One-Dimensional (1D) Mesochannels toward Innovative Applications. *Journal of Materials Chemistry*, 2011, 21, 8934-8939. Highlight Article. 2011, 21, 8934-8939. (IF: 5.099) (SCI, EI)
 57. Wei-Hang Hsu, Yin-Ying Lee, Wun-Huei Peng, and **Kevin C.-W. Wu***. Cellulosic Conversion in Ionic Liquids (ILs): Effects of H₂O/Cellulose Molar Ratios, Temperatures, Times, and Different ILs on the Production of Monosaccharides and 5-Hydroxymethylfurfural (HMF). *Catalysis Today*, 2011, 174, 65-69. (IF: 2.993) (SCI, EI)
 58. Chen-Yu Hong, Yusuke Yamauchi,* and **Kevin C.-W. Wu***. In vitro cytotoxicity and intracellular bioimaging of dendritic platinum nanoparticles by differential interference contrast (DIC). *Chemistry Letters*, 2011, 40(4), 408-409. (Selected as Editor Choice) (IF: 1.400) (SCI)
 59. **Kevin C.-W. Wu***, Yusuke Yamauchi, Chen-Yu Hong, Ya-Huei Yang, and Yung-He Liang. Biocompatible, Surface Functionalized Mesoporous Titania Nanoparticles for Intracellular Imaging and Anticancer Drug Delivery. *Chemical Communications*, 2011, 47(18), 5232-5234. (IF: 5.787) (SCI, EI)
 60. Hong-Yuan Lian, Yung-He Liang, Yusuke Yamauchi, and **Kevin C.-W. Wu***. A

Hierarchical Study on Load/Release Kinetics of Guest Molecules Into/From Mesoporous Silica Thin Films. *Journal of Physical Chemistry C*, 2011, 115(14), 6581-6590 (IF: 4.520) (SCI, EI)

61. Bor-Shiunn Lee, Li-Chun Huang, Chen-Yu Hung, Shy-Guey Wang, Wei-Hang Hsu, Yusuke Yamauchi, Juin-Yih Lai, and **Kevin C.-W. Wu***. Synthesis of Metal Ion-Histidine Complex Functionalized Mesoporous Silica Nanocatalysts for Enhanced Light-Free Tooth Bleaching. *Acta Biomaterialia*, 2011, 7, 2276-2284 (IF: 3.781) (SCI)
62. Hamid Oveisi, Ali Beitollahi, Masataka Imura, **Chia-Wen Wu**, and Yusuke Yamauchi. Synthesis and characterization of highly ordered titania-alumina mixed oxide mesoporous films with high alumina content. *Microporous and Mesoporous Materials* (2010) 134, 150-156. (IF: 2.652) (SCI,EI) (SCI, EI)
63. Satoshi Tominaka, **Chia-Wen Wu**, Kazuyuki Kuroda, and Tetsuya Osaka*. Electrochemical analysis of perpendicular mesoporous Pt electrode filled with pure water for clarifying the active region in fuel cell catalyst layers. *Journal of Power Sources* (2010), 195, 2236-2240. (IF: 3.477) (SCI,EI)
64. **吳嘉文** , 中孔洞奈米材料之孔洞方向控制及其應用 , Orientational Control and Applications of Mesoporous Materials. *工業材料* , 2009 , 10月號 , 274 , p129-p137。
65. Juan L. Vivero-Escoto, Igor I. Slowing, **Chia-Wen Wu**, and Victor S.-Y. Lin*. Photoinduced Intracellular Controlled Release Drug Delivery in Human Cells by Gold-Capped Mesoporous Silica Nanosphere. *Journal of the American Chemical Society* (2009), 131, 3462-3463. (IF: 8.091) (SCI,EI)
66. Shy-Guey Wang, **Chia-Wen Wu**, Kwumin Chen, and Victor S.-Y. Lin*. Fine-Tuning Mesochannel Orientation of Organically Functionalized Mesoporous Silica Nanoparticles. *Chemistry-An Asian Journal* (2009), 4, 658-661. (IF: 4.197) (SCI,EI)
67. Igor I. Slowing, **Chia-Wen Wu**, Juan L. Vivero-Escoto, and Victor S.-Y. Lin*, 2008, "Mesoporous silica nanoparticles for reducing hemolytic activity towards mammalian red blood cells," *Small* (2009), 5, 57-62. (IF: 6.525) (SCI,EI).

Books/Chapters

1. Hsin-Wei Chen, **Kevin C.-W. Wu*** and Kuo-Chuan Ho*. Trends and Topics in Sensitized and Organic Solar Cells. Ch.7: Electrophoretic deposition of mesoporous TiO₂ nanoparticles film for plastic-based dye-sensitized solar cells. CMC Publishing Co., Ltd. (2012)

Conference Talks and Posters

1. **Chia-Wen Wu (吳嘉文)**. Orientational Control of Mesochannels in Organically Functionalized Mesoporous Silica Nanoparticles. 海報發表, 2009 中國化學會年會, 義守大學, 12月4-6日, 2009.
2. Shy-Guey Wang (王詩貴), **Chia-Wen Wu (吳嘉文)**, Kwunmin Chen (陳錕明), and

- Victor S.-Y. Lin (林尚義). Fine-tuning Mesochannel Orientation of Organically Functionalized Mesoporous Silica Nanoparticles. 海報發表, 2009 台灣化學工程學會 56週年會, 中興大學, 11月27-28日, 2009.
3. Shy-Guey Wang, **Chia-Wen Wu**, Kwumin Chen, and Victor S.-Y. Lin*. Orientational Control of Mesochannels in Organically Functionalized Mesoporous Silica Nanoparticles. Poster presentation. Tokyo, Japan. Aug. 3-7, 2009.
 4. **吳嘉文**. Orientational control of 2D hexagonal mesochannels in highly ordered mesoporous silica and titania films and nanoparticles. 邀請演講. 2009 Taiwan Catalysis Club meeting. 台北, 3月7日, 2009.
 5. **吳嘉文**. Highly Ordered Mesoporous Silica and Titania Thin Films and Nanoparticles: Synthesis, Structural Characterization, Micropatterning, and Optoelectronic and Biomedical Applications. 邀請演講. Workshop of Nano Hybrid Materials through Sol Gel/ Colloidal Processes. 工研院, 1月20-21日, 2009.
 6. **Kevin Chia-Wen Wu**. Orientational control of 2D hexagonal mesoporous thin films and nanoparticles. Poster. The 5th Waseda G-COE International Symposium, Waseda University, Tokyo, Japan. January 14, 2010.
 7. Wun-Huei Peng and **Kevin Chia-Wen Wu**. One-pot enhanced cellulose-to-5-hydroxymethylfurfural (5-HMF) conversion by using acid-alkaline bi-functionalized mesoporous silica nanocatalysts (MSN). Poster. The Sixth Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT6) and The Fifth Asia Pacific Congress on Catalysis (APCAT5) Post-Conference, Toyako, Hokkaido, Japan. July 24-25, 2010.
 8. **Kevin Chia-Wen Wu**. Mesoporous materials for biomedical and energy applications. Invited talk. The 10th Emerging Information and Technology Conference (EITC-2010), James H. Clark Center, Stanford University, CA, U.S.A. August 14-15, 2010.
 9. Ya-Heui Yang and **Kevin Chia-Wen Wu**. Dye-Labeled Hollow Hydroxyapatite Nanoparticles for Cell Imaging and Drug Delivery. Poster. The 13th Asia Pacific Confederation of Chemical Engineering Congress (2010 APCCChE). Taipei, Taiwan. October 5-8, 2010.
 10. Hong-Yuan Lian and **Kevin Chia-Wen Wu**. Functionalized mesoporous silica thin films for controlled release: effects of mesostructures, functionalities and morphologies on the release kinetics of guest molecules. The 13th Asia Pacific Confederation of Chemical Engineering Congress (2010 APCCChE). Taipei, Taiwan. October 5-8, 2010.
 11. Wun-Huei Peng and **Kevin Chia-Wen Wu**. Acid-alkaline bi-functionalized mesoporous silica nanocatalysts for direct cellulose-to-HMF conversion. Poster. The 13th Asia Pacific Confederation of Chemical Engineering Congress (2010 APCCChE). Taipei, Taiwan. October 5-8, 2010.
 12. Yu-Te Liao and **Kevin Chia-Wen Wu**. Synthesis of Glucose Oxidase and Iron(III)-Histidine Complex Bi-Functionalized Mesoporous Silica Nanoparticles for Glucose Sensors. Poster. The 13th Asia Pacific Confederation of Chemical Engineering Congress (2010 APCCChE). Taipei, Taiwan. October 5-8, 2010.

13. Chen-Yu Hung and **Kevin Chia-Wen Wu**. Synthesis of Mesoporous Titania Nanoparticles. Poster. The 13th Asia Pacific Confederation of Chemical Engineering Congress (2010 APCCChE). Taipei, Taiwan. October 5-8, 2010.
14. Ying-Ying Lee and **Kevin Chia-Wen Wu**. Synthesis of Mesoporous Silica Nanoparticles Exhibiting Sulfonic Groups and Ionic Liquids toward Cellulose-to-5-hydroxymethylfurfural (5-HMF) Biomass Conversion. Poster. The 13th Asia Pacific Confederation of Chemical Engineering Congress (2010 APCCChE). Taipei, Taiwan. October 5-8, 2010.
15. Ya-Heui Yang and **Kevin Chia-Wen Wu**. Functionalized hollow hydroxyapatite (HAp) nanoparticles for intracellular cell imaging and drug delivery. Poster. 2010 International Symposium of Materials on Regenerative Medicine (2010 ISOMRM). Zhunan, Taiwan. November 3-5, 2010.
16. Hong-Yuan Lian and **Kevin Chia-Wen Wu**. Functionalized Mesoporous Silica Thin Films for Controlled Release: Effects of Mesostructures, Surface Modifications, and Morphologies on the Release Kinetics of Guest Molecules. The 23th International Symposium on Chemical Engineering. Kyushu Sangyo University, Fukuoka, Japan. December 4-5, 2010.
17. Ya-Dong Jiang, Hong-Yuan Lian and **Kevin Chia-Wen Wu**. Size Control of Mesoporous Silica Nanoparticles Using Taguchi Method. The 23th International Symposium on Chemical Engineering. Kyushu Sangyo University, Fukuoka, Japan. December 4-5, 2010.
18. **Kevin Chia-Wen Wu**, "Functionalized Mesoporous Nanoparticles for Biomedical Applications and Cellulosic Conversion", (Invited Talk) NIMS International Symposium on Photocatalysis and Environmental Remediation Materials 2011, Tsukuba, Japan, Jan. 2011.
19. **Kevin Chia-Wen Wu**, "2D Hexagonal Mesoporous Thin-Films and Nanoparticles: Orientational Control and Applications", (Invited Talk) Department of Organic and Polymeric Materials, Tokyo Institute of Technology, Tokyo, Japan, Feb. 3. 2011.
20. **Kevin Chia-Wen Wu**, "Orientational Control of 2D Hexagonal Mesoporous Materials", (Invited Talk) Canon Company, Tokyo, Japan, Feb. 21. 2011.
21. Yin-Ying Lee and **Kevin Chia-Wen Wu**. Synthesis of Mesoporous Silica Nanoparticles Exhibiting Sulfonic Groups and Ionic Liquids toward Cellulose-to-hydroxymethylfurfural (HMF) Biomass Conversion. Poster. 2011 International Symposium on Alcohol Fuels (2011 ISAF). Verona, Italy. October 10-14, 2011.
22. Yu-Te Liao, Chao-Wei Huang, Chi-Hung Liao, Jeffrey Chi-Sheng Wu and **Kevin Chia-Wen Wu**. Synthesis of Mesoporous Titania Thin Films (MTTFs) with Two Different Structures as Photocatalysts for Generating Hydrogen from Water Splitting. Poster. 11th International Conference on Clean Energy (ICCE-2011). Taichung, Taiwan. November 2-5, 2011.
23. **Kevin C.-W. Wu (吳嘉文)**. Mesoporous Nanoparticles for Biomedical Applications and Lignocellulosic Biomass Conversion. 邀請演講, 2012 觸媒研討會, 台灣大學, 3月21日, 2012.

24. **Kevin C.-W. Wu**, "Synthesis and Intracellular Bio-imaging of Mesoporous Hydroxyapatite Nanoparticles with a Hollow Structure", 9th World Biomaterials Congress, Chengdu, China, June 1-5. 2012.
25. Yi-Chun Lee, Chiang-Tien Chen, Wei-Yu Shih and **Kevin C.-W. Wu**, An Effective Sequential Cellulose-to-Glucose and Glucose-to-Fructose Conversion Using Cellulase and Isomerase Separately Immobilized, Fe₃O₄-Loaded Mesoporous Silica Nanoparticle as Recyclable Biocatalysts. 第30屆台灣觸媒及反應工程研討會, 東華大學, 6月28-29日, 2012.
26. **Kevin C.-W. Wu**, "Design and Synthesis of Functionalized Mesoporous Solid Nanoparticles as Drug Nanovehicles for Intracellular Drug Delivery Systems", International Conference of Young Research on Advanced Materials, Singapore, July 1-6. 2012.
27. Yung-He Liang and **Kevin C.-W. Wu**, "Synthesis of Calcium Phosphate/Alginate Core/Shell Nanoparticles (CaP@alginate) through Pre-gel Method as a pH-Responsive Drug Carrier", 5th Asian Particle Technology (APT-2012), Singapore, July 2-5. 2012.
28. Yin-Ying Lee and **Kevin C.-W. Wu**, "Synthesis of Mesoporous Silica Nanoparticles Exhibiting Sulfonic Groups and Ionic Liquids toward Cellulose-to-5-hydroxymethylfurfural (5-HMF) Biomass Conversion", 5th Asian Particle Technology (APT-2012), Singapore, July 2-5. 2012.
29. Yu-Te Liao, Jiashing Yu and **Kevin C.-W. Wu**, "Synthesis of Mesoporous Silica Nanoparticle Encapsulated Alginate Microparticles for Sustained Release and Targeting Chemotherapy", 5th Asian Particle Technology (APT-2012), Singapore, July 2-5. 2012.
30. Yu-Pu Wang, Yu-Te Liao and **Kevin C.-W. Wu**, "Synthesize of Mesoporous Silica Nanoparticle Encapsulated Alginate Microparticles (MSN@Alg) for Sustained Release", 2012 International Symposium of Materials on Regenerative Medicine (2012 ISOMRM). Taipei, Taiwan, August 29 - 31, 2012.
31. Shih-Hsiang Liao, Yung-He Liang and **Kevin C.-W. Wu**, "Synthesis of Calcium Phosphate/Alginate Core/Shell Nanoparticles (CaP@alginate) through pre-gel Method as pH-responsive Drug Carriers", 2012 International Symposium of Materials on Regenerative Medicine (2012 ISOMRM). Taipei, Taiwan, August 29 - 31, 2012.
32. Yuan-Yun Lin, Ling Chao and **Kevin C.-W. Wu**, "Synthesis of A Novel Mesoporous Carbon Nanoparticles (MCNs)/Phospholipid Layer Core/Shell structure as An Anticancer Drug Nanovehicle for Efficient Intracellular Delivery", 2012 International Symposium of Materials on Regenerative Medicine (2012 ISOMRM). Taipei, Taiwan, August 29 - 31, 2012.
33. Yi-Chun Lee, Ching-Tien Chen and **Kevin C.-W. Wu**, "Glucose Isomerase Immobilized Mesoporous Silica Nanoparticles as Efficient Green Biocatalysts for Glucose-to-Fructose Conversion", 5th International Conference on Industrial Bioprocesses in Taiwan, Taiwan, October 7-10. 2012.
34. Yi-Chun Lee, Ching-Tien Chen and **Kevin C.-W. Wu**, "One-Step Cellulose-to-Fructose Conversion Using Cellulase and Isomerase Bi-enzymes Immobilized, Fe₃O₄-Encapsulated Mesoporous Silica Nanoparticles as a Novel Recyclable Biocatalyst", International Symposium on Zeolites and Microporous Crystals (ZMPC 1012). Hiroshima, Japan, July 28- August 1, 2012.

35. Shih-Hsiang Liao and **Kevin C.-W. Wu**, “Biocompatible, Surface Functionalized Mesoporous Titania Nanoparticles for Intracellular Imaging and Anticancer Drug Delivery”, International Symposium on Zeolites and Microporous Crystals (ZMPC 1012). Hiroshima, Japan, July 28- August 1, 2012.
36. Yu-Pu Wang, Yu-Te Liao and **Kevin C.-W. Wu**, “Synthesize of Mesoporous Silica Nanoparticle Encapsulated Alginate Microparticles (MSN@Alg) for Sustained Release”, International Conference on Biomaterials Science (ICBS2013). Tsukuba, Japan, March 19- 22, 2013.
37. Ya-Dong. Chiang and **Kevin C.-W. Wu**, “Controlling particle size and structural properties of mesoporous silica nanoparticles using the taguchi method”, Third International Conference on Multifunctional, Hybrid and Nanomaterials. Sorrento, Italy, March 3- 7, 2013
38. Yu-Ting Chiu and **Kevin C.-W. Wu**, “Acid-Base Bi-functionalized, Large-pored Mesoporous Silica Nanoparticles for Cooperative Catalysis of One-Pot Cellulose-to-HMF Conversion”, 7th International Symposium on Acid-Base Catalysis(ABC-7). Tokyo, Japan, May 12- May 15, 2013
39. Lian, H.-Y.; **Wu, K. C. W.**, Synthesis of magnetic mesoporous titania colloidal crystals for photocatalytic degradation. 8th International Mesostructured Materials Symposium, Awaji island, Hyogo, Japan, May 20-24, 2013.
40. 廖士翔和吳嘉文,「結合共沈澱及預凝膠法合成氧化鐵/海藻膠奈米粒子並用於肝癌細胞的標靶溫熱治療」, 2013 年中華民國陶業研究學會會員大會, 台北科技大學, 台北, 2013 年 5 月 24 日。
41. 連泓原、趙寶瑜和吳嘉文,「磁性中孔洞氧化鈦膠體晶體之合成與光降解有機物應用」, 2013 年中華民國陶業研究學會會員大會, 台北科技大學, 台北, 2013 年 5 月 24 日。
42. Yu-Ting Chiu and **Kevin C.-W. Wu** ,“Efficient and Subsequent Production of 2,5-dimethylfuran (DMF) from Fructose and 5-Hydroxymethyl furfural (HMF) Using Acid-Functionalized Mesoporous Silica Nanocatalysts”,第三十一屆台灣觸媒及反應工程研討會. Taipei, Taiwan, June 27- June 28, 2013.
43. Ya-Dong Chiang,Ching-Tien Chen and **Kevin C.-W. Wu**, “Functionalized Mesoporous Silica Nanoparticles for One-Pot Algae-to-Biodiesel Conversion”, 第三十一屆台灣觸媒及反應工程研討會. Taipei, Taiwan, June 27- June 28, 2013.
44. Yu-Ting Chiu and **Kevin C.-W. Wu** , “Efficient and Subsequent Production of 2,5-dimethylfuran (DMF) from Fructose and 5-Hydroxymethyl furfural (HMF) Using Acid-Functionalized Mesoporous Silica Nanocatalysts”, The Sixth Asia-Pacific Congress on Catalysis (APCAT-6). Taipei, Taiwan, October 13- October 17, 2013
45. Yu-Ting Chiu and **Kevin C.-W. Wu** ,“Efficient and Subsequent Production of 2,5-dimethylfuran (DMF) from Fructose and 5-Hydroxymethyl furfural (HMF) Using Acid-Functionalized Mesoporous Silica Nanocatalysts”. 60th Annual Meeting of the Taiwan Institute of Chemical Engineers. Taipei, Taiwan, November 22- 23, 2013

46. Yu-Pu Wang and **Kevin C.-W. Wu**, "Synthesis of Hydroxyapatite Nanoparticle-Encapsulated Alginate Microspheres (HA@Alg) for Bone Regeneration", The 60th Annual Meeting of the Taiwan Institute of Chemical Engineers. Taipei, Taiwan, November 22- 23, 2013
47. Yu-Te Liao and **Kevin C.-W. Wu**, "Synthesis of Mesoporous Silica Nanoparticle Encapsulated Alginate Microparticle labeled with RGD-based peptide (MSN@Alg-RGD) for Sustained Release & Targeting Therapy ", The 60th Annual Meeting of the Taiwan Institute of Chemical Engineers. Taipei, Taiwan, November 22-23, 2013
48. Ching-Tien Chen and **Kevin C.-W. Wu**, "A Simple Methods to Attach Magnetic Particles on Commercial Lipase Acrylic Resin from Candida Antarctica and its Application toward the Transesterification Reaction of Soybean Oil", The 60th Annual Meeting of the Taiwan Institute of Chemical Engineers. Taipei, Taiwan, November 22-23, 2013

Technology Transfer

1. 技術移轉: “牙齒美白金屬離子催化劑”, 李伯訓、**吳嘉文**, 沃康生技股份有限公司, 新台幣五十五萬元(2012/05/15)

Honors and Others

1. Visiting researcher, Mesoscale Materials Institute, Waseda University, Japan. 2009/07-now
2. Visiting scientist, International Center for Materials Nanoarchitectonics, National Institute for Materials Science (NIMS), Japan. Jan. 6th – Feb. 11th, 2010.
3. 彭文暉同學 /指導教授**吳嘉文**教授第 13 屆亞太化工會議 (2010 APCCChE Congress) 觸媒與反應工程組 (Catalysis and Reaction Engineering) 最佳海報論文獎 (best poster paper award) 2010/10/05-08
4. 連泓原同學 /指導教授**吳嘉文**教授第 13 屆亞太化工會議 (2010 APCCChE Congress) 奈米材料與技術 (Nano-materials and Nano technologies) 最佳海報論文獎 (best poster paper award) 2010/10/05-08
5. 楊雅惠同學 /指導教授**吳嘉文**2010 年國際再生醫療材料會議 (ISOMRM) 獲得最佳海報獎2010/11/03-05
6. Joint Appointed Assistant Investigator, Division of Medical Engineering Research, National Health Research Institutes (Aug. 2010 – present)
7. Visiting scientist, International Center for Materials Nanoarchitectonics, National Institute for Materials Science (NIMS), Japan. Jan. 5th – Feb. 23th, 2011.
8. 李盈瑩同學 /指導教授**吳嘉文**教授 2011 台灣化學工程學會 58 週年年會海報獎 (best poster paper award) 2011/11/25-26

9. 李翊群同學 /指導教授吳嘉文教授 2011 台灣化學工程學會 58 週年年會海報獎 (best poster paper award) 2011/11/25-26
10. Visiting scientist, International Center for Materials Nanoarchitectonics, National Institute for Materials Science (NIMS), Japan. 2012/01/26 - 02/25.
11. 化學技術學刊, 2012 年 2 月號, 光化學的應用專輯, 主編。
12. Visiting scientist, International Center for Materials Nanoarchitectonics, National Institute for Materials Science (NIMS), Japan. 2012/07/21 - 08/19.
13. 李翊群、陳靖天、石瑋玉同學 /指導教授吳嘉文教授 第 30 屆台灣觸媒及反應工程研討會海報獎 (best poster paper award) 2012/06/28-29
14. 2012 國際再生醫學材料年會 (ISOMRM) 的 Young Investigator Award (YIA)
15. Editor and Editorial Board, Advanced Powder Technology, Elsevier (2012/12-)
16. 連泓原、趙寶瑜、吳嘉文, 「磁性中孔洞氧化鈦膠體晶體之合成與光降解有機物應用」, 2013 年中華民國陶業研究學會會員大會, 台北科技大學, 台北, 2013 年 5 月 24 日。(論文競賽第三名)
17. 江亞東同學 /指導教授吳嘉文教授 2013 第三十一屆台灣觸媒與反應工程研討會壁報論文競賽佳作
18. 陳靖天同學 /指導教授吳嘉文教授 2013 年台灣化學工程學會 60 週年年會暨國科會化工學門成果發表會壁報(佳作) 2013/11/22-23
19. 邱瑜婷同學 /指導教授吳嘉文教授 2013 年台灣化學工程學會 60 週年年會暨國科會化工學門成果發表會 觸媒及反應工程組海報優等獎 (best poster paper award) 2013/11/22-23
20. 廖祐德 /指導教授吳嘉文教授 2013 年台灣化學工程學會 60 週年年會暨國科會化工學門研究生英語專題報告競賽佳作獎 2012/11/22-23