



南台科技大學
化學工程與材料工程系



Department of Chemical and Materials Engineering
Southern Taiwan University



- 陳志彥 (Chuh-Yean Chen) 教授
- 辦公室：I405
- 電話：06-2533131 轉 3722
- 傳真：06-2425741 (化材系共用)
- 電子信箱：yea@stust.edu.tw

◆ 學經歷：

- 1962年6月生於台南縣。
- 嘉義縣梅山國小(1968~1974) ● 嘉義縣梅山國中(1974~1977)
- 台南一中(1977~1980) ● 淡江大學化工系(1980~1984)
- 成功大學化工碩士(1984~1986) ● 陸軍兵役2年(1986~1988)
- 南台科技大學講師(1988~2003)
- 1998年9月回成大攻讀博士，2002年12月取得化工博士學位。

◆ 研究領域 --- 螯合高分子(Chelating polymer)的合成與應用

(1) 製備螯合高分子並應用於回收與分離水中的重金屬離子：

- 期望降低水中的重金屬離子之汙染。
- 藉由分離與純化技術，提高回收的重金屬離子之價值。

(2) 應用螯合高分子製備奈米無機粒/高分子複合材料：

- 研究製備奈米粒的相關技術。
- 探討相關複合材料的應用，例如光觸媒特性、殺菌性質---等。

●個人著作●

(A)期刊論文

- [1] Chuh-Yean Chen*, Chen-Li Chiang, "Preparation of cotton fibers with antibacterial silver nanoparticles", *Materials Letters*, 62, 3607-3609 (2008). (SCI) 2008 年 8 月。
- [2] Chuh-Yean Chen*, Mao-Syong Lin, Kun-Rong Hsu, "Recovery of Cu(II) and Cd(II) by a chelating resin containing aspartate groups", *Journal of Hazardous Materials*, 152(3), 986-993 (2008). (SCI) 2008 年 4 月。
- [3] Chen-Li Chiang*, Chuh-Yean Chen, Ling-Wei Chang, "Purification of Recombinant Enhanced Green Fluorescent Protein Expressed in Escherichia coli with New Immobilized Metal Ion Affinity Magnetic Absorbents", *Journal of Chromatography B*, 864, 116-122 (2008). (SCI) 2008 年 3 月。
- [4] Chuh-Yean Chen*, Chen-Li Chiang, Chuh-Rou Chen, "Removal of heavy metal ions by a chelating resin containing glycine as chelating groups", *Separation and Purification Technology*, 54, 396-403 (2007). (SCI) 2007 年 5 月。
- [5] Chen-Li Chiang*, Ching-Shan Sung, Chuh-Yean Chen, "Application of Silica-Magnetite Nanocomposites to the Isolation of Ultrapure Plasmid DNA from Bacterial Cells", *Journal of Magnetism and Magnetic Materials*, 305, 483-490 (2006). (SCI) 2006 年 10 月。
- [6] Chuh-Yean Chen*, Chen-Li Chiang, Po-Chen Huang, "Adsorptions of Heavy Metal Ions by a Magnetic Chelating Resin Containing Hydroxy and Iminodiacetate Groups", *Separation and Purification Technology*, 50, 15-21 (2006). (SCI) 2006 年 7 月。
- [7] Chen-Li Chiang*, Ching-Shan Sung, Ting-Feng Wu, Chuh-Yean Chen, Chiung-Yuen Hsu, "Application of Superparamagnetic Nanoparticles in Purification of Plasmid DNA from Bacterial Cells", *Journal of Chromatography B*, 822, 54-60 (2005). (SCI) 2005 年 8 月
- [8] Chuh-Yean Chen*, Chuh-Yung Chen, "Formation of Silver Nanoparticles on a Chelating Copolymer Film Containing Iminodiacetic Acid", *Thin Solid Films*, 484, 68-72 (2005). (SCI) 2005 年 7 月
- [9] Chuh-Yean Chen*, Suz-Yen Chen, "Adsorption Properties of a Chelating Resin Containing Hydroxy Group and Iminodiacetic Acid for Copper Ions", *Journal of Applied Polymer Science*, 94, 2123-2130 (2004). (SCI) 2004 年 12 月

- [10] Chuh-Yean Chen, Chuh-Yung Chen*, "Stability Constants of Water-soluble and Latex types of Chelating Polymers Containing Iminodiacetic Acid with some Transition-metal Ions", *European Polymer Journal*, 39, 991-1000 (2003). (SCI) 2003 年 5 月
- [11] Chuh-Yean Chen and Chuh-Yung Chen*, "Stability Constants of Polymer-bound Iminodiacetate-type Chelating Agents with some Transition-metal Ions", *Journal of Applied Polymer Science*, 86, 1986-1994 (2002). (SCI) 2002 年 11 月
- [12] Cheng-Chien Wang, Mu-Han Cheng, Chuh-Yean Chen, Chuh-Yung Chen*, "Facilitated Transport of Molecular Oxygen in the Cobalt-Chelated Copolymer Membranes Prepared by Soap-free Emulsion Polymerization", *Journal of Membrane Science*, 208, 133-145 (2002). (SCI) 2002 年 10 月
- [13] Cheng-Ho Chen*, Chuh-Yean Chen, Yu-Wen Lo, Ching-Feng Mao, Wei-Yung Liao, "Studies of Glycolysis of Poly (ethylene terephthalate) Recycled from Post-Consumer Soft- Drink Bottles. I :Influences of Glycolysis Conditions", *Journal of Applied Polymer Science*, 80, 943-948 (2001). (SCI) 2001 年 7 月
- [14] Cheng-Ho Chen*, Chuh-Yean Chen, Yu-Wen Lo, Ching-Feng Mao, Wei-Yung Liao, "Studies of Glycolysis of Poly (ethylene terephthalate) Recycled from Post-Consumer Soft- Drink Bottles. II :Factorial Experimental Design", *Journal of Applied Polymer Science*, 80, 956-962 (2001). (SCI) 2001 年 7 月

(B)研討會論文(僅列出最近 5 年的資料)

- [1] 江禎立、吳明立、陳志彥*、張詠承，"含 2-(2-胺基乙氧基)乙醇之螯合樹脂吸附水中 Ni^{2+} 之研究"，2018 年功能性材料研討會暨科技部專題研究計畫成果發表會，page 219，台南市。 2018 年 6 月
- [2] 吳明立、江禎立、陳志彥*、鄭詠心，"側鏈具雙羧酸基之 pH-敏感型水膠的製備與吸水特性分析"，2018 年功能性材料研討會暨科技部專題研究計畫成果發表會，page 218，台南市。 2018 年 6 月
- [3] 陳志彥、江禎立*、陳豐祥、王聖瑋、林冠宇、陳仕鑫，"MnFe₂O₄/SiO₂/Ag 磁性奈米複合材料製備及其在殺菌之應用"，2018 年功能性材料研討會暨科技部專題研究計畫成果發表會，page 56，台南市。 2018 年 6 月
- [4] Long-Biao Lai, Chen-Li Chiang, Ming-Li Wu, Chuh-Yean Chen*, and Yong-Cheng Chang, "Removal of Copper Ions from Aqueous Solution by a Novel Chelating Resin Containing Imidazole as Chelating Groups", 2017 International Symposium

- on Novel and Sustainable Technology, page D-30, Tainan, Taiwan. October, 2017.
- [5] Chen-Li Chiang, Ming-Li Wu, Long-Biao Lai, Chuh-Yean Chen*, and Wei-Ru Chu, "Triethylenetetramine-modified Cross-linked Poly(glycidyl methacrylate) Chelating Resin for the Adsorption of Dichromate Ions from Aqueous Solution", 2017 International Symposium on Novel and Sustainable Technology, page D-31, Tainan, Taiwan. October, 2017.
- [6] Ming-Li Wu, Long-Biao Lai, Chen-Li Chiang, Chuh-Yean Chen*, and Yong-Sin Cheng, "Synthesis of Silver Sulfide Nanoparticles for Photocatalytic Application", 2017 International Symposium on Novel and Sustainable Technology, page D-32, Tainan, Taiwan. October, 2017.
- [7] Long-Biao Lai, Chen-Li Chiang, Ming-Li Wu, Chuh-Yean Chen* and Tzu-Yao Shih, "Adsorption of Copper Ion from Aqueous Solution by A Novel Chelating Resin Carrying 3,3'-Diamino-N-Methyldipropylamine", 2016 International Symposium on Novel and Sustainable Technology, page D-75, Tainan, Taiwan. October, 2016.
- [8] Ming-Li Wu, Long-Biao Lai, Chen-Li Chiang, Chuh-Yean Chen* and Ting-Ling Yao, "Application of 3-Amino-1-Propanol Functionalized Chelating Resin for Removing Heavy Metal Ions from Aqueous Solution", 2016 International Symposium on Novel and Sustainable Technology, page D-7, Tainan, Taiwan. October, 2016.
- [9] Ming-Li Wu, Chen-Li Chiang, Long-Biao Lai, Chuh-Yean Chen*, Ting-Ling Yao and Tzu-Yao Shih, "Preparation of A Silver Nanoparticles/Polymer Composite for Improving The Rate of Dye Decomposition", 2016 International Symposium on Novel and Sustainable Technology, page D-77, Tainan, Taiwan. October, 2016.
- [10] Chen-Li Chiang、An Lin、Chuh-Yean Chen*，"Adsorption of Cu^{2+} from aqueous solution by a chelating resin carrying 1,2-diaminopropane groups"，台灣化學工程學會 62 週年年會暨科技部化工學門成果發表會-2015 台韓日三國化工會議，PD-018，高雄市。 2015 年 11 月。
- [11] Chen-Li Chiang、Pei-Chen Chou、Chuh-Yean Chen*，"Application of 1,3-diaminopropane functionalized chelating resin for removing Cu^{2+} from aqueous solution"，台灣化學工程學會 62 週年年會暨科技部化工學門成果發表會-2015 台韓日三國化工會議，PD-019，高雄市。 2015 年 11 月。
- [12] Chen-Li Chiang, Ming-Li Wu, Chuh-Yean Chen*, and Chuan-Chun Chang,

- "SYNTHESIS OF SILVER NANOPARTICLES ON POLYMER SURFACE FOR DYE DECOMPOSITION", 2015 International Symposium on Novel and Sustainable Technology, PC-016 (page 117), Tainan, Taiwan. October, 2015.
- [13] Chen-Li Chiang, Ming-Li Wu, Chuh-Yean Chen*, and Tzu-Yao Shih, "PREPARATION OF SILVER SULFIDE NANOPARTICLES ON A CHELATING POLYMER FILM", 2015 International Symposium on Novel and Sustainable Technology, PC-017 (page 118), Tainan, Taiwan. October, 2015.
- [14] Chen-Li Chiang, Ming-Li Wu, Chuh-Yean Chen*, and Ting-Ling Yao, "PREPARATION OF COTTON FIBERS CONTAINING SILVER NANOPARTICLES WITH ANTIBACTERIAL ACTIVITY", 2015 International Symposium on Novel and Sustainable Technology, PC-018 (page 119), Tainan, Taiwan. October, 2015.
- [15] Chen-Li Chiang, Chuh-Yean Chen*, and Cheng-Liang Zheng, "PREPARATION OF SILVER NANOPARTICLES ON THE SURFACE OF A POLYMER FILM", 2014 International Symposium on Novel and Sustainable Technology, PA-030, Tainan, Taiwan. October, 2014.
- [16] Chen-Li Chiang, Chuh-Yean Chen*, An Lin, and Pei-Chen Chou, "SILVER NANOPARTICLES SYNTHESIZED FROM CHELATING POLYMER", 2014 International Symposium on Novel and Sustainable Technology, PA-029, Tainan, Taiwan. October, 2014.
- [17] Chen-Li Chiang, Chuh-Yean Chen*, and Tzu-Han Liu, "PREPARATION OF SILVER SULFIDE NANOPARTICLES ON A POLYMER FILM CONTAINING IMINODIACETATE GROUPS", 2014 International Symposium on Novel and Sustainable Technology, PA-031, Tainan, Taiwan. October, 2014.
- [18] 江禎立、陳志彥*、吳皇慶, "側鏈含三乙基四胺之螯合樹脂吸附 Cd(II)之研究", 2014 年 中華民國高分子學會年會、2014 Annual Meeting of the Polymer Society、第 37 屆高分子學術研討會, PE-072 (page 352)。 2014 年 1 月
- [19] 江禎立、陳志彥*、陳睿麒, "側鏈具 2-(2-胺基乙氧基)乙醇之螯合樹脂回收銀離子之研究", 2014 年 中華民國高分子學會年會、2014 Annual Meeting of the Polymer Society、第 37 屆高分子學術研討會, PE-073 (page 353)。 2014 年 1 月
- [20] Chuh-Yean Chen*, Chen-Li Chiang. Jia-Hong Sun, "Preparation Of Silver Nanoparticles On A Copolymer Film Containing Chelating Groups", 2013 International Symposium on Nano Science and Technology, , PA-014, Tainan, Taiwan. Novenber, 2013.

- [21] 陳志彥*、江禎立、劉姿韓、王曉彬，"含羥乙基乙二胺之螯合樹脂吸附 Ni²⁺ 之研究"，中國化學會高雄分會 2013 年會暨十大基礎工業技術研討會，D-03 (page D3)，台南市。 2013 年 5 月
- [22] 陳志彥、江禎立、孫嘉宏、鄭丞良、楊文廷，"側鏈具丙胺酸之螯合樹脂吸附 Ni²⁺ 之研究"，中國化學會高雄分會 2013 年會暨十大基礎工業技術研討會，D-04 (page D4)，台南市。 2013 年 5 月
- [23] 陳志彥、江禎立、陳致元、郭恬綺、孫嘉宏，"以側鏈具甘胺酸之新穎單體製備奈米銀/高分子複合材料"，2013 中華民國高分子學會年會, 2013 Annual Meeting of the Polymer Society, 第三十六屆高分子學術研討會，PF1-036 (page 410)，嘉義縣民雄鄉。 2013 年 1 月