

研究成果目錄：

期刊論文	
1	江禎立、吳明立、陳志彥*, 2017 含丙胺酸之 pH-敏感型水膠的吸水特性研究 南臺學報, 2, 51-60
2	陳志彥、吳明立、江禎立*、林宗興, 2016 利用濕式研磨法製備水相氧化鐵奈米磁流體 南臺學報, 1, 57-69
3	江禎立、陳志彥*, 2015 側鏈含羥基與雙胺基之螯合樹脂吸附水中 $\text{Cu}^{2+}$ 的研究 南臺學報, 40, 51-60
4	陳志彥、賴婉如、江禎立*, 2014 $\text{MnFe}_2\text{O}_4/\text{SiO}_2/\text{Ag}$ 磁性奈米複合粒子之製備及其在拉曼光譜分析之應用 南臺學報, 39, 81-94
5	Jr-Jie Lai , Wan-Ru Lai , Chuh-Yean Chen , Shih-Wei Chen, Chen-Li Chiang*, 2013 Multifunctional magnetic plasmonic nanoparticles for applications of magnetic/photo-thermal hyperthermia and surface enhanced Raman spectroscopy Journal of Magnetism and Magnetic Materials, 331, 204-207 (SCI)
6	Shih-Wei Chen, Jr-Jie Lai, Chen-Li Chiang*, and Cheng-Lung Chen*, 2012 Construction of orthogonal synchronized bi-directional field to enhance heating efficiency of magnetic nanoparticles REVIEW OF SCIENTIFIC INSTRUMENTS, 83, 064707-1~064701-7 (SCI)
7	S-W Chen, C-L Chiang*, C-L Chen*, 2012 The influence of nanoparticle size and external AC magnetic field on heating ability Materials Letters, <b>67</b> , 349-351 (SCI) (IF=2.120, RANK=51/225)
8	C-Y Chen*, C-L Chiang, L-B Lia, 2010 Adsorption of Cu(II) by a chelating resin containing 2-Acrylamidoglycolic acid Journal of Southern Taiwan University, <b>35</b> , 51-60
9	S-W Chen, C-L Chiang, S-C Hsieh*, 2010 Simulating Physiological Conditions to Evaluate Nanoparticles for Magnetic Fluid Hyperthermia (MFH) Therapy Applications J. Magn. Magn. Mater., <b>322</b> , 247-252 (SCI) (IF=1.690, RANK=77/225, Times Cited: 7)
10	C-L Chiang*, C-Y Chen, L-W Chang, 2008 Purification of Recombinant Enhanced Green Fluorescent Protein Expressed in Escherichia coli with New Immobilized Metal Ion Affinity Magnetic Absorbents Journal of Chromatography B, <b>864</b> , 116-122 (SCI) NSC 96-2214-E218-028 (IF=2.971, RANK=17/73, Times Cited: 15)
11	C-Y Chen*, C-L Chiang, 2008 Preparation of Cotton Fibers with Antibacterial Silver Nanoparticles Materials Letters, <b>62</b> , 3607-3609 (SCI) (IF=2.120, RANK=51/225, Times Cited: 36)
12	C-Y Chen*, C-L Chiang, C-R Chen, 2007 Removal of Heavy Metal Ions by a Chelating Resin Containing Glycine as Chelating Groups Sep. Purif. Techn, <b>54</b> , 396-403 (SCI) (IF=2.775, RANK=14/135, Times Cited: 19)

13	<u>C-L Chiang*</u> , C-S Sung, C-Y Chen, 2006 Application of Silica-Magnetite Nanocomposites to the Isolation of Ultrapure Plasmid DNA from Bacterial Cells J. Magn. Magn. Mater., <b>305</b> , 483-490 (SCI) NSC-92-2214-E218-001 (IF= <b>1.690</b> , RANK= <b>77/225</b> , Times Cited: <b>20</b> )
14	<u>C-L Chiang*</u> , C-S Sung, 2006 Purification of Transfection-grade Plasmid DNA from Bacterial Cells with Superparamagnetic Nanoparticles J. Magn. Magn. Mater., <b>302</b> , 7-13 (SCI) NSC-92-2214-E218-001 (IF= <b>1.690</b> , RANK= <b>77/225</b> , Times Cited: <b>25</b> )
15	C-Y Chen*, <u>C-L Chiang</u> , P-C Huang, 2006 Adsorptions of Heavy Metal Ions by a Magnetic Chelating Resin Containing Hydroxy and Iminodiacetate Groups Sep. Purif. Techn., <b>50</b> , 15-21 (SCI) (IF= <b>2.775</b> , RANK= <b>14/135</b> , Times Cited: <b>17</b> )
16	<u>C-L Chiang*</u> , C-S Sung, T-F Wu, C-Y Chen, C-Y Hsu, 2005 Application of Superparamagnetic Nanoparticles in Purification of Plasmid DNA from Bacterial Cells Journal of Chromatography B, <b>822</b> , 54-60 (SCI) NSC-91-2214-E218-005 (IF= <b>2.971</b> , RANK= <b>17/73</b> , Times Cited: <b>42</b> )
17	<u>C-L Chiang*</u> , M-B Hsu, L-B Lai, 2004, Controlled of Nucleation and Growth of Gold Nanoparticles in AOT/ Span80/Isooctane Mixed Reverse Micelles J. Solid State Chemistry, <b>177</b> , 3891-3895 (SCI) NSC-90-2214-E218-004 (IF=2.261, RANK= <b>15/43</b> , Times Cited: <b>17</b> )
18	<u>C-L Chiang*</u> , 2001, Controlled Growth of Gold Nanoparticles in AOT/C <sub>12</sub> E <sub>4</sub> /Isooctane Mixed Reverse Micelles J. Colloid Interface Sci., <b>239</b> ,334-341 (SCI) NSC-88-2214-E218-001 (IF= <b>3.068</b> , RANK= <b>40/127</b> , Times Cited: <b>41</b> )
19	<u>C-L Chiang*</u> , 2000, Controlled Growth of Gold Nanoparticles in Aerosol-OT/Sorbitan Monooleate/Isooctane Mixed Reverse Micelles J. Colloid Interface Sci., <b>230</b> , 60-66 (SCI) NSC-88-2214-E218-001 (IF= <b>3.068</b> , RANK= <b>40/127</b> , Times Cited: <b>20</b> )
20	<u>C-L Chiang*</u> , 1999, Activity and Stability of Lipase in AOT/Isooctane Reversed Micelles Biotechnology Techniques, <b>13</b> , 453-457 (SCI) NSC-86-2214-E218-001
21	<u>C-L Chiang*</u> , 1999, Separation of Cholesterol Esterase in Cloud Point Extraction System J. Chin. Inst. Chem. Engrs., <b>30</b> , 171-176 (SCI) NSC-84-2214-E218-001
22	S.W. Tsai*, K.P. Lee and <u>C-L Chiang</u> , 1995, Surfactant Effect on Lipase-Catalyzed Hydrolysis of Olive Oil in AOT/Isooctane Reverse Micelles Biocatalysis and Biotransformation, <b>13</b> , 89-98 (SCI)
23	S.W. Tsai*, H.J. Wei and <u>C.L. Chiang</u> , 1993, Action of Lipolytic Enzymes in Biphasic Organic-Aqueous Systems. II. Dynamics of the Irreversible Michaelis-Menten Reaction, Biotechnol. Bioeng., <b>41</b> , 603-611 (SCI)
24	S.W. Tsai* and <u>C. L. Chiang</u> , 1993, Strategy for Deciding Whether Biphasic Systems as Media for Biocatalytic Transformation by Use of Chemical Equilibrium Analysis, Chem. Eng. J. & Biochem. Eng.

	J., <b>51</b> , B1-B9 (SCI)
25	C.L. Chiang *and S.W. Tsai, 1992, Mathematical Modeling and Simulation of a Recycle Dialysis Membrane Reactor in a Reversed Micellar System , J. Chem. Tech. Biotechnol., <b>54</b> , 249-255 (SCI)
26	C.L. Chiang *and S.W. Tsai, 1992, Application of a Recycle Dialysis System in a Reversed Micellar Reactor J. Chem. Tech. Biotechnol., <b>54</b> , 27-32 (SCI)
27	S.W. Tsai, G.H. Wu and C.L. Chiang, 1991, Kinetics of Enzymatic Hydrolysis of Olive Oil in Biphasic Organic-Aqueous Systems Biotechnol. Bioeng., <b>38</b> , 761-766 (SCI)
28	S.W. Tsai* and C.L. Chiang, 1991, Kinetics, Mechanism, and Course Analysis of Lipase-Catalyzed Hydrolysis of High Concentration Olive Oil in AOT- Isooctane Reversed Micelles, Biotechnol. Bioeng., <b>38</b> . 206-211 (SCI)
29	S.W. Tsai*, C.L. Chiang and H.M. Yeh, 1988, Asymptotic Nusselt Numbers for Newtonian Flow through a Parallel-Channel with Recycle Warme and Stoffubertrag , <b>23</b> , 179-181 (SCI)
30	H.M. Yeh*, S.W. Tsai and C.L. Chiang, 1988, Effects of Recycle on Heat and Mass Transfer between Parallel-Plate Walls with Equal Fluxes Int. J. Heat Mass Transfer, <b>31</b> , 1853-1860 (SCI)
31	H.M. Yeh*, S.W. Tsai and C.L. Chiang, 1987, Recycle Effects on Heat and Mass Transfer through a Parallel-Plate Channel AIChE J., <b>33</b> , 1743-1746 (SCI)

### 獲頒獎項與榮譽：

2018 年功能性材料研討會	佳作
南臺科技大學第二十屆校慶學生專題製作競賽	【化材生技組】佳作
(2016 ISNST, 創新與永續科技國際研討會)	Excellent Poster Award
(2016 ISNST, 創新與永續科技國際研討會)	Excellent Poster Award
(2016 ISNST, 創新與永續科技國際研討會)	Third Prize of Poster Competition Award
(2015 國際奈米科技研討會)	Excellent Poster Award
(2014 國際奈米科技研討會)	Excellent Award of Poster Competition
中國化學會高雄分會 2013 年會	【壁報論文】佳作
南台科技大學第十五屆校慶專題競賽	【化材生技組】特優
2012 南臺灣傑出博碩士論文校際發表競賽	傑出論文獎
第十四屆校慶學生專題競賽	【化材生技組】第四名
2011 台灣化學工程學會壁報論文競賽	【材料在化工上的應用組】佳作
2011 第十屆全國 Chem-E-Car 創意競賽	【總錦標賽化學動力組】第二名
2011 第十屆全國 Chem-E-Car 創意競賽	【總錦標賽化學動力組】佳作
2008 Taiwan/Korea/Japan Chem-E-Car competition	第三名
第五屆化工 E 車(Chem-E-Car)創意設計暨競賽總決賽	一般競賽總成績第三名
教育部 92 學年度全國大專學生專題製作競賽	卓越獎