

張偉國

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台灣聚合股份有限公司 研究員 1991.8~1993.7

遠東科大 講師 1993.8~2007.7

遠東科大 水質中心主任 1998.8~2005.7

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## 研究計畫

國科會計畫

執行時間：2007/8/1~2008/7/31

擔任工作：主持人

計畫名稱：混成有機-無機羧酸鹽骨架結構之合成與特性(96-2113-M-269-001-)

核定經費：新台幣 521,000

執行時間：2007/11/1~2008/10/31

擔任工作：主持人

計畫名稱：奈米孔洞矽酸鹽纖維之製備(96-2622-M-269-001-CC3)

核定經費：新台幣 362,000

執行時間：2008/8/1~2009/7/3

擔任工作：主持人

計畫名稱：以電紡絲技術製備表面修飾的奈米孔洞矽酸鹽纖維(97-2113-M-269-001-)

核定經費：新台幣 432,000

產學合作計畫

執行時間：101/06/20~102/05/31

擔任工作：主持人

計畫名稱：特殊高分子材料中奈米粒子的組成分析及特性分析

核定經費：新台幣 178,000

研究方向及發表著作

期刊論文

1. 張偉國，蔣瑞光. 化工 第 49 卷第 5 期(2002)89-95 頁 ” 鈷磷酸鹽結晶微孔材料”
2. Yueh-Chun Liao, Fen-Ling Liao, Wei-Kuo Chang, and Sue-Lein Wang, J. Am. Chem. Soc. 2004, 126, 1320-1321. "A Zeolitic Organometallophosphate Hybrid Material with Bimodal Porosity". (SCI)
3. Wei-Kuo Chang, Ray-Kuang Chiang, Yau-Chen Jiang, Sue-Lein Wang, Shang-Fan Lee, and Kwang-Hwa Lii, Inorganic Chemistry. 2004, 43, 2564. "Metamagnetism in Cobalt Phosphates with Pillared Layer Structures: [Co<sub>3</sub>(pyz)(HPO<sub>4</sub>)<sub>2</sub>F<sub>2</sub>] and [Co<sub>3</sub>(4,4'-bpy)(HPO<sub>4</sub>)<sub>2</sub>F<sub>2</sub>].XH<sub>2</sub>O. (SCI)
4. Wei-Kuo Chang, Ching-Shuei Wur, Sue-Lein Wang, Ray-Kuang Chiang, Inorganic Chemistry. 2006, 45, 6622. "Hydrothermal Synthesis and Characterization of Two Cobalt Phosphates Based on Double-Four-Ring Units with Fluorine-Occlusion and Phosphite-Substitution Modifications". (SCI)
5. Wei-Kuo Chang, Ray-Kuang Chiang\*, Sue-Lein Wang\* Journal of solid state chemistry. 2007, 180, 1713. "Building up 3-D Framework Structure from Interlinking Layered Cobalt Phosphates and Organic Pillars". (SCI)

6. Chi-Chang Cheng, Wei-Kuo Chang\*, Ray-Kuang Chiang, Sue-Lein Wang Journal of Solid State Chemistry. 2010, 183, 304. " Synthesis and structural characterization of two cobalt phosphites: 1-D  $(\text{H}_3\text{NC}_6\text{H}_4\text{NH}_3)_3\text{Co}(\text{HPO}_3)_2$  and 2-D  $(\text{NH}_4)_2\text{Co}_2(\text{HPO}_3)_3$  ".(

#### 研討會論文

1. Wei-Kuo Chang<sup>2</sup>, Sue-Lein Wang, 中國化學年會，成功大學，2001, December 28~30. " Hydrothermal Synthesis and Structural Characterization of a New Open-Framework Cobalt Phosphate"
2. Wei-Kuo Chang<sup>3</sup>, Sue-Lein Wang, International chemical conference, Taipei, 2002, February 23-26. " Synthesis and Characterization of a New Open-Framework Cobalt Phosphate"
3. Wei-Kuo Chang<sup>4</sup>, Sue-Lein Wang, International Symposium on Solid State Chemistry in China & Chinese National Conference on Solid State Chemistry and Inorganic Synthesis, Changchun, China. 2002, August 9-12. " Synthesis and Structure of  $(\text{H}_2\text{en})_2[\text{Co}_4\text{F}(\text{HPO}_4)_2(\text{PO}_4)_2]\text{F}$  : a Novel Open-Framework Cobalt Phosphate"
4. Wei-Kuo Chang, Ray-Kuang Chiang, Yau-Chen Jiang, Sue-Lein Wang, Shang-Fan Lee, and Kwang-Hwa Lii, 中國化學會 92 年年會，中原大學，2003, November 28~30. " Metamagnetism in fluorinated cobalt phosphates with pillared layer structures