

## 研究成果目錄\_吳弦聰老師

### (A) 期刊論文

1. Lee\*, M. J., H. T. Wu, C. H. Kang, and H. M. Lin, 1999, "Kinetic Behavior of Amyl Acetate Synthesis Catalyzed by Acidic Cation Exchange Resin," *J. Chin. Inst. Chem. Eng.*, 30, 117-122. (SCI)
2. Lee\*, M. J., H. T. Wu, and H. M. Lin, 2000, "Kinetics of Catalytic Esterification of Acetic Acid and Amyl Alcohol over Dowex," *Ind. Eng. Chem. Res.*, 39, 4094-4099. (SCI, IF=1.758, 36/128, 2009, Engineering, Chemical)
3. Lee\*, M. J., H. T. Wu, C. H. Kang, and H. M. Lin, 2001, "Kinetic of Catalytic Esterification of Acetic Acid with Amyl Alcohol over Amberlyst 15," *J. Chem. Eng. Jpn.*, 34, 960-963. (SCI, IF=0.498, 91/128, 2009, Engineering, Chemical)
4. Wu, H. T., M. J. Lee\*, and H. M. Lin, 2005, "Nano-Particles Formation for Pigment Red 177 via a Continuous Supercritical Anti-Solvent Process," *J. Supercrit. Fluids*, 33, 173-182. (SCI, IF=2.639, 15/128, 2009, Engineering, Chemical)
5. Wu, H. T., M. J. Lee\*, and H. M. Lin, 2006, "Precipitation Kinetics of Pigment Blue 15:6 Sub-Micro Particles with a Supercritical Anti-solvent Process," *J. Supercrit. Fluids*, 37, 220-228. (SCI, IF=2.639, 15/128, 2009, Engineering, Chemical)
6. Wu, H. T., M. J. Lee\*, and H. M. Lin, 2006, "Supercritical Fluid-Assisted Dispersion of Ultra-Fine Pigment Red 177 Particles with Blended Dispersants," *J. Supercrit. Fluids*, 39, 127-134. (SCI, IF=2.639, 15/128, 2009, Engineering, Chemical)
7. Wu, H. T., H. M. Lin, and M. J. Lee\*, 2007, "Ultra-Fine Particles Formation of Pigment Green 36 in Different Phase Regions via a Supercritical Anti-Solvent Process," *Dyes & Pigments*, 75, 328-334. (SCI, IF=2.855, 12/128, 2009, Engineering, Chemical)
8. Wu\*, H. T., K. Y. Huang, and K. T. Lee, 2011, "Supercritical Fluid-Assisted Dispersion of C.I. Pigment Violet 23 in an Organic Medium," *Powder Tech.*, 206, 322-326. (SCI, IF=1.745, 38/128, 2009, Engineering, Chemical) (NSC97-2221-E-131-013)
9. Wu\*, H. T., and K. Y. Huang, "Dispersion of C.I. Pigment Violet 23 in acetone using supercritical carbon dioxide," *J. Taiwan Inst. Chem. Eng.* doi:10.1016/j.jtice.2010.07.006 (in press) (SCI, IF=1.412, 45/128, 2009, Engineering, Chemical) (NSC97-2221-E-131-013)
10. Wu\*, H. T., and M. W. Yang, "Precipitation Kinetics of Sub-Micrometer-Sized Polymeric Particles with a Supercritical Assisted-Atomization Process," in submitted.

### (B) 研討會論文

1. Lee\*, M. J., H. T. Wu, and H. M. Lin, 1999, "Kinetic Study on Catalytic Esterification of Acetic Acid with Amyl Alcohol over Dowex," 8<sup>th</sup> APCChE Congress, Aug. 16-19, Seoul, Korea.
2. Wu, H. T., H. M. Lin, and M. J. Lee\*, 2004, "Nano-Particles Formation for Pigment Red 177 via a Continuous Supercritical Anti-Solvent Process," CHISA 2004 - 16th International Congress of Chemical and Process Engineering, Aug. 22-26, 8921-8936, Prague, Czech.
3. Wu, H. T., H. M. Lin, and M. J. Lee\*, 2006, "Nanoparticles Formation of Pigment Green 36 in Different Phase Regions via A Supercritical Anti-Solvent Process," 11<sup>th</sup> APCChE Congress,

Kuala Lumpur, Malaysia.

4. Chang, S. C., H. T. Wu, H. M. Lin, and M. J. Lee\*, 2008, "Role of Phase Behavior in Supercritical Micronization Processes," 12<sup>th</sup> APCCChE Congress, Keynote Speech of Vol. 1 Clean Energy Technology, Aug. 4-6, Dalian, China.
5. Wu\*, H. T., C. H. Yeh, C. W. Pai, C. F. Chou, P. H. Chang, W. H. Chen, and T. L. Chiang, 2008, "Stability of Pigment Violet 23 Dispersions in Organic Media," Taiwan/Korea/Japan ChE Conference and 55<sup>th</sup> TwIChE Annual Conference, Dec. 20-22, Taipei, Taiwan.
6. Wu\*, H. T., C. C. Ding, H. Y. Juan, and J. C. Ding, 2010, "The Monodispersed Polymer Particles and Pigment Microcapsules Prepared by Dispersion Polymerization," 13<sup>th</sup> APCCChE Congress, Oct. 6-8, Taipei, Taiwan.
7. Wu\*, H. T., K. Y. Huang, S. H. Huang, and K. T. Lee, 2010, "Supercritical Fluid-Assisted Dispersion of C.I. Pigment Violet 23 in an Organic Medium," 13<sup>th</sup> APCCChE Congress, Oct. 6-8, Taipei, Taiwan.
8. 吳弦聰、李明哲\*、林河木，2002，「超臨界抗溶劑法製備奈米級微粒」，Conference and Exhibition on the Supercritical Fluid Technology, Dec. 4, Taipei, Taiwan.
9. 吳弦聰、李明哲\*、林河木，2003，「超臨界抗溶劑法製備 Red 177 奈米級顏料微粒」，International Conference and Exhibition on the Supercritical Fluid Technology, Oct. 13, Taipei, Taiwan.
10. 吳弦聰、李明哲\*、林河木，2004，「超臨界抗溶劑法製備次微米級 blue15:6 顏料微粒」，International Conference on the Supercritical Fluid Technology, Nov. 3-5, Taipei, Taiwan.
11. 吳弦聰\*、李明哲、林河木，2006，「於不同相區下以超臨界抗溶劑法製備 Green 36 顏料微粒」，第五屆台塑工程技術研討會，台北。
12. 吳弦聰\*、吳紹榮、李國通，2007，「Red 177 顏料分散液之製備」，第六屆台塑工程技術研討會，台北。
13. 吳弦聰\*、邱淑哲、李國通、吳喬松、葉照賢，2007，「Violet 23 顏料分散液之製備」，第 54 屆化工年會，桃園。
14. 吳弦聰、李明哲\*、林河木，2007，"Dispersion of ultra-fine particles of pigment red 177 with the aid of supercritical carbon dioxide," 第 54 屆化工年會，桃園。
15. 吳弦聰\*、李明哲、林河木，2007，「超臨界流體輔助分散製備 Red 177 顏料分散液」，第六屆超臨界流體技術應用與發展研討會，台中。(優良論文獎)
16. 黃冠燁、吳弦聰\*、蔡榮進、吳喬松，2008，「超臨界流體輔助分散製備 violet 23 顏料分散液之研究」，第七屆超臨界流體技術應用與發展研討會，台北。
17. 吳弦聰\*、李國通、蔡榮進、吳喬松、黃柏智，2008，「分散聚合法製備 PMMA 高分子微粒」，第七屆台塑工程技術研討會，桃園。
18. 楊明偉、吳弦聰\*、吳喬松，2009，「超臨界輔助霧化法製備高分子微粒之研究」，第 56 屆化工年會，超臨界流體技術與熱力方法議程分組報告，台中。
19. 朱鳳源、李恩宇、陳冠儒、傅俊傑、丁俊誠、吳弦聰\*、李國通，2009，「分散聚合法製備單佈形高分子微粒之研究」，第 56 屆化工年會，台中。
20. 黃冠燁、吳弦聰\*、蔡榮進，2009，「超臨界流體輔助分散法分散 C.I. Pigment Violet 23 微粒之研究」，第 56 屆化工年會，台中。(壁報論文專題競賽優等獎)

21. 丁俊誠、江駿榮、李彥熏、林家緯、賴韋誌、吳弦聰\*、吳喬松，2010，「分散聚合法製備 PMMA 高分子微粒」，第八屆台塑工程技術研討會，台北縣。
22. 黃冠燁、黃嗣豪、吳弦聰\*，2010，「超臨界流體輔助分散顏料於有機溶劑之研究」，第九屆超臨界流體技術應用與發展研討會，彰化。(優良論文獎)

(C) 技術報告及專利

1. 吳弦聰、李明哲\*、林河木，2003，「超臨界抗溶濟法製備奈米級晶體微粒」，化工技術，第 11 卷，第 9 期，第 122-133 頁。
2. 吳弦聰\*、楊明偉，2008，「應用超臨界流體技術製備高分子微粒與顏料微膠囊之研究」，國科會研究報告。(NSC97-2221-E-131-013)
3. 吳弦聰、李明哲、林河木，「一種分散顏料微粒的方法」，中華民國發明專利第 I320051 號。專利期間:2010 年 2 月 1 日至 2026 年 8 月 10 日
4. 吳弦聰\*、楊明偉、李明哲、林河木，2010，「相行為對超臨界微奈米化程序之影響」，化工技術，第 18 卷，第 3 期，第 64-80 頁。