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A. 國際期刊論文 (2011 Journal Citation Reports®, SCI: Impact Factor; Rank Factor)

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1. **Chih-Wei Chiu**; Wen-Tung Cheng; Yih-Pean Wang; Jiang-Jen Lin, **2007**. Fine Dispersion of Hydrophobic Silicate Platelets in Anhydride-Cured Epoxy Nanocomposites, *Industrial & Engineering Chemistry Research*, 46, 7384–7388. (SCI: 2.237; 30/133 in Engineering, Chemical)
2. Sung-Tso Lin; **Chih-Wei Chiu**; Wen-Chang Chen; Jiang-Jen Lin, **2007**. Thermoresponsive Behaviors of Poly(oxypropylene)-Amidoamine Functionalized Carbon Nanotubes, *The Journal of Physical Chemistry C*, 111, 13016–13021. (SCI: 4.805; 23/231 in Materials Science, Multidisciplinary)

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3. **Chih-Wei Chiu**; Chien-Chia Chu; Shenghong A. Dai; Jiang-Jen Lin, **2008**. Self-Piling Silicate Rods and Dendrites from High Aspect-Ratio Clay Platelets, *The Journal of Physical Chemistry C*, 112, 17940–17944. (SCI: 4.805; 23/231 in Materials Science, Multidisciplinary)
4. **Chih-Wei Chiu**; Chien-Chia Chu; Wen-Tung Cheng; Jiang-Jen Lin, **2008**. Exfoliation of Smectite Clays by Branched Polyamines Consisting of Multiple Ionic Sites, *European Polymer Journal*, 44, 628–636. (SCI: 2.739; 17/78 in Polymer Science)
5. Jiang-Jen Lin; Yu-Min Chen; Wei-Cheng Tsai; **Chih-Wei Chiu**, **2008**. Self-Assembly of Lamellar Clays to Hierarchical Microarrays, *The Journal of Physical Chemistry C*, 112, 9637–9643. (SCI: 4.805; 23/231 in Materials Science, Multidisciplinary)

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6. Yi-Hsuan Lai; **Chih-Wei Chiu**; Jian-Ging Chen; Chun-Chieh Wang; Jiang-Jen Lin; King-Fu Lin; Kuo-Chuan Ho, **2009**. Enhancing the Performance of Dye-Sensitized Solar Cells by Incorporating Nanosilicate Platelets in Gel Electrolyte, *Solar Energy Materials and Solar Cells*, 93, 1860–1864. (SCI: 4.542; 11/81 in Energy & Fuels)

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7. Yi-Lin Liao; **Chih-Wei Chiu**; Jiang-Jen Lin, **2010**. General Mechanism for Poly(oxyalkylene)-Amidoacids Incorporation into the Confinement of Anionic and Cationic Layered Clays, *Industrial & Engineering Chemistry Research*, 49, 5001–5005. (SCI: 2.237; 30/133 in Engineering, Chemical)

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8. **Chih-Wei Chiu**; Po-Da Hong; Jiang-Jen Lin, **2011**. Clay-Mediated Synthesis of Silver Nanoparticles Exhibiting Low-Temperature Melting, *Langmuir*, 27, 11690–11696. (SCI: 4.186; 30/231 in Materials Science, Multidisciplinary)
9. **Chih-Wei Chiu**; Chin-An Lin; Po-Da Hong, **2011**. Melt-Spinning and Thermal Stability Behavior of TiO₂ Nanoparticle/Polypropylene Nanocomposite Fibers, *Journal of Polymer Research*, 18, 367–372. (SCI: 1.733; 29/78 in Polymer Science)

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10. **Chih-Wei Chiu**; Jiang-Jen Lin, **2012**. Self-Assembly Behavior of Polymer-Assisted Clays, *Progress in Polymer Science*, 37, 406–444. (SCI: 24.100; 1/78 in Polymer Science) (高分子科學領域之頂尖期刊)
11. **Chih-Wei Chiu**; Tzu-Chien Lee; Po-Da Hong; Jiang-Jen Lin, **2012**. Controlled Self-Assemblies of Clay Silicate Platelets by Organic Salt Modifier. *RSC Advances*, 2, 8410–8415. (Launched 2011)
12. **Chih-Wei Chiu**; Yi-Lin Liao; Jiang-Jen Lin, **2012**. Mg-Al Layered Double Hydroxides Intercalated with Polyetheramidoacids and Exhibiting a pH-Responsive Releasing Property, *Industrial & Engineering Chemistry Research*, 51, 581–586. (SCI: 2.237; 30/133 in Engineering, Chemical)

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13. **Chih-Wei Chiu**; Ting-Kai Huang; Ya-Chi Wang; Bryan G. Almani; Jiang-Jen Lin, **2013**. Intercalation strategies in clay/polymer hybrids. *Progress in Polymer Science*, Revised. (Manuscript ID: 11055-569) (SCI: 24.100; 1/78 in Polymer Science)
14. Chao-Po Hsu; Ling-Yu Chang; **Chih-Wei Chiu**; Patricia T. C. Lee; Jiang-Jen Lin, **2013**. Facile Fabrication of Robust Superhydrophobic Epoxy Film with Polyamine Dispersed Carbon Nanotubes. *ACS Applied Materials & Interfaces*, In Press. (SCI: 4.525; 27/231 in Materials Science, Multidisciplinary)
15. Patricia T. C. Lee; **Chih-Wei Chiu***; Tzong-Ming Lee; Te-Yi Chang; Ming-Tzung Wu; Wei-Yuan Cheng; Shu-Wei Kuo; Jiang-Jen Lin*, **2013**. New Strategy for Fabricating Electrowetting Display by Pigment Colorants. Submitted.
16. Jau-Yu Chiou; Ru-Siou Hsu; **Chih-Wei Chiu**; Jiang-Jen Lin, **2013**. Stepwise Mechanism for Intercalating Hydrophobic Organics into Clay Multilayered Nanostructures. Submitted.

B. 國內期刊論文

1. 林清安、邱垂豪、送金國、**邱智璋**、陳彥孝，**2003.8** “遠紅外線聚乙烯醇纖維” 第六十九期國科會工程處工程科技推展中心，69，p.114–116。

C. 美國專利

1. Jiang-Jen Lin; **Chih-Wei Chiu**; Chien-Chia Chu, US Patent (US-2006-0287413-A1) (August 15, **2006**) "Hyperbranched Polyamine and its use to Exfoliate Inorganic Clay into Random form of NanoSilicate Platelet".
2. Jiang-Jen Lin; **Chih-Wei Chiu**; Chien-Chia Chu, US Patent (US-2010-0081732-A1) (October 22, **2009**) "Hyperbranched Polyamine and its use to Exfoliate Inorganic Clay into Random form of NanoSilicate Platelet".
3. Jiang-Jen Lin; Yen-Chi Hsu; Chien-Chia Chu; **Chih-Wei Chiu**, US Patent (US-2009-0146107-A1) (June 26, **2008**) "Inorganic/Organic Dispersant and Application Thereof Background of the invention".
4. Jiang-Jen Lin; Yi-Lin Liao; Chien-Chia Chu; **Chih-Wei Chiu**, US Patent (US-2009-0149592-A1) (October 25, **2008**) "Method for Reducing Metal ion With Nanosilicate Platelets and Dispersing Metal Nanoparticle and Product Thereof".
5. Jiang-Jen Lin; Wei-Ting Chen; Yen-Chi Hsu; **Chih-Wei Chiu**, US Patent Submitted (12/765,853) (April 22, **2010**) "Organic/Inorganic Compositive Dispersant including Inorganic Clay and Organic Surfactant".
6. Jiang-Jen Lin; **Chih-Wei Chiu**; Rui-Xuan Dong; Yi-Fen Lan, US Patent In Preparation (September 1, **2009**) "Clay-Mediated Synthesis of Silver Nanoparticles to Form Films Exhibiting Low-Temperature Melting".
7. Jiang-Jen Lin; Ya-Chi Wang; Yi-Lien Liao; **Chih-Wei Chiu**, US Patent In Preparation (October 22, **2010**) "A Method of Making Nanosilicate Platelet Thin Film and its Applications on Flame Retardancy and Thermal Insulation".

D. 中華民國專利

1. 林江珍、**邱智瑋**、朱建嘉，中華民國專利 第280261I號 (2007) “多官能且高分支形態聚胺有機脫層劑及其脫層無機黏土製備無序奈米矽片”
2. 林江珍、許彥琦、朱建嘉、**邱智瑋**，中華民國專利 第96146916號 (2007/12/7) “有機/無機複合型分散劑及其應用”
3. 林江珍、廖一驊、朱建嘉、**邱智瑋**，中華民國專利 第096146926號 (2007/12/7) “以奈米矽片還原金屬離子及穩定分散奈米金屬粒子之方法及其產物”
4. 林江珍、陳威廷、許彥琦、**邱智瑋**，中華民國專利 第098113565號 (2009/4/23) “含有機黏土及有機界面活性劑之有機/無機複合型分散劑”
5. 林江珍、**邱智瑋**、董睿軒、藍伊奮，中華民國專利 第99146690號 (2010/12/29) “分散奈米金屬粒子之方法及所製備之黏土及奈米金屬粒子之組成物”
6. 林江珍、王雅琪、廖一驊、**邱智瑋**，中華民國專利 第99147360號 (2010/12/31) “阻焰薄膜及其製備方法”
7. 林江珍、**邱智瑋**、李姿蓓、張玲毓，中華民國專利 (2013/2/1) “奈米顏料粒子油性分散劑之製備及其電濕潤顯示器應用”

E. 國際研討會論文

1. Hsiang-Jung Tseng; Cheng-Ming Tang; **Chih-Wei Chiu**; Shan-hui Hsu; Jiang-Jen Lin, Antibacterial Activity of Novel Nanocomposites from Polyurethane and Nano Silicate Platelets, The Fourth Conference of Aseanian Membrane Society, August 16–18, **2007**, Taipei, Taiwan. (Poster Presentation, Paper ID: ST4-7)
2. **Chih-Wei Chiu**; Jiang-Jen Lin, Hierarchical Self-Assemblies of Random Silicate Clay Platelets via High Aspect-Ratio Piling Mechanism, MACRO 2008 (The 42nd IUPAC World Polymer Congress), June 29–July 4, **2008**, Taipei, Taiwan. (Oral Presentation, Paper ID: 506)
3. **Chih-Wei Chiu**; Jiang-Jen Lin, Silicate Rods and Dendrites from Self-piling of High-Aspect-Ratio Clay Platelets, Hybrid Materials 2009, March 15–19, **2009**, Tours, France. (Poster Presentation, Paper ID: HYMA 319)
4. **Chih-Wei Chiu**; Po-Da Hong; Jiang-Jen Lin, Clay-Mediated Silver Nanoparticles for Low-Temperature Melting and High-Conductive Films, The 1st International Conference on Clean Energy, April 10–13, **2011**, Dalian, China. (Poster Presentation, Paper ID: P17)
5. **Chih-Wei Chiu**; Po-Da Hong; Jiang-Jen Lin, Controlled Self-Assemblies of Silicate Platelet Piling into Fiber- and Cubic-Shaped Arrays by Organic Salts, 2012 MRS Spring Meeting & Exhibit, April 9–13, **2012**, San Francisco, California. (Oral Presentation, Paper ID: 1266295)

F. 國內研討會論文

1. 林清安、邱垂豪、賴亞君、**邱智瑋**、徐春庚 “遠紅外線聚乙烯醇紡絲黏液黏度之分析” 第25屆 高分子研討會 (25th ROC Polymer Symposium 2002), January 18–19, **2002**, Taichung, Taiwan. (Poster Presentation, Paper ID: GP-2-1)
2. 古德興、簡子舜、林亞辰、**邱智瑋**、韓志偉、林清安 “聚丙烯與熱可塑型聚乙烯醇摻合熔體彈性分析之研究” 第25屆 高分子研討會 (25th ROC Polymer Symposium 2002), January 18–19, **2002**, Taichung, Taiwan. (Poster Presentation, Paper ID: GP-1-17)
3. 古德興、蔡筱蕪、**邱智瑋**、韓志偉、林清安 “聚丙烯拉伸黏度的測定” 第18屆 纖維紡織科技研討會 (The 18th Symposium on Fiber and Textile Technology), May 18, **2002**, Chung-Li, Taiwan. (Poster Presentation, Paper ID: CP-011)
4. 陳彥孝、送金國、**邱智瑋**、邱垂豪、林清安 “遠紅線之聚乙烯醇纖維” 第26屆 高分子研討會 (26th ROC Polymer Symposium 2003), January 17–18, **2003**, Tainan, Taiwan. (Poster Presentation, Paper ID: HP-1-23)
5. 林清安、古德興、**邱智瑋**、林詩音、蔡筱蕪 “熱可塑型聚乙烯醇/聚丙烯摻合體入口壓力降之研究” 第27屆 高分子研討會 (27th ROC Polymer Symposium 2004), February 21–22, **2004**, Taipei, Taiwan. (Poster Presentation, Paper ID: F-033)
6. 林清安、陳奕綸、**邱智瑋**、蔡筱蕪、黃暉翔 “添加奈米級TiO₂之聚丙烯熔體拉伸黏度的影響” 第28屆 高分子研討會 (28th ROC Polymer Symposium 2005), January 14–15, **2005**, Hsin-Chu, Taiwan. (Poster

Presentation, p.66)

7. 林清安、許冠傑、邱智瑋、蔡筱蕓、黃曄翔 “添加奈米級TiO₂聚丙烯纖維紡絲條件對拉伸黏度的影響” 第21屆 纖維紡織科技研討會 (The 18th Symposium on Fiber and Textile Technology), May, **2005**, Tainan, Taiwan. (Poster Presentation, pp.382–384)
8. 邱智瑋、朱建嘉、林江珍 “Ionic Exchange Reaction and Exfoliation of Synthetic Mica by Bisphenol-A Derived Polyamines” 第29屆 高分子研討會 (29th ROC Polymer Symposium 2006), January 13–14, **2006**, Kaohsiung, Taiwan. (Poster Presentation, Paper ID: AP-B-07)
9. 曾向榮、湯正明、邱智瑋、徐善慧、林江珍 “聚氨酯矽片奈米複合材料表面抗菌評估” 第十屆 工程科技與中西醫藥應用研討會 (The Tenth Conference of Chinese-Western Medicine And Engineering Technology), May 27, **2007**, Taichung, Taiwan. (Poster Presentation, Paper ID: 232)
10. 林江珍、董睿軒、邱智瑋、王棋禾、李佩如、林惠芬 “新型奈米矽片及高分子複合膜之製備及其抗菌與生醫應用(I)” 第32屆 高分子研討會 (32th ROC Polymer Symposium 2009), January 9–10, **2009**, Taipei, Taiwan. (Oral Presentation, Invited Speaker)。
11. 邱智瑋、林江珍 “天然層狀黏土分散機制與應用之困難度” 奈米複合材料運用的新概念研討會, September 24, **2010**, Taichung, Taiwan. (Oral Presentation, Invited Speaker, 財團法人塑膠工業技術發展中心)。
12. 邱智瑋、洪伯達、林江珍 “Clay-Mediated Silver Nanoparticles for Surface Mobility and Low-Temperature Melting” 第34屆 高分子研討會 (34th ROC Polymer Symposium 2011), January 21–22, **2011**, Taichung, Taiwan. (Poster Presentation, Paper ID: FP-173) (傑出論文優勝獎)。
13. 邱智瑋、洪伯達、林江珍 “Controlled Self-Assemblies of Silicate Platelet Piling into Cubic-Shaped Arrays by Organic Modifiers” 第35屆 高分子研討會 (35th ROC Polymer Symposium 2012), January 16–17, **2012**, Chung-Li, Taiwan. (Poster Presentation, Paper ID: PG2-020) (傑出論文銀質獎)。

G. 專利技術移轉

1. 林江珍、邱智瑋、朱建嘉 “多官能且高分支形態聚胺有機脫層劑及其脫層無機黏土製備; 臺灣專利一件”, **2007**, 國立台灣大學技術移轉, 捷捷奈米科技股份有限公司。
2. 林江珍、廖一麟、朱建嘉、邱智瑋 “抑菌奈米材料-奈米矽片銀應用於水溶液噴劑”, **2009**, 國立台灣大學技術移轉, 會昌實業股份有限公司。

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