

# 學術期刊論文著作一覽

## 期刊論文

1. Wen-Chuan Hsieh\*, Yuki Wada, Chih-Pong Chang, "Fermentation, biodegradation and tensile strength of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) synthesized by *Delftia acidovorans*," *Journal of the Taiwan Institute of Chemical Engineers*; (accepted), 2008.11 國際期刊 **SCI**, Impact Factor: 0.431, Rank Factor: 84/114 Subject Categories: Engineering, Chemical (ISSN 1870-1070) NSC 95-2221-E-214-072 & ISU 95-04-06
2. Wen-Chuan Hsieh\*, Yuki Wada, Tsutomu Mitobe, Hiroshi Mitomo, Noriaki Seko, Masao Tamada, "Effect of hydrophilic and hydrophobic monomers grafting on microbial poly(3-hydroxybutyrate)," *Journal of the Taiwan Institute of Chemical Engineers*; (accepted), 2008.10 國際期刊 **SCI**, Impact Factor: 0.431, Rank Factor: 84/114 Subject Categories: Engineering, Chemical (ISSN 1870-1070) NSC 97-2221-E-214-014 & ISU 97-04-03
3. 謝文權, 張任傑, 林育彥, 林尙明, 張志鵬, "利用幾丁聚醣 3D 多孔支架培養纖維母細胞之研究," *華岡紡織期刊 (ISSN 1025-9678)*, vol. 15, no. 2, pp. 166-170, 2008.03 國內期刊
4. 林鎂含, 林逸瑋, 高韻琴, 謝文權, 張志鵬, "液中硬化法製備海藻酸鈣微膠囊包覆檸檬油及其釋放性之探討," *華岡紡織期刊 (ISSN 1025-9678)*, vol. 14, no. 3, pp. 229-237, 2007.09 國內期刊
5. Wen-Chuan Hsieh\*, Chih-Pong Chang, and Shang-Ming Lin, "Morphology and Characterization of 3D micro-porous structured Chitosan Scaffolds for Tissue Engineering," *Colloids & Surfaces B : Biointerfaces*, vol. 57, no. 2, pp. 250-255, 2007.06 國際期刊 **SCI**, Impact Factor: 1.789, Rank Factor: 53/108 Subject Categories: Chemistry, Physical (ISSN 0927-7765)
6. 謝明孝(M. S. Hsieh), 陳忠益(C. Y. Chen), 謝文權(W. C. Hsieh), 張志鵬(C. P. Chang), "不同去乙酰化度幾丁聚醣包覆精油微膠囊之製備及其緩釋性之探討," *華岡紡織期刊 (ISSN 1025-9678)*, vol. 14, no. 2, pp. 189-193, 2007.06 國內期刊
7. Wen-Chuan Hsieh\* , Chih-Pong Chang, Ying-Lin Gao, "Controlled Release Properties of Chitosan Encapsulated Volatile Citronella Oil Microcapsules by Thermal Treatments," *Colloids & Surfaces B : Biointerfaces*, vol. 53, no. 2, pp. 209-214, 2006.12 國際期刊 **SCI**, Impact Factor: 1.588, Rank Factor: 45/110 Subject Categories: Chemistry, Physical (ISSN 0927-7765)
8. Wen-Chuan Hsieh\*, Hiroshi Mitomo, Ken-ichi Kasuya, Tadashi Komoto, "Enzymatic Degradation Behavior and Aminolysis of Microbial

- Poly(3-hydroxybutyrate-*co*-4-hydroxybutyrate) Single Crystals," *Journal of Polymers and the Environment*, vol. 14, no. 01, pp. 79-87, 2006.01 國際期刊 **SCI**, Impact Factor: 2.591, Rank Factor: 31/75 Subject Categories: Polymer Science (ISSN1566-2543)
9. Wen-Chuan Hsieh\*, Yuki Wada, Hiroshi Mitomo, " Poly(3-hydroxybutyrate-*co*-4-hydroxybutyrate) Produced by *Delftia acidovorans* in Different Cell-Concentration and Fed-Batch Cultures," *SEN-I Gakkaishi(Japan)*, vol. 60, no. 03, pp. 95-98, 2004.03 國際期刊 **SCI**, Impact Factor: 0.189, Rank Factor: 73/75 Subject Categories: Polymer Science(ISSN0037-9875)
  10. Ken-ichi Kasuya, Tsutomu Takano, Yoko Tezuka, Wen-Chuan Hsieh, Hiroshi Mitomo, "Cloning, Expression and Characterization of a Poly(3-hydroxybutyrate) Depolymerase from *Marinobacter* sp. NK-1," *International Journal of Biological Macromolecules*, vol. 33, no. 4-5, pp. 221-226, 2003.12 國際期刊 **SCI**, Impact Factor: 1.328, Rank Factor: 193/261 Subject Categories: Biochemistry and Molecular Biology (ISSN 0141-8130)
  11. Wen-Chuan Hsieh, Ken-ichi Kasuya, Hiroshi Mitomo, "Crystallization and Evaluation of Physical Properties of Microbial Poly(3-hydroxybutyrate-*co*-4-hydroxybutyrate)," *SEN-I Gakkaishi(Japan)*, vol. 58, no. 11, pp. 428-431, 2002.11 國際期刊 **SCI**, Impact Factor: 0.189, Rank Factor: 73/75 Subject Categories: Polymer Science (ISSN0037-9875)
  12. Wen-Chuan Hsieh\*, Kimihiko Nishiwaki, Nobuyuki Tanaka, Hiroshi Mitomo, "Studies on the Sequence Distributions of Microbial Polyester by NMR and Determination of Melting Temperature," *SEN-I Gakkaishi(Japan)*, vol. 58, no. 03, pp. 98-105, 2002.03 國際期刊 **SCI**, Impact Factor: 0.189, Rank Factor: 73/75 Subject Categories: Polymer Science(ISSN0037-9875)
  13. Hiroshi Mitomo, Wen-Chuan Hsieh, Kimihiko Nishiwaki, Ken-ichi Kasuya, Yoshiharu Doi, "Poly(3-hydroxybutyrate-*co*-4-hydroxybutyrate) Produced by *Comamonas acidovorans*," *Polymer*, vol. 42, no. 08, pp. 3455-3461, 2001.04 國際期刊 **SCI**, Impact Factor: 2.433, Rank Factor: 7/75 Subject Categories: Polymer Science (ISSN0032-3861)

## 研討會論文

1. Wen-Chuan Hsieh, Chih-Pong Chang, Yuki Wada, Hiroshi Mitomo, Noriaki Seko, Masao Tamada, "Effect of Hydrophilic and Hydrophobic Monomers Grafting on Biodegradable Poly(3-hydroxybutyrate) using Irradiation," *4th International Symposium on Radiation Education (ISRE08)*, National Tsing-Hua University, 2008.12 國際性研討會, NSC97-2221-E-214-014 & 97-2815-C-214-001-E
2. Wen-Chuan Hsieh, Chih-Pong Chang, Yuki Wada, Hiroshi Mitomo, "Effect of

- Radiation Grafting Hydrophilic and Hydrophobic Monomers onto Biodegradable Poly(3-hydroxybutyrate)," *2008 Joint of Taiwan /Korea /Japan Chemical Engineering Conference and the 55th annual conference of Taiwan Institute for Chemical Engineers*, pp. 137, Taipei, Taiwan, 2008.11 國際性研討會
3. Wen-Chuan Hsieh, Chih-Pong Chang, Yuki Wada, Hiroshi Mitomo, "Fermentation and Mechanical Properties of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) Synthesized by *Delftia acidovorans*," *2008 Joint of Taiwan /Korea /Japan Chemical Engineering Conference and the 55th annual conference of Taiwan Institute for Chemical Engineers*, pp. 137, Taipei, Taiwan, 2008.11 國際性研討會, NSC 95-2221-E-214-072 & ISU95-04-06
  4. 陳忠益, 謝明孝, 謝文權, 張志鵬, "幾丁聚醣包覆檸檬油微膠囊之製備及其緩釋性之探討," *2008 台灣幾丁質幾丁聚醣研討會*, Tainan, Taiwan, 2008.05 全國性研討會
  5. Shih-Siou Wang, Yi-Dao Chen, Wen-Chuan Hsieh, Hao Ku, "Biosynthesis of polyester [P(3HB-co-4HB)] in *Delftia acidovorans* from various carbon sources," *第一屆義守大學醫學院基礎應用之學習競賽*, 高雄, 台灣, 2008.05 全國性研討會
  6. 熊恆輝, 徐宏全, 謝文權, 谷皓, "利用廚餘發酵生產乳酸的最適化條件之探討," *第一屆義守大學醫學院基礎應用之學習競賽*, 高雄, 台灣 (榮獲壁報競賽第三名), 2008.05 全國性研討會, ISU97-07-04-01
  7. 周美吟, 高韻琳, 謝文權, 柯光裕, 張志鵬, "以山梔子為交鏈劑對明膠微膠囊包覆精油之成形性探討," *24屆纖維紡織研討會論文集*, pp. OC-014, 高雄實踐大學, 2008.05 全國性研討會, (本篇獲 24 屆纖維紡織科技研討會論文經典獎)
  8. 謝明孝, 陳忠益, 謝文權, 柯光裕, 張志鵬, "幾丁聚醣包覆揮發性精油微膠囊之成形性及其緩釋性之研究," *24 屆纖維紡織研討會論文集*, pp. OC-019, 高雄實踐大學, 2008.05 全國性研討會, (本篇獲 24 屆纖維紡織科技研討會論文經典獎)
  9. Wen-Chuan Hsieh\*, Shih-Siou Wang, Nan-Ting Lai, Hao Ku, Chih-Pong Chang, "Biosynthesis of Biodegradable Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by *Delftia acidovorans*," *2008 Annual Meeting of the Polymer Society*, pp. 79, Hsinchu, Taiwan, 2008.01 全國性研討會, NSC95-2221-E-214-072 & ISU95-04-06
  10. Wen-Chuan Hsieh\*, Yuan-Chao Yu, Hao Ku, Yuki Wada, Noriaki Seko, Masao Tamada, "Characterization of grafting hydrophilic and hydrophobic monomers onto Microbial Poly(3-hydroxybutyrate) powder by radiation," *2008 Annual Meeting of the Polymer Society*, Hsinchu, Taiwan, 2008.01 全國性研討會
  11. 陳忠益, 謝明孝, 林家駙, 黃國雄, 謝文權, 張志鵬, "不同去乙酰化度幾丁

- 聚醣包覆檸檬精油微膠囊之製備及其緩釋性之探討," *2008 Annual Meeting of the Polymer Society*, Hsinchu, Taiwan, 2008.01 國際性研討會
12. Wen-Chuan Hsieh\*, Chih-Pong Chang, Yuki Wada, Hiroshi Mitomo, Hao Ku, "Optimum fermentation conditions for microbial polyester by *Delftia acidovorans*," *The 18th Symposium of The Materials Research Society of Japan*, pp. 149, Japan, 2007.12 國際性研討會
  13. J. C. Chang, K. W. Yeh, C. C. Hsu, W. C. Hsieh, C. C. Wang, C. P. Chang, "Adsorption of Benzene Compounds and Preparation of Modified DNA Scaffold," *The 18th Symposium of The Materials Research Society of Japan*, Japan, 2007.12 國際性研討會
  14. 謝明孝, 陳忠益, 謝文權, 柯光裕, 張志鵬, "不同去乙醯化度幾丁聚醣包覆檸檬精油微膠囊之製備及其緩釋性之探討," *中華民國紡織工程年會第55屆年會*, 桃園, 台灣, 2007.12 國際性研討會
  15. 謝文權, 吳定倫, 張志鵬, 林尚明, "幾丁聚醣三維多孔支架應用於組織工程之研究," *2007 幾丁質幾丁聚醣年會暨研討會*, pp. 288-291, Taoyuan, Taiwan, 2007.05 全國性研討會
  16. 謝明孝, 陳忠益, 謝文權, 張志鵬, "不同去乙醯化度幾丁聚醣包覆精油微膠囊之製備及其緩釋性之探討," *2007 幾丁質幾丁聚醣年會暨研討會*, pp. 186-189, Taoyuan, Taiwan, 2007.05 全國性研討會
  17. 林鎡含, 林逸瑋, 高韻琳, 謝文權, 張志鵬, "以噴霧液中硬化法製備海藻膠微膠囊包覆檸檬油及其緩釋性之探討," *23 屆纖維紡織研討會*, pp. 59-62, 高雄樹德科技大學, 2007.05 全國性研討會
  18. 謝文權, 孫景宏, 張凱偉, 粕谷健一, "篩選環境中的微生物醱酵合成生物可分解高分子," *2007 高分子學會年會*, pp. 213-216, Taipei, Taiwan, 2007.01 全國性研討會, NSC95-2221-E-214-072-
  19. 孫景宏, 張凱偉, 謝文權, "利用台灣本土微生物生產生物可分解高分子的可行性," *2006 The annual conference of Taiwan institute for chemical engineers*, pp. 12-15, Kaohsiung, Taiwan, 2006.11 全國性研討會, NSC95-2221-E-214-072 (ISU95-04-06)
  20. 黃國榕, 葉瑋豪, 吳依儒, 翁郁婷, 謝文權, 張志鵬, 林尚明, "利用幾丁聚醣 3D 多孔支架培養纖維母細胞之研究," *2006 The annual conference of Taiwan institute for chemical engineers*, pp. 126-129, Kaohsiung, Taiwan, 2006.11 全國性研討會
  21. Wen-Chuan Hsieh , Chih-Pong Chang, Sang-Ming Lin, "Morphology and Characterization of Chitosan Scaffolds by a Novel Liquid Hardening Method," *2006 The annual conference of Taiwan institute for chemical engineers*, pp. 124, Kaohsiung, Taiwan, 2006.11 全國性研討會
  22. Wen-Chuan Hsieh, Chih Pong Chang, Ying Lin Gao, "Controlled Release of

- Chitosan Microsphere with Encapsulated Volatile Citronella Oil," *2006 海峽兩岸幾丁質幾丁聚醣研討會(台灣幾丁質幾丁聚醣學會年會)*, pp. 170-173, Taiwan, 2006.05 國際性研討會
23. 林育彥, 邱培源, 張志鵬, 謝文權, 黃建富, 鄭傑夫, "幾丁聚糖 3D 多孔材之製造與其物性之探討," *2006 海峽兩岸幾丁質幾丁聚醣研討會(台灣幾丁質幾丁聚醣學會年會)*, pp. 149, Taiwan, 2006.05 國際性研討會
  24. 林育彥, 邱培源, 張志鵬, 謝文權, 許哲彰, "改變添加量及處理溫度對幾丁聚醣多孔膜成形之影響," *第 22 屆纖維紡織科技研討會*, Taiwan, 2006.05 全國性研討會
  25. Wen-Chuan Hsieh, Hiroshi Mitomo, Chih Pong Chang, "Enzymatic Degradation of Microbial Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) Single Crystals," *2006 年高分子聯合會議(第 29 屆高分子學會研討會)*, pp. 142, Taiwan, 2006.01 全國性研討會, 榮獲 壁報論文獎 第二名
  26. 林育彥, 邱培源, 張志鵬, 謝文權, 鄭傑夫, 張哲禎, "幾丁聚醣的濃度與均質機轉速的改變對 3D 多孔基材對孔隙大小之影響," *2006 年高分子聯合會議(第 29 屆高分子學會研討會)*, pp. 200, Taiwan, 2006.01 全國性研討會
  27. Wen-Chuan Hsieh , Chih Pong Chang, Ying Lin Gao, "Preparation and Controlloed Release of Chitosan Microcapsules Encapsulated Volatile Citronella Oil," *The 1st Taiwan/Japan International Polymer Processing Conference*, pp. 65, Taiwan, 2005.10 國際性研討會
  28. 高韻琴, 張志鵬, 謝文權, 林育彥, 鄭傑夫, "幾丁聚醣微膠囊包覆揮發性精油之製備及其緩釋性之探討," *Proceedings of the 21st symposium on fiber and textile technology*, pp. 19-23, Taiwan, 2005.05 國際性研討會
  29. 李昱成, 周東鴻, 黃新珍, 葉冠玟, 謝文權, 張志鵬, "幾丁聚醣混合海藻膠包覆揮發性精油微膠囊之製備與其制放性之探討," *Proceedings of the 21st symposium on fiber and textile technology*, pp. 31-33, Taiwan, 2005.05 全國性研討會
  30. 高韻琴, 張志鵬, 謝文權, 林育彥, "幾丁聚醣微膠囊包覆揮發性精油之製備及其緩釋性之探討," *台灣幾丁質幾丁聚醣研討會*, pp. 54, Taiwan, 2005.05 國際性研討會
  31. Wen-Chuan Hsieh , Chih Pong Chang, Ying Lin Gao, "Preparation and Controlled Release of Chitosan Microcapsules Encapsulated Volatile Citronella Oil," *The 1st Taiwan/Japan International Polymer Processing Conference*, pp. 45, Taiwan, 2005.05 國際性研討會
  32. 謝文權, 鳥本善章, 定方正毅, "C12A7 からの O-酸素負イオンによるグラフアイトの酸化," *第 69 屆日本化學工學會年會*, Japan, 2004.03 國際性研討會
  33. Wen-Chuan Hsieh, Hiroshi Mitomo, Ken-ichi Kasuya, "Enzymatic Degradation



- Behavior and Aminolysis of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) Single Crystals," *Polymer Preprints*, pp. 95-98, Japan, 2003.05 國際性研討會
34. Hiroshi Mitomo, Ayako Kaneda, Wen-Chuan Hsieh, Fumio Yoshii, "Radiation-Induced Graft Polymerization and Crosslinking onto Biodegradable Polyesters," 第7回環境低負荷高分子公開シンポジウム, pp. 428, Kyoto, Japan, 2002.07 國際性研討會
35. Wen-Chuan Hsieh, Ken-ichi Kasuya, Hiroshi Mitomo, "Enzymatic Degradation and Morphology of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) Single Crystals," *Fiber Preprints*, pp. 167, Japan, 2002.05 國際性研討會
36. Yuki Wada, Wen-Chuan Hsieh, Ken-ichi Kasuya, Hiroshi Mitomo, "Mechanical Properties and Morphology of Enzymatic Degraded Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) Films," *Fiber Preprints*, pp. 302, Japan, 2002.05 國際性研討會
37. Wen-Chuan Hsieh, Ken-ichi Kasuya, Hiroshi Mitomo, "Lamellar Thickening and Cocrystallization of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) on Annealing Process," *Fiber Preprints*, pp. 138, Japan, 2001.10 國際性研討會
38. Wen-Chuan Hsieh, Ken-ichi Kasuya, Hiroshi Mitomo, "Crystallization and Evaluation of Physical Properties of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate)," *Fiber Preprints*, Japan, 2001.05 國際性研討會
39. Meri Suhartini, Hiroshi Mitomo, Wen-Chuan Hsieh, Fumio Yoshii, "Radiation-induced Degradation of Biodegradable Polyesters," *The Second International Workshop on Green Polymers, Bandung Institute of Technology*, pp. 224-237, Indonesia, 2000.10 國際性研討會
40. Wen-Chuan Hsieh, Ken-ichi Kasuya, Hiroshi Mitomo, "Crystallization and Evaluation of Physical Properties of Polyester from Bacteria," *Fiber Preprints*, pp. 17, Japan, 2000.05 國際性研討會

## 專書

1. 謝文權, "微生物合成生物可分解高分子--環保, 醫療, 製劑的新素材--," *I-Shou University, Taiwan*, 2008/09
2. 立石哲也、田中順三、謝文權, "圖解再生醫療工學(図解再生医療工学)," 全華科技圖書公司, Taiwan, 2008/03
3. 橋本 和仁、藤嶋 昭、謝文權, "圖解光觸媒 (図解光触媒のすべて)," 全華科技圖書公司, Taiwan, 2006/05
4. Wen-Chuan Hsieh, "Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) Biosynthesized by *Delftia acidovorans* and Its Physical Properties," *Gunma University, Japan*, 2003/03

## 博碩士學生論文指導

1. 林育彥, "幾丁聚糖 3D 多孔材之製造與其物化性之探討," *中國文化大學材料科學與奈米科技研究所*, 2006/06

## 展演

1. 王士修、陳以道、賴南廷、高家宏、謝文權, 主題：第一屆義守大學生物科技學系畢業成果展, 主辦單位：義守大學生物科技學系, 地點：高雄 科學工藝博物館, 件數/場次：Biosynthesis of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by *Delftia acidovorans* and application in the tissue engineering, 聯合參展, 全國性, 2008/05
2. 熊恆輝、徐宏全、謝文權, 主題：第一屆義守大學生物科技學系畢業成果展, 主辦單位：義守大學 生物科技學系, 地點：高雄 科學工藝博物館, 件數/場次：利用廚餘轉化乳酸的最佳條件之研究, 聯合參展, 全國性, 2008/05
3. 謝文權, 主題：第一屆義守大學生物科技學系畢業成果展, 主辦單位：義守大學 生物科技學系, 地點：高雄 科學工藝博物館, 件數/場次：解決環境污染的好幫手---生物科技的應用, 聯合參展, 全國性, 2008/05