

Name : LU, Chao-Tsang

Education : Ph.D., Osaka Prefecture University, Japan

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Career Experience :

- 1. Post-Doctoral Fellow, Institute of Plant, Academia Sinica
- 2. Adjunct Assistant Professor, Department of Biotechnology, Asia University
- 3. Adjunct Assistant Professor, Department of Nursing, National Taichung University of Science and Technology
- 4. Assistant Professor, Graduate Institute of Biotechnology and Biomedical Engineering, Central Taiwan University Science and Technology

Courses Taught :

- 1. Immunology
- 2. Chemistry
- 3. Life Science

Professional Fields :

- 1. Structural Biology
- 2. Protein Chemistry
- 3. Biomedical Materials

Research Interests :

- 1. Biomaterial
- 2. Control Strategy for *Forcipomyia taiwana*
- 3. Protein Structure and Function

Representative Publication in 5 Years :

Journal Articles :

1. Jia-Horng Lin, Ming-Chun Hsieh, Chao-Tsang Lu , Mong-Chuan Lee ,Chiung-Yun Chang and Ching-Wen Lou .A Study on the Repellent Efficacy of Essential Oils against *Forcipomyia Taiwana*, Materials Science Forum,2016
2. Lu,Chao-Tsang*, Lin, Jia-Horng. The physical property evaluation of degradation thermoplastic polylactic acid net-reinforced dental filling material. Journal of Thermoplastic Composite Materials. Journal of Thermoplastic Composite Materials, 2015.
3. Lou,Ching-Wen; Tu,Ming-Gene; Lu,Chao-Tsang; Lu, Po-Ching; Lin, Jia-Horng.Manufacturing Technique and Mechanical Properties of Polylactide Acid Net/Chitosan Composite Membrane. FIBERS AND POLYMERS,2014
4. Chao-Tsang Lu, Jia-Horng Lin.Mechanical Property Evaluation of Fiber-Reinforced and Fabric-Reinforced Zinc Oxide-Eugenol Temporary Filling Materials. Journal of Engineered Fibers and Fabrics,2014
5. Ching-Wen Lou, Chao-Tsang Lu, Ming-Chun Sie and Jia-Horng Lin. Study on Efficacy of Various Solvents and Extractions on Repelling *Forcipomyia* Taiwan. Advanced Materials

Research , 2014

6. Jia-Horng Lin, Zong-Han Wu, Chiung-Yun Chang, Chao-Tsang Lu and Ching-Wen Lou*. Functional Polypropylene/High-Absorption Polyacrylate/Bletilla Striata Nonwoven Fabrics: Process and Characteristic Evaluations. Applied Mechanics and Materials, 2014.
7. Ching-Wen Lou*, Meng-Chen Lin, Chao-Tsang Lu, Chien-Lin Huang and Jia-Horng Lin. Manufacturing Technique and Bacteriostatic Property Evaluation of Polyvinyl lcohol/Sodium Alginate/Angelicae Dahuricae Radix Fibrous Membrane. Applied Mechanics and Materials,2013.
8. Ching-Wen Lou, Ming-Chun Sie, Chao-Tsang Lu*, Huey-Liang Kuo, Jia-Horng Lin. A Study of the Effect of Forcipomyia Taiwana Repellents Made of Plant Extracts. Applied Mechanics and Materials, 2013.
9. Ching-Wen Lou, Shih-Peng Wen, Hsiu-Ying Chung, Chao-Tsang Lu and Jia-Horng Lin. Application of Porous Chitosan/Gelatin Bone Scaffolds Used in Bone Tissue Engineering. Applied Mechanics and Materials,2013.
10. Ching-Wen Lou, Tzu-Hsuan Chao, Chao-Tsang Lu*, Po-Ching Lu, Jia-Horng Lin. Effects of Sodium Hydroxide Treatment Duration on the Physical Properties of IRM® /Polylactic Acid Composite Filling Materials. Applied Mechanics and Materials ,2013.
11. Ching-Wen Lou, Wen-Cheng Chen, Chao-Tsang Lu*, Cheng-Chun Huang, Jia-Horng Lin. Compressive Strength of Porous Bone Cement/Polylactic Acid Composite Bone Scaffolds. Applied Mechanics and Materials, 2013.
12. Jia-Horng Lin, Zong-Han Wu, Chao-Tsang Lu*, Ting-Ting Li, Ching-Wen Lou. Processing Technology and Characteristic Evaluation of Absorbent Cotton. Applied Mechanics and Materials,2013.
13. Ching-Wen Lou, Chao-Tsang Lu, Jin-Jia Hu , Wei-Jen Lin, Meng-Chen Lin and Jia-Horng Lin .Property Evaluation of Sodium Alginate/Chitosan Compound Dressings. Advanced Materials Research.2013.,.
14. Ching-Wen Lou, Chao-Tsang Lu*, Ming-Shiuan Tsai, Shih-Peng Wen, Chien-Lin Huang and Jia-Horng Lin Polyester Bone Scaffolds Using Polymer Adhesives. Advanced Materials Research, 2013.
15. Jia-Horng Lin, Hsiu-Ying Chung, Kun-Da Wu , Shih-Peng Wen , Chao-Tsang Lu and Ching-Wen Lou* , Polylactic Acid Bone Scaffolds Made by Heat Treatment. Advanced Materials Research, 2013.
16. Ching-Wen Lou, Chao-Tsang Lu, Yueh-Sheng Chen, Meng-Chen Lin, Ting-Ting Li and Jia-Horng Lin. The Primary Study on PLA/Tencel Nonwoevn Fabric. Applied Mechanics and Materials, 2012.
17. Ching-Wen Lou, Cheng-Chun Huang, Wen-Cheng Chen*, Jin-Jia Hu, Chao-Tsang Lu and Jia-Horng Lin, Preliminary Studies in Composite Scaffolds of Calcium Phosphate Bone Cement with Polylactide. Applied Mechanics and Materials, 2012.
18. Ching-Wen Lou, Chien-Lin Huang, Jin-Jia Hu, Chao-Tsang Lu, Zong-Han Wu and Jia-Horng Lin. Fiber Formation of the Biocompatible Polymer Nanofiber Membrane by Electrospinning.

Advanced Materials Research, 2012.

19. Ching-Wen Lou, Mei-Hui Li, Wen-Cheng Chen, Jin-Jia Hu, Chao-Tsang Lu and Jia-Horng Lin, Preliminary Study of the Application of PET Knitted Fabrics in Artificial Bone Scaffold. Applied Mechanics and Materials, 2012.
20. Ching-Wen Lou, Ming-Sheng Huang, Chiung-Yun Chang, Chao-Tsang Lu*, Wen-Cheng Chen and Jia-Horng Lin. Preliminary Study in Cross-Linked Gelatin/Alginate Sponges. Applied Mechanics and Materials, 2012.
21. Jia-Horng Lin, Jin-Jia Hu, Chao-Tsang Lu*, Wen-Cheng Chen, Chien-Lin Huang and Ching-Wen Lou. Manufacturing Technique of the Biocompatible Polymer Nanofiber Membrane by Electrospinning. Applied Mechanics and Materials, 2012.
22. Ching-Wen Lou, Chao-Tsang Lu, Ching-Wen Lin, An-Pang Chen, Shr-Bin Jang, Jia Horng Lin, Manufacturing Manufacturing Technique and Deodorization Effectiveness against Ammonia Gas of Bamboo Charcoal/Spandex Complex Knitted Fabrics. Journal of Engineered Fibers and Fabrics, MATERIALS SCIENCE, TEXTILES, 2012.
23. Ching-Wen Lou, Chun-Hsu Yao, Yueh-Sheng Chen, Chao-Tsang Lu, Wen-Cheng Chen, Ke-Chung Yen, Jia-Horng Lin, PLA/ β -TCP Complex Tubes: The Mechanical Properties and Applications of Artificial Bone. Journal of Biomaterials Science-Polymer Edition, POLYMER SCIENCE, 2012.
24. Chao-Tsang Lu, Jia-Horng Lin, Ching-wen Lin, Po-Ching Lu, Ching-Wen Lou, Preparation and Applications of Polyamide 6/ IRM® Tooth Root Composite Filling Material. Journal of Composite Materials, MATERIALS SCIENCE, COMPOSITES. 2012.
25. Jia-Horng Lin, Chao-Tsang Lu*, Wen-Cheng Chen, Jin-Jia Hu, and Ching-Wen Lou, Preparation and Properties Evaluation of Tencel/ PET Low Melting Point Fiber Dressing Fabric coated by UV Cross-linked Chitosan. Advanced Materials Research, 2011.
26. Lin, Jia-Horng; Lu, Chao-Tsang; He, Chih-Hung; Huang, Chao Chiung; Lou, Ching Wen. Preparation and Evaluation of Artificial Bone Complex Material: Chitosan/Polylactic Complex Braids. Journal of Composite Materials, MATERIALS SCIENCE, COMPOSITES. 2011
27. Ching-Wen Lou, Chao-Tsang Lu*, Shih-Yu Huang, Po-Ching Lu, Tzu-Hsuan Chao and Jia-Horng Lin. Manufacturing Technique of Temporary Dental Filling Composite. Advanced Materials Research, 2011.
28. Ching-Wen Lou, Jin-Jia Hu, Chao-Chiung Huang, Chao-Tsang Lu, Cheng-Tien Hsieh and Jia-Horng Lin. Preparation and Characterization of Polyester Fibers/Absorbent Cotton Composite Dressing Matrix Fabrics. Advanced Materials Research, 2011.
29. Ching-Wen Lou, Jin-Jia Hu, Chao-Tsang Lu*, Chao-Chiung Huang, Ming-Sheng Huang, Jia-Horng Lin. Manufacturing of Functional Gelatin/Chitosan Composite Membrane. Advanced Materials Research, 2011.
30. Ching-Wen Lou, Jin-Jia Hu, Chao-Tsang Lu*, Chao-Chiung Huang, Ming-Yuan Sie and Jia-Horng Lin. Preparation and Characterization of Low-Methoxyl Pectin/Bletilla Striata Composite Membranes. Advanced Materials Research, 2011.
31. Ching-Wen Lou, Jin-Jia Hu, Yueh-Sheng Chen, Chao-Tsang Lu, Chih- Hung He and Jia-Horng

Lin. Manufacturing Technology and Characteristics of Nerve Conduits Made of Poly(lactic acid) Braids. Advanced Materials Research, 2011.

Conference Papers :

1. Ming-Chun Hsieh, Chao-Tsang Lu, Ching-Wen Lou, Chien-Teng Hsieh and Jia-Horng Lin. Effects of Twisting Coefficients on Properties of Coolplus/Zinc Ion Yarns and Knitted Fabrics. 2015.
2. Ching-Wen Lou, Yung-Yu Chang, Chao-Tsang Lu, Wen-Cheng Chen and Jia-Horng Lin. Effects of Alkali Treatment on Mechanical Properties and Morphology of Fibers, 2014.
3. Ching-Wen Lou, Ming-Gene Tu, Chao-Tsang Lu, Po-Ching Lu and Jia-Horng Lin. Manufacturing Technique and Mechanical Properties of Polylactide Acid Net/Chitosan Composite Membrane. Fibers and Polymers, 2014.
4. Meng-Chen Lin, Ching-Wen Lou, Chao-Tsang Lu, Chien-Lin Huang and Jia-Horng Lin. Manufacturing Technique and Property Evaluation of PVA/SA/AC Complex Membrane. The 12th Asian Textile Conference (ATC-12), Shanghai, China. 2013.
5. Zong-han Wu, Jia-horng Lin, Chiung-yun Chang, Chao-Tsang Lu, Ching-wen Lou. Manufacturing Technique and Property Evaluation of High-Absorption Nonwoven Fabrics. The 12th Asian Textile Conference (ATC-12), Shanghai, China. 2013.
6. Chao-Tsang Lu, Hsien-Ming Lee, Ching-Wen Lou, Jia-Horng Lin, Chin-Mei Lin, Da-Jiun Wei. Using Chemosensory Protein of Forcipomyia Taiwana to Develop Its Repellent. WASET 2013 : World Academy of Science, Engineering and Technology, Tokyo, Japan . 2013.
7. 吳昆達、樓靜文、呂兆倉、溫仕鵬、林佳弘。聚乳酸多孔編織骨支架複合海藻酸鈉微球之製備技術與特性評估。第 29 屆纖維紡織科技研討會。2013。
8. 林威任、呂兆倉、樓靜文、林孟辰、林佳弘。聚乙烯醇/海藻酸鈉複合薄膜之製備技術探討。第 60 屆紡織工程學會年會，2012。
9. 黃思傑、呂兆倉、樓靜文、黃韶勝、林佳弘。Tencel/PP 複合非織物之製程及物理性質評估。第 60 屆紡織工程學會年會。2012。
10. 張安旗、樓靜文、陳文正、呂兆倉、溫仕鵬、林佳弘。不鏽鋼股支架之多層編織製程技術與特性評估。第 28 屆纖維紡織科技研討會。2012。
11. 簡百辰、胡晉嘉、呂兆倉、樓靜文、謝政田、林佳弘。幾丁聚醣微球製備技術及其性質評估。第 28 屆纖維紡織科技研討會。2012。
12. Mei-Hui Li, Ching-Wen Lou, Chao-Tsang Lu, Shih-Peng Wen and Jia-Horng Lin. Manufacturing Technique and Characteristic Evaluation of PET Composite Knitted Fabrics. The 11th Asian Textile Conference(ATC-11), Daegu, Korea. 2011.
13. Po-Ching Lu, Ching-Wen Lou, Chao-Tsang Lu, Shih-Yu Huang and Jia-Horng Lin . Processing Technique and Characteristic Evaluation of the Polylactic Acid Composite Periodontal Membrane. The 11th Asian Textile Conference(ATC-11), Daegu, Korea. 2011.
14. Shih-Yu Huang, Ching-Wen Lou, Chao-Tsang Lu, Po-Ching Lu and Jia-Horng Lin. The Application of Chitosan Particles to Composite Wound Dressings. The 11th Asian Textile Conference(ATC-11), Daegu, Korea. 2011.

15. 簡百辰、胡晉嘉、呂兆倉、樓靜文、謝政田、林佳弘。遠紅外線纖維/脫脂棉複合非織物敷料基布之製備技術及其特性評估。第 59 屆中華民國紡織工程學會年會。2011。
16. 林孟辰、呂兆倉、樓靜文、胡晉嘉、陳文正、林佳弘。低甲氧基果膠/海藻酸鈉敷材之製程技術及其物性評估。第 27 屆纖維紡織科技研討會。2011。
17. 許正宏、溫仕鵬、呂兆倉、樓靜文、陳悅生、林佳弘。以電化學法塗佈磷灰石於 3D 不鏽鋼骨支架之製備技術與物性評估。第 27 屆纖維紡織科技研討會。2011。
18. 林孟辰、吳宗翰、呂兆倉、樓靜文、林佳弘。功能性低甲氧基果膠/海藻酸鈉之薄膜製備技術及其特性探討。2011 年中華民國高分子學會年會。2011

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