

Wei-Hua Yao

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Education

Ph.D., National Taiwan University of Science and Technology (2001/09-2005/01)

Research Interests

- Polymer blends
- Polymer physics
- Biodegradable polymer materials
- Antibacterial polymer materials

Journal International

1. Wei-Hua Yao, Chi Hui Tsou, Jui-Chin Chen, Plasma grafting with methyl di-ally ammonium salt to impart anti-bacterial properties to polypropylene, *Fibres & Textiles in Eastern Europe*,2016,24,3(117):117-123.DOI:10.5604/12303666.1196621. (2016).
2. Chun-Wei Yeh , Chi-Hui Tsou , Hui-An Tsai , Hsun-Tsing Lee , Wei-Hua Yao , Maw-Cherng Suen, Structural diversity in the self-assembly of silver(I) complexes containing 2,6-dimethyl-3,5-dicyano-4-(4-quinoliny)-1,4-dihydropyridine, *Inorganica Chimica Acta*, 427 (2015) 1–12.
3. Chi-Hui Tsou, Bo-Jyue Kao, Ming-Chien Yang, Maw-Cherng Suen, Yi-Hsuan Lee, Jui-Chin Chen, Wei-Hua Yao, Shang-Ming Lin, Chih-Yuan Tsou, Shu-Hsien Huang, Manuel De Guzman and Wei-Song Hung, Biocompatibility and characterization of polylactiacid/styrene-ethylene-butylene styrene, *Bio-Medical Materials and Engineering* 26 (2015) S147-S154.
4. Ming-Chien Yang, Bo-Jyue Kao, Chi-Hui Tsou, Maw-Cherng Suen, Chin-San Wu, Chih-Yuan Tsou, Chih-Kuei Chu, Wei-Hua Yao, Wen-Yan Wu, Wei-Sung Hong and Kueir-Rarn Lee, The Properties and a New Preparation of Ethylene Propylene Diene Monomer/Montmorillonite Nanocomposites, *Polymers & Polymer Composites*, Vol. 23, No. 3, 2015.
5. Chi-Hui Tsou, Wei-Song Hung, Chin-San Wu , Jui-Chin Chen , Chi-Yuan Huang , Shih-Hsuan Chiu , Chih-Yuan Tsou , Wei-Hua Yao, Shang-Ming Lin , Chih-Kuei Chu, Chien-Chieh Hu, Kueir-Rarn Lee , Maw-Cherng Suen, New Composition of Maleic-Anhydride-Grafted Poly(Lactic Acid)/Rice Husk with Methylenediphenyl Diisocyanate, ISSN 1392–1320 *MATERIALS SCIENCE (MEDŽIAGOTYRA)*. Vol. 20, No. 4. 2014.
6. Chi-Hui Tsou, Maw-Cherng Suen, Wei-Hua Yao, Jen-Taut Yeh, Chin-San Wu,

Chih-Yuan Tsou, Shih-Hsuan Chiu, Jui-Chin Chen, Ruo Yao Wang, Shang-Ming Lin, Wei-Song Hung, Manuel De Guzman, Chien-Chieh Hu and Kueir-Rarn Lee, Preparation and Characterization of Bioplastic-Based Green Renewable Composites from Tapioca with Acetyl Tributyl Citrate as a Plasticizer, *Materials* 2014, 7, 5617-5632; doi:10.3390/ma7085617 (2014.08).

7. Yuh-Wen Ho and Wei-Hua Yao, Thioxopyrimidine in Heterocyclic Synthesis III: Synthesis and Properties of Some Novel Heterocyclic Chalcone Derivatives Containing a Thieno[2,3-d]pyrimidine-based Chromophore, *Journal of Chemistry*.(2013,1).
8. Jen-taut Yeh, Haw-jer Chang, Li Yang, Chi-hui Tsou and Wei-hua Yao, Preparation and Physicochemical Properties of Digested Collagen Fragments with Varying Molecular Weights, *J. Polym. Research*, DOI 10.1007/s10965-012-0026-z, 19-26(2012). (2012,11,14).
9. Chi-hui Tsou, Ya-Ming Li, Wei-Hua Yao, and Jen-taut Yeh, Preparation and Characterization of Poly(lactic Acid)/ Ethylene Glycidyl Methacrylate Copolymer Blends, *Advanced Materials Research Vols. 150-151*, 139-143(2011).
10. Jen-taut Yeh, Haw-jer Chang, Li-fang Xiao, Li Yang, Ping Zhu, Guo-xian Huang, and Wei-Hua Yao, Physicochemical properties and molecular weight characterisation of porcine dermal collagen digested under varying conditions with clostridium histolytic collagenase, *e-polymer*,vol.110,1-19(2010).
11. Cheng-Chi Chen, Jui-Chin Chen, Wei-Hua Yao, Argon plasma Treatment for Improving the Physical Properties of Crosslinked cotton fabrics with dimethyloldihydroxyethyleneurea-Acrylic Acid, *Textile Res. J.* vol, 80(8), 675-682(2010).

Patent:

1. Wei-Hua Yao, Li-Ching Chang, Chi-Hsiung Jou, Chia-Iou Chang and Hong-Yi Li, Regulation Tongue muscles Trainers, ROC Patent M554791 (2018).
2. Wei-Hua Yao, Li-Ching Chang, Chi-Hsiung Jou, Fu-Lin Wang and Zhe-Fu Liu, Oral training device, ROC Patent M556596 (2018).

Honors/Awards

1. The Gold Medal Award, Wei-Hua Yao, Li-Ching Chang, Chi-Hsiung Jou, Fu-Lin Wang and Zhe-Fu Liu, Oral training device, on the occasion of 2017 Kaohsiung International and Design EXPO 8-10 December, 2017 Kaohsiung, Taiwan.
2. The Silver Medal Award, Wei-Hua Yao, Li-Ching Chang, Chi-Hsiung Jou, Chia-Iou Chang and Hong-Yi Li, Regulation Tongue muscles Trainers, on the occasion of 2017 Kaohsiung International and Design EXPO 8-10 December, 2017 Kaohsiung, Taiwan.