Ping Tzeng

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EDUCATION

National Taiwan University (NTU) Taipei, Taiwan
Master of Science, Majored in Chemical Engineering 2007-2009
- Overall GPA: 4.00/4.00

National Taiwan University (NTU) Taipei, Taiwan
Bachelor of Science, Majored in Chemical Engineering 2003-2007
- Overall GPA: 3.83/4.00

TEST REPORT

GRE General: Verbal 630 (91%), Quantitative 800 (94%), Analytical Writing 3.0 (10%)
TOEFL (Internet – based test): 108 (Reading 30 / Listening 25 / Speaking 24 / Writing 29)

RESEARCH EXPERIENCE

Institute of Polymer Science and Engineering, National Taiwan University Taipei, Taiwan
Optoelectronic Polymer lab 2010-2011
(Advisor: *Prof. Wen-Chang Chen*)
- Ion Exchange Membrane based on Electrospun Nanofibers
- Electrospun Nanofiber-based Field Effect Transistor: Fabrication Process and Performance Study

Department of Chemical Engineering, National Taiwan University Taipei, Taiwan
Optoelectronic Polymer lab 2007-2009
(Advisor: *Prof. Wen-Chang Chen*)
- Morphology and Optoelectronic Properties of Electrospun Nanofibers Prepared from Conjugated Polymer Blends
  1. Conjugated Rod-coil Block Copolymers /PMMA Blends for Sensors
  2. Novel techniques for Manufacturing Field Effect Transistors
     - The research in this part was under the project of National Science Counsel, "Semiconducting Polymer Nanofibers: Fabrication, Morphology and Optoelectronic Applications"
- Fabrication of Conductive Aligned Fibers based on Hydrophilic Conjugated Polymer
  - The research in this part was under the project of Taiwan Textile Research Institute, "Application of Multi-functional Conducting Aligned Fibers in Smart Fabrics"

Department of Chemical Engineering, National Taiwan University Taipei, Taiwan
Membrane Separation lab 2005-2007
(Advisor: *Prof. Da-Ming Wang*)
- Preparation of Super-Hydrophobic Membrane by Vapor-Induced Phase Separation
- Membrane Morphology Study via Polymer/solvent/nonsolvent System

PUBLICATIONS

Journal Papers: 2 (2 in Progress)

- **Ping Tzeng**, Chi-Ching Kuo, Sung-Tso Lin, and Wen-Chang Chen*, "Novel Luminescent Electrospun Fibers Prepared From Conjugated Rod-Coil Block Copolymer Poly[2,7-(9,9-dihexylfluorene)]-*block*-poly(*N*-isopropylacrylamide) / PMMA Blends: Morphology, Thermoresponsive and Photophysical Properties". *Macromolecular Chemistry and Physics*, 211, 1408–1416 (**2010**). (SCI) (IF = 2.570)
- Chi-Ching Kuo, Chia-Hung Lin, **Ping Tzeng** and Wen-Chang Chen*, "Morphology and Photophysical Properties of Luminescent Electrospun Nanofibers from Conjugated Rod-Coil Polyfluorene-block-Poly(2-vinylpyridine) (PF-b-P2VP)/PEO Blends". *Journal of Polymer Research*, (**2010**). (SCI) (IF = 1.364)
- **Ping Tzeng**, Chi-Ching Kuo and Wen-Chang Chen*, "Fabrication and Characterization of Aligned and Nonwoven Electrospun Fibers Composite Membrane as Ion Exchange Membranes". *In Progress.*
- **Ping Tzeng**, Jung-Yao Chen, Jennifer Lu and Wen-Chang Chen*, "Morphology, Electrical Properties of Electrospun Nanofibers of Poly(3-alkylthiophene) for Field-Effect Transistors". *In Progress.*

AWARDS

- **Honorable Commendation of the Army, *National Defense Ministry of R. O. C*** 2010
- **Superior Group Leaders, *DuPont*** 2009
  The award has been established for outstanding group leaders organizing projects during the DuPant Career Discovery Camp in Taiwan
- **2nd Place, The Principal Cup Volleyball Competition, *National Taiwan University*** 2004

EMPLOYMENT AND AFFILIATION

- **Institute of Polymer Science and Engineering, National Taiwan University** 2010-present
  Research Assistant
- **601st Brigade, Republic of China Land Force** 2009-2010
  Second Lieutenant, Operate Equipment under Military Exercise Conditions.
- **The Affiliated High School of National Chengchi University** 2007
  Lecturer in Chemistry Camp

SKILLS (CHARACTERIZATION AND ANALYSIS)

Optical, Physical and Chemical Characterization: FTIR, Gel permeation chromatographer (GPC), Photoluminescence spectrometer, UV-Vis-NIR spectrometer, Thermogravimetric analyzer (TGA), Differential scanning calorimeter (DSC), Spin-Coater, Surface Profiler, Two Photon Laser Confocal Microscope, Atomic force microscopy (AFM), Contact Angle analyzer, Field-emission scanning electron microscope (FE-SEM), Transmission Electron Microscope (TEM). Glove Box, Thermal Evaporator, I-V semiconductor analyzer.

Computation

- Computer Programming in Mathematica, Fortran and Matlab.
- Data Analysis in Origin.

EXTRACURRICULAR ACTIVITY

- Captain, Volleyball Team, Department of Chemical Engineering, National Taiwan University, Taipei, Taiwan, 2004.
- Participant, Summer Camp of Chemical Engineering, National Taiwan University, Taipei, Taiwan, 2007.