

## Hongting Pu

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### PERSONAL DETAILS:

Gender: Male

Date of birth: September 4, 1966

Home address: Liangcheng Road 139/21/101, Shanghai, 200434, China

Marital status: Married (One son)

### EDUCATION

2000	Post-doctoral	Polymer Science	Max Planck Institute for Polymer Research, Germany
1996	Ph. D.	Polymer Materials	Shanghai Jiaotong University
1993	M.S.	Polymer Chemistry	Shanghai University
1988	B.E.	Polymer Materials	Changzhou University

### POSITIONS HELD

6/03 - present	<i>Professor, director</i> , Institute of Functional Polymers, School of Mater. Sci. & Eng., Tongji University, Shanghai, China
7/08 - 1/09	<i>Visiting Faculty</i> , University of California, Santa Barbara, USA
1/06 - 2/06	<i>Visiting Faculty</i> , Max Planck Institute for Polymer Research, Mainz, Germany
	University of Stuttgart, Stuttgart, Germany
1/03 - 4/03	<i>Visiting Faculty</i> , The University of Southern Mississippi, Hattiesburg, USA
6/98 - 6/03	<i>Associate Professor, Chair (10/00 - 9/03)</i> , Dept. of Polym. Mater., School of Mater. Sci. and Eng., Tongji University, Shanghai, China
4/96 - 6/98	<i>Lecturer</i> , School of Mater. Sci. and Eng., Tongji University, Shanghai, China
7/88 - 9/90	<i>Assistant Engineer</i> , Changzhou Tianma Group Co., Changzhou, China

### PROFESSIONAL RECOGNITION

Editorial Board, *Mediterranean Journal of Chemistry*, (2014-)  
Editorial Board, *International Journal of Polymer Science*, (2014-2015)  
Editorial Board, *Researches of Materials Science*, (2013-)  
Editorial Board, *Hans J. Chem. Eng. & Technol.*, (2011-)  
Editorial Board, *Global J. Phys. Chem.*, (2010-)  
Editorial Board, *The Open Electrochem. J.*, (2008-)  
Editorial Board, *Chemical Engineering (Chinese)*, (2007-)  
Scientific Advisory Committee, Sci. & Technol. Foundation for Shanghai Automobile Industry, (2006-)  
Editorial Board, *Macromolecules: An Indian J.*, (2005-)  
Editorial Board, *Chemistry: An Indian J.*, (2005-)  
Editorial Board, *J. Functional Mater. (Chinese)*, (2004-)  
Advisory Committee, Polymer Chemistry Division of Shanghai Chem. & Chem. Eng. Society, (2001-)

Referee for more than 70 international and domestic journals, like *Science*, *J. Am. Chem. Soc.*, *Prog. Polym. Sci.*, *Macromolecules*, *Adv. Funct. Mater.*, *Adv. Energy Mater.*, *Polym. Chem.*, *Macromol. Rapid Commun.*, *Chem. Mater.*, *J. Power Sources*, *Int. J. Hydrogen Energy*, *J. Polym. Sci., Part A Polym. Chem.*, *Langmuir*, *Polymer*, *J. Membrane Sci.*, *Electrochim. Acta*, *Fuel Cells*, *Carbon*, *Science China*, etc..

## AWARDS

New Century Excellent Talents in Chinese Universities, 2006  
Liguohao Prize, 2006  
Shanghai Auroral Scholar, 2005  
Excellent Young Teachers in Shanghai, 1999  
Excellent Young Teachers in Tongji University, 1998  
Yaohua Prize, 1997

## RECENT INVITED TALKS

- (1) Prospect of Application of Polymer Nanofibers for Electrolyte Membranes of Batteries and Fuel Cells (invited talk), 2014 Shanghai Nanoscience & Nanotechnology Symposium, Oct. 23, 2014, Shanghai
- (2) Preparation and Functionalization of Polymer Nanoparticles via Single-Chain Folding (invited talk), 2014 International Conference on Functional Materials Shanghai, China, Sept. 24-27, 2014
- (3) Proton Conducting Membranes with Hollow Spheres as Micro-Reservoir for PEM Fuel Cells, 2012 International Conference on Advanced Engineering Materials and Technology, Zhuhai, China, July 7, 2012 (Keynote)
- (4) Organic-Inorganic Hybrid Membranes for PEM Fuel Cells, Sino-German Symposium on Functional Organic/Inorganic Hybrid Materials, Shanghai, China, May 30, 2012 (Keynote)
- (5) Polymer Nanoparticles via Intramolecular Crosslinking, 2011 Shanghai International Nanotechnology Cooperation Symposium, , Shanghai, China, Oct. 30, 2011 (Keynote)

## CURRENT RESEARCH AREAS

Polymeric Nanostructure and Nanocomposite  
Energy Materials  
Functional Polymeric Membranes  
Polymer Synthesis and Modification

## PUBLICATIONS

**229 refereed journal papers**, 38 conference proceedings, citation > 2000, H-Index 28;  
60 granted patents;  
3 books.

## SELECTED PUBLICATIONS

- (1) F. Wang, **H.T. Pu\***, Voltage-responsive single-chain polymer nanoparticles via host-guest interaction, **Chem. Commun.**, 2016, 52: 3516-3519
- (2) F. Wang, **H.T. Pu\***, M. Jin, D.C. Wan, Supramolecular nanoparticles via single-chain folding driven by ferrous ions, **Macromol. Rapid Commun.**, 2016, 37(4): 330-336
- (3) F. Wang, **H.T. Pu\***, M. Jin, H.Y. Pan, Z.H. Chang, D.C. Wan, J. Du, From Single-Chain Folding to Polymer Nanoparticles via Intramolecular Quadruple Hydrogen-Bonding Interaction, **J. Polym. Sci. Part A: Polym. Chem.**, 2015, 53(15): 1832-1840 (**Cover Paper**)
- (4) H.T. Pu, *Polymers for PEM Fuel Cells*, John Wiley & Sons, Inc., New Jersey, 2014

- (5) H.C. Luo, **H.T. Pu\***, Z.H. Chang, D.C. Wan, H.Y. Pan, Crosslinked Polybenzimidazole via Diels-Alder Reaction for Proton Conducting Membranes, **J. Mater. Chem.**, 2012, 22(38): 20696-20705
- (6) P. Wang, **H.T. Pu\***, M. Jin, Single-chain Nanoparticles with Well-Defined Structure via Intramolecular Crosslinking of Linear Polymers with Pendant Benzoxazine Groups, **J. Polym. Sci. Part A: Polym. Chem.**, 2011, 49(24): 5133-5141 (**Cover Paper**)
- (7) Y.S. Guan, **H.T. Pu\***, D.C. Wan, Synthesis and Properties of Poly[2,2'-(4,4'-(2,6-bis(phenoxy)benzotrile))-5,5'-bibenzimidazole] for Proton Conducting Membranes in Fuel Cells, **Polym. Chem.**, 2011, 2(6): 1287-1292
- (8) **H.T. Pu\***, D. Wang, Z.L. Yang, Towards High Water Retention of Proton Exchange Membranes at Elevated Temperature by Hollow Nanosphere, **J. Membrane Sci.**, 2010, 360: 123-129
- (9) H.Y. Pan, **H.T. Pu\***, D.C. Wan, M. Jin, Z.H. Chang, Proton Exchange Membranes Based on Semi-Interpenetrating Polymer Network of Fluorine-containing Polyimide and Nafion<sup>®</sup>, **J. Power Sources**, 2010, 195(10): 3077-3083
- (10) **H.T. Pu\***, Y.J. Qin, D.C. Wan, Z.L. Yang, Proton-Conducting Polymers via Free Radical Polymerization of Diisopropyl-p-Vinylbenzyl Phosphonate and 1-Vinylimidazole, **Macromolecules**, 2009, 42(8): 3000-3004

#### **CURRENT RESEARCH FUNDING**

(1) Project/Proposal Title: New method to Prepare Polymer Nanofiber Membranes for Batteries and Fuel Cells

Source of Support: Major Program for Fundamental Research of Shanghai Science & Technology Commission

Total Award Amount: 600,000 RMB

(2) Polymer Nanostructures for Electrocatalysts and Related MEA Technique

Source of Support: The Fundamental Research Funds for the Central Universities

Total Award Amount: 800,000 RMB