CURRICULUM VITAE

Personal Information

Name: Zhi Geng	Gender: Male	
Date of Birth: June 5, 1983	Marital Status: Unmarried	
Citizenship: P. R. China	Degree: Doctor's Degree	
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Educational Background and Work Experience

2013.07-Present	School of Environment, Northeast Normal University, China,	
	Lecturer	
2008.09-2013.06	Ph.D. in Polymer Chemistry and Physics; College of Chemistry,	
	Jilin University, China	
2003.09-2007.06	B.S. in Polymer Science and Engineering; College of Chemistry,	
	Jilin University, China	

Scholarships

- 1. Doctoral graduate National Scholarship (2013);
- 2. First-class excellent Ph.D. scholarship of Jilin University (2010, 2011 and 2012);
- 3. Second-class excellent Postgraduate Scholarships of Jilin University (2009);

Research Interests

- 1. High-performance poly(aryl ether sulfone) ultrafiltration membrane for wastewater treatment;
- 2. Self-cleaning anti-fouling hybrid ultrafiltration membrane for wastewater treatment;
- 3. High-performance ultra low dielectric constant materials for electronic packaging field;

Professional Skills

+ Have strong professional background in design and synthesis of high-performance

ultrafiltration membrane materials, especially synthesize functional poly(aryl ether sulfone) ultrafiltration membrane materials.

- Skilled in design and preparation of Self-cleaning anti-fouling hybrid ultrafiltration membranes by surface modification of inorganic nanoparticles or by chemical bonding between inorganic nanoparticles and polymer matrix.
- Skilled in use of UV, FTIR, HPLC, TOC, IC, SEM, EDS, XRD, DSC, TGA, GPC and Universal Tester etc. Have the analysis and handling ability to experiment data.
- Have a good command of Windows, Office, Photoshop, ChemDraw, Origin and a variety of chemical software.

Lead of Research Projects

- National Nature Science Foundation of China (51508078): Preparation and synergistic fouling resistant mechanism study of novel poly(arylene ether sulfone) ultrafiltration membrane (2016.01-2018.12);
- Postdoctoral Science Foundation of China (2014M561274): The research of secondary effluent water advanced treatment process combining antifouling ultrafiltration membrane (2014.07-2015.12);
- Jilin Provincial Department of Education Fund (2014B043): Anti fouling ultrafiltration Separation technology and its control principle for the water quality of reclaimed water (2014.01-2015.12);

Patents

 Guibin Wang*, Zhi Geng, Yaning Lu, Binhong Yu, Shuling Zhang, Xu Jiang, A New Kind of Low Dielectric Constant POSS/Fluorine Containing Poly(aryl ether ketone) material and its preparation method, Chinese National Invention Patent, Patent No.: ZL 2013 1 0115390.2;

Publications

- Ying Lu, Xue Yang, Xia Yang, Suiyi Zhu, Wei Fan, Zhi Geng*, Synthesis and Properties of a Novel Poly(aryl ether ketone)s Containing Halogen Groups, Chemical Journal of Chinese Universities, 2015, 36(9): 1819-1824.
- 2. Zhi Geng, Yu Zhang, Xing Yuan, Mingxin Huo, Yahui Zhao, Ying Lu*, Qiu Yue,

Incorporation of Cu_2O nanocrystals into TiO_2 photonic crystal for enhanced UV-visible light driven photocatalysis, Journal of Alloys and Compounds, 2015, 644: 734-741.

- Zhi Geng, Suiyi Zhu, Yang Yu, Ying Lu, Rao Lin, Shujun Guo, Dejun Bian, Xia Yang, Mingxin Huo and Hongliang Huo*, Novel Porous Polyethersulfone Beads as Matrix to Immobilize *Comamonas testosteroni* sp. bdq06 in Quinoline Biodegradation, Chem. Res. Chin. Univ., 2015, 31(4): 645-650.
- Suiyi Zhu, Dongfang Xu, Shuai Fang, Zhi Geng*, Xia Yang, Sunlight-Responsive Ag₂S/Ag₃PO₄ Composite Preparation and Degradation of Salicylic Acid, Chemical Journal of Chinese Universities, 2014, 35(6): 1286-1292.
- 5. Zhi Geng, Mingxin Huo, Jianxin Mu, Shuling Zhang, Yaning Lu, Jiashuang Luan, Pengfei Huo, Yinlong Du and Guibin Wang*, Ultra low dielectric constant soluble polyhedral oligomeric silsesquioxane (POSS)-poly(aryl ether ketone) nanocomposites with excellent thermal and mechanical properties, Journal of Materials Chemistry C, 2014, 2: 1094-1103.
- Zhi Geng, Yaning Lu, Shuling Zhang, Xu Jiang, Pengfei Huo, Jiashuang Luan, Guibin Wang*, Synthesis and Characterization of Novel Adamantane-based Co-poly(aryl ether ketone)s with Low Dielectric Constant, Polymer International, 2014, 63: 333-337.
- Zhi Geng, Shuling Zhang, Jianxin Mu, Xu Jiang, Pengfei Huo, Yaning Lu, Jiashuang Luan, Guibin Wang*, Design and Preparation of Poly(aryl ether ketone)/Phosphotungstic Acid Composites with Low Dielectric Constant, Journal of Applied Polymer Science, 2013, 129: 3219-3225.
- Zhi Geng, Jinyu Ba, Shuling Zhang, Jiashuang Luan, Xu Jiang, Pengfei Huo, Guibin Wang*, Ultra Low Dielectric Constant Hybrid Films via Side Chain Grafting Reaction of Poly(ether ether ketone) and Phosphotungstic Acid, Journal of Materials Chemistry, 2012, 22: 23534–23540.
- Zhi Geng, Xiaoliang Zhu, Shuling Zhang, Xiao Liu, Guibin Wang*, Synthesis and Characterization of Soluble Low-κ Poly (aryl ether ketone) Copolymers with Pendent Adamantyl Groups, High Performance Polymers, 2010, 22: 779-798.
- 10. Xu Jiang, Yunliang Guo, Zhi Geng, Pengfei Huo, Yinlong Du, Yan Liu, Shuling

Zhang, Guibin Wang*, Transparent CdTe/Py-PAEK Microspheres/SPEEK Nanocomposite Films with UV-Full-Shielding Property, Materials Letters, 2012, 89: 305-308.

- 11. Jinyu Ba, Guibin Wang, Zhi Geng, Jianxin Mu*, Soluble Low-κ Poly (aryl ether ketone) Copolymers Containing Pendant Adamantyl Group and Long Aliphatic Side Chains, Journal of Applied Polymer Science, 2013, 1: 193-200.
- Jiashuang Luan, Shuling Zhang, Zhi Geng, Guibin Wang*, Influence of the Addition of Lubricant on the Properties of Poly(ether ether ketone) Fibers, Polymer Engineering & Science, 2013, 53(10): 2254-2260.
- Jiannan Ren, Shuling Zhang, Qinhong Wang, Zhi Geng, Guibin Wang*, Novel Hybrid Acid-Base Membranes Based on Sulfonated Poly(arylene ether sulfone) Tetraethoxysilane and (3-Aminopropyl)triethoxysilane for Fuel Cell Application, High Performace Polymers, 2012, 25: 188–197.
- 14. Jiashuang Luan, Shuling Zhang, Mei Zhang, Zhi Geng, Yang Wang, Guibin Wang* Preparation and Characterization of High-performance Poly(ether ether ketone) Fibers with Improved Spinnability Based on Thermotropic Liquid Crystalline Poly(aryl ether ketone) Copolymer, Journal of Applied Polymer Science, 2013, 130(2): 1406-1414.
- 15. Yang Liu, Shuling Zhang, Zheng Zhou, Jiannan Ren, Zhi Geng, Jiashuang Luan, Guibin Wang*, Novel Sulfonated Thin-film Composite Nanofiltration Membranes with Improved Water Flux for Treatment of Dye Solutions, Journal of Membrane Science, 2012, 395: 218-229.