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### 学习经历:

- 1983 年在南京化工学院化学工程专业获得工学学士学位,
- 1986 年获工学硕士学位,
- 1995 年获东京大学化学工程专业工学博士学位

### 工作经历:

- 1986~1991 在南京化工学院担任助教、讲师
- 1995~1997 年在东京大学担任助理教授,
- 1997~2000 年在南京化工大学先后担任副教授、教授、高分子系系主任、材料科学与工程学院副院长
- 2000 年至今在清华大学化学工程系工作, 教授、博士生导师, 膜材料与工程北京市重点实验室主任

### 社会兼职:

- 《膜科学与技术》副主任编委,
- 《水处理技术》常务编委,
- "中国海水淡化及水再利用学会"常务理事,
- "中国膜工业协会"专家委员会委员暨"膜工程与技术委员会"副主任,
- "北京化工学会"理事,
- "北京膜学会"副理事长等;
- 国际膜与膜过程大会 (International Congress on Membranes and Membrane Processes, ICOM) 2014大会主席,
- 亚太膜学会 (Asianian Membrane Society, AMS)第3届和第8届AMS会议大会主席, 常务理事, 第4届、第5届、第6届、第7届AMS会议学术委员会委员等

### 研究简介:

主要从事纳滤膜为代表的压力驱动膜传递机理与膜过程研究、热致相分离聚烯烃微孔膜的可控制备及其表面改性研究, 电驱动膜过程与新型储能材料电化学研究等 3 个方面的基础及应用基础研究。在膜科学与技术研究方面取得了系列研究成果, 先后主持和承担过国家自然科学基金、国家 863 计划、国家 973 计划、北京市教委重点项目、北京市科委重点项目以及国际合作项目、企业合作项目。至今发表论文 300 余篇, 其中SCI收录150多篇, SCI 他引 1800 余次, 出版专著1部、译著1部, 申请发明专利 23 项, 获教育部提名国家自然科学 2 等奖 1 项 (2004)、中国石油和化工联合会科技进步一等奖1项 (2014年)、北京市技术发明二等奖1项 (2014年)。

### 近期论文发表:

#### 2012年

1. Li Q, Bi QY, Liu T Y, Wang XL. Resistance to Protein and Oil Fouling of Sulfobetaine-Grafted Poly(vinylidene Fluoride) Hollow Fiber Membrane and the Electrolyte-Responsive Behavior in NaCl Solution. Applied Surface Science. 2012, DOI:10.1016/j.apsusc.2012.04.066.
2. Bi QY, Li Q, Tian Y, Lin YK, Wang XL. The Hydrophilic Modification of PVDF Membrane with PVP via a Cross-linking Reaction. J. Applied Polymer Sci., 2012 DOI: 10.1002/app.37629.
3. Tang YH, He YD, Wang XL. Effect of Adding a Second Diluent on the Membrane Formation of Polymer/diluent System via Thermally Induced Phase Separation: Dissipative Particle Dynamics Simulation and its Experimental Verification. Journal of Membrane Science, 2012, 409-410(1): 164-172.
4. Wang XL, Fang YY, Tu CH, Van Der B. Modelling of the Separation Performance and Electrokinetic Properties of Nanofiltration Membranes. International Reviews in Physical Chemistry, 2012, 31(1):111-130.
5. Li Q, Bi QY, Zhou B, Wang XL. Zwitterionic Sulfobetaine-grafted Poly(vinylidene fluoride) Membrane Surface with Stably Anti-protein-fouling Performance via a Two-step Surface Polymerization. Applied surface science. 2012, 258: 4707-4717.
6. Ma WZ, Zhang J, Van der Bruggen B, Wang XL. Formation of An Interconnected Lamellar Structure in PVDF Membranes with Nanoparticles Addition via Solid-Liquid Thermally Induced Phase Separation. Journal of Applied Polymer Science, 2012, DOI: 10.1002/APP.37574.

#### 2011年

1. He YD, Tang YH, Wang XL. Dissipative Particle Dynamics Simulation on the Membrane Formation of Polymer-diluent System via Thermally Induced Phase Separation. Journal of Membrane Science, 2011, 368(1-2): 78-85.

2. Tu CH, Fang YY, Zhu J, Van DB, Wang XL. Free Energies of the Ion Equilibrium Partition of KCl into Nanofiltration Membranes Based on Transmembrane Electrical Potential and Rejection. *Langmuir*, 2011, 27(16): 10274-10281.
3. Ma HY, Tian Y, Wang XL. In situ Optical Microscopy Observation of the Growth and Rearrangement Behavior of Surface Holes in the Breath Figure Process. *Polymer*, 2011, 52: 489-496.
4. Ma WZ, Wang XL. Crystallization Kinetics of Poly(vinylidene fluoride)/MMT, SiO<sub>2</sub>, CaCO<sub>3</sub> or PTFE Nanocomposite by Differential Scanning Calorimeter [J]. *Journal of Thermal Analysis and Calorimetry*, 2011, 103(1):319-327.

#### 2010年

1. Tu CH, Wang HL, Wang XL. Study on Transmembrane Electrical Potential of Nanofiltration Membranes in KCl and MgCl<sub>2</sub> Solutions, *Langmuir*, 2010,26(22): 17656-64 .
2. Tu CH, Wu L, Wang DX, Wang XL. Prediction of Separation Performance of Nanofiltration Membranes for Mixed Electrolytes Solution, *Desalination*, 2010, 260(1-3): 218-224.
3. Ma WZ, Wang XL, Zhang J. Effect of MMT, SiO<sub>2</sub>, CaCO<sub>3</sub>, and PTFE Nanoparticles on the Morphology and Crystallization of Poly(vinylidene fluoride) [J]. *Journal of Polymer Science Part B: Polymer Physics*, 2010, 48(20):2154-2164

#### 2009年

1. Tu CH, Tian Y, Wang XL. Research and Development, Market and Application on Membrane Separation Technology in China. *Membrane*, 2009, 34(1): 13-17
2. Ma WZ, Chen SG, Zhang J, Wang XL. Morphology and Crystallization Behavior of Polyvinylidene fluoride/Polymethyl methacrylate/Methyl Salicylate and Benzophenone Systems via Thermally Induced Phase Separation, *Journal of Polymer Science Part B-Polymer Physics*, 2009, 48(3): 248-260.
3. Ma WZ, Chen SJ, Zhang J, Wang XL. Membrane Formation of Polyvinylidene fluoride/ Polymethyl methacrylate/Diluents via Thermally Induced Phase Separation, *Journal of Applied Polymer Science*, 2009,111(3): 1235-1245.

#### 2008年

1. Yang J, Li DW, Lin YK, Wang XL, Tian F, Wang Z. Formation of a Bicontinuous Structure Membrane of Polyvinylidene Fluoride in Diphenyl Ketone Diluent via Thermally Induced Phase Separation, *Journal of Applied Polymer Science*, 2008, 110(1): 341-347.
2. Gu MH, Zhang J, Xia Y, Wang XL. Polyvinylidene fluoride Crystallization Behavior and Membrane Structure Formation via Thermally Induced Phase Separation with Benzophenone Diluent, *Journal of Macromolecular Science, Part B-Physics*, 2008, 47(1): 180-191.
3. Ma WZ, Zhang J, Wang XL. Crystallization and Surface Morphology of Polyvinylidene fluoride/polymethylmethacrylate Films by Solution Casting on Different Substrates, *Applied Surface Science*, 2008, 254(10): 2947-2954.

#### 2007年

1. Ma WZ, Zhang J, Wang XL, Wang SM. Effect of PMMA on Crystallization Behavior and Hydrophilicity of Polyvinylidene fluoride/polymethyl Methacrylate Blend Prepared in Semi-dilute Solutions, *Applied Surface Science*, 2007, 253(20): 8377-8388.
2. Chen G, Lin YK, Wang XL. Formation of Microporous Membrane of Isotactic Polypropylene in Dibutyl Phthalate-soybean Oil via Thermally Induced Phase Separation, *Journal of Applied Polymer Science*, 2007, 105(4): 2000-2007.

#### 2006年

1. Zhang J, Yao Y, Wang XL, Xu JH. Polypropylene/polypropylene-grafted acrylic acid Copolymer/ethylene-acrylic acid Copolymer Ternary Blends for Hydrophilic Polypropylene, *Journal of Applied Polymer Science*, 2006, 101(1): 436-442.
2. Gu MH, Zhang J, Wang XL, Tao HJ, Ma WZ. Crystallization Behavior of PVDF in PVDF-DMP System via Thermally Induced Phase Separation, *Journal of Applied Polymer Science*, 2006, 102(4): 3714-3719.

#### 专利

1. 王晓琳, 林亚凯, 田野等. 聚偏氟乙烯多孔膜表面互穿聚合物网络的改性方法. (专利号: ZL200910076285.6)
2. 李倩, 王晓琳, 田野等. 一种聚偏氟乙烯微孔膜抗蛋白质污染的改性方法. (专利号: 201110417352.3)
3. 王晓琳, 周波, 林亚凯等. 一种制备乙烯-三氟氯乙烯共聚物多孔膜的方法. (申请号: 201110109232.7)

#### 专著

1. 王晓琳, 丁宁. 反渗透和纳滤技术与应用, 化学工业出版社, 北京, 2005.