

首页 学院概况 新闻中心 办公信息 职能部门 教学单位 师资队伍 科研管理 招生就业 国际交流 人才招聘

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个人简介

【个人简介】

2015/05-至今 福州大学, 材料科学与工程学院高分子系, 闽江学者特聘教授
 2013年09月-2015年05月 美国西北大学, 化学系, 博士后
 2011年09月-2013年08月 美国宾州州立大学, 材料科学与工程系, 博士后
 2006年09月-2011年06月 中山大学, 物理科学与工程技术学院材料物理与化学系, 博士
 2002年09月-2006年06月 福州大学, 材料科学与工程学院材料科学与工程系, 本科

【研究领域】

功能高分子的分子设计合成; 先进能源材料; 膜科学

【科研成果】

研究成果:

- (1) Dongyang Chen, Shuanjin Wang*, Min Xiao, Yuezhong Meng*, Synthesis and Characterization of Novel Sulfonated Poly(arylene thioether) Ionomers for Vanadium Redox Flow Battery Application, Energy & Environmental Science 2010, 3: 622-628
- (2) Dongyang Chen, Alyssa-Jennifer Avestro, Zonghai Chen, Junling Sun, Shuanjin Wang, Min Xiao, Zach Erno, Mohammed Algaradah, Majed Nassar, Khalil Amine, Yuezhong Meng, J. Fraser Stoddart*, A Rigid Naphthalenediimide Triangle for Organic Rechargeable Lithium-Ion Batteries, Advanced Materials, 2015, 27: 2907-2912
- (3) Dongyang Chen, Shuanjin Wang*, Min Xiao, Yuezhong Meng*, Preparation and Properties of Sulfonated Poly(fluorenyl ether ketone) Membrane for Vanadium Redox Flow Battery Application, Journal of Power Sources, 2010, 195: 2089-2095
- (4) Dongyang Chen, Shuanjin Wang*, Min Xiao, Dongmei Han, Yuezhong Meng*, Sulfonated Poly(fluorenyl ether ketone) Membrane with Embedded Silica Rich Layer and Enhanced Proton Selectivity for Vanadium Redox Flow Battery, Journal of Power Sources, 2010, 195: 7701-7708
- (5) Dongyang Chen, Shuanjin Wang*, Min Xiao, Yuezhong Meng*, Synthesis and Properties of Novel Sulfonated Poly(arylene ether sulfone) Ionomers for Vanadium Redox Flow Battery, Energy Conversion and Management, 2010, 51: 2816-2824
- (6) Dongyang Chen, Shuanjin Wang*, Min Xiao, Yuezhong Meng*, Allan S Hay, Novel Polyaromatic Ionomers with Large Hydrophilic Domain and Long Hydrophobic Chain Targeting at Highly Proton Conductive and Stable Membranes, Journal of Materials Chemistry, 2011, 21: 12068-12077
- (7) Dongyang Chen, Shuanjin Wang*, Min Xiao, Dongmei Han, Yuezhong Meng*, Synthesis of Sulfonated Poly(fluorenyl ether thioether ketone)s with Bulky-block Structure and Its Application in Vanadium Redox Flow Battery, Polymer, 2011, 52: 5312-5319
- (8) Dongyang Chen, Michael A. Hickner*, Degradation of Imidazolium and Quaternary Ammonium Functionalized Poly(fluorenyl ether ketone sulfone)s Anion Exchange Membranes, ACS Applied Materials & Interfaces, 2012, 4: 5775-5781
- (9) Dongyang Chen, Michael A. Hickner*, Shuanjin Wang, Jingjing Pan, Min Xiao, Yuezhong Meng*, Directl

y Fluorinated Polyaromatic Composite Membranes for Vanadium Redox Flow Batteries, Journal of Membrane Science, 2012, 415-416: 139-144

(10) Dongyang Chen, Soowhan Kim*, Liyu Li, Gary Yang, Michael A. Hickner*, Stable Fluorinated Sulfonated Poly(arylene ether)s for Vanadium Redox Flow Batteries, RSC Advances, 2012, 2: 8087-8094

(11) Dongyang Chen, Michael A. Hickner*, Shuanjin Wang, Jingjing Pan, Min Xiao, Yuezhong Meng*, Synthesis and Characterization of Quaternary Ammonium Functionalized Fluorene-containing Cardo Polymers for Potential Anion Exchange Membrane Water electrolyzer Applications, International Journal of Hydrogen Energy, 2012, 37: 16168-16176

(12) Dongyang Chen, Michael A. Hickner*, Ertan Agar, E. Caglan*, Optimized Anion Exchange Membranes for Vanadium Redox Flow Battery, ACS Applied Materials & Interfaces, 2013, 5: 7559-7566

(13) Dongyang Chen, Michael A. Hickner*, Ertan Agar, E. Caglan. Kumbur*, Selective Anion Exchange Membranes for High Coulombic Efficiency Vanadium Redox Flow Batteries, Electrochemistry Communications, 2013, 26: 37-40

(14) Dongyang Chen, Soowhan Kim*, Vincent Sprenkle, Michael A. Hickner*, Composite Blend Polymer Membranes with Increased Proton Selectivity and Lifetime for Vanadium Redox Flow Batteries, Journal of Power Sources, 2013, 231: 301-306

(15) Dongyang Chen, Michael A. Hickner*, Ertan Agar, E. Caglan. Kumbur*, Optimizing Membrane Thicknesses for Vanadium Redox Flow Batteries, Journal of Membrane Science, 2013, 437: 108-113

(16) Dongyang Chen, Michael A. Hickner*, V5+ Degradation of Sulfonated Radel Membrane for Vanadium Redox Flow Batteries, Physical Chemistry Chemical Physics 2013, 15: 11299-11305

(17) Dongyang Chen, Michael A. Hickner*, Ion Clustering in Quaternary Ammonium Functionalized Benzylmethyl Containing Poly(arylene ether ketone)s, Macromolecules, 2013, 46: 9270-9278

目前主持国家自然科学基金青年项目（23.2万）和闽江学者项目（300万）

主讲课程

功能高分子材料、新能源材料、专业英语、聚合物合成新方法

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