



苏州大学

材料与化学化工学部

College of Chemistry, Chemical Engineering and Materials Science of Soochow University



[首页](#)
[学部概况](#)
[机构设置](#)
[学部资讯](#)
[师资队伍](#)
[科学研究](#)
[党建工作](#)
[学生园地](#)
[人才培养](#)
[联系我们](#)

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课题组网站

学历及学术经历： 分别于1995，1998和2004年在苏州大学获学士、硕士和博士学位。1998年留校任教。2006-2007和2009-2010在新加坡国立大学和宾夕法尼亚州立大学从事博士后工作。主持国家自然科学基金两项，主持江苏省自然科学基金和教育厅项目各一项，参与多项国家自然科学基金和其它省部级项目，作为主要参与者参与横向项目研发。获苏州大学苏鑫科研奖（2008，独立），江苏省科技进步二等奖（2009，第三）和教育部科技进步二等奖（2009，第三）。先后发表研究论文40多篇，获中国发明专利授权8项。

研究领域： 有机硒调控的活性自由基聚合、活性自由基聚合的基础与应用研究、可塑性弹性体的结构设计与制备、材料表面聚合物改性、刺激响应聚合物的制备和性能研究等。

代表性论文：

1. Ying Wu, Wei Zhang, Zhengbiao Zhang, Xiangqiang Pan, Zhenping Cheng, Jian Zhu*, and Xiulin Zhu*, Initiator-chain transfer agent combo in the RAFT polymerization of styrene. *Chem. Comm.*, **2014**, 50, 9722-9724.
2. Xuelang Miao, Jijia Li, Zhengbiao Zhang, Zhenping Cheng, Wei Zhang, Jian Zhu* and Xiulin Zhu*, Dimanganese decacarbonyl/2-cyanoprop-2-yl-1-dithionaphthalate: toward sunlight induced RAFT polymerization of MMA, *Polym. Chem.*, **2014**, 5, 4641-4648.
3. Jinjie Lu, Nianchen Zhou, Xiangqiang Pan, Jian Zhu*, Xiulin Zhu*. Branched Polystyrene with High Reflex Index Synthesized from Selenium-Mediated Polymerization. *J. Polym. Sci., Part A: Polym. Chem.* **2014**, 52, 504-510.
4. Xuelang Miao, Wei Zhu, Zhengbiao Zhang, Wei Zhang, Xiulin Zhu* and Jian Zhu*. Photo-induced cobalt-mediated radical polymerization of vinyl acetate. *Polym. Chem.* **2014**, 5, 551-557.
5. Xiaomin Zhang, Heqin Dou, Zhengbiao Zhang, Wei Zhang, Xiulin Zhu*, Jian Zhu*, Fast and Effective Copper(0)-Mediated Simultaneous Chain- and Step- Growth Radical Polymerization at Ambient Temperature, *J. Polym. Sci., Part A: Polym. Chem.* **2013**, 51, 3907-3916.
6. Jindong Zeng, Jian Zhu*, Xiangqiang Pan, Zhengbiao Zhang, Nianchen Zhou, Zhenping Cheng, Wei Zhang and Xiulin Zhu*, Organoselenium compounds: development of a universal "living" free radical polymerization mediator, *Polym. Chem.*, **2013**, 4, 3453-3457.
7. Fei Ma, Jian Zhu*, Zhengbiao Zhang, Xiangqiang Pan, Nianchen Zhou, Xiulin Zhu*, Seleno-containing poly(vinyl acetate) prepared by diselenocarbonates-mediated controlled free radical polymerizations, *J. Polym. Sci., Part A: Polym. Chem.* **2013**, 51, 3159-3165.
8. Jindong Zeng, Zhengbiao Zhang, Jian Zhu*, Nianchen Zhou, Zhenping Cheng, Xiulin Zhu*, Selenium-substituted carbonates as mediators for controlled radical polymerization, *J. Polym. Sci., Part A: Polym. Chem.* **2013**, 51, 2606-2613.
9. Heqin Dou, Xiaomin Zhang, Wei Shen, Jian Zhu*, Zhengbiao Zhang, Xiulin Zhu. Synthesis of comb-like block copolymer with poly(N-isopropylacrylamide) backbone and poly(vinyl acetate) or poly(N-vinyl-2-pyrrolidone) side chains by reversible addition-fragmentation chain transfer polymerization. *J. Polym. Sci., Part A: Polym. Chem.* **2013**, 51, 2125-2130.
10. Na Li, Jian Zhu*, Xiaoliang Ma*, Qingfang Zha, Chunshan Song. Tailoring of Surface Oxygen-Containing Functional Groups and Their Effect on Adsorptive Denitrogenation of Liquid Hydrocarbons Over Activated Carbon, *AIChE Journal*, **2013**, 59, 1236-1244.

11. Guixian Huang, Jian Zhu*, Zhengbiao Zhang, Wei Zhang, Nianchen Zhou, Xiulin Zhu. Reversible Photo- and Thermo-Responsive Block Copolymer Micelles Functionalized by NIPAM and Azobenzene. *J. Macromol. Sci., Part A: Pure and Appl. Chem.* **2013**, *50*, 193-199.
12. Xiangqiang Pan, Jian Zhu, Jianping Zou, Zhengbiao Zhang, Zhenping Cheng, Nianchen Zhou, Wei Zhang, Jian Zhu, Zhijun Hu, Xiulin Zhu*. Straightforward and Highly Efficient Synthesis of Diselenocarbamates. *Org. Lett.* **2012**, *14*, 6170-6173.
13. Jindong Zeng, Jian Zhu*, Zhengbiao Zhang, Xiangqiang Pan, Wei Zhang, Zhenping Cheng, Xiulin Zhu*. New Selenium-Based Iniferter Agent for Living Free Radical Polymerization of Styrene under UV Irradiation. *J. Polym. Sci., Part A: Polym. Chem.* **2012**, *50*, 2211-2218.
14. Yahan Liu, Xuelang Miao, Jian Zhu*, Zhengbiao Zhang, Zhenping Cheng, Xiulin Zhu*. Polymer-Grafted Modification of Activated Carbon by Surface-Initiated ATRP. *Macromol. Chem. Phys.* **2012**, *213*, 868-877.
15. Wei Shen, Mingying Xing, Zhengbiao Zhang, Zhenping Cheng, Jian Zhu*. Synthesis of Amphiphilic Azobenzene Functionalized Branched-Type Copolymer Based on Branched Poly(2-(Dimethylamino) ethyl methacrylate) and Investigation of Its Drug Release Properties. *J. Macromol. Sci., Part A: Pure and Appl. Chem.* **2012**, *49*, 834-844.
16. Mingying Xing, Weihua Guo, Zhenping Cheng, Zhengbiao Zhang, Jian Zhu*, Xiulin Zhu*, Synthesis of azobenzene functionalized dendritic block copolymer based on hyperbranched PDMAEMA and investigation of its drug release properties, *Journal of Controlled Release*, 2011, *152*, e1-e132.
17. Xiaobo Zhou, Jian Zhu*, Mingying Xing, Zhengbiao Zhang, Zhenping Cheng, Nianchen Zhou, Xiulin Zhu*. Synthesis and characters of hyperbranched poly(vinyl acetate) by RAFT polymerization. *Eur. Polym. J.* **2011**, *47*, 1912-1922.
18. Weihua Guo, Jian Zhu, Zhenping Cheng, Zhengbiao Zhang, and Xiulin Zhu*. Anticoagulant Surface of 316 L Stainless Steel Modified by Surface-Initiated Atom Transfer Radical Polymerization. *ACS Appl. Mater. Interfaces* **2011**, *3*, 1675-1680.
19. Haizhong Cao, Jian Zhu, Wei Zhang, Xinrong Chen, Zhenping Cheng, Jianhong Wu, Xiulin Zhu. Methacrylate copolymers with substituted azobenzene side groups: synthesis, characterization and photo-induced birefringence properties. *e-Polymers*, **2010**, no. 049.
20. Xiaoqiang Xue, Jian Zhu, Zhengbiao Zhang, Nianchen Zhou, Yingfeng Tu, and Xiulin Zhu*, Soluble Main-Chain Azobenzene Polymers via Thermal 1,3-Dipolar Cycloaddition: Preparation and Photoresponsive Behavior. *Macromolecules* **2010**, *43*, 2704-2712.
21. Cheng Chang, Jian Zhu, Zhengbiao Zhang, Nianchen Zhou, Zhenping Cheng, Xiulin Zhu*. Synthesizing and characterization of comb-shaped carbazole containing copolymer via combination of ring opening polymerization and nitroxide-mediated polymerization. *Polymer* **2010**, *51*, 1947-1953.
22. Xiaoqiang Xue, Jian Zhu, Zhengbiao Zhang, Zhenping Cheng, Yingfeng Tu, Xiulin Zhu*. Synthesis and characterization of azobenzene-functionalized poly(styrene)-*b*-poly(vinyl acetate) via the combination of RAFT and "click" chemistry. *Polymer* **2010**, *51*, 3083-3090.
23. Xiaoqiang Xue, Jian Zhu, Zhengbiao Zhang, Nianchen Zhou, Xiulin Zhu*. Synthesis and photoresponsive behavior of the high- T_g azobenzene polymers via RAFT polymerization. *React. Funct. Polym.* **2010**, *70*, 456-462.
24. Yi Xiang, Xiaoqiang Xue, Jian Zhu*, Zhengbiao Zhang, Wei Zhang, Nianchen Zhou and Xiulin Zhu*. Fluorescence behavior of an azobenzene-containing amphiphilic diblock copolymer. *Polym. Chem.*, **2010**, *1*, 1453-1458.

荣誉:

1. 教育部自然科学二等奖, 排名第三, 2010年;
2. 江苏省自然科学进步奖, 排名第三, 2010年;
3. 苏州大学苏鑫科研奖, 2008年

近年来主持和参加的项目:

1. 基于有机硒化合物的通用型活性自由基聚合调控体系研究/21374067, 国家自然科学基金, 2014-2017
2. 含硒的功能性RAFT试剂的合成及其聚合研究/21074082, 国家自然科学基金, 2011-2013
3. 偶氮苯光敏生物智能材料的活性自由基聚合合成及其性能研究/50803044, 国家自然科学基金, 2009-2011
4. 含有卟啉结构聚合物材料的合成及其电化学双稳态性能研究(BZ2007037), 江苏省科技厅国际合作项目, 2007-2010
5. 聚合物改性碳基材料用于油品脱氮的研究(SKLVP201102008), 重质油国家重点实验室, 2011-2013
6. 活性自由基聚合技术制备高效聚合物多孔复合型二氧化碳吸附材料, 苏州市, 2011-2012
7. RAFT试剂的功能化及其对活性/可控自由基聚合的控制性能研究(20574050), 国家自然科学基金, 2006-2008
8. 莱卡激光共聚焦显微镜在材料表征中的新技术开发(P110902412), 江苏新海天国际贸易有限公司, 2012-2015

授权专利:

1. 朱健、刘亚晗、朱秀林、程振平、张正彪, “一种活性炭的改性方法”, ZL201110263588.6, 2013年3月29日, 中国发明专利
2. 朱健、郭卫华、窦和琴、朱秀林、秦静, “一种在不锈钢表面接枝聚合物链的方法”, ZL201010208596.6, 2012年5月23日, 中国发明专利;
3. 朱健、周晓博、郭卫华、朱秀林、程振平、张正彪, “一种超支化聚醋酸乙烯酯的制备方法”, ZL201010223709.X, 2012年1月25日, 中国发明专利

