



所属学院 材料科学与工程学院

学科领域 高分子材料

邮箱 saxu@ecust.edu.cn

个人简介

1988 获华中科技大学化学系应用化学专业学士学位, 1991 年获吉林大学化学系硕士学位, 1994 年获复旦大学高分子科学系博士学位, 同年 8 月毕到华东理工大学材料学院工作。1997-2002 年期间, 分别在香港城市大学和香港科技大学, 从事博士后研究和访问研究; 2008-2009 年担任悉尼大学客座教授。2011 年入选上海市浦江学者。在国内外各类期刊上共发表研究论文近 140 篇, 其中被 SCI 收录论文 100 余篇, 共被引用 1000 多次; 申请中国专利 20 项; 主编和参与编写《高分子结构和性能》、《Handbook of Epoxy Blends》、《耐高温及耐腐蚀有机纤维》等专著和教材共 7 本。

研究方向

高分子复合材料; 锂离子电池材料; 塑料改性; 粘合剂; 盐湖化工。

研究成果及主要发表文章

1. "Synthesis and properties of rigid polyurethane foams synthesized from modified urea-formaldehyde resin", Construction and Building Materials, Vol.202, 718-726 (2019). (IF=4.046)
2. "Mechanical and thermal properties of poly(vinyl chloride) composites filled with carbon microspheres chemically modified by a biopolymer coupling agent", Composites Science and Technology, Vol. 172, 29-35 (2019). (IF=6.309)
3. "The effects of polybenzimidazole and polyacrylic acid modified carbon black on the anti-UV-weathering and thermal properties of polyvinyl chloride composites", Composites Science and Technology, Vol. 167, 388-395 (2018). (IF=6.309)
4. "Mechanical, thermal and flame retardant properties of magnesium hydroxide filled poly(vinyl chloride) composites: Effect of filler shape", Composites Part A-Applied Science and Manufacturing, Vol.113, 1-11 (2018). (IF=6.282)
5. "Thermal conductivity and mechanical properties of high density polyethylene composites filled with silicon carbide whiskers modified by cross-linked poly (vinyl alcohol)", Journal of Materials Science & Technology, Vol. 34 (No.12), 2407-2414 (2018-12). (IF=5.04)
6. "Effects of intumescent flame retardant system consisting of tris (2-hydroxyethyl) isocyanurate and ammonium polyphosphate on the flameretardant properties of high-density polyethylene composites", Composites Part A-Applied Science and Manufacturing, Vol. 112, 444-451 (2018-09). (IF=6.282)
7. "Modified silicon carbide whisker reinforced polybenzimidazole used for high temperature proton exchange membrane", Journal of Energy Chemistry, Vol.27 (No.3), 820-825 (2018-05). (IF=5.162)
8. "Proton conducting sulfonated poly (imide-benzimidazole) with tunable density of covalent/ionic cross-linking for fuel cell membranes", Journal of Power Sources, Vol.286, 571-579 (2015). (IF=7.467)
9. "Phosphoric acid-doped cross-linked sulfonated poly(imide-benzimidazole) for proton exchange membrane fuel cell applications", Journal of Membrane Science, 501, 220-227 (2016). (IF=7.015)
10. "Low bandgap polymers synthesized by FeCl₃ oxidative polymerization", Solar Energy Materials and Solar Cells, Vol.94(No.7), 1275-1281 (2010). (IF=6.019)