
Curriculum Vitae

Personal Information

Name: Mingtao Zhou **Gender:** male **Date of Birth:** 1990.06.28

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Education Background

1. 2018.9- now **Ph.D candidate** in Chemistry and Physics of Polymers
(Tutor: Prof. Dr. Xiaoyu Huang, xyhuang@sioc.ac.cn)
Shanghai Institute of Organic Chemistry (SIOC), Chinese Academy of Sciences
2. 2019.10-2020.1 **Exchange student** in Preparative Macromolecular Chemistry
(Tutor: Prof. Dr. Patrick Theato, patrick.theato@kit.edu)
Karlsruhe Institute of Technology (KIT), Germany
3. 2015.9-2018.7 **Master** in Polymer Science (Tutor: Prof. Dr. Xiaoyu Huang, xyhuang@sioc.ac.cn)
Shanghai Institute of Organic Chemistry (SIOC), Chinese Academy of Sciences
4. 2011.9-2015.6 **B. S.** in Applied Chemistry
Shenyang University of Chemical Technology (SYUCT), China

Research Experience

1. Synthesized Ce-doped TiO₂ hollow fibers and explored their potential application for degradation of dye compounds
2. A series of polymethacrylates with perfluorocyclobutyl aryl ether side groups were synthesized. The resulting polymers exhibit comparable transparency to PMMA, but with significantly improved heat resistance.
3. The RAFT polymerization of phenoxyallene was first achieved. All the factors which affect the polymerization were discussed.
4. A series of block polymers comprised of both polyvinyl and polyphenoxyallene chains were synthesized by RAFT polymerization.
5. PNIPAM-*b*-Polyphenoxyallene nanoparticles with variable morphologies were prepared through polymerization-induced self-assembly (PISA) technology by emulsion RAFT polymerization.

Publications

1. Zhongliang Shi, **Mingtao Zhou**, Dongsong Zheng, Hao Liu and Shuhua Yao* "Preparation of Ce-

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- doped TiO₂ Hollow Fibers and Their Photocatalytic Degradation Properties for Dye Compound”, *J. Chin. Chem. Soc.* **2013**, *60*, 1156-1162
2. Mingchen Jia,[#] **Mingtao Zhou**,[#] Yongjun Li, Guolin Lu, Xiaoyu Huang* “Construction of semi-fluorinated polyimide with perfluorocyclobutyl aryl ether- based side chains”, *Polym. Chem.* **2018**, *9*, 920-930.
 3. **Mingtao Zhou**, Guangxin Gu, Sen Zhang, Guolin Lu, Jie Xu, Xiaoyu Huang*, “New perfluorocyclobutyl aryl ether-containing methacrylates: Synthesis and radical polymerization”, *Eur. Polym. J.* **2019**, *120*, 109250-109257
 4. **Mingtao Zhou**, Xue Jiang, Binbin Xu, Guolin Lu, Xiaoyu Huang*, “RAFT polymerization of phenoxyallens”, *Macromolecules* under review.
 5. **Mingtao Zhou**, Binbin Xu, Guolin Lu, Xiaoyu Huang*, “Controlled/Living copolymerization of phenoxyallens with vinyl monomers: an efficient synthetic route toward double-bond-functionalized polymers”, *Macromolecules* submitted.

Honors and Awards

- ◆ “First-class Comprehensive Scholarship” and “National Inspirational Scholarship” at SYUCT;
- ◆ “Merit Student” at SIOC.

Personal Skills

- Skilled in traditional polymerization, living/controlled polymerization, purification, characterization and morphological analysis of polymers
- Comprehensive knowledge and experience of characterization (NMR, IR, MS, GC, GPC, TEM, AFM, DSC, DLS, TGA, UV-vis, XRD, Fluorescence Spectrometer)
- Skilled in literature searching (SciFinder, ISI Web of Knowledge, Google Scholar)
- Good command of listening, speaking, reading and writing English

Self-Assessment

Optimistic, adaptable, responsible

Research Interests

New methods for polymerization, design of novel monomer structure