

YAKUN CAO

Address

Work: Southern Methodist University
Department of Chemistry
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Education

2015- Southern Methodist University, Department of Chemistry,
Ph.D., Chemistry,
Advisor: Nicolay V Tsarevsky
2010-2014 Shandong university, weihai, China
B.S. Applied Chemistry

Professional Experience

2017- Research Assistant, Southern Methodist University, Dallas, TX
2015-2017 Teaching Assistant, Department of Chemistry, Southern Methodist University

Research Interests and Areas of Expertise

1. Controlled polymerization and synthesis of polymers with well-defined molecular architecture and functionality
2. Hypervalent iodine compounds
3. Development of “green” synthetic methodologies

Membership in Professional Societies

- American Chemical Society (ACS)

Awards and Honors

2015 Lazenby Scholarship

List of Publications

Peer-reviewed journal research papers

1. Kumar, R., Sayala, K. D., Cao, Y., Tsarevsky, N. V., “Functionalization of Cis-1,4-Polyisoprene Using Hypervalent Iodine Compounds with Tetrazole Ligands”, *J. Polym. Sci.*, **2020**, 58, 172-80 (dx.doi.org/10.1002/pola.29500)
2. Cao, Y., Kumar, R., Tsarevsky, N. V., “Employing Heterocyclic Hypervalent Iodine Compounds with I-Cl Bonds as Initiators and Chain Transfer Agents in the Synthesis of Branched Polymers”, *Macromol. Chem. Phys.*, **2019**, 220, 1800471, 1-10 (dx.doi.org/10.1002/macp.201800471)
3. Kumar, R., Cao, Y., Tsarevsky, N. V., “Iodosylbenzene-Pseudohalide-Based Initiators for Radical Polymerization”, *J. Org. Chem.*, **2017**, 82, 11806-15 (dx.doi.org/10.1021/acs.joc.7b01945)