

Zhe Su

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EDUCATION

08/2013 – 05/2015 Case Western Reserve University, Cleveland, OH, USA
M.S. in Macromolecular Science & Engineering

09/2009 – 06/2013 ZhengZhou University, Zhengzhou, China
B.S. in Chemistry

RESEARCH EXPERIENCES

8/2013-Present Research Assistant at Advincula Research Group for Polymer Materials and Chemistry, CWRU (<http://www.rcapoly.net/>)

Advisor: Prof. Rigoberto Advincula

- Fluorophores functionalized AuNPs with adjustable polymer linkers: synthesis, characterization and energy transfer
- Nano-carrier with a reversible photoswitch: design, synthesis and encapsulation property
- Hyperbranched polymer on the surface of AuNPs via grafting from strategy

8/2011-06/2013 Research Assistant at Functional Polymer Laboratory, Zhengzhou University

Advisor: Prof. Liuhe Wei

- Synthesis of methyl acrylate polyurethane hybrid materials
- Synthesis and antibacterial performance of silver bromide and silver nanoparticle
- Synthesis and characterization of a novel ethynyl-encapped polyisomide Resins with excellent properties and comparisons with other oligomers
- The facile synthesis of polymers with pendant fluorescent group and optical property studies of the as-prepared polymers
- Three-arm star block copolymers of ϵ -Caprolactone and acrylic acid: Synthesis and micellization behavior
- Carbon nanotube and silver nanoparticle containing nano-composite: Fabrication and Catalytic/Antibacterial properties studies

PUBLICATIONS

- Pengfei Cao,[†] **Zhe Su**,[†] Al Christopher de Leon, Rigoberto Advincula. Nano-carrier with a reversible photoswitch: Design, synthesis and encapsulation property study. *ACS MacroLetters*. 2015, 4, 58-62. [†] Equal contribution
- **Zhe Su**, Sisi Huang, Meng He, Chaofan Dong, Linzhi Wu, Chunhui Li, Jinxia Liu, Mingming Yu, and Liuhe Wei. Synthesis and antibacterial performance testing of silver bromide and silver nanoparticle *Journal of Nanoengineering and Nanomanufacturing*, 2014, 4, 1-6.
- Pengfei Cao, Joey Mangadlao, Al de leon, **Zhe Su**, Rigoberto Advincula. Catenated Poly(caprolactone) and Poly(L-lactide) via Ring-expansion Strategy *Macromolecules* In process, DOI: 10.1021/acs.macromol.5b00470
- Jin-Xia Liu, Cong Yuan, **Zhe Su**, Ting-Ting Xu, Liu-He Wei, Zhi Ma. Three-arm star block copolymers of ϵ -Caprolactone and Acrylic Acid: Synthesis and micellization behavior *Journal Of Polymer Science, Part A: Polymer Chemistry* 2013, 51, 1969–1975.

CONFERENCES

September 2014 The 11th Thermoplastic Elastomers Topical Conference (Akron, Ohio)

HONORS AND AWARDS

2011-2012	The First Class Scholarship	Zhengzhou University
2011-2012	The Award of Triple-A Student	Zhengzhou University
2010-2011	The Third Class Scholarship	Zhengzhou University
2010-2011	The Award of Merit Student	Zhengzhou University
2009-2010	The Third Class Scholarship	Zhengzhou University

SOCIAL AND VOLUNTEERING ACTIVITIES

2011-2012	Contestant in “Comic Strips”	Zhengzhou University
2009-2011	Deputy Minister of the Arts Association	Zhengzhou University
2009-2010	Contestant in a Singing Competition	Zhengzhou University
2009-2010	Volunteer for a Running Competition	Zhengzhou University