

Rui Xiong

State Key Laboratory of Polymer Materials Engineering, Sichuan University, Chengdu, Sichuan, P. R. China,
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Education Background

Sep. 2014-present

Visiting student at Georgia Tech.

Sep. 2011-present

Five-year fast track Ph. D. Student, State Key Laboratory of Polymer Materials Engineering, Sichuan University.

Adviser: Pro. Canhui Lu, Email: canhuilu@scu.edu.cn

Research experiences

- Preparation of nanocellulose from a variety of cellulosic source, including waste cotton fabrics, commercial cotton, wood pulp and bamboo pump.
- Preparation of cellulose-based hybrids
 - Novel metal nanoparticles-cellulose materials
 - Magnetic cellulose materials.
 - Conductive cellulose/silver nanowires composites
- Preparation of cellulose/graphene nanocomposite

Sep. 2007-Jul. 2011

College of Polymer Science & Engineering, Sichuan University
Bachelor of Polymer Science

Journal Papers

1. **Rui Xiong**, Xinxing Zhang, Dong Tian, Zehang Zhou, Canhui Lu. Comparing microcrystalline with spherical nanocrystalline cellulose from waste cotton fabrics. *Cellulose*, 2012, 19, 1189-1198.
2. **Rui Xiong**, Canhui Lu, Wei Zhang, Zehang Zhou, Xinxing Zhang. Facile synthesis of tunable silver nanostructures for antibacterial application using cellulose nanocrystals. *Carbohydrate Polymers*, 2013, 95, 214-219.
3. **Rui Xiong**, Canhui Lu, Yaru Wang, Zehang Zhou, Xinxing Zhang. Nanofibrillated cellulose as support and reductant for facile synthesis of Fe₃O₄/Ag nanocomposites with catalytic and antibacterial activities. *Journal of Materials Chemistry A*, 2013, 1, 14910-14918.
4. **Rui Xiong**, Yaru Wang, Xinxing Zhang, Canhui Lu, Lidan Lan. In situ growth of gold nanoparticles on magnetic γ -Fe₂O₃@cellulose nanocomposites: a highly active and recyclable catalyst for reduction of 4-nitrophenol. *RSC Advances*, 2014, 4, 6454-6462.
5. **Rui Xiong**, Canhui Lu, Yaru Wang, Zehang Zhou, Xinxing Zhang. Facile synthesis of magnetic nanocomposites of cellulose@ultrasmall iron oxide nanoparticles for water treatment. *RSC Advances*, 2014, 4, 22632-22641.
6. **Rui Xiong**, Canhui Lu, Wei Zhang, Guiping Yuan and Xinxing Zhang. Flexible, highly transparent and iridescent all-cellulose hybrid nanopaper with enhanced mechanical strength and writable surface. *Carbohydrate Polymers*, 2014, 113, 264-271.
7. Xiaodong Wu, Canhui Lu, Wei Zhang, Guiping Yuan, **Rui Xiong** and Xinxing Zhang. A novel reagentless

approach for synthesizing cellulose nanocrystal-supported palladium nanoparticles with enhanced catalytic performance. *Journal of Materials Chemistry A*, 2013, 1, 8645-8652.

8. Xiaodong Wu, Canhui Lu, Zehang Zhou, Guiping Yuan, **Rui Xiong** and Xinxing Zhang. Green synthesis and formation mechanism of cellulose nanocrystal-supported gold nanoparticles with enhanced catalytic performance. *Environmental Science: Nano*, 2014, 1, 71-79.
9. Z. H. Zhou, X. X. Zhang, D. Tian, **R. Xiong** and C. H. Lu. Solvent free synthesis of polyaniline with improved molecular weight through solid state mechanochemical milling at ambient temperature. *Materials Research Innovations*, Accepted for Publication.

Honors and Awards

Oct. 2013 Ghuanghua scholarship, Sichuan University (**Only 1 among the 432 students**)

Sep. 2013 First Prize Scholarship, Sichuan University (**Only 2 among the 51 students**)

Sep. 2013 Being given permission to be exempted from tests to be a Ph. D. candidate

Nov. 2012 National scholarship (**Top 7%**)

Oct. 2012 Kingfa scholarship, Sichuan University

Relevant Skills

Language	English (IELTS: 6.5, CET-6, fluent: speak, write, read), Chinese
Software	Origin, Microsoft office, Photoshop, Bruker, Chemoffice, etc.
Instrumental expertise	DSC, TGA, AFM, FTIR, SEM, TEM, XRD, BET, etc.

Personal profile

An enthusiastic hard working person with experience of dealing with various problems.