Xin Wang

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PERSONAL INFORMATION

- Gender: Male Birthdate: 1990.03
- Birthplace: Jiangsu Province, China Nationality: P.R. China

EDUCATION

- 2008.09-2012.06 Nanjing Tech University Bachelor Pharmaceutical Engineering
- 2012.09-2018.06 Nanjing Tech University PhD Chemical Engineering and Pharmaceutical Engineering

HONORS

2017-2018 **"Academic fellowships" top grade, "Shijun" Scholarship**
2016-2017 **"Academic fellowships" top grade,** "Collaborative innovation scholarship"
2015-2016 **Doctoral "Presidential Fellowship",** "Academic fellowships"
2014-2015 **"Outstanding Graduate"**
2014-2015 **"Triple-A Graduate Stuedent"**
2014-2015 "Nanjing Hicin Pharmaceutical co., Ltd. Scholarship"
2013-2014 **"National Graduate Student Scholarship"**
2013-2014 "Nanjing Hicin Pharmaceutical co., Ltd. Scholarship"

SCIENTIFIC RESEARCH EXPERIENCE

- 2012.8～now State key laboratory of materials-oriented chemical engineering
  College of biotechnology and pharmaceutical engineering
  Nanjing Tech University
- Participate in National Natural Science Foundation of China and Natural Science Foundation of Jiangsu Province: Organocatalysis in ring-opening polymerizations of cyclic esters, *N*-substituted *N*-carboxy anhydrides and *N*-sulfonyl aziridines. Preparation of biodegradable and biocompatible amphiphilic block copolymers, polyesters, polypeptoids and poly(ethylene imine)s.
- **Other researches：** Participate in the research and development of many corporate projects: Synthesis of small molecular pro-drug and chemical analysis.

PUBLICATIONS (Articles and Patents)

Papers (Partial)

[1] **Xin Wang,** Yaya Liu, Zhenjiang Li,* Haixin Wang, Hailemariam Gebru, Siming Chen, Hui Zhu, Fulan Wei, and Kai Guo*.Organocatalyzed Anionic Ring-Opening Polymerizations of *N*-Sulfonyl Aziridines with Organic Superbases. ***ACS Macro Letters***. 2017, 6, 1331−1336.

[2] **Xin Wang,** Saide Cui, Zhenjiang Li, Suli Kan, Qiguo Zhang, Chengxu Zhao, Hao Wu, Jingjing Liu, Wenzhuo Wu and Kai Guo*. A base–conjugate-acid pair for living/controlled ring-opening polymerization of trimethylene carbonate through hydrogen-bonding bifunctional synergistic catalysis. ***Polymer Chemistry*** (DOI: 10.1039/c4py00773e), 2014, 5 (20), 6051-6059.

[3] **Xin Wang**, Jiaqi Liu, Songquan Xu, Jiaxi Xu, Xianfu Pan, Jingjing Liu, Saide Cui, Zhenjiang Li* and Kai Guo*. Traceless switch organocatalysis enables multiblock ring-opening copolymerizations of

lactones, carbonates, and lactides: by a one plus one approach in one pot. ***Polymer Chemistry*** (DOI: 10.1039/C6PY01107A), 2016, 7(41), 6297-6308.

[4] Yaya Liu, **Xin Wang**, Zhenjiang Li, Fulan Wei, Hui Zhu, He Dong, Siming Chen, Herui Sun, Kun Yang and Kai Guo*. A switch from anionic to H-bonding bifunctional catalyzed ring-opening polymerizations towards polyether-polyester diblock copolymers. ***Polymer Chemistry*** (DOI: 10.1039/C7PY01842H), 2018, 9, 154-159.

[5] Hailemariam Gebru, **Xin Wang**, Zhenjiang Li*, Jingjing Liu, Jiaxi Xu, Haixin Wang, Songquan Xu, Fulan Wei, Hui Zhu, Kai Guo*. Brønsted base mediated one-pot synthesis of catechol-ended amphiphilic polysarcosine-b-poly(N-butyl glycine) diblock copolypeptoids. ***Pure and Applied Chemistry***, 2018, DOI: 10.1515/pac-2018-0604.

[6] Saide Cui, **Xin Wang**, Zhenjiang Li,* Qiguo Zhang, Wenzhuo Wu, Jingjing Liu, Hao Wu, Cheng Chen, Kai Guo*. One-pot Glovebox-free Synthesis, Characterization, and Self-Assembly of Novel Amphiphilic Poly(sarcosine-b-caprolactone) Diblock Copolymers. ***Macromolecular Rapid Communications*** (DOI: 10.1002/marc.201400348), 2014, 35 (22), 1954-1959.

[7] Qiguo Zhang, **Xin Wang**, Zhenjiang Li,* Wenzhuo Wu, Jingjing Liu, Hao Wu, Saide Cui and Kai Guo*. Phytic acid: a biogenic organocatalyst for one-pot Biginelli reactions to 3,4-dihydropyrimidin-2(1H)-ones/thiones. ***RSC Advances*** (DOI: 10.1039/c4ra02084g), 2014, 4 (38), 19710-19715.

[8] Saide Cui, Xianfu Pan, Hailemariam Gebru, **Xin Wang**, Jiaqi Liu, Jingjing Liu, Zhenjiang Li* and Kai Guo*. Amphiphilic star-shaped poly(sarcosine)-block poly(e-caprolactone) diblock copolymers: one-pot synthesis, characterization, and solution properties. ***Journal of Materials Chemistry B***, 2017, 5, 679-690.

[9] Hao Wu, Yufeng Ji, Zhenjiang Li, **Xin Wang**, Qiguo Zhang, Saide Cui, Wenzhuo Wu, Jingjing Liu, and Kai Guo*. Cationic Ring-Opening Polymerization of Trimethylene Carbonate to α,ω-Dihydroxy Telechelic and Star-Shaped Polycarbonates Catalyzed by Reusable o-Benzenedisulfonimide. ***Journal of Polymer Science, Part A: Polymer Chemistry*** (DOI: 10.1002/pola.27496), 2015, 53 (6), 729-736.

[10] Xiaopei Li, Qiguo Zhang, Zhenjiang Li, **Xin Wang**, Jingjing Liu, Saide Cui, Songquan Xu, Chengxu Zhao, Cheng Chen and Kai Guo. Thiourea Binding with Carboxylic Acid Promoted Cationic Ring-Opening Polymerization. ***Polymer***, 2016, 84 293-303**.**

[11] Hailemariam Gebru, Saide Cui, Zhenjiang Li*, **Xin Wang**, Xianfu Pan, Jingjing Liu, Kai Guo*. Facile pH-Dependent Synthesis and Characterization of Catechol Stabilized Silver Nanoparticles for Catalytic Reduction of 4-Nitrophenol. ***Catalysis Letters*** 2017, 147(8), 2134-2143.

China Patents (Partial)

[1] Kai Guo, **Xin Wang**, Zhenjiang Li, Ning Zhu, Xin Hu. A method for preparing a polyester polyol. China Patent (Application NO 201510941271.1, Authorization NO CN105399937B) (**Authorized，Student first author**)

[2] Kai Guo, **Xin Wang**, Zhenjiang Li, Saide Cui, Huiying Wang. A method for preparing a polyester-polycarbonate-polyester multiblock copolymer. China Patent (Application NO 201510712782.6, Authorization NO CN105153408B). (**Authorized，Student first author**)

[3] Kai Guo, **Xin Wang**, Zhenjiang Li, Siming Chen, Yaya Liu, He Dong. A method for ring-opening polymerization of cyclic monomer. China Patent (Application NO 201710204863.4). (**Published，Student first author**)