Miao Qi

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Education

2015-Present	Graduate Student, Boston College, Boston, United States Advisor Prof. Jeffery A. Byers
2013-2015	Master of Science, Chemistry, National University of Singapore, Singapore Advisor Prof. T. S. Andy Hor
2010-2014	Bachelor of Science, Chemistry Soochow University, Suzhou, China

Research Experience

2015-Present	Graduate research, Boston College, United States *Combining electrochemical techniques and catalyst development for the production of useful and green polymer materials*
2013-2015	Final Year Project & Master's project, National University of Singapore, Singapore Thesis title: Novel Catch-Release Catalysis System for Green Pharmaceutical and Fine Chemical Synthesis *Synthesized new ligand scaffolds and utilized host-guest interactions for the recovery of palladium catalysts in aqueous Suzuki-Miyaura reactions*
2012-2014	National University Student Innovation Program, China Advisor: Prof. Jie Dai, Soochow University, China *Solvothermal synthesis of titanium-oxo clusters and investigated their photocatalytic properties*
2012-2014	Undergraduate Research Project Advisor: Prof. Xiaoguang Bao, Soochow University, China *Mechanistic studies of transition metal complexes catalyzed chemoselective C-H bond amination reactions with DFT methods*

Awards and Honors

1. LaMattina fellow in chemical synthesis, Boston College 2019
2. University excellence undergraduate student award, Soochow University 2014
3. Academic excellence scholarships by Soochow University (three continuous years) 2012-2014
4. Excellency scholarship for oversea studies, Soochow University 2014
5. National University Student Innovation Program, China 2013-2014

Publications

1. Q. Dong, X. Yao, Y. Zhao, M. Qi, X. Zhang, H. Sun, Y. He, D. Wang*, *"Cathodically Stable Li-O_2 Battery Operations Using Water-in-Salt Electrolyte", Chem,* **2018**, *4, 1345–1358.*
2. M. Qi,† Q. Dong,† D. Wang, J. A. Byers*, *"Electrochemically Switchable Ring-Opening Polymerization of Lactide and Cyclohexene Oxide", J. Am. Chem. Soc.,* **2018**, *140,* 5686–5690.
3. M. A. Ortuño, B. Dereli, K. R. Delle Chiaie, A. B. Biernesser, M. Qi, J. A. Byers, C. J. Cramer*, *"The Role of Alkoxide Initiator, Spin State, and Oxidation State in Ring-Opening Polymerization of ε-Caprolactone Catalyzed by Iron Bis(imino)pyridine Complexes", Inorg. Chem.*, **2018**, *57*, 2064–2071.
4. M. Qi,† B. K. Chew, K. Yee,† Z. X. Zhang*, D. J. Young*, T. S. A. Hor*, *"A Catch–release Catalysis System Based on Supramolecular Host–guest Interactions", RSC Adv.* **2016**, *6*, 23686–23692.
5. M. Qi, P. Z. Tan, F. Xue, H. S. Malhi, Z. X. Zhang*, D. J. Young*, T. S. A. Hor*, *"Supramolecular Inclusion Complex System as Recyclable Catalyst for Aqueous Suzuki-Miyaura Coupling*", *RSC. Adv.* **2015**, *5*, 3590−3596.
6. K. P. Hou, M. Qi, X. G. Bao*, H. F. Schaefer, "*Mechanistic Investigations of the $AuCl_3$-Catalyzed Nitrene Insertion into an Aromatic C-H Bond of Mesitylene*", *J. Org. Chem,* **2015**, *80*, 5795–5803.
7. Y. Y. Wu, X. W. Lu, M. Qi, H. C. Su, X. W. Zhao, Q. Y. Zhu*, and J. Dai*, *"Titanium–Oxo Cluster with 9-Anthracenecarboxylate Antennae: A Fluorescent and Photocurrent Transfer Material"*, *Inorg. Chem*., **2014**, *53*, 7233−7240

Presentations

1. Miao Qi, Qi Dong, Haochuan Zhang, Dunwei Wang and Jeffery A. Byers, "*E-switchable polymerization",* Polymer Gordon Research Seminar, Mount Holyoke College in South Hadley, MA, June 2019, poster presentation

2. Miao Qi, Qi Dong, Dunwei Wang and Jeffery A. Byers, "*E-switchable ring-opening polymerization of lactide and an epoxide",* 256th ACS National Conference*,* Boston, August 2018, oral presentation

3. Miao Qi, Fei Xue, Zhong-Xing Zhang, T. S. Andy Hor, *"Novel "Catch-Release" Catalysis Systems for Green Pharmaceutical and Fine Chemical Synthesis"*, 41th International Conference for Coordination Chemistry, Suntec Singapore Convection & Exhibition Center, Singapore, July 2014, poster presentation

4. Miao Qi, Zhong-Xing Zhang, T. S. Andy Hor, "*Novel "Catch-Release" Catalysis Systems for Green Pharmaceutical and Fine Chemical Synthesis",* 4th Molecular Materials Meeting (M3) @ Singapore, Biopolis, Singapore, 14-16, January 2014, poster presentation

References

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