Dongfang Niu

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Professional field: Chemical Engineering and Technology
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Profile

Education

2010: PhD, Physical Chemistry, East China Normal University, China.

2004: BS, Chemistry, Jiangsu Normal University, China.

2008-2009: Visiting student, Washington University in St. Louis, USA.

Academic Experience

2016-present: Associate Professor, School of Chemical Engineering, ECUST, China.

2010-2016: Lecturer, School of Chemical Engineering, ECUST, China.

2017-2018: Visiting Scholar, Department of Chemistry, University of California Irvine, USA.

Research Field

Design and performance of electrocatalyst for energy storage and conversion, including co2rr and membrane modification of lithium sulfur battery; electrochemical synthesis of high value-added chemicals

Research results and selected published papers

1. Huicheng Li, Dongfang Niu*, Deying Liu, Wenjiao Huang, Xinsheng Zhang**， Understanding the enhanced photoelectrochemical activity of Ta doped hematite, Journal of Molecular Structure, 2017, 1139, 104-110.

2. Dongfang Niu, Zhijuan Wu, LipuZhang, Rongbin Du, Heng Xu, Xinsheng Zhang*, Synthesis of cyclic carbonates from epoxides and CO2 in acetonitrile via the synergistic action of BMIMBr and electrogenerated magnesium, Chinese Journal of Catalysis, 2016, 37: 1076-1080.

3. Dongfang Niu*, Haiyang Wang, Huicheng Li, Xinsheng Zhang, The effect of the alkyl chain length of the tetraalkylammonium cation on CO2 electroreduction in aprotic medium, Electrochemistry Communications, 2015, 52: 58-62.

4. Dongfang Niu*, Haiyang Wang, Huicheng Li, Zhijuan Wu, Xinsheng Zhang, Roles of ion pairing on electroreduction of carbon dioxide based on imidazolium-based salts, Electrochimica Acta, 2015, 158: 138-142.

5. Dongfang Niu, Yong Ding, Zhixing Ma, Minghui Wang, Zhou Liu, Bowen Zhang, Xinsheng Zhang*, Effects of surface modification of carbon nanofibers on their electrocatalytic activity for hydrogen evolution reaction of water electrolysis, Acta Chimica Sinica, 2015, 73: 729-734.