

Associate Professor NI Lubin

College	College of Chemistry & Chemical Engineering
Current Position	Associate Professor
Types of Tutor	Master Tutor
Language	Chinese/English
Education	<p>09/2009-10/2013 PhD in Institute of Inorganic Chemistry, University of Zurich, Switzerland (Supervisor: Prof. G. R. Patzke) Research topic: Novel Functional Polyoxometalate (POM) Materials: Synthetic Strategies and Applications.</p> <p>09/2006-08/2009 M.Sc in Physical Chemistry, Xiamen University, China (Supervisor: Prof. Zhao-Hui Zhou) Research topic: Synthesis, Characterization and Performance of Transition Metal Complexes with Aminopolycarboxylic Acids.</p> <p>09/2001-07/2005 B.Sc in Applied Chemistry, AnHui Normal University, China Research topic: Preparation and Performance of TiO₂ Photocatalytic Materials.</p>
Research Interests	<ol style="list-style-type: none"> 1. Li-S battery, Li-ion battery 2. Functional Polyoxometalate (POM)catalysts 3. Supramolecular catalyst 4. Polyoxometalate (POM)-based anticancer agent
Selected Publications	<ol style="list-style-type: none"> 1. Lubin Ni, Robin Güttinger, C. A. Triana, Bernhard Spingler, Kim K. Baldrige * and Greta R. Patzke*, Pathways towards true catalysts: computational modelling and structural transformations of Zn-polyoxotungstates, <i>Dalton Trans.</i>, 2019, 48, 13293. 2. Lubin Ni,* Huan Li, Hongjie Xu, Chao Shen, Ruzhang Liu, Ju Xie, Fengmin Zhang, Chong Chen, Hongxia Zhao, Tongfei Zuo, and Guowang Diao*, Self-Assembled Supramolecular Polyoxometalate Hybrid Architecture as a Multifunctional Oxidation Catalyst, <i>ACS Appl. Mater. Interfaces</i>, 2019, 42, 38708. 3. Hongxia Zhao, Li Tao, Fengmin Zhang, Ying Zhang, Yanqing Liu*, Hongjie Xu, Guowang Diao* and Lubin Ni*, Transition metal substituted sandwich-type polyoxometalates with a strong metal-C (imidazole) bond as anticancer agents. <i>Chem. Commun.</i>, 2019, 55, 1096.

	<ol style="list-style-type: none"> 4. Lubin Ni*, Guang Yang, Qi Wang, Suqin Duan, Chao Shen, Ju Xie, Guosheng Niu, Huan Li, Ming Chen, Guowang Diao*, Supramolecular complexation of polysulfides by β-cyclodextrin polymer functionalized graphene hybrid cathode for high-performance lithium-sulfur batteries. <i>Energy Storage Materials</i>, 2019, 21 378. 5. Lubin Ni*, Hongxia Zhao, Li Tao, Xing Li, Zhaohui Zhou, Yun Sun, Chong Chen, Duo Wei, Yanqing Liu* and Guowang Diao*, Synthesis, in vitro cytotoxicity, and structure-activity relationships (SAR) of multidentate oxidovanadium(IV) complexes as anticancer agents. <i>Dalton Transactions.</i>, 2018, 47, 10035. 6. Lubin Ni*, Gangjin Zhao, Guang Yang, Guosheng Niu, Ming Chen, and Guowang Diao*, Dual Core-Shell-Structured S@C@MnO₂ Nanocomposite for Highly Stable Lithium-Sulfur Batteries. <i>ACS Appl. Mater. Interfaces</i>, 2017, 9, 34793-34803. 7. Lubin Ni*, Zhen Wu, Gangjin Zhao, Chunyu Sun, Chuanqiang Zhou, XiangXiang Gong, and Guowang Diao*, Core-Shell Structure and Interaction Mechanism of γ-MnO₂ Coated Sulfur for Improved Lithium-Sulfur Batteries. <i>Small</i>, 2017, 1603466. (IF: 9.598) 8. Zhen Wu, Wei Wang, Yanting Wang, Chen Chen, Kelun Li, Gangjin Zhao, Chunyu Sun, Wenjian Chen, Lubin Ni*, Guowang Diao*, Three-dimensional graphene hollow spheres with high sulfur loading for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i>, 2017, 224, 527-533. 9. Lubin Ni, Juan Wang, Chang Liu, Jinhong Fan, Yun Sun, Zhaohui Zhou, Guowang Diao*, An asymmetric binuclear zinc(II) complex with mixed iminodiacetate and phenanthroline ligands: synthesis, characterization, structural conversion and anticancer properties, <i>Inorganic Chemistry Frontiers</i>, 2016,3(7) 959-968. 10. Lubin Ni, Dashuai Liang, Yin Cai, Guowang Diao*, Zhaohui Zhou*, A novel hexanuclear titanium(IV)-oxo-iminodiacetate cluster with a Ti₆O₉ core: single-crystal structure and photocatalytic activities. <i>Dalton Transactions</i>, 2016,45(18) 7581-7588.
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