

## 导师简介



夏定国博士，教授，博士生导师，1964 年2 月生，汉族，现为北京大学工学院教授、北京市高等学校拔尖创新人才，北京市科研创新团队带头人，北京市化工学会常务理事，中国仪器仪表学会能源材料分会理事。

研究领域涉及低铂及非铂催化剂、锂插入化合物和电化学治理微量有机物污染的废水。在锂插入化合物及催化剂的成份设计、电化学性能及与微观结构关系方面做过大量的研究工作，主持或参与完成了国家自然科学基金、国家科技部八六三、九七三和省部级项目的研究，同时，致力于材料基础理论在工程实际中的应用。发表的主要文章有：

1. Shaorui Sun, Zhongli Wang, Dingguo Xia\*, Theoretical Study of a new Cathode

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2. Ge Chen, Min Li, Fan Li, Shaorui Sun, Dingguo Xia\*, Protein-mediated Synthesis of

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3. Tao Yang, Fan Li, Dingguo Xia\*, Au@BICUVOX10 Composite Cathode for Novel

Structure Low-Temperature Solid-Oxide Fuel Cells, *Journal of Power Sources*, 2010, Volume  
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4. Tao Yang, Lijuan Zhang, Xiang Li, Dingguo Xia\*, Structural and morphological characterization of gold–nickel electrocatalyst synthesized by taking advantage of the AuNi phase separation mechanism, *Journal of Alloys and Compounds*, 2010, Volume 492, Issues 1-2, Pages 83-87.

5. Xiang Li, Ge Chen, Jia Xie, Lijuan Zhang, Dingguo Xia\*, Ziyu Wu\*, An Electrocatalyst for Methanol Oxidation in DMFC: PtBi/XC-72 with Pt Solid-Solution Structure, *J. Electrochem. Soc.*, 2010, Volume 157, Issue 4, Pages B580-584.

6. Jiong Li, Haiming Li, Xianqing, Liang, Shuo Zhang, Ting Zhao, Dingguo Xia\*, Ziyu Wu, First Principles Study on the Diffusion of Alkali-Metal Ions on the Armchair Single-Wall Nanotubes, *Journal of Physical Chemistry A*, 2009, Volume 113, Issue 5, Pages 791-796.

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10. Zhongli Wang, Shaorui Sun, Dingguo Xia\*, Wangsheng Chu, Shuo Zhang, Ziyu Wu, Investigation of Electronic Conductivity and Occupancy Sites of Mo Doped into LiFePO<sub>4</sub> by ab Initio Calculation and X-ray Absorption Spectroscopy, *Journal of Physical Chemistry C*, 2008, Volume: 112 Issue: 44 Pages: 17450-17455.(PDF)

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12. Zhongli Wang, Shaorui Sun, Chunyang Yu, Yu Chen, Dingguo Xia\*, Syntheses, characterizations and electrochemical properties of spherical-like LiFePO<sub>4</sub> by hydrothermal method, *Journal of Power Sources*, 2008, Volume: 184 Issue: 2 Pages: 633-636.(PDF)
13. Zhenyao Wang, Dingguo Xia\*, Ge Chen, Tao Yang, Yu Chen, The effects of different acids on the preparation of TiO<sub>2</sub> nanostructure in liquid media at low temperature, *Materials Chemistry and Physics*, 2008, Volume: 111 Issue: 2-3 Pages: 313-316.(PDF)
14. Dingguo Xia\*, Shuzhen Liu, Zhenyao Wang, Ge Chen, Lijuan Zhang, Lei Zhang, Rob Hui, Jiuju Zhang, Methanol-tolerant MoN electrocatalyst synthesized through heat treatment of molybdenum tetraphenylporphyrin for four-electron oxygen reduction reaction, *Journal of Power Sources*, 2008, Volume: 177 Issue: 2 Pages: 296-302. (PDF)
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