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### 【在研科研项目】

1. 横向课题，石油钻具钢矫直开裂控制研究，2013年-2015年
2. 横向课题，硅钢绝缘涂料制备新技术研究，2014年-2018年
3. 横向课题，修补气体系统研究，2014年-2016年

### 【代表性学术论文】

1. Liankai Zhou, Xianghua Kong, Min Gao, et al. Hydrothermal Fabrication of  $\text{MnCO}_3/\text{rGO}$  Composite as an Anode Material for High-Performance Lithium Ion Batteries, *Inorganic Chemistry*, 2014, 53(17): 9228-9234.
2. Zheng You, Kui Shen, Zhicheng Wu, Xiaofeng Wang, Xianghua Kong, Electrodeposition of Zn-doped alpha-nickel hydroxide with flower-like nanostructure for supercapacitors, *Applied Surface Science*, 2012, 258(20):8117-8123.
3. Xianghua Kong, Jin Tang, Ruihong Sun, et al. MgO-PSZ Solid State Electrolyte Tubes for Metallurgical Oxygen Sensors Made by Powder Injection Moulding, *Advanced Materials Research*, 2011, 366:249-252.
4. Xianghua Kong, Shuai Wang, Haiping Zhao, et al. Preparation of diamond-like carbon films by cathodic micro-arc discharge in aqueous solutions, *Thin Solid Films*, 2010, 518(15):4211-4214.
5. Hui Yang, Xianghua Kong, Wanheng Lu, et al. High anticorrosion chromate-free passive films made by Titanate and waterborne polyurethane on galvanized steel sheet, *Progress in Organic Coatings*, 2010, 67(4):375-380.



**Xianghua Kong**, the associate professor of Institute for Advanced Materials and Technology, received his B.E. in Materials Physics from University of Science and Technology Beijing in 1991, M.E. in Iron and Steel Making in 1998, and his Ph.D. in materials science from University of Science and Technology Beijing in 2002. His recent research interest is advanced technology for surface treatment.

### **【Publications】**

1. Liankai Zhou, Xianghua Kong, Min Gao, et al. Hydrothermal Fabrication of MnCO<sub>3</sub>@rGO Composite as an Anode Material for High-Performance Lithium Ion Batteries, *Inorganic Chemistry*, 2014, 53(17): 9228-9234.
2. Zheng You, Kui Shen, Zhicheng Wu, Xiaofeng Wang, Xianghua Kong, Electrodeposition of Zn-doped alpha-nickel hydroxide with flower-like nanostructure for supercapacitors, *Applied Surface Science*, 2012, 258(20):8117-8123.
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5. Hui Yang, Xianghua Kong, Wanheng Lu, et al. High anticorrosion chromate-free passive films made by Titanate and waterborne polyurethane on galvanized steel sheet, *Progress in Organic Coatings*, 2010, 67(4):375-380.