



连芳，1973年4月出生，材料科学与工程学院教授，2008年入选北京市科技新星。1996年在西安建筑科技大学硅酸盐工程专业获学士学位，2001年在北京科技大学材料学专业获硕士学位，2007年在北京科技大学材料学专业获博士学位。主要从事锂离子电池和锂空气电池关键材料的设计和研发，以及非金属资源短流程利用新工艺新技术研究与产业化应用。先后主持国家科技支撑计划课题、国家863计划课题以及国际合作课题。目前兼任“十二五”科技部和北京市新材料技术领域专家、国际电化学协会会员。

【在研科研项目】

1. 国家科技支撑计划，低品位菱锰矿非电解的高效富集和提纯技术及示范(2015BAB01B02)，2015年-2018年
2. 国家863计划，长寿命锰酸锂系储能电池关键技术及示范(2013AA050901)，2013年-2015年
3. 北京市科技计划重大项目，锂空气电池电解液体系的设计与优化(D151100003115002)，2015年-2017年

【代表性学术论文】

4. Fang Lian, Min Gao, et al. The effect of surface modification on high capacity $\text{Li}_{1.375}\text{Ni}_{0.25}\text{Mn}_{0.75}\text{O}_{2+\gamma}$ cathode material for lithium-ion batteries [J]. Journal of Alloys and Compounds, 2014, 608: 158 - 164.
5. Fang Lian, Yan Wen, et al. A novel PVB based polymer membrane and its application in gel polymer electrolytes for lithium-ion batteries [J]. Journal of Membrane Science, 2014, 456: 42-48.
6. Hongyan Guan, Fang Lian, et al. Polyvinyl formal based gel polymer electrolyte prepared using initiator free in-situ thermal polymerization method [J]. Journal of power sources, 2014, 245: 95-100.
7. Yang Li, Fang Lian, et al. Fluoroethylene Carbonate as Electrolyte Additive for Improving the electrochemical performances of High-Capacity $\text{Li}_{1.16}[\text{Mn}_{0.75}\text{Ni}_{0.25}]_{0.84}\text{O}_2$ Material [J]. Electrochimica Acta, 2015, 168: 261 - 270
8. Zuoshun Zhang, Fang Lian, et al. Effects of quicklime and iron tailings as modifier on composition and properties of steel slag [J]. Journal of iron and steel research, international, 2015, 22: 15-20.



Fang Lian, the professor of School of Materials Science and Engineering, received her B.E. in silicate engineering from Xi'an University of Architecture and Technology in 1996, and her M.E. and Ph.D. in materials science from University of Science and Technology Beijing in 2001 and 2007. Her recent research interest is key material for Lithium-ion battery and Lithium-air battery, and advanced technology for comprehensive utilization of nonmetal mineral resources. compact processing. She is domain expert on new material technology during the 12th Five-Year Plan and member of International electrochemistry society.

【Publications】

1. Fang Lian, Min Gao, et al. The effect of surface modification on high capacity $\text{Li}_{1.375}\text{Ni}_{0.25}\text{Mn}_{0.75}\text{O}_{2+\gamma}$ cathode material for lithium-ion batteries [J]. Journal of Alloys and Compounds, 2014, 608: 158 - 164.
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5. Zuoshun Zhang, Fang Lian, et al. Effects of quicklime and iron tailings as modifier on composition and properties of steel slag [J]. Journal of iron and steel research, international, 2015, 22: 15-20.