

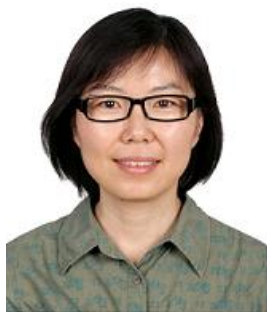
**赵海雷**，1966年8月出生，材料学院教授。教育部新世纪优秀人才。1985年在景德镇陶瓷学院陶瓷制造专业获学士学位，1990年在天津大学无机非金属材料专业获硕士学位，1993年在北京科技大学冶金物理化学专业获博士学位。主要从事新能源材料方面的研究工作，包括锂离子电池、固体氧化物燃料电池、混合导体气体分离膜等相关材料的研究。目前兼任中国硅酸盐学会固态离子分会理事、北京硅酸盐学会副理事长。北京市新能源材料与技术重点实验室常务副主任。

### 【在研科研项目】

1. 国家 973 计划，基于新型三维纳米结构的储能锂二次电池重要基础问题研究 (2013CB934000)，2013 年-2017 年
2. 国家 863 计划，低成本钛酸锂系储能锂离子电池关键技术及示范 (2013AA050902)，2013 年-2016 年
3. 国家自然科学基金，双功能复合结构纳米 Si 基负极材料的制备和电化学性能研究 (21273019)，2013 年-2016 年

### 【代表性学术论文】

1. Yao Lu, **Hailei Zhao**, Xing Cheng, et al. Investigation of In-doped  $\text{BaFeO}_{3-\delta}$  perovskite-type oxygen permeable membranes [J], *Journal of Materials Chemistry A*, 2015, 3: 6202-6214
2. Chunhui Gao, **Hailei Zhao**, Pengpeng Lv, et al. Engineered Si Sandwich Electrode: Si Nanoparticles/Graphite Sheet Hybrid on Ni Foam for Next-Generation High-Performance Lithium-Ion Batteries [J], *ACS Applied Materials & Interfaces*, 2015, 7(3): 1693-1698
3. Zhihong Du, **Hailei Zhao**, Yongna Shen, et al. Evaluation of  $\text{La}_{0.3}\text{Sr}_{0.7}\text{Ti}_{1-x}\text{Co}_x\text{O}_3$  as a potential cathode material for solid oxide fuel cells [J], *Journal of Materials Chemistry A*, 2014, 2 (26): 10290-10299
4. Jie Wang, **Hailei Zhao**, Qian Yang, et al.  $\text{Li}_4\text{Ti}_5\text{O}_{12}$ - $\text{TiO}_2$  Composite Anode Materials for Lithium-ion Batteries [J], *Journal of Power Sources*, 2013, 222: 196-201
5. Cuijuan Zhang, **Hailei Zhao**, A novel cobalt-free cathode material for proton-conducting solid oxide fuel cells [J], *Journal of Materials Chemistry*, 2012, 22 (35): 18387-18394



**Hailei Zhao**, the professor of School of Materials Science and Engineering, received her B.E. in ceramic manufacture from Jingdezhen Ceramic Institute in 1985, M.E. in inorganic nonmetallic materials from Tianjin University in 1990 and Ph.D. in metallurgical physicochemistry from University of Science and Technology Beijing in 1993. Her recent research interest is advanced energy conversion and storage materials, including lithium ion batteries, solid oxide fuel cells, mixed conductors for gas separation. She is the panel member of Solid State Ionic Society of Chinese Ceramic Society, and the vice-director of Beijing Ceramic Society, China.

### 【Publications】

1. Yao Lu, **Hailei Zhao**, Xing Cheng, et al. Investigation of In-doped  $\text{BaFeO}_{3.6}$  perovskite-type oxygen permeable membranes [J], *Journal of Materials Chemistry A*, 2015, 3: 6202-6214
2. Chunhui Gao, **Hailei Zhao**, Pengpeng Lv, et al. Engineered Si Sandwich Electrode: Si Nanoparticles/Graphite Sheet Hybrid on Ni Foam for Next-Generation High-Performance Lithium-Ion Batteries [J], *ACS Applied Materials & Interfaces*, 2015, 7(3): 1693-1698
3. Zhihong Du, **Hailei Zhao**, Yongna Shen, et al. Evaluation of  $\text{La}_{0.3}\text{Sr}_{0.7}\text{Ti}_{1-x}\text{Co}_x\text{O}_3$  as a potential cathode material for solid oxide fuel cells [J], *Journal of Materials Chemistry A*, 2014, 2 (26): 10290-10299
4. Jie Wang, **Hailei Zhao**, Qian Yang, et al.  $\text{Li}_4\text{Ti}_5\text{O}_{12}$ - $\text{TiO}_2$  Composite Anode Materials for Lithium-ion Batteries [J], *Journal of Power Sources*, 2013, 222: 196-201
5. Cuijuan Zhang, **Hailei Zhao**, A novel cobalt-free cathode material for proton-conducting solid oxide fuel cells [J], *Journal of Materials Chemistry*, 2012, 22 (35): 18387-18394