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## 材料与化学研究所



**姓名:** 何超  
**性别:** 男  
**职称:** 研究员  
**职务:**  
**学历:**  
**电话:**  
**传真:**  
**电子邮件:** [hechao@fjirms.ac.cn](mailto:hechao@fjirms.ac.cn)  
**所属部门:**  
**通讯地址:**

### 简 历:

何超, 中国科学院赣江创新研究院硕士生导师  
2020年1月晋升为研究员  
2012年博士毕业于中科院福建物质结构研究所, 毕业后留所工作

### 研究方向:

高性能铁电压电单晶的生长、结构与性能及换能器应用; 铁电晶体光电基础研究; 高温压电材料; 铁电/反铁电材料结构与储能行为。

### 代表论著:

1. Xiaoming Yang, Fangping Zhuo, Chenxi Wang, Ying Liu, Zujian Wang, Chao He\*, and Xifa Long, Tunable pyroelectricity, depolarization temperature and energy harvesting density in  $\text{Pb}(\text{Lu}_{0.5}\text{Nb}_{0.5})\text{O}_3\text{-xPbTiO}_3$  ceramics, *Acta Mater.*, 2020, 186, 523-532.
2. Xiaoming Yang, Fangping Zhuo, Chenxi Wang, Ying Liu, Zujian Wang, Hamel Taylor, Chao He\*, and Xifa Long, “High energy storage density and ultrafast discharge in lead lutetium niobate based ceramics”, *J. Mater. Chem. A*, 2019, 7, 8414.
3. Chao He, Zujian Wang, Xiuzhi Li, Xiaoming Yang, Xifa Long\*, and Zuo- Guang Ye\*, “Self-polarized high piezoelectricity and its memory effect in ferroelectric single crystals”, *Acta Mater.*, 2017, 125, 498-505.
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7. Chao He, Xiuzhi Li, Zujian Wang, Xifa Long\*, Shaoyu Mao and Zuo- Guang Ye\*, Preparation and characterization of new  $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$  ternary piezo-/ferroelectric crystals”, *Chem. Mater.*, 2010, 22, 5588-5592.
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10. Huimin Qiao, Chao He\*, Zujian Wang, Xiuzhi Li, Ying Liu, Hamel Tailor, Xifa Long\*, “Orientation-dependent electrical property and domain configuration of Mn-doped  $\text{Pb}(\text{In}_{0.5}\text{Nb}_{0.5})\text{O}_3\text{-PbTiO}_3$  single crystal”, *J. Am. Ceram. Soc.*, 2019, 102, 79-84.

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获奖及荣誉:

2015年入选海西研究院“春苗”青年人才计划

2018年入选“中国科学院青年创新促进会”

主持和参与了国家自然科学基金面上项目、青年基金、重大研究计划、中科院GF基金项目、福建省自然科学基金和横向开发项目等



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京ICP备0500285号 京公网安备110402500047号

地址: 江西省赣州市赣县区科学院路1号

编辑部邮箱: ireweb@gia.cas.cn