

## Lingping (Lisa) Kong

Department of Physics

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### Education:

- Sep. 2009 – Present **Harbin Institute of Technology**, Harbin, Heilongjiang, China.  
Ph. D. student in Physics.  
Supervisor: Prof. Haozhe Liu  
Oversea Co-supervisor: Prof. Ho-kwang (Dave) Mao
- Sep. 2007 – Sep. 2009 **Harbin Institute of Technology**, Harbin, Heilongjiang, China.  
M. S. in Physics.
- Sep. 2003 – Sep. 2007 **Heilongjiang University**, Harbin, Heilongjiang, China.  
B. S. in Physics.

### Research Experience:

- July 2009 – Present **Pair distribution function (PDF) studies for FeS melt and FeSiB metallic glass at high pressure and high temperature conditions.** This study will reveal the possible structure change in liquid FeS in the pressure range up to 50 GPa, which is critical for understanding sources of the large experimental discrepancy. The possible dynamics crystallization process for Fe base metallic glass doping with light elements such as Si and B will enrich our knowledge which may contribute to the corresponding model regarding the melt zone and the solid crystalline part of Earth's core.  
**Read related scientific papers in high pressure fields.**  
**Familiar with GSAS and Fit2D.**
- July 2009 **Participated in the International academic meeting.** Advanced Crystallography at High Pressure, Organized by IUCr Commission on High Pressure, 2009, Harbin, China.
- Dec. 2007 – July 2009 **Improvement of Porous Cathodes for Intermediate Temperature Solid Oxide Fuel Cells.**

## *Curriculum Vitae*

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The electrochemical performances of  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Zn}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$  (BSZF) and  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$  (BSCF) cathodes were improved via three novel methods i.e. adding IT-electrolyte, nano-sized metal particles and pressure compaction.

**Master's degree paper is named school first-class paper and a first author paper published in the Eleventh International Symposium on Solid Oxide Fuel Cells, 2009, Vienna.**

### **Awards/Recognition:**

- 2010 **Oversea Visiting Student Scholarship Award, supported by National China Scholarship Council.**
- 2009 **School Triple- A Student** (good in study, attitude and health).
- 2008 **Kwang-Hua Scholarship Award.**  
One of the two winners in Department of Physics, HIT.  
**Harbin Institute of Technology First-tier Scholarship Award.**
- 2007 **Harbin Institute of Technology First-tier Scholarship Award.**
- 2006 **Heilongjiang University Excellent Scholarship Award.**
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