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September 1997~July 2001

Wuhan University of Technology, Material Science Bachelor

September 2002~July 2005

Wuhan University of Technology, Materail Science Master

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Wuhan University of Technology, Material Science Ph.D Student

Research Realm:

New Energy Materials: Thermoelectric Materials

Curriculum included：

Solid State Physics, Modern Testing Technology, The Forefront of Materials Science, Numerical Calculation, Mathematical Statistics with Applications, Surface and Interface Analysis, New Ceramic Materials, New Energy Materials Research in Progress, Science and Technology of Nanomaterials

Main Papers in the last 24 months

1. **Han Li**, Xinfeng Tang, Xianli Su, and Qingjie Zhang, Preparation and thermoelectric properties of high-performance Sb additional $Yb_{0.2}Co_4Sb_{12+y}$ bulk materials with nanostructure. *Appl. Phys. Lett.* **92**, 202114 (2008).

2. **Han Li**, Xinfeng Tang, Qingjie Zhang, and Ctirad Uher, Rapid preparation method of bulk nanostructured $Yb_{0.3}Co_4Sb_{12+y}$ compounds and their improved thermoelectric performance. *Appl. Phys. Lett.* **93**, 252109 (2008).

3. **Han Li**, Xinfeng Tang, Qingjie Zhang, and Ctirad Uher, High performance $In_xCe_yCo_4Sb_{12}$ thermoelectric materials with *in-situ* forming nanostructured InSb phase. *Appl. Phys. Lett.* 94, 102114 (2009).

4. **Han Li**, Xinfeng Tang, Xianli Su, Qingjie Zhang, and Ctirad Uher, Nanostructured bulk $Yb_xCo_4Sb_{12}$ with high thermoelectric performance prepared by rapid solidification method. *J. Phys. D: Appl. Phys.* (2009) (Accepted).

5. **Li Han**, Tang Xin-Feng, Cao Wei-Qiang, and Zhang Qing-Jie, Quick preparation and thermal transport properties of nanostructured β-$FeSi_2$ bulk material. *Chinese Phys. B* **18**, 0287-06 (2009).

6. **Han Li**, Xinfeng Tang, Taoxiang Liu *et al*. Synthesis and Lattice Thermal Conductivity of Double Atoms Filling p-type $Ca_mCe_nFe_xCo_{4-x}Sb_{12}$ Compounds. *Key Eng. Mater.* **336-338,** 838-841(2007).

7. **H. LI**, X. TANG, and Q. ZHANG, The Microstructure and Thermoelectric Properties of Yb Filled Skutterudites Prepared by Rapid Solidification. *J. Electron. Mater.* (2009) (Accepted in March 21, 2009).

8. **Li, H.** Tang, X.F. Su, X.L. Cao, W.Q. Zhang, Q.J., The Preparation and Thermal Transport Property of Nanostructured Yb-filled $CoSb_3$ Induced by Melt Spinning Technique. *2007 26th International Conference on Thermoelectrics* 193-6 (2007).

9. Xinfeng Tang, Wenjie Xie, **Han Li** *et al*. Preparation and thermoelectric transport properties of high-performance p-type Bi_2Te_3 with layered nanostructure. *Appl. Phys. Lett.* **90**, 012102 (2007). (The first author is the doctoral advisor of applicant)

Presentations at national and international conferences

in the last 24 months

1. The Preparation and Thermal Transport Property of Nanostructured Yb-filled $CoSb_3$ Induced by Melt Spinning Technique. The 26th International Conference on Thermoelectrics, 3-7 Jun. 2007, Jeju, KOREA.
2. The Microstructure and Thermoelectric Properties of Yb Filled Skutterudites Prepared by Rapid Solidification. The 27th International Conference on Thermoelectrics, 2-7 Aug. 2008, Corvallis, Oregon, USA.
3. Thermoelectric properties of β-$FeSi_2$ prepared by melt-spinning and spark plasma sintering method. 7th Pacific Rim Conference on Ceramic and Glass Technology, 11-14 Nov. 2007, Shanghai, China.
4. Rapid preparation method of bulk nanostructured $Yb_{0.3}Co_4Sb_{12+y}$ compounds and their improved thermoelectric performance. 2008' China-Australia Tri-University Research Workshop on Advanced Engineering, 31 Oct ~2 Nov. 2008, Wuhan University of Technology, Wuhan, P. R. China.