

Papers in last 24 months

1. **Wenjie Xie**, Jian He, Hye Jung Kang, Xinfeng Tang, Song Zhu, Mark Laver, Shanyu Wang, John Copley, Craig Brown, Qingjie Zhang, and Terry M. Tritt, “Identifying the Specific Nanostructures Responsible for the High Thermoelectric Performance of (Bi,Sb)₂Te₃ Nanocomposites”, *Nano Letters*, **10**, 2010, **3283-3289**
2. **W. J. Xie**, J. He, S. Zhu, X. L. Su, S. Y. Wang, T. Holgate, J. W. Hubbard, V. Ponnambalam, S. J. Poon, X. F. Tang, Q. J. Zhang, and T. M. Tritt, “Simultaneously Optimizing the Independent Thermoelectric properties in (Ti,Zr,Hf)(Co,Ni)Sb Alloy by *In-situ* Forming InSb Nanoinclusions”, *Acta Materialia*, **58**, 2010, **4705–4713**
3. **Wenjie Xie**, Song Zhu, Xinfeng Tang, Jian He, Yonggao Yan, V. Ponnambalam, Qingjie Zhang, S. Joseph Poon and Terry Tritt, “Synthesis and thermoelectric properties of (Ti,Zr,Hf)(Co,Pd)Sb half-Heusler Synthesis compound”, *J. Phys. D: Appl. Phys.* **42**, 2009, **235407**
4. **Wenjie Xie**, Xinfeng Tang, Qingjie Zhang and Terry M. Tritt, “High Thermoelectric Performance BiSbTe Alloy with Unique Low-Dimensional Structure”, *J. Appl. Phys.*, **105**, 2009, **113713**.
5. **Wenjie Xie**, Song Zhu, Shanyu Wang, Xinfeng Tang, Qingjie Zhang, and Terry M. Tritt. “Investigation of the sintering pressure and thermal conductivity anisotropy of melt-spun spark-plasma-sintered (Bi,Sb)₂Te₃ thermoelectric materials”, *J. Mater. Res.* (in press)
6. Shanyu Wang, **Wenjie Xie**, Han Li, and Xinfeng Tang, “High Performance *n*-type (Bi,Sb)₂(Te,Se)₃ for low Thermoelectric Generator”, *J. Phys. D: Appl. Phys.* **43**, 2010, **335404**
7. Shanyu Wang, **Wenjie Xie**, Han Li, Xinfeng Tang, and Qingjie Zhang, “Melt spun Bi₂Te₃ with high performances for *n*-type thermoelectric legs”, *Intermetallics*, **19**, 2011, **1024-1031**.
8. Song Zhu, **Wenjie Xie**, Menghan Zhou, Jian He and Terry M. Tritt Interplay of Electron Correlation, Indium Doping and Nanostructuring Process in Thermoelectric Study of FeSb₂, *J. Mater. Res.* (in press)
9. Shanyu Wang, **Wenjie Xie**, Han Li, and Xinfeng Tang, “The effects of cooling rate on the thermoelectric properties of Bi₂(Se_{0.4}Te_{0.6})₃ compounds”, *J. Elec. Mater.* **40**, 2011, **1150**.