

## References

- Fahrnbauer, F., Souchay, D., Wagner, G., & Oeckler, O. (2015). High Thermoelectric Figure of Merit Values of Germanium Antimony Tellurides with Kinetically Stable Cobalt Germanide Precipitates. *Journal of the American Chemical Society*, *137*(39), 12633–12638. doi: 10.1021/jacs.5b07856
- Kosuga, A., Nakai, K., Matsuzawa, M., Fujii, Y., Funahashi, R., Tachizawa, T., . . . Kifune, K. (2015). Crystal structure, microstructure, and thermoelectric properties of GeSb<sub>6</sub>Te<sub>10</sub> prepared by spark plasma sintering. *Journal of Alloys and Compounds*, *618*, 463–468. doi: <http://dx.doi.org/10.1016/j.jallcom.2014.08.183>
- Kosyakov, V. I., Shestakov, V. A., Shelimova, L. E., Kuznetsov, F. A., & Zemskov, V. S. (2000). Topological characterization of the Ge–Sb–Te phase diagram. *Inorganic Materials*, *36*(10), 1004–1017. doi: 10.1007/BF02757976
- Rowe, D. M. (2005). *Thermoelectrics handbook: macro to nano*: CRC press.
- Shelimova, L. E., Karpinskii, O. G., Zemskov, V. S., & Konstantinov, P. P. (2000). Structural and electrical properties of layered tetradymite-like compounds in the GeTe–Bi<sub>2</sub>Te<sub>3</sub> and GeTe–Sb<sub>2</sub>Te<sub>3</sub> systems. *Inorganic Materials*, *36*(3), 235–242. doi: 10.1007/BF02757928
- Baranowski, L. L., Jeffrey Snyder, G., & Toberer, E. S. (2013). Effective thermal conductivity in thermoelectric materials. *Journal of applied physics*, *113*(20), 204904.
- Glosch, H., Ashauer, M., Pfeiffer, U., & Lang, W. (1999). A thermoelectric converter for energy supply. *Sensors and Actuators A: Physical*, *74*(1), 246–250.
- Kifune, K., Fujita, T., Kubota, Y., Yamada, N., & Matsunaga, T. (2011). Crystallization of the chalcogenide compound Sb<sub>8</sub>Te<sub>3</sub>. *Acta Crystallographica Section B*, *67*(5), 381–385. doi: 10.1107/S0108768111033738

- Kim, I.-H. (2000). (Bi, Sb) 2 (Te, Se) 3-based thin film thermoelectric generators. *Materials letters*, 43(5), 221–224.
- Kosuga, A., Nakai, K., Matsuzawa, M., Fujii, Y., Funahashi, R., Tachizawa, T., . . . Kifune, K. (2015a). Crystal structure, microstructure, and thermoelectric properties of GeSb<sub>6</sub>Te<sub>10</sub> prepared by spark plasma sintering. *Journal of Alloys and Compounds*, 618, 463–468. doi: <http://dx.doi.org/10.1016/j.jallcom.2014.08.183>
- Kosuga, A., Nakai, K., Matsuzawa, M., Fujii, Y., Funahashi, R., Tachizawa, T., . . . Kifune, K. (2015b). Crystal structure, microstructure, and thermoelectric properties of GeSb<sub>6</sub>Te<sub>10</sub> prepared by spark plasma sintering. *Journal of Alloys and Compounds*, 618, 463–468.
- Kosyakov, V. I., Shestakov, V. A., Shelimova, L. E., Kuznetsov, F. A., & Zemskov, V. S. (2000). Topological characterization of the Ge–Sb–Te phase diagram. *Inorganic Materials*, 36(10), 1004–1017. doi: 10.1007/BF02757976
- Matsunaga, T., & Yamada, N. (2004). Structural investigation of GeSb<sub>2</sub>Te<sub>4</sub>: A high-speed phase-change material. *Physical Review B*, 69(10), 104111.
- Morales-Sanchez, E., Prokhorov, E., Mendoza-Galván, A., & González-Hernández, J. (2002). Determination of the glass transition and nucleation temperatures in Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub> sputtered films. *Journal of applied physics*, 91(2), 697–702.
- Namhongsá, W., Omoto, T., Fujii, Y., Seetawan, T., & Kosuga, A. (2017). Effect of the crystal structure on the electronic structure and electrical properties of thermoelectric GeSb<sub>6</sub>Te<sub>10</sub> prepared by hot pressing. *Scripta Materialia*, 133, 96–100.
- Perumal, K. (2013). *Epitaxial growth of Ge–Sb–Te based phase change materials*. Humboldt–Universität zu Berlin, Mathematisch–Naturwissenschaftliche Fakultät I.
- Riffat, S. B., & Ma, X. (2003). Thermoelectrics: a review of present and potential applications. *Applied thermal engineering*, 23(8), 913–935.

- Rosenthal, T., Schneider, M. N., Stiewe, C., Döblinger, M., & Oeckler, O. (2011). Real Structure and Thermoelectric Properties of GeTe–Rich Germanium Antimony Tellurides. *Chemistry of Materials*, 23(19), 4349–4356. doi: 10.1021/cm201717z
- Rowe, D. M. (1999). Thermoelectrics, an environmentally–friendly source of electrical power. *Renewable Energy*, 16(1–4), 1251–1256.
- Rowe, D. M. (2005). *Thermoelectrics handbook: macro to nano*: CRC press.
- Sankar, R., Wong, D. P., Chi, C.–S., Chien, W.–L., Hwang, J.–S., Chou, F.–C., . . . Chen, K.–H. (2015). Enhanced thermoelectric performance of GeTe–rich germanium antimony tellurides through the control of composition and structure. *CrystEngComm*, 17(18), 3440–3445. doi: 10.1039/C5CE00228A
- Shelimova, L. E., Karpinskii, O. G., Zemskov, V. S., & Konstantinov, P. P. (2000). Structural and electrical properties of layered tetradymite–like compounds in the GeTe–Bi<sub>2</sub>Te<sub>3</sub> and GeTe–Sb<sub>2</sub>Te<sub>3</sub> systems. *Inorganic Materials*, 36(3), 235–242. doi: 10.1007/BF02757928
- Yan, F., Zhu, T., Zhao, X., & Dong, S. (2007). Microstructures and thermoelectric properties of GeSbTe based layered compounds. *Applied Physics A: Materials Science & Processing*, 88(2), 425–428.
- Yodovard, P., Khedari, J., & Hirunlabh, J. (2001). The potential of waste heat thermoelectric power generation from diesel cycle and gas turbine cogeneration plants. *Energy sources*, 23(3), 213–224.
- Acott, C. (1999). "The diving "Law–ers": A brief resume of their lives." *South Pacific Underwater Medicine Society journal*, 29(1).
- Andrea [Dal Corso] and Stefano de Gironcoli and Stefano Fabris and Guido Fratesi and Ralph Gebauer and Uwe Gerstmann and Christos Gougoussis and Anton Kokalj and Michele Lazzeri and Layla Martin–Samos and Nicola Marzari and Francesco Mauri and Riccardo Mazzarello and Stefano Paolini and Alfredo Pasquarello and Lorenzo

- Paulatto and Carlo Sbraccia and Sandro Scandolo and Gabriele Sclauzero and Ari P Seitsonen and Alexander Smogunov and Paolo Umari and Renata M Wentzcovitch], P. G. a. S. B. a. N. B. a. M. C. a. R. C. a. C. C. a. D. C. a. G. L. C. a. M. C. a. I. D. a. (2009). QUANTUM ESPRESSO: a modular and open-source software project for quantum simulations of materials. *Journal of Physics: Condensed Matter*,, 21, 395502 (395519pp).
- Kosuga, A., Nakai, K., Matsuzawa, M., Fujii, Y., Funahashi, R., Tachizawa, T., . . . Kifune, K. (2015). Crystal structure, microstructure, and thermoelectric properties of GeSb<sub>6</sub>Te<sub>10</sub> prepared by spark plasma sintering. *Journal of Alloys and Compounds*, 618, 463–468.
- Madsen, G. K., & Singh, D. J. (2006). BoltzTraP. A code for calculating band-structure dependent quantities. *Computer Physics Communications*, 175(1), 67–71.
- Murasawa, N., Koseki, H., Li, X.-R., Iwata, Y., & Sakamoto, T. (2012). Study on thermal behaviour and risk assessment of biomass fuels. *International Journal of Energy Engineering*, 2(5), 242–252.
- Myers, H. P. (2002). Introductory Solid State Physics. *Taylor & Francis*.
- Nemoto, T., Iida, T., Sato, J., Sakamoto, T., Nakajima, T., & Takanashi, Y. (2012). Power Generation Characteristics of Mg<sub>2</sub>Si Uni-Leg Thermoelectric Generator. *Journal of electronic materials*, 41(6), 1312–1316.
- Overview, D. D. (2013). Advanced X-ray Diffraction System for Materials Research Applications.
- Pandian, M. S. (2014). X-ray Diffraction Analysis: Principle, Instrument and Applications.
- Rowe, D. M. (2005). *Thermoelectrics handbook: macro to nano*: CRC press.
- Setyawan, W., & Curtarolo, S. (2010). High-throughput electronic band structure calculations: Challenges and tools. *Computational Materials Science*, 49(2), 299–312. doi: <http://dx.doi.org/10.1016/j.commatsci.2010.05.010>

Snyder, G. J. (2008). Small thermoelectric generators. *The Electrochemical Society Interface*, 17(3), 54.

Yavorsky, B. Y., Hinsche, N. F., Mertig, I., & Zahn, P. (2011). Electronic structure and transport anisotropy of  $\text{Bi}_{1-x}\text{Sb}_x\text{Te}_3$  and  $\text{Sb}_{1-x}\text{Bi}_x\text{Te}_3$ . *Physical Review B*, 84(16), 165208.

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