

## References

- [1] U. Birkholz, E. Groß and U. Stöhrer. CRC Handbook of Thermoelectrics (Edited by D. M. Rowe). USA: CRC press, 1995.
- [2] B. S. Mann. Transverse Thermoelectric Effects for Cooling and Heat Flux Sensing. Master's Thesis, Department of science, Virginia Polytechnic Institute and State University, 2006.
- [3] M. Umemoto. Preparation of Thermoelectric  $\beta$ -FeSi<sub>2</sub> Doped with Al and Mn by Mechanical Alloying (Overview). Materials Transactions **36** (1995): 375-383.
- [4] T. Higashi, T. Nagase and I. Yamauchi. Long period structure of  $\beta$ -FeSi<sub>2</sub>. Journal of Alloys and Compounds **399** (2002): 96-99.
- [5] S. C. Ur and I. H. Kim. Phase transformation and thermoelectric properties of n-type Fe<sub>0.98</sub>Co<sub>0.02</sub>Si<sub>2</sub> processed by mechanical alloying. Materials Letter **57** (2002): 543-551.
- [6] M. J. Sinnott. The solid state for engineers. Japan: John Wiley & Sons, 1958.
- [7] L. Lu and M. O. Lai. Mechaical Alloy. USA: Kluwer Academic, 1998.
- [8] B. G. Min, J. D. Shim and D. H. Lee. Thermoelectric Properties of Co-doped n-type Iron Silicides Prepared by Mechanical Alloying. Proc. 17<sup>th</sup> International Conference on Thermoelectric, pp. 386-389. Japan, 1998.
- [9] S. W. Kim, M. K. Cho, Y. Mishima and D. C. Choi. High temperature thermoelectric properties of p- and n-type  $\beta$ -FeSi<sub>2</sub> with some dopants. Intermetallics **11** (2003): 399-405.
- [10] Y. Isoda, Y. Imai and Y. Shinohara. The Effect of Crystal Grain Size on Thermoelectric Properties of Sintered  $\beta$ -FeSi<sub>2</sub>. Proc. 21<sup>st</sup> International Conference on Thermoelectrics, pp. 102-105. USA, 2002.

- [11] Geometric factors in four point resistivity measurement [File No. 472.]. Haldor Topsøe Research Laboratory, Denmark, 1968.
- [12] S. Baik. Mechanosynthesis and Sintering of Fe-based Ferromagnetic Materials, Master's Thesis, Graduate School, Kyungpook National University, 2002.
- [13] A. D. Krawitz, Introduction to diffraction materials Science and engineering. New York: Wiley, 2001.
- [14] S. P. Keller, Handbook on semiconductors. Netherlands, North-Holland, 1980.
- [15] M. Ito, H. Nagai, E. Oda, S. Katsuyama and K. Majima. Effect of P doping on the thermoelectric properties of  $\beta$ -FeSi<sub>2</sub>. Journal of Applied Physics **91** (2002): 2138-2142.
- [16] W.Cho, K. Park and Y. Yoon. Thermoelectric properties of thermoelectric modules consisted of porous FeSi<sub>2</sub> based compounds fabricated by pressureless sintering. Materials Science & Engineering B **76** (2000): 200-205.
- [17] G. S. Nolas, J. Sharp, H. J. Goldsmid. Thermoelectrics Basic Principles and New Materials Development. Germany: Springer Verlag, 2001.
- [18] K. W. Böer. Survey of semiconductor physics. USA: Van Nostrand Reinhold, 1990.
- [19] I. A. Gunea. Study of the phenomenon of microsuperplasticity in IN-9021 Aluminum alloy, Master's Thesis, Department of science, Calgary University, 1997.

## VITAE

Jamreonta Parinyataramas was born on 23<sup>rd</sup> November 1980 in Bangkok, Thailand. She has been a student in the Development and Promotion for Science and Technology Talents Project (DPST). She received a Bachelor degree of Science in Physics from Silpakorn University in 2002, and study the Master degree at Chulalongkorn University in 2003.

### Conference Presentations:

1. Jamreonta Parinyataramas, Somchai Kiatgamolchai, Siripan Nilpairach, Adisak Thueploy and Jumpot Wanichsampan, "SYNTHESIS OF COBALT DOPED FeSi<sub>2</sub> BY MECHANICAL ALLOYING" *The 5<sup>th</sup> National Symposium on graduate Research*, Kasetsart University of the Graduate School, October 10-11, (2005).
2. Jamreonta Parinyataramas, Somchai Kiatgamolchai, Siripan Nilpairach, Adisak Thueploy and Jumpot Wanichsampan, "SYNTHESIS OF COBALT DOPED Fe-Si ALLOY BY MECHANICAL ALLOYING" *31<sup>st</sup> Congress on science and Technology of Thailand (STT 2005)*, Suranaree University of Technology, Nakorn Ratchasima, Thailand, October 18-20, (2005).