

2009 — TANAKA Toshihiro

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1. S. Kawanishi, T. Yoshikawa and T. Tanaka, Equilibrium Phase Relationship between SiC and a Liquid Phase in the Fe-Si-C System at 1523 - 1723 K, *Materials Transaction*, Vol.50, No.4, 806-813. 2009
2. T. Yoshikawa, S. Kawanishi and T. Tanaka, Fundamental study for solvent growth of silicon carbide utilizing Fe-Si melt, *Journal of Physics: Conference Series*, Vol.165, p.012022, 2009
3. T. Tanaka, T. Yoshikawa, N. Hirai and S. Katsuyama, Hydrothermal metallurgy for recycling of slag and glass, *Journal of Physics: Conference Series*, Vol.165, p.012077, 2009
4. M. Suzuki and T. Tanaka, Prediction of phase separation in multi-component oxide glass for the fabrication of porous glass materials from waste slag, *Journal of Physics: Conference Series*, Vol.165, p.012078, 2009
5. A. Fukuda, T. Yoshikawa and T. Tanaka, A fundamental approach for the measurement of solid-liquid interfacial energy, *Journal of Physics: Conference Series*, Vol.165, p.012079, 2009
6. N. Hirai, T. Yokogawa and T. Tanaka, In-situ EC-AFM Observations upon Decay of Nano-Islands on Au(100) Electrodes in 1-Butyl-3-Methyl-Imidazolium Room Temperature Molten Salts; BMImBF₄ and BMImTFSI, *Electrochemistry*, Vol.77, No.8, 680-682. 2009
7. S.-J.Tae, T. Tanaka and K. Morita, Effect of Microwave Irradiation on Hydrothermal Treatment of Blast Furnace Slag, *ISIJ International*, Vol. 49, No.8, 1259-1264. 2009
8. J. Lee, J. Lee, T. Tanaka and H. Mori, In situ atomic-scale observation of melting point suppression in nanometer-sized gold particles, *Nanotechnology*, Vol. 20, 475706, 2009
9. N. Hirai, S. Kubo and K. Magara, Combined cyclic voltammetry and in situ electrochemical atomic force microscopy on lead electrode in sulfuric acid solution with or without lignosulfonate, *Journal of Power Sources*, Vol. 191, 97-102, 2009
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11. T. Yoshikawa, K. Morita, S. Kawanishi and T. Tanaka, Thermodynamics of Impurity Elements in Solid Silicon, *Journal of Alloys and Compounds*, Vol.490, 31–41, 2010
12. Masashi Nakamoto, Erkki Heikinheimo, Marko Kekkonen, Michael Friman, Lauri Holappa, Melting behavior of Sn-Bi alloy powder compacts observed using optical dilatometry, *International Journal of Materials Research*, 677-683, 2009
13. Masashi Nakamoto, Matti Liukkonen, Michael Friman, Erkki Heikinheimo, Marko Hämäläinen, Lauri Holappa and Takaiku Yamamoto, Novel multiphase equilibrium method using an

Na₂O–SiO₂ Droplet, Scripta Materialia, 62, 871-874, 2010

14. S.Katsuyama and T.Kobayashi, Effect of mechanical milling on thermoelectric properties of half-Heusler ZrNiSn_{0.98}Sb_{0.02} intermetallic compound, Materials Science and Engineering B, 166, 99-103, 2010

International Conference Proceedings

1. S.-J. Tae, T. Adachi, T. Tanaka and K. Morita, Estimation of Environmental Credit for Recycling Blast Furnace Slag with a Hydrothermal Reaction on LCA, Proceedings of Asia Steel 2009, S10-07. 2009
2. M. Suzuki and T. Tanaka, Materials Design for Producing Functional Porous Glass using Phase Separation in Multi-component Oxide Glass, Proceedings of Asia Steel 2009, S10-09, 2009
3. T. Tanaka, M. Ohmachi and M. Ueda, Effective Usage of Solid CaO to Refining in Steelmaking, Proceedings of Asia Steel 2009, S3-40. 2009
4. T. Tanaka, Evaluation of dynamic wettability of liquid Zn with steel sheets containing Si and Mn, Proc. of The Asia-Pacific Galvanizing Conference 2009, A-31. 2009
5. Masashi Nakamoto, Shingo Tagaki, Takaiku Yamamoto and Toshihiro Tanaka, Sustainable Valuable Metals and Steels by Two Immiscible Liquid Phases, ISISD2010, 144-146, 2010