

2008 — TANAKA Toshihiro

Scientific Papers/Commentary Articles

1. T. Yoshikawa, S. Sato and T. Tanaka, Fabrication of low temperature foaming glass materials using hydrothermal treatment, *ISIJ International*, 48(2), 130-133, 2008
2. S. Sato, T. Yoshikawa, M. Nakamoto, T. Tanaka and J. Ikeda, Application of hydrothermal treatment on BF slag and waste glass for preparing lubricant materials in high strain rolling for ultrafine-grained steel production, *ISIJ International*, 48(2), 245-250, 2008
3. M. Suzuki and T. Tanaka, Composition dependence of microstructures formed by phase separation in multi-component silicate glass, *ISIJ International*, 48(4), 405-411, 2008
4. T. Yoshikawa, M. Hosokawa and T. Tanaka, MgO Effect on the Hydrothermal Solidification of Blast Furnace Slag, *ISIJ International*, 48(5), 564-569, 2008
5. S. Shimada, Y. Takada, J. Lee and T. Tanaka, Trial to Evaluate Wettability of Liquid Zn with Steel Sheets Containing Si and Mn, *ISIJ International*, 48(9), 1246-1250, 2008
6. T. Yoshikawa, S. Hirano, N. Hirai and T. Tanaka, Preparation of Porous Ceramics by the Hydrothermal Reaction of Blast Furnace Slag for Use in a Water-retentive Materials, *ISIJ International*, 48(9), 1322-1324, 2008
7. M. Suzuki and T. Tanaka, Materials design for the fabrication of porous glass using phase separation in multi-component borosilicate glass, *ISIJ International*, 48(9), 1524-1532, 2008
8. S. Katsuyama, Y. Takiguchi and M. Ito, Synthesis of $\text{Ca}_3\text{Co}_4\text{O}_9$ Ceramics by Polymerized Complex and Hydrothermal Hot-Pressing Processes and Investigation of its Thermoelectric Properties, *J. Mat. Sci.*, 43(10), 3553-3559, 2008
9. S. Katsuyama, H. Okada and K. Miyajima, Thermoelectric Properties of $\text{CeFe}_3\text{CoSb}_{12}\text{-MoO}_2$ Composite, *Materials Transactions*, 49(8), 1731-1736, 2008
10. K. Sawai, Y. Tsuboi, M. Shiota, N. Hirai and S. Osumi, Corrosion of Pb-Ca-Sn alloy during potential step cycles, *J. Power Sources*, 175(1), 604-612, 2008
11. Y. Takada, S. Shimada, J. Lee, M. Kurosaki and T. Tanaka, "The effect of Si and Mn content on dynamic wetting of steel with liquid Zn", *ISIJ International*, 49(1), 100-104, 2009
12. Y. Miyabayashi, M Nakamoto, T. Tanaka and T. Yamamoto, "A Model for Estimating Viscosity of Molten Aluminosilicate Containing Calcium fluoride", *ISIJ International*, 49(3), 343-348, 2009

International Conference Proceedings

1. T. Tanaka and T. Yoshikawa, Application of Hydrothermal Reaction to Recycling of BF Slag and

- Waste Glass, Proc. of SCANMET III - 3rd International Conference on Process Development in Iron and Steelmaking, 8-11, 83-92, 2008
2. T. Yoshikawa, S. Sato and T. Tanaka, Preparation of Low-temperature Foaming Glass by the hydrothermal Treatment of SiO₂-Na₂O-B₂O₃ glass, Proc. of the 47th conference of metallurgists; WALSIM. Water, Air and Land: Sustainability Issues in Mineral and Metal Extraction, Winnipeg, Manitoba, Canada, Published by Canadian Institute of Mining, Metallurgy and Petroleum, 57-66, 2008
 3. T. Tanaka, T. Yoshikawa and N. Hirai, Hydrothermal Slag/Glass Chemistry, Proc. of the 47th conference of metallurgists; WALSIM. Water, Air and Land: Sustainability Issues in Mineral and Metal Extraction, Winnipeg, Manitoba, Canada, Published by Canadian Institute of Mining, Metallurgy and Petroleum, 67-76, 2008
 4. M. Suzuki and T. Tanaka, Prediction of Phase separation in Multi-Component Oxide Glass to Fabricate Functional Porous Glass Materials from Waste Slag, Proc. of the 47th conference of metallurgists; WALSIM. Water, Air and Land: Sustainability Issues in Mineral and Metal Extraction, Winnipeg, Manitoba, Canada, Published by Canadian Institute of Mining, Metallurgy and Petroleum, 77-86, 2008
 5. T. Tanaka, Capillary Refining in Steelmaking Process, Proc. of SANO Symposium Proceedings, 78-83, 2008
 6. T. Tanaka, Application of Capillary Refining to De-P and De-S of Liquid Iron Alloy, Proc. of 13th VDEh-ISIJ joint meeting of New Scope of Iron and Steelmaking Consistent with Environment], 176-182, 2008
 7. M. Suzuki and T. Tanaka, Prediction of Phase Separation in Multi-component Silicate Glass for Creating Porous Glass Materials from Waste Slag, Proc. of the 4th Intern. Congress on the Science and Technology of Steelmaking, 575-578, 2008
 8. K. Morita and T. Yoshikawa, Low Temperature Solidification Refining of Solar Grade Silicon using Si-Al Solvent, Proc. for the Silicon for the Chemical and Solar Industry XI, 51-59, 2008
 9. N. Hirai, Y. Kimura, H. Vermesan, S. Kubo and K. Magara, Behavior of Lignosulfonate on Electrochemical Reaction on Lead Electrode in Sulfuric Acid Solution, Proc. of 7th Inter. Conf. on Lead Acid Batteries, 175-178, 2008
 10. N. Hirai, T. Yokogawa, T. Tanaka, In-situ EC-AFM Observation upon Decay of Nano-Islands on Au(100) Electrode in 1-Butyl-3-Methyl-Imidazolium Room Temperature Molten Salt, Proc. of 2008 Joint Symposium on Molten Salts, 976-981, 2008
 11. T. Tanaka, T. Yoshikawa and M. Suzuki, Design of Porous Glass & Slag Materials and its Application to Refining, Proc. of the VIII International Conf. On Molten Slag, Fluxes and Salts, 555-564, 2009

Awards

1. M. Suzuki, T. Tanaka, Student Poster Award in the 6th International Conference on Borate Glasses, Crystals and Melts, 2008/8/19