

## 2007 — TANAKA Toshihiro

### Scientific Papers/Commentary Articles

1. M. Hanao, T. Tanaka, M. Kawamoto and K. Takatani, Evaluation of surface tension of molten slag in multi-component, ISIJ International, Vol.47, No.7, 935, 2007
2. M. Nakamoto, M. Hanao, T. Tanaka, M. Kawamoto, L. Holappa and M. Hamalainen, Estimation of Surface Tension of Molten Silicates using Neural Network Computation, ISIJ International, Vol.47, No.8, 1075-1081, 2007
3. M. Nakamoto, Y. Miyabayashi, L. Holappa and T. Tanaka, A Model for Estimation of Viscosity of Molten Aluminosilicate Containing Alkali Oxides, ISIJ International, Vol.47, No.10, 1409-1415, 2007
4. T. Yoshikawa, S. Sato and T. Tanaka, Fabrication of low temperature forming glass materials using, ISIJ International, Vol.48, No.2, 130-133, 2008
5. S. Sato, T. Yoshikawa, M. Nakamoto, T. Tanaka, 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, Vol.48, No2, 245-250, 2008
6. T. Yoshikawa, S. Sato and T. Tanaka, Fabrication of low temperature foaming glass materials using hydrothermal treatment, Materials Science Forum, Vols.561-565, 1673-1676, 2007
7. N. Takahira, T. Yoshikawa and T. Tanaka, Unusual Wetting Behavior of Liquid Metals on Porous layer formed at Surface of Iron Substrate prepared by Oxidation-Reaction Process, Materials Science Forum, Vols.561-565, 1699-1701, 2007
8. M. Nakamoto, Y. Miyabayashi, L. Holappa and T. Tanaka, A Model for Estimation of Viscosity of Molten Aluminosilicate Containing Alkali Oxides, ISIJ International, Vol.47, No.10, 1409-1415, 2007
9. Y. TSUKAGUCHI,1, O. NAKAMURA, P. JÖNSSON, S. YOKOYA,3, T. TANAKA and S. HARA, Design of swirling flow submerged entry nozzles for optimal head consumption between tundish and mold, ISIJ International, ISIJ International, Vol.47, No.10, 1436, 2007
10. N. Takahira, T. Yoshikawa, T. Tanaka and L. Holappa, Unusual Wetting of Liquid Bismuth on a Surface-Porous Copper Substrate Fabricated by Oxidation-Reduction Process, Materials Transaction, Vol.48, 3126-3131, 2007
11. N. Takahira, T. Yoshikawa, T. Tanaka and L. Holappa, Wettability of Liquid In and Bi on Flat and Porous Solid Iron Substrate, Materials Transaction, Vol.48, 2708-2711, 2007
12. J. Lee, K. Seo, N. Hirai, N. Takahira and T. Tanaka, Intrinsic Contact Angle and Contact Interaction between Liquid Silver and Solid Graphite, Metals and Materials International, Vol.13, No.2, 83-86, 2007

13. H. Kawabata, B. Yabunaka, M. Tanabe, T. Usui, K. Marukawa, S. Hara and T. Tanaka, Simple removal of dioxins by injecting combustion gas into water, *J. Mater. Cycles Waste*, Vol.9, 80-89, 2007
14. J. Lee, T. Tanaka, J. Lee and H. Mori, "Effect of substrates on the melting temperature of gold nanoparticles", *Calphad*, Vol.31, 105-111, 2007
15. M. Nakamoto, T. Tanaka, L. Holappa and M. Hamalainen, Surface Tension Evaluation of Molten Silicates Containing Surface-Active Components (B<sub>2</sub>O<sub>3</sub>, CaF<sub>2</sub> or Na<sub>2</sub>), *ISIJ International*, Vol.47, No.2, 211-216, 2007
16. M. Nakamoto, A. Kiyose, T. Tanaka, L. Holappa and M. Hamalainen, Evaluation of the surface tension of ternary silicate melts containing Al<sub>2</sub>O<sub>3</sub>, CaO, FeO, MgO or MnO, *ISIJ International*, Vol.47, No.1, 38-43, 2007
17. K. Sawai, Y. Tsuboi, M. Shiota, N. Hirai and S. Osumi, Corrosion of Pb-Ca-Sn alloy during potential step cycles, *Journal of Power Sources*, Vol.175, 604-612, 2008
18. H. Vermesan, N. Hirai, Contributions regarding the oxidation/reduction mechanism in the lead/sulphuric acid system in the presence of the barium sulphate, *Revista de Chimie*, Vol.58, No.12, 1221-1225, 2007
19. N. Takahira and T. Tanaka, "Effect of Iron Substrate on Educated Porous Morphologies Adequate for Unusual Wetting", *Materials Transactions*, Vol.48, No.8, 2179-2185, 2007

#### **International Conference Proceedings**

1. T. Tanaka, M. Ueda, Y. Ogiso and M. Ohmachi, Trial of Capillary Refining in Steelmaking Process, *Proc. International Conference on ADVANCES IN METALLURGICAL PROCESSES AND MATERIALS*, Dnipropetrovsk, Ukraine, 409-415, 2007
2. T. Tanaka, N. Hirai, T. Yoshikawa, M. Nakamoto, S. Maeda and M. Hosokawa, Hydrothermal Slag Chemistry, *Proc. 1st Intern. Symp. on Aqua Science, Water Resource and Innovation Development of Countryside*", Kochi, Japan, 71-76, 2007
3. T. Yoshikawa, T. Tanaka, S. J. Tae, N. Hirai and K. Morita, Fundamental Investigation on Hydrothermal Treatments for Detoxifying Asbestos by Using Waste Slag and Glass, *Proc. 1st Intern. Symp. on Aqua Science, Water Resource and Innovation Development of Countryside*", Kochi, Japan, 119-122, 2007
4. T. Yoshikawa, M. Hosokawa and T. Tanaka, Effect of MgO on the Hydrothermal Solidification of Blast Furnace Slag, *Proc. 1st Intern. Symp. on Aqua Science, Water Resource and Innovation Development of Countryside*", Kochi, Japan, 245-258, 2007
5. S. Sato, T. Yoshikawa and T. Tanaka, Invention of foaming glass material utilizing hydrothermal treatment, *Proc. 1st Intern. Symp. on Aqua Science, Water Resource and Innovation Development of Countryside*", Kochi, Japan, 259-262, 2007

Development of Countryside", Kochi, Japan, 249-252, 2007

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