

2009 年度業績 —永瀬 丈嗣

学術論文・解説記事

1. T. Nagase, K. Kinoshita, T. Nakano and Y. Umakoshi, Fabrication of Ti-Zr binary metallic wire by arc-melt-type melt-extraction method, *Materials Transactions*, 50, 872-878, 2009
2. T. Nagase, T. Hosokawa, K. Takizawa and Y. Umakoshi, Electron-irradiation-induced nano-crystallization in quasicrystal-forming Zr-based metallic glass, *Intermetallics*, 17, 657-668, 2009
3. T. Nagase, K. Takizawa, M. Nakamura, H. Mori and Y. Umakoshi, Amorphization and subsequent crystallization in Zr_{66.7}Ni_{33.3} alloy under MeV electron irradiation, *Journal of Physics: Conference Series*, 165, 012075 1-6, 2009
4. T. Nagase, M. Ueda and Y. Umakoshi, Preparation of Ni-Nb-based Metallic Glass Wires by Arc-Melt-Type Melt-Extraction Method, *Journal of alloys and compounds*, 485, 304-312, 2009
5. T. Nagase, K. Kinoshita, T. Nakano, Y. Umakoshi and M. Niinomi, Preparation of Ti-based and Zr-based bio-metallic wires by arc-melting type melt-extraction method, *Materials Science Forum*, 638-642, 2172-2132, 2010
6. T. Nagase, T. Nakano, Y. Umakoshi and M. Niinomi, Fabrication of Beta-Ti-Type Ti-Nb-Ta-Zr (TNTZ) Wire with High-Ductility by Arc-Melt-Type Melt-Extraction Method, *Materials Transactions*, 51, 377-380, 2010
7. T. Nagase, K. Takizawa, M. Wakeda, Y. Shibutani and Y. Umakoshi, Electron irradiation-induced solid-state amorphization caused by thermal relaxation of lattice defects, *Intermetallics*, 18, 441-450, 2010
8. T. Nagase, A. Yokoyama and Y. Umakoshi, Multi-Scale Crystalline Cu Globule Dispersed Fe-Based Metallic Glass Formation by Multi-Step Liquid Phase Separation, *Journal of alloys and compounds*, 494, 295-300, 2010
9. T. Nagase and Y. Umakoshi, Formation of melt-extracted wire of Fe-Cu-Si-B alloy with core-wire/surface-cover-layer structure by arc-melt-type melt-extraction method, *Journal of alloys and compounds*, 495, L1-L4, 2010
10. T. Nagase, T. Hosokawa and Y. Umakoshi, Temperature dependence of MeV-electron-irradiation-induced nanocrystallization in Zr-Pt metallic glass, *Intermetallics*, 18, 767-772, 2010
11. 永瀬丈嗣, 第3回本会派遣 JIM/TMS Young Leader International Scholar 出張報告, 日本金属学会会報「まてりあ」, 48, 327, 2009
12. 永瀬丈嗣, 仁野章弘, 馬越佑吉, MeV 電子照射アモルファス化を利用した合金の組織観察, 日本金属学会会報「まてりあ」, 48, 607, 2009

13. 永瀬丈嗣, 金属ガラスの極低温電子照射に対する安定性, 大阪大学低温センターだより, 148, 10-12, 2009

国際会議プロシーディングス

1. T. Nagase, K. Takizawa, A. Nino, and Y. Umakoshi, Electron Irradiation Induced Crystal-to-amorphous-to-crystal (C-A-C) Transition in Intermetallic Compounds, MRS Symposium Proceedings, 1128, U05-49 1-6, 2009

受賞

1. 永瀬丈嗣, 大阪大学 教育・研究功績賞, 2010.2.16

シンポジウム開催状況

1. Workshop on the bases of metallic glass, 主な招待講演者 : Takeshi Egami(ORNL, Tennessee Univ., USA), Yoshihiko Yokoyama (Tohoku Univ.), Tetsu Ichitsubo (Kyoto Univ.), 参加人数 10 (外国人参加者数 1)