

2008 — ARAKI Hideki

Scientific Papers/Commentary Articles

1. Masataka Mizuno, Hideki Araki, Yasuharu Shirai, First-principles study of vacancy formation in LaNi₅, *Journal of Physics: Condensed Matter*, 20, 275232-1 – 275232-5, 2008
2. Kazuki Sugita, Masataka Mizuno, Hideki Araki, Yasuharu Shirai, Electronic Structure and Bonding in Amorphous Zr₆₇Ni₃₃ and Zr₆₇Cu₃₃, *Advances in Quantum Chemistry*, 54, 161-174, 2008
3. Takeshi Nishiuchi, Satoshi Hirosawa, Masaki Nakamura, Masatoshi Kakimoto, Takeshi Kawabayashi, Hideki Araki, Yasuharu Shirai, Relationship between Coercivity and Microstructural Changes During DR Treatment in the HDDR-processed Nd-Fe-Co-B Alloy, *IEEJ Transactions on Electrical and Electronic Engineering*, 3, 390-393, 2008

International Conference Proceedings

1. Takeshi Nishiuchi, Shin-ichiroh Sakashita, Satoshi Hirosawa, Masaki Nakamura, Masatoshi Kakimoto, Takeshi Kawabayashi, Hideki Araki, Masataka Mizuno, Yasuharu Shirai, Abrupt changes in microstructure and their impact on coercivity in the hydrogenation-disproportionation-desorption-recombination (HDDR) process of NdFeB alloys detected by positron lifetime spectroscopy and microstructural analysis, *Proceedings of 20th International Workshop on Rare earth Permanent Magnet and Their Applications*, 77-79, 2008
2. Takeshi Nishiuchi, Shin-ichiroh Sakashita, Satoshi Hirosawa, Masaki Nakamura, Masatoshi Kakimoto, Takeshi Kawabayashi, Hideki Araki, Masataka Mizuno, Yasuharu Shirai, Development of Microstructure during Desorption-recombination (DR) Stages in Hydrogenation- disproportionation-desorption-recombination (HDDR) Process of Nd-Fe-B-based Alloys, *Proceedings of 20th International Workshop on Rare earth Permanent Magnet and Their Applications*, 381-383, 2008