

2009 — ARAKI Hideki

Scientific Papers/Commentary Articles

1. Masataka Mizuno, Hideki Araki, Yasuharu Shirai, Investigation of Lattice Defects in LaNi₅ by Positron Annihilation Spectroscopy and First-Principles Calculations, *International Journal of Quantum Chemistry*, 109, 2758-2763, 2009
2. Masataka Mizuno, Hideki Araki, Yasuharu Shirai, Effect of hydrogen on stability of vacancy in LaNi₅, *Journal of Physics; Conference series*, 165, 012043-1-012043-6, 2009
3. A.Yabuuchi, D.Kubo, M.Mizuno, H.Araki, T.Onishi, Y.Shirai, Frozen-in vacancies in PVD-Cu film with improved high pressure reflowability studied using a slow positron beam, *Journal of Physics; Conference series*, 165, 012044-1-012044-4, 2009
4. Kouji Sakaki, Ryosuke Date, Masataka Mizuno, Hideki Araki, Yumiko Nakamura, Yasuharu Shirai, Robert C. Bowman Jr., Etsuo Akiba, Behavior of vacancy formation and recovery during hydrogenation cycles in LaNi_{4.93}Sn_{0.27}, *Journal of Alloys and Compounds*, 477, 205-211, 2009
5. Kouji Sakaki, Etsuo Akiba, Masataka Mizuno, Hideki Araki, Yasuharu Shirai, The effect of substitutional elements (Al, Co) in LaNi_{4.5}M_{0.5} on the lattice defect formation in the initial hydrogenation and Dehydrogenation, *Journal of Alloys and Compounds*, 473, 87-93, 2009