

## 2008 — NAKAJIMA Hideo

### Scientific Papers/Commentary Articles

1. H. Onishi, S.K. Hyun, H. Nakajima, S. Mitani, K. Takashi, K. Yakushiji, Magnetization Process of Lotus-type Porous Metals, *Journal of Applied Physics*, 103(9), 093539(5pages), 2008
2. M. Tane, S. Akita, T. Nakano, K. Hagihara, Y. Umakoshi, M. Niinomi, H. Nakajima, Peculiar elastic behavior of Ti-Nb-Ta-Zr single crystals, *Acta Materialia*, 56(12), 2856-2863, 2008
3. S.Suzuki, H. Utshunomiya, H. Nakajima, Equal-channel Angular Extrusion Process of Lotus-type Porous Copper, *Materials Science and Engineering A*, 490(1-2), 465-470, 2008
4. H. Nakajima, Fabrication of Lotus-type Porous Metals through Hydride Decomposition, *Advanced Engineering Materials*, 10(9), 816-819, 2008
5. R. Nakamura, D. Tokozakura, J.-G. Lee, H. Mori, H. Nakajima, Shrinking of hollow Cu<sub>2</sub>O and NiO nanoparticles at high temperatures, *Acta Materialia*, 56(18), 5276-5284, 2008
6. K. Alvarez, S.K. Hyun, S. Fujimoto, H. Nakajima, In Vitro Corrosion Resistance of Lotus-type Porous Ni-free Stainless Steels, *Journal of Materials Science: Materials in Medicine*, 19(11), 3385-3397, 2008
7. H. Onishi, S. Ueno, H. Nakajima, An Effect of Addition of NiO Powder on Pore Formation in Lotus-Type Porous Nickel, *Materials Transactions*, 49(11), 2670-2672, 2008
8. H. Onishi, S. Ueno, S.K. Hyun, H. Nakajima, Fabrication of Lotus-Type Porous Cobalt and Silicon through Decomposition of Moisture, *Metallurgical and Materials Transactions A*, 40(2), 438-443, 2009
9. J.S. Park, S.K. Hyun, S. Suzuki, H. Nakajima, Fabrication of Lotus-Type Porous Al-Si Alloys Using the Continuous Casting Technique, *Metallurgical and Materials Transactions A*, 40(2), 406-414, 2009
10. H. Nakajima, M. Tane, S. K. Hyun, H. Seki, Anisotropic Mechanical Properties of Lotus-Type Porous Metals, *IUTAM Bookseries 12(Proceedings of the IUTAM Symposium on Mechanical Properties of Cellular Materials)*, Springer Science+Business Media B.V., 43-50, 2009

### International Conference Proceedings

1. H. Nakajima, New Fabrication Method for Lotus-Type Porous Metals and its Application, *Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007)*, 193-196, 2008
2. S.Y. Kim, B.Y. Hur, H. Nakajima, Fabrication of Lotus-type Porous Nickel with Atmospheric Pressure and Foaming Agents by Mold Casting Technique, *Proceedings of 5th International*

- Conference on Porous Metals and Metallic Foams (MetFoam2007), 197-200, 2008
3. K. Kashihara, S. Suzuki, S.K. Hyun, H. Yonetani, H. Nakajima, Fabrication of Lotus-type Porous Carbon-steel by Continuous Casting Technique in Nitrogen Atmosphere, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 201-204, 2008
  4. S. Suzuki, H. Utsunomiya, H. Nakajima, Equal-channel Angular Extrusion of Lotus-type Porous Copper, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 205-208, 2008
  5. T. Nakano, S. Tachibana, K. Hagihara, Y. Umakoshi, T. Ide, M. Tane, H. Nakajima, Fabrication and Plastic Deformation Behavior of Lamellar Ti-Rich TiAl Crystals With Lotus-Type Aligned Pores, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 213-216, 2008
  6. T. Kujime, S. K. Hyun, H. Nakajima, Impact Properties of Lotus-type Porous Carbon Steel Measured by Instrumented Charpy Testing, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 217-220, 2008
  7. L.M. Lin, S. Ueno, H. Nakajima, Fabrication of Lotus-type Porous Alumina with High Compressive Strength Using Unidirectional Solidification, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 221-224, 2008
  8. S. Ueno, S.Y. Kim, H. Nakajima, Effect of Molten Temperature on the Formation of Lotus-type Porous Silicon during Unidirectional Solidification, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 225-228, 2008
  9. J.S. Park, S.K. Hyun, S. Suzuki, H. Nakajima, Fabrication of Lotus-type Porous Al-Si by Continuous Casting Technique, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 229-232, 2008
  10. S.K. Hyun, S. Suzuki, H. Nakajima, Fabrication of Lotus-type Porous Magnesium by Continuous Casting Technique, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 233-236, 2008
  11. H. Seki, M. Tane, H. Nakajima, Effects of pore size distribution and loading direction on fatigue property of lotus-type porous copper with anisotropic pore structure, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 237-240, 2008
  12. M. Tane, H. Nakajima, Fabrication of Lotus-type Porous Magnesium using Hydrogen Desorption from MgH<sub>2</sub>, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 241-244, 2008
  13. R. Nakamura, D. Tokozakura, J.-G. Lee, H. Mori, H. Nakajima, Formation of a Nano-pore during Oxidation of Metal Nanoparticles, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 329-332, 2008

14. H. Chiba, T. Ogushi, H. Nakajima, K. Torii, T. Tomimura, F. Ono, Steady State Comparative-longitudinal Heat Flow (SCHF) Method Using Specimen of Different Thickness for Measuring Thermal Conductivity of Anisotropic and Thin Porous Metals, Proceedings of 5th International Conference on Porous Metals and Metallic Foams (MetFoam2007), 521-524, 2008
15. H. Chiba, T. Ogushi, H. Nakajima, S. Ueno, K. Torii, T. Tomimura, F. Ono, Accuracy Verification of Steady State Comparative-Longitudinal Heat Flow Method Using Specimen of Different Thickness for Measuring Thermal Conductivity of Lotus-Type Porous Metals, Proceedings of 1st International Symposium on Thermal Design and Thermophysical Property for Electronics (e-Thermo 2008), 95-97, 2008

#### **Awards**

1. H. Nakajima, DSL2008 Award for Career Achievements, 2008/7/9
2. R. Nakamura, H. Nakajima, H. Mori, 7<sup>th</sup> International Conference on Diffusion in Materials(DIMAT2008) Best Poster Award, 2008/ 10/31

#### **Intellectual Properties**

1. Metal Porous Body Manufacturing Method (Canada), 発明者 : Hideo Nakajima、権利者 : Hideo Nakajima、CA 2473120、出願年月日 : 2002/08/26、取得年月日 : 2008/10/14