

2007 — NAKANO Takayoshi

Scientific Papers/Commentary Articles

1. T. Nakano, T. Ishimoto, J.-W. Lee and Y. Umakoshi, Preferential orientation of biological apatite crystallite in original, regenerated and diseased cortical bones, *Journal of the Ceramic Society of Japan*, 116, pp. 313-315, 2008
2. K. Koizumi, Y. Minamino, T. Nakano and Y. Umakoshi, Effects of antiphase domains on dislocation motion in Ti₃Al single crystals deformed by prism slip, *Philosophical Magazine*, 88, pp. 465-488, 2008
3. S. Hata, T. Nakano, N. Kuwano, M. Itakura, S. Matsumura and Y. Umakoshi, Microscopic properties of long-period ordering in Al-rich TiAl alloys, *Metallurgical and Materials Transaction A*, 39 [7], 1610-1617, 2008
4. M. Kashii, J. Hashimoto, T. Nakano, Y. Umakoshi and H. Yoshikawa, Alendronate treatment promotes bone formation with a less anisotropic microstructure during intramembranous ossification in rats, *Journal of Bone and Mineral Metabolism*, 26(1), pp.24-33, 2008
5. J.-W. Lee, T. Nakano, S. Toyosawa, Y. Tabata and Y. Umakoshi, Evaluation of BAp orientation using mouse models for osteoporosis (OPG-KO) and osteopetrosis (op/op), *Materials Science Forum*, 561-565, pp.761-764, 2007
6. T. Ishimoto, T. Nakano, Y. Umakoshi, M. Yamamoto and Y. Tabata, Change in material and structural parameters of bone mechanical function during long-bone regeneration, *Materials Science Forum*, 561-565, pp.1451-1454, 2007
7. T. Nakano, T. Tachibana, K. Hagihara, Y. Umakoshi, T. Ide, M. Tane and H. Nakajima, Microstructure and deformation behavior of lamellar Ti-rich TiAl crystal with lotus-type aligned pores, *Materials Science Forum*, 561-565, pp.383-386, 2007
8. K. Hagihara, T. Tanaka, T. Nakano, P. Veyssi re and Y. Umakoshi, Effects of the anisotropy of the anti-phase boundary energy on the yield stress anomaly in Ni₃X compounds with close-packed crystal structures, *Philosophical Magazine Letters*, 87(10), pp.705-712, 2007

International Conference Proceedings

1. T. Nakano, S. Tachibana, K. Hagihara, Y. Umakoshi, T. Ide, M. Tane and H. Nakajima, Fabrication and Plastic Deformation Behavior of Lamellar Ti-rich TiAl Crystals with Lotus-Type Aligned Pores, *Proceeding of MetFoam 2007*, 213-216, 2008
2. K. Sasaki, T. Sasaki, T. Nakano, Y. Umakoshi and J. D. Ferrara, The evaluation of preferential alignment of biological apatite (BAp) crystallites in bone using transmission X-ray diffraction

method, *Advance in X-ray Analysis*, 51, 155-161, 2008

3. K. Hagihara, T. Nakano, A. Sonoura, K. Watanabe, Y. Umakoshi and M. Niinomi, Effect of Bcc-phase Stability on Cyclic Deformation Behavior in Beta-type Ti-Nb-Ta-Zr Alloys Single Crystals with Different Nb Content, *Proceeding of JIMIC-5*, pp. 1445-1447, 2007
4. T. Nakano, K. Hagihara, H. Maki, Y. Umakoshi and M. Niinomi, Crystal Growth and Plastic Deformation Behavior of Ti-29Nb-13Ta-4.6Zr Bcc-based Single Crystal, *Ti-2007 Science and Technology, Proceeding of JIMIC-5*, pp. 1437-1439, 2007
5. T. Nakano, T. Ishimoto, J.-W. Lee and Y. Umakoshi, BAp Orientation Analysis in Original, Regenerated and Pathological Bone Tissue, "*Archives of BioCeramics Research*", 17, pp. 19-22, 2007
6. T. Nakano, K. Hagihara and Y. Umakoshi, Effect of C11b –Stabilized Element on Deformation Mode in $(\text{Nb}_{1-x}\text{Mox})\text{Si}_2$ ($X=0-0.85$) Single Crystals, *Proceeding of MRS*, 980, pp. 297-302, 2007