

## 2007 — TSUJI Nobuhiro

### Scientific Papers/Commentary Articles

1. N.Tsuji, N.Kamikawa and B.Li, Grain Size Saturation during Severe Plastic Deformation, *Mater. Sci. Forum*, Vols.539-543, 2837-2842, 2007
2. J.R.Bowen, T.Masui and N.Tsuji, Microstructure Evolution after Large Strain Deformation in Al-0.13%Mg, *Mater. Sci. Forum*, Vol.550, 235-240, 2007
3. D.Tedara, S.Inoue and N.Tsuji, Microstructure and Mechanical Properties of Commercial Purity Titanium Severely Deformed by ARB Process, *J. Mater. Sci.*, Vol.42, No.5, 1673-1681, 2007
4. S.Ohsaki, S.Kato, N.Tsuji, T.Ohkubo and K.Hono, Bulk Mechanical Alloying of Cu-Ag and Cu/Zr Two Phase Microstructures by Accumulative Roll Bonding Process, *Acta Mater.*, Vol. 55. No. 8, 2885-2895, 2007
5. N.Takata, K.Ikeda, H.Nakashima and N.Tsuji, In-Situ EBSP Analysis of Grain Boundary Migration during Recrystallization in Pure Aluminum Foils, *Mater. Sci. Forum*, vol.558-559, 351-356, 2007
6. D.Terada, B.L.Li, M.Sugiyama and N.Tsuji, Low Temperature Recrystallization of High Purity Iron Severely Deformed by ARB Process, *Mater. Sci. Forum*, vol.558-559, 357-362, 2007
7. Y.Sun, N.Tsuji, S.Kato, S.Ohsaki and K.Hono, Fabrication of Bulk Metallic Glass Sheet in Cu-47at%Zr Alloys by ARB and Heat Treatment, *Mater. Trans.*, 48 (2007), No.7, 1605-1609, 2007
8. N.Kamikawa, N.Tsuji, X.Huang and N.Hansen, Through-thickness characterization of microstructure and texture in high purity aluminum processed to high strains by accumulative roll-bonding, *Mater. Trans. (Texture 特集号)*, Vol.48, No.8, 1978-1985, 2007
9. N.Takata, K.Yamada, K.Ikeda, F.Yoshida, H.Nakashima and N.Tsuji, Change in Microstructure and Texture during Annealing of Pure Copper Heavily Deformed by Accumulative Roll Bonding, *Mater. Trans.*, Vol.48, No.8, 2043-2048, 2007
10. N.Kamikawa, T.Sakai and N.Tsuji, Effect of Redundant Shear Strain on Microstructure and Texture Evolution during Accumulative Roll-Bonding in Ultralow Carbon IF Steel, *Acta Mater*, Vol.55, No.17, 5873-5888, 2007
11. N.Ishida, D.Terada, K.Kashihara and N.Tsuji, Evolution of Microstructure and Texture of Pure Al Single Crystal Having  $\{112\}<110>$  Orientation during Severe Plastic Deformation, *Mater. Sci. Forum*, Vols.561-565, 405-408, 2007
12. T.Maekawa, H.Kitahara and N.Tsuji, Mechanical Properties of Ultrafine Grained Fe-Cr-Ni Alloy Fabricated by ARB, *Mater. Sci. Forum*, Vols.561-565, 413-416, 2007
13. T.Nakamura, H.Kitahara, J.G.Lee and N.Tsuji, Bulk Mechanical Alloying of Al-Fe Multilayer

- by Accumulative Roll-Bonding Process, Mater. Sci. Forum, Vols.561-565, 685-698, 2007
14. K.Hirai, T.Ichitsubo, E.Matsubara and N.Tsuji, Ultrasonic Spectroscopy and X-ray Diffraction Study for ARB Aluminum, Mater. Sci. Forum, Vols.561-565, 937-940, 2007
  15. N.Tsuji, Unique Mechanical Properties of Nano-Structured Metals, J. of Nanoscience and Nanotechnology, Vol.7, No.11, 3765-3770, 2007
  16. Naoki Takata, Seong-Hee Lee, Cha-Yong Lim, Sang-Shik Kim and Nobuhiro Tsuji, Nanostructured Bulk Copper Fabricated by Accumulative Roll Bonding, J. of Nanoscience and Nanotechnology, Vol.7, No.11, 3985-3989, 2007
  17. Ken-ichi Ikeda, Kousuke Yamada, Naoki Takata, Fuyuki Yoshida, Hideharu Nakashima and Nobuhiro Tsuji, Grain Boundary Structure of Ultrafine Grained Pure Copper Fabricated by Accumulative Roll Bonding, Mater. Trans., Vol.49, No.1, 24-30, 2007
  18. D.Terada, M.Inoue, H.Kitahara and N.Tsuji, Change in Mechanical Properties and Microstructure of ARB Processed Ti during Annealing, Mater. Trans., Vol.49, No.1, 41-46, 2007
  19. Hiromoto Kitahara, Kousuke Uchikado, Jun-ichi Makino, Naomi Iida, Masayuki Tsushida, Nobuhiro Tsuji, Shinji Ando and Hideki Tonda, Fatigue Crack Propagation Behavior in Commercial Purity Ti Severely Deformed by Accumulative Roll Bonding, Mater. Trans., Vol.49, No.1, 64-68, 2008
  20. M.Reihanian, R.Ebrahimi, N.Tsuji and M.M.Moshksar, Analysis of the Mechanical Properties and Deformation Behavior of Nanostructured Commercially Pure Al Processed by Equal Channel Angular Pressing (ECAP), Mater. Sci. Eng., A, 473, 189-194, 2008
  21. L.Cui, H.Fujii, N.Tsuji and K.Nogi, Friction Stir Welding of a High Carbon Steel, Scripta Mater., Vol.56, (2007) No.7, 637-640, 2007
  22. Kazuhiro Fukami, Shuji Nakanishi\*, Haruka Yamasaki, Toshio Tada, Kentaro, Sonoda, Naoya Kamikawa, Nobuhiro Tsuji, Hidetsugu Sakaguchi, Yoshihiro Nakato, General Mechanism for the Synchronization of Electrochemical Oscillations and Self-Organized Dendrite Electrodeposition of Metals with Ordered 2D and 3D Microstructures, J. Physical Chemistry C, 111, 1150-1160, 2007
  23. L.Cui, H.Fujii, N.Tsuji, K.Nakata, K.Nogi, R.Ikeda and M.Matsushita, Transformation in Stir Zone of Friction Stir Welded Carbon Steels with Different Carbon Contents, ISIJ Int, Vol.47, 299-306, 2007

#### **International Conference Proceedings**

1. H.Kitahara and N.Tsuji, Characteristics of Martensite Transformed from Ultrafine Grained Austenite in 29.6wt%Ni Steel, Proc. of the 1st Int. Symp on Steel Science (IS3), 143-146, 2007
2. R.Uejji and N.Tsuji, Reason for Quick Formation of Ultrafine Grains in Thermomechanical

Processes Starting from Martensite, Proc. of the 1st Int. Symp on Steel Science (IS3), 183-186, 2007

3. D.Terada, S.Inoue, H.Kitahara and N.Tsuji, Ultrafine-Grained CP-Ti fabricated by Severe Plastic Deformation and Annealing, Ti-2007 Science and technology” (Proc. on the 11th World Conference on Titanium, 203-206, 2007

#### **Awards**

1. N.Takata, K.Ikeda, H.Nakashima and N.Tsuji, Best Poster Award in Rex&GG III (Int. Conf. on Recrystallization and Grain Growth), 2007.6