

2007 年度業績 一辻 伸泰

学術論文・解説記事

1. N.Tsuiji, 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.Tsuiji, 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.Tsuiji, 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.Tsuiji, 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.Tsuiji, 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.Tsuiji, 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.Tsuiji, 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.Tsuiji, 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.Tsuiji, 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. 大竹祐輔、北川和夫、北 和久、高田尚記、辻 伸泰、青木庄治, ARB 法により強ひずみ加工した Cu-Cr-Zr 合金の組織と機械的特性, 銅と銅合金, Vol.46, No.1, 142-147, 2007
11. N.Kamikawa, T.Sakai and N.Tsuiji, 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
12. N.Ishida, D.Terada, K.Kashihara and N.Tsuiji, 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
13. T.Maekawa, H.Kitahara and N.Tsuiji, Mechanical Properties of Ultrafine Grained Fe-Cr-Ni Alloy

- Fabricated by ARB, Mater. Sci. Forum, Vols.561-565, 413-416, 2007
14. 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
 15. 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
 16. N.Tsuji, Unique Mechanical Properties of Nano-Structured Metals, J. of Nanoscience and Nanotechnology, Vol.7, No.11, 3765-3770, 2007
 17. 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
 18. 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
 19. 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
 20. 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
 21. 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
 22. 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
 23. 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
 24. 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
 25. 森本敬治、吉田冬樹、竹士伊知郎、北原弘基、辻 伸泰, EBSDデータによるバリアント解析プログラムの開発, 鉄と鋼, Vol.93, No.9, 591-599, 2007

国際会議プロシーディングス

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

著書

1. 辻 伸泰, 「実験力学ハンドブック」日本実験力学会編集、編集委員：井口 学、松井剛一、横山 隆； III 応用編 27 高温材料プロセス 27.3.圧延, 朝倉書店, 2008, 640

受賞

1. N.Kamikawa, N.Tsuji, X.Huang and N.Hansen, 大阪大学論文 100 選・選出 (グラフィクス 24 選) , 2007 年 7 月
2. N.Takata, K.Ikeda, H.Nakashima and N.Tsuji, Best Poster Award in Rex&GG III (Int. Conf. on Recrystallization and Grain Growth), 2007 年 6 月

特許権などの知的財産権

1. 表面前処理による金属間化合物抑制溶融亜鉛めつき鋼の製造法, 発明者：辻 伸泰、兼松秀行、足立賀英, 権利者：鈴鹿高専、大阪大学
2. 素線、電線及び素線の製造方法, 発明者：花崎健一、吉永 聡、辻 伸泰, 権利者：矢崎総業、大阪大学 第 2007-053396 号, 出願年月日：2007 年 3 月 2 日
3. Element Wire, Electric Wire and Process for Producing Element Wire (ドイツ特許), 発明者：Kenichi Hanazaki, Satoru Yoshinaga, Nobuhiro Tsuji, 権利者：矢崎総業、大阪大学, 第 10 2008 011 884.2 号, 出願年月日：2008 年 2 月 29 日
4. Element Wire, Electric Wire and Process for Producing Element Wire (米国特許), 発明者：Kenichi Hanazaki, Satoru Yoshinaga, Nobuhiro Tsuji, 権利者：矢崎総業、大阪大学, 出願年月日：2008 年 2 月 29 日
5. Element Wire, Electric Wire and Process for Producing Element Wire (中国特許), 発明者：Kenichi Hanazaki, Satoru Yoshinaga, Nobuhiro Tsuji, 権利者：矢崎総業、大阪大学, 第

200810008012.3 号, 出願年月日 : 2008 年 3 月 3 日