

国内共同研究員との共著査読付学術論文(2012年度)

- (1) "ガスティングステンアーク溶接における電流密度および流速が及ぼす溶融池内の駆動力変化"
電気学会論文誌B, 132, 5 (2012), 486-492.
酒井 寛, 瀧 寛之, 岩尾 徹, 田代 真一, 田中 学, 湯本 雅恵
- (2) "Surface Roughness Development on ArF-photoresist Studied by Beam-Irradiation of CF4 Plasma"
J. Phys. D-Appl. Phys., 46, 10 (2013), 102001.
T. Takeuchi, K. Ishikawa, Y. Setsuhara, K. Takeda, H. Kondo, M. Sekine and M. Hori
- (3) "H-2/N-2 Plasma Etching Rate of Carbon Films Deposited by H-Assisted Plasma Chemical Vapor Deposition"
Jpn. J. Appl. Phys., 52 (2013), 01AB01.
T. Urakawa, R. Torigoe, H. Matsuzaki, D. Yamashita, G. Uchida, K. Koga, M. Shiratani, Y. Setsuhara, K. Takeda, M. Sekine and M. Hori
- (4) "Plasma Interactions with Aminoacid (l-alanine) as a Basis of Fundamental Processes in Plasma Medicine"
Curr. Appl. Phys., 13 (2013), S59-S63.
Y. Setsuhara, K. Cho, M. Shiratani, M. Sekine and M. Hori
- (5) "Investigation of Chemical Bonding States at Interface of Zn/organic Materials for Analysis of Early Stage of Inorganic/organic Hybrid Multi-Layer Formation"
Thin Solid Films, 523 (2012), 15-19.
K. Cho, K. Takenaka, Y. Setsuhara, M. Shiratani, M. Sekine and M. Hori
- (6) "Ag-Cu-Ti活性ろう材を用いたレーザブレージングによるサイアロンと超硬合金の異材接合性に及ぼすTi添加量の影響"
溶接学会論文集, 31, 1 (2013), 16-22.
永塚 公彬, 吉田 昇一郎, 瀬知 啓久, 中田 一博
- (7) "Dissimilar Joint Characteristics of SiC and WC-Co Alloy by Laser Brazeing"
J. Phys. : Conf. Ser., 379 (2012), 012048.
K. Nagatsuka, Y. Sechi and K. Nakata
- (8) "Dissimilar Metal Joining of ZK60 Magnesium Alloy and Titanium by Friction Stir Welding"
Mater. Sci. Eng. B, 177 (2012), 543-548.
M. Aonuma and K. Nakata

- (9) "Ti-15Nb合金のαマルテンサイト組織形成に伴う材料特性への影響とプラズマ窒化による表面硬化処理"
熱処理, 52, 5 (2012), 263-268.
万谷 義和, 津村 卓也, 中田 一博
- (10) "Microstructural Development at Weld Interface between Zr-based Glassy Alloy and Stainless Steel by Resistance Microwelding"
J. Phys. : Conf. Ser., 379 (2012), 012027.
S. Fukumoto, M. Minami, A. Soeda, M. Matsushima, M. Takahashi, Y. Yokoyama and K. Fujimoto
- (11) "金属樹脂直接レーザ接合法による低炭素鋼とアルミニウム合金との異種金属継手に関する研究"
溶接学会論文集, 30, 2 (2012), 142-148.
川人 洋介, 丹羽 悠介, 西本 浩司, 片山 聖二
- (12) "高出力・高輝度レーザを用いたステンレス鋼及びアルミニウム合金の部分溶込み溶接における減圧雰囲気の影響"
溶接学会論文集, 31, 1 (2013), 48-55.
阿部 洋平, 川人 洋介, 中村 浩, 西本 浩司, 水谷 正海, 片山 聖二
- (13) "High-temperature Properties of Extruded Titanium Composites Fabricated from Carbon Nanotubes Coated Titanium Powder by Spark Plasma Sintering and Hot Extrusion"
Compos. Sci. Technol., 72 (2012), 1291-1297.
K. Kondoh, T. Threrujirapapong, J. Umeda and B. Fugetsu
- (14) "Multi-Walled Carbon Nanotubes Reinforced Titanium Composites via Powder Metallurgy Process"
Key. Eng. Mater., 520 (2012), 261-268.
K. Kondoh, T. Threrujirapapong, S. Bin, H. Imai, S. F. Li, J. Umeda and B. Fugetsu
- (15) "粉末冶金法を用いたカーボンナノチューブ分散Cu-Ti合金の組織と機械的および電気的特性"
粉体および粉末冶金, 59, 10 (2012), 609-615.
今井 久志, 近藤 勝義, 李 樹豊, 梅田 純子, 古月 文志, 高橋 誠
- (16) "Tribological Properties of Titanium Plate Coated with Carbon Nanotubes"
Key. Eng. Mater., 545 (2013), 158-162.
J. Umeda, T. Mimoto, K. Kondoh and B. Fugetsu
- (17) "Investigation on Twisting Distortion of Thin Plate Stiffened Structure under Welding"
J. Mater. Process. Technol., 212, 8 (2012), 1705-1715.
J. Wang, M. Shibahara, X. Zhang and H. Murakawa

- (18) "H-SA700 を用いた柱梁溶接部の変形能力に及ぼす水平ハンチの影響"
鋼構造年次論文報告集, 20 (2012), 141-146.
崎野 良比呂, 川端 洋介, 中込 忠男, 加村 久哉
- (19) "Interface Microstructure and Mechanical Properties of Dissimilar Friction Stir Welded Joints Between Zr55Cu30Ni5Al10 Bulk Metallic Glass and Pure Al"
Mater. Trans., 53, 6 (2012), 1106-1112.
Y. F. Sun, H. Fujii, K. Imagawa, Y. Yokoyama, H. Kimura and A. Inoue
- (20) "Surface Hardening of Ferritic Spheroidal Graphic Cast Iron by Friction Stir Processing"
Mater. Trans., 53, 8 (2012), 1456-1460.
K. Imagawa, H. Fujii, Y. Morisada, Y. Yamaguchi and S. Kiguchi
- (21) "Effect of Tool Geometry on Hardened Layer of Friction Stir Processed Cast Iron"
Mater. Trans., 53, 11 (2012), 1952-1955.
K. Imagawa, H. Fujii, Y. Morisada, Y. Yamaguchi and S. Kiguchi
- (22) "摩擦攪拌プロセスによるフェライト基地片状黒鉛鋳鉄の表面硬化"
鋳造工学, 85, 1 (2013), 26-31.
今川 浩一, 藤井 英俊, 森貞 好昭, 橋本 俊幸, 山口 泰文, 木口 昭二
- (23) "Microstructure and Mechanical Properties Evolution during Friction Stir Welding of SK4 High Carbon Steel Alloy"
Mater. Sci. Eng. A., 558 (2012), 572-578.
S. A. Saad, Y. Morisada, R. Ueji and H. Fujii
- (24) "Microstructural Evaluation of Friction Stir Processed D2 Tool Steel"
Mater. Sci. Forum, 735 (2013), 422-426.
T. Nagaoka, H. Watanabe, M. Fukusumi, T. Mizuno, G. Abe, Y. Morisada and H. Fujii
- (25) "Photoconductive Properties of Titanium Dioxide Film Modified by Femtosecond Laser Irradiation"
Appl. Phys. A-Mater. Sci. Process., 110 (2013), 679-682.
M. Tsukamoto, T. Shinonaga, M. Takahashi, M. Fujita and N. Abe
- (26) "Formation of TiO₂ Film with Lower Electrical Resistance by Aerosol Beam and Fiber Laser Irradiation"
Appl. Phys. A-Mater. Sci. Process., 112 (2013), 57-60.
T. Shinonaga, M. Tsukamoto, M. Takahashi, M. Fujita and N. Abe

- (27) "レーザ局所加熱による2024アルミニウム合金板の曲げ異方性発現"
スマートプロセス学会誌, 1, 6 (2012), 249-255.
柴柳 敏哉, 奥田 達哉, 塚本 雅裕, 阿部 信行, 中野 人志
- (28) "Grain Size Dependence of Surface Hardness of Laser-Peened Steels"
レーザー研究, 41, 2 (2013), 134-136.
M. Tsuyama, T. Shibayanagi, M. Tsukamoto, N. Abe and H. Nakano
- (29) "DEMによる機械的複合化過程の基礎的解析"
スマートプロセス学会誌, 1, 5 (2012), 218-223.
曾田 力央, 八木 圭亮, 加納 純也, 斎藤 文良, 内藤 牧男
- (30) "FRPモルタル管廃材のリサイクルプロセスの研究開発"
粉体工学会誌, 49, 11 (2012), 827-831.
近藤 光, 大村 高弘, 阿部 浩也, 加納 純也, 内藤 牧男
- (31) "Mechanically Assisted Deposition of Nickel Oxide-Yttria Stabilized Zirconia Nanocomposite Film and Its Microstructural Evolution for Solid Oxide Fuel Cells Anode Application"
Int. J. Appl. Ceram. Technol., 9, 5 (2012), 928-935.
H. Abe, M. Naito and K. Sato
- (32) "Colloidal Dispersibility of Fatty Acid-Capped Iron Nanoparticles and Its Effect on Static and Dynamic Magnetorheological Response"
Colloid Surf. A-Physicochem. Eng. Asp., 415 (2012), 239-246.
S. Yamanaka, H. Abe, M. Naito, T. Fujimoto and Y. Kuga
- (33) "Characteristics of Dissimilar Laser-Brazed Joints of Isotropic Graphite to WC-Co Alloy"
Mater. Sci. Eng. B, 177 (2012), 520-523.
K. Nagatsuka, Y. Sechi, Y. Miyamoto and K. Nakata
- (34) "Phylogenetic Relationships of Acanthamoeba Spp. Based on Multiple Gene Analysis"
Int. J. Infect. Dis., 16, 1 (2012), e172.
M. M. Rahman, T. Matsumura, Y. Oikawa, A. Kobayashi and M. Tokoro
- (35) "Thrust and Lifetime Performance Evaluation of a 300 W Class SPT and CHT Type Hall Thruster"
Frontier Appl. Plasma Technol., 5, 2 (2012), 61-66.
S. Cho, K. Komurasaki, H. Koizumi, A. Kobayashi and Y. Arakawa

- (36) "遮熱コーティングが基材の高温低サイクル疲労寿命におよぼす影響"
材料, 62, 2 (2013), 125-130.
脇 裕之, 小林 明, 石井 徳章
- (37) "Sensitivity to Experimental Errors in Evaluating the Thermal Expansion Coefficient of a Thermal Barrier Coating by Using Coating System Specimens"
Vacuum, 88 (2012), 93-97.
H. Waki, I. Nishikawa, A. Kobayashi and N. Ishii
- (38) "Kinetic Study on the Selective Production of 2-(Hydroxybenzyl)-4-methylphenol from Organosolv Lignin in a Mixture of Supercritical Water and P-Cresol"
Ind. Eng. Chem. Res., 51 (2012), 4804-4808.
S. Takami, K. Okuda, X. Man, M. Umetsu, S. Ohara and T. Adschiri
- (39) "Directed Assembly of Metal Oxide Nanoparticles by DNA"
Mater. Lett., 79 (2012), 78-80.
J. Han, S. Ohara, K. Sato, H. Xu, Z. Tan, Y. Morisada, K. Kuruma, M. Naito, P. Shan and M. Umetsu