

1. Huihun Kim, Milan K. Sadan, Changhyeon Kim, Ga-In Choi, Minjun Seong, Kwon-Koo Cho, Ki-Won Kim, Jou-Hyeon Ahn, Hyo-Jun Ahn, Electrochemical Properties of Flexible Anode with SnO<sub>2</sub> Nanopowder for Sodium-Ion Batteries [full text PDF](#)
2. Yong-Kwan Lee, Jae-Jin Sim, Jong-Soo Byeon, Yong-Tak Lee, Yeong-Woo Cho, Hyun-Chul Kim, Sung-Gue Heo, Kee-Ahn Lee, Seok-Jun Seo, Kyoung-Tae Park, Production of High-Purity Tantalum Metal Powder for Capacitors Using Self-Propagating High-Temperature Synthesis [full text PDF](#)
3. Jin Man Jang, Se-Hyun Ko, Wonsik Lee, Effects of SiC Coating of Carbon Fiber on Mechanical Properties in Short Carbon Fiber Reinforced Al Matrix Composite [full text PDF](#)
4. Sun-Ki Kim, Seong-Ho Ha, Bong-Hwan Kim, Young-Ok Yoon, Hyun-Kyu Lim, Shae K. Kim, Young-Jig Kim, Microstructure Formation of Al-5 mass%Mg Alloy Melts by Interaction with Silica [full text PDF](#)
5. Hyunseok Yang, Woo-Chul Jung, Man-Sik Kong, Changhee Lee, A Study on Drilling Machinability of  $\gamma$ -TiAl Alloy [full text PDF](#)
6. Ju-Young Cho, Myung-Suk Song, Yong-Ho Choa, Taek-Soo Kim, Effect of Deformation Temperature on the Magnetic Properties of PrFeB Alloy Fabricated by Gas Atomization [full text PDF](#)
7. Seong-Ho Ha, Young-Chul Shin, Bong-Hwan Kim, Young-Ok Yoon, Hyun-Kyu Lim, Sung-Hwan Lim, Shae K. Kim, Characterization of Ca Precipitation in Al-Mg Alloys Containing a Trace of Ca During Homogenization [full text PDF](#)
8. Seok Jun Kang, Sung Hwa Bae, Injoon Son, Sn-Pd-Ni Electroplating on Bi<sub>2</sub>Te<sub>3</sub>-Based Thermoelectric Elements for Direct Thermocompression Bonding and Creation of a Reliable Bonding Interface [full text PDF](#)
9. SuBin Kim, Sung Hwa Bae, Injoon Son, Effect of the ENEPIG Process on the Bonding Strength of BiTe-based Thermoelectric Elements [full text PDF](#)
10. Jin Man Jang, Wonsik Lee, Se-Hyun Ko, The Effects of Grain Boundary Structures on Mechanical Properties in Nanocrystalline Al Alloy [full text PDF](#)
11. Keunhyuk Ryu, Myungsuk Kim, Jaeseok Roh, Kun-Jae Lee, Dissolution Behavior of Metal Impurities and Improvement of Reclaimed Semiconductor Wafer Cleaning by Addition of Chelating Agent [full text PDF](#)
12. Tae Boong Moon, Chulwoong Han, Soong Keun Hyun, Sung Cheol Park, Seong Ho Son, Man Seung Lee, Yong Hwan Kim, Study on Recovery of Valuable Metals in Spent Lithium-Ion Batteries by Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-CaO-Fe<sub>2</sub>O<sub>3</sub> Slag System [full text PDF](#)
13. Hang-Chul Jung, Deokhyun Han, Dae-Weon Kim, Byungmin Ahn, Synthesis of the Nickel-Cobalt-Manganese Cathode Material Using Recycled Nickel as Precursors from Secondary Batteries [full text PDF](#)
14. Namhun Kwon, Seyoung Lee, Jaeseok Roh, Kun-Jae Lee, Synthesis and Characterization of MoO<sub>3</sub> Nano Particle by Controlling Various Growth Conditions in Solution Combustion Method [full text PDF](#)
15. Hyun-Kuk-Park, Ik-Hyun-Oh, Ju-Hun-Kim, Sung-Kil-Hong, Jeong-Han Lee, Consolidation and Oxidation of Ultra Fine WC-Co-HfB<sub>2</sub> Hard Materials by Spark Plasma Sintering [full text PDF](#)

16. Mohammad Zarar Rasheed, Sun-Woo Nam, Sang-Hoon Lee, Sang-Min Park, Ju-Young Cho, Taek-Soo Kim, Phase Evolution During Extraction and Recovery of Pure Nd from Magnet [full text PDF](#)
17. Young-Chul Yoon, Sang-Gyu Kim, Sang-Hyeok Lee, Byoungchul Hwang, Influence of Al, Cu and Ni Additions on Mechanical Properties of Hot-Rolled Fe-9Mn-0.2C Medium-Manganese Steels [full text PDF](#)
18. Seung Y. Yang, Bong H. Kim, Da B. Lee, Kweon H. Choi, Nam S. Kim, Seong H. Ha, Young O. Yoon, Hyun K. Lim, Shae Kim, Young J. Kim, Warm Tensile Deformation Behavior and Constitutive Equation of Supersaturated Solid-Solutionized Al-9Mg Extruded Alloy [full text PDF](#)
19. Seok-Woo Ko, Hyeonwoo Park, Il Yoo, Hansoo Kim, Joonho Lee, Byoungchul Hwang, In-situ Observation of High-Temperature Fracture Behaviour of 347 Stainless Steel Subjected to Simulated Welding Process [full text PDF](#)
20. Chulwoong Han, Yong Hwan Kim, Dae Geun Kim, Man seung Lee, Effect of Flux on the Recovery Behavior of Valuable Metals during the Melting Process of Aluminum Can Scrap [full text PDF](#)
21. Jeong-Han Lee, Ik-Hyun-Oh, Hyun-Kuk-Park, Effects of Transition Metal Carbides on Microstructure and Mechanical Properties of Ultrafine Tungsten Carbide Via Spark Plasma Sintering [full text PDF](#)
22. Cheol-Woo Kim, Hyo-Sang Yoo, Jae-Yeol Jeon, Kyun-Taek Cho, Se-Weon Choi, Study on Improvement of Surface Properties of Low Carbon Steel Using Laser Cladding [full text PDF](#)
23. Byungjoo Choi, Yongjun Choi, Moon Gu Lee, Jung Sub Kim, Sang Won Lee, Yongho Jeon, Defect Detection Using Deep Learning-Based YOLOv3 in Cross-Sectional Image of Additive Manufacturing [full text PDF](#)
24. Ki-Hwan Kim, Seong-Jun Ha, Sang-Gyu Park, Seoung-Woo Kuk, Jeong-Yong Park, Preliminary Study of Frequency-Variable Vibration Packing Fabrication for Atomized Metallic Particulate Fuel Using Surrogate Spherical Powder [full text PDF](#)
25. Yeong Seong Eom, Kyung Tae Kim, Dong Won Kim, Ji Hun Yu, Chul Yong Sim, Seung Jun An, Yong-Ha Park, Injoon Son, Heat Treatment Effect on Physical Properties of Stainless Steel / Inconel Bonded by Directed Energy Deposition [full text PDF](#)
26. JongMin Byun, Young-In Lee, Sung-Tag Oh, Homogeneous Dispersion of Yttrium Oxide Particles in Nickel-Based Superalloy by High Pressure Homogenizing and Ball Milling Method [full text PDF](#)
27. M.P. Saravanan, K. Marimuthu, K. Jayabal, Characteristic Investigation of Macro Fiber Composite Structure Using FE Model [full text PDF](#)
28. J. Sitko, An Attempt to Use Various Metallurgical Slags in the Modification Processes of Casting Alloys [full text PDF](#)
29. T. Dubiel, T. Balawender, M. Osetek, The Fibrous Structure of the Bolt and Its Effect on the Joint Reliability [full text PDF](#)
30. S. Praveen Kumar, S. M. Senthil, R. Parameshwaran, R. Rathanasamy, Fabrication of a Novel Silver-Based Electrical Contact Composites and Assessment of Its Mechanical and Electrical Properties [full text PDF](#)
31. D. Dinesh, A. Megalingam, Dry Sliding Friction and Wear Behaviour of Leaded Tin bronze for Bearing and Bushing Application [full text PDF](#)
32. A. Tajdeen, A. Megalingam, Optimization of Output Responses during EDM of AZ91

- Magnesium Alloy using Grey Relational Analysis and TOPSIS [full text PDF](#)
33. Ririn Eva Hidayati, Fitria Sandi Faradilla, Dadang Dadang, Lia Harmelia, Nurlina Nurlina, Didik Prasetyoko, Hamzah Fansuri, Setting Time and Compressive Strength of Geopolymers Made of Three Indonesian Low Calcium Fly Ash with Variation of Sodium Silicate Addition [full text PDF](#)
34. M. Sambathkumar, P. Navaneethakrishnan, K.S.K Sasikumar, R. Gukendran, K. Ponappa, Investigation of Mechanical and Corrosion Properties of Al 7075/Garnet Metal Matrix Composites by Two-stage Stir Casting Process [full text PDF](#)
35. Z. Mirski, J. Pabian, T. Wojdat, Dissolution and Erosion Phenomena in the Brazing of Aluminum Heat Exchangers [full text PDF](#)
36. S. Arul, T. Senthilnathan, V. Jeevanantham, K.V. Satheesh Kumar, Pseudocapacitive Characteristics of Mg Doped ZnO Nanospheres Prepared by Coprecipitation [full text PDF](#)
37. W. Kowalski, H. Paul, P. Petrzak, Ł. Maj, I. Mania, M. Faryna, Influence of Hot Pressing on the Microstructure of Multi-Layered Ti/Al Composites [full text PDF](#)
38. F. Dąbrowski, Ł. Ciupiński, J. Zdunek, W. Chromiński, M. Kruszewski, R. Zybała, A. Michalski, K.J. Kurzydłowski, Microstructure and Thermoelectric Properties of Doped FeSi<sub>2</sub> with Addition of B<sub>4</sub>C Nanoparticles [full text PDF](#)
39. Zhiwei Ma, Sheng Wang, Xueyan Du, Ji Zhang, Ruifeng Zhao, Shengquan Zhang, Microstructures and Microwave-Absorbing Properties of ZnO Smoke from Zinc Leach Residue Treated by Carbothermal Reduction [full text PDF](#)
40. K. Sravanthi, V. Mahesh, B. Nageswara Rao, Influence of Carbon Particle in Polymer Matrix Composite over Mechanical Properties and Tribology Behavior [full text PDF](#)
41. M. Trepczyńska-Łent, Characteristics of the Growth of the Directionally Solidified Fe-4.25% C Eutectic Alloy [full text PDF](#)
42. M. Solecka, B. Rutkowski, A. Kopia, Kinetics of the High Temperature Oxidation of the Inconel 686 Coatings in the Waste Incineration Ash [full text PDF](#)