

1. G. Dercz, I. Matuła, W. Gurdziel, N. Kuczera: Microstructure Evolution of Ti/ZrO₂ and Ti/Al₂O₃ Composites Prepared by Powder Metallurgy Method [full text PDF](#)
2. J. Miettinen, V.-V. Visuri, T. Fabritius, N. Milcheva, G. Vassilev: Thermodynamic Description of Ternary Fe-B-X Systems. Part 4: Fe-B-V [full text PDF](#)
3. B. Straumal, A. Kilmametov, A. Gornakova, A. Mazilkin, B. Baretzky, A. Korneva, P. Zięba: Diffusive and Displacive Phase Transformations in Nanocomposites under High Pressure Torsion [full text PDF](#)
4. R. Rumman, D.A. Lewis, J.Y. Hascoet, J.S. Quinton: Laser Metal Deposition and Wire Arc Additive Manufacturing of Materials: An Overview [full text PDF](#)
5. Haneul Jang, Kwangmin Choi, Jaehyuck Shin, Donghyun Bae, Hyunjoon Choi: The Influence of Grain Size on the Mechanical Damping Behavior of Aluminum [full text PDF](#)
6. Shun-Myung Shin, Dong-Ju Shin, Sung-Ho Joo, Jei-Pil Wang: A Study on the Recovery of Lithium and Ni/Co oxide from Cathode Active Powder of End-of-Life NCA(LiNiCoAlO₂) Battery [full text PDF](#)
7. Hocheol Song, Ahmad Zakyyuddin, Sinhye Kim, Kwangmin Lee: Effect of Cold Rolling on Electrochemical Impedance Behavior of New β -Type Ti-6Mo-6V-5Cr-3Sn-2.5Zr Alloy [full text PDF](#)
8. Junsuk Choi, Sanghoon Kim, Sungsoo Rhim, Kyong-Yop Rhee: Determination of Uniaxial Tensile Behavior of Hypodermis in Porcine Skin Based on Rule of Mixtures [full text PDF](#)
9. Kang-Min Kim, Ju-Hun Kim, Jae-Hong Kwon, Ji-A Lee, Jeong-Whan Han: Effect of Deflector Plate for Particle Size Segregation Control [full text PDF](#)
10. Kwang-Pil Jeong, Jeong-Gon Kim, Su-Won Yang, Jae-Ho Yun, Jin-Hyuk Choi: Study on Magnetic Properties of the U-Type Ferrite According to Substituted Elements [full text PDF](#)
11. Woo Lim Choi, Jong-Hyun Lee: Characteristics of Die-Attach Method by Sinter Bonding Using Ag-40Cu Mechanically Alloyed Particles [full text PDF](#)
12. Tae-Hoon Kang, Kyu-Sik Kim, Man-Ho Park, Kee-Ahn Lee: High Temperature Random Stack Creep Property of Ni-Cr-Al based Powder Porous Metal Manufactured with Powder Sintering Process [full text PDF](#)
13. Gi-Su Ham, Kyu-Sik Kim, Kee-Ahn Lee: Manufacturing and Wear Properties of SiC Coating Layer on Zr alloy Fabricated by Vacuum Kinetic Spray Process [full text PDF](#)
14. Dong-Yeol Wi, Young-Kyun Kim, Tae-Sik Yoon, Kee-Ahn Lee: Microstructure and High Temperature Oxidation Properties of Fe-Cr-Ni HK30 Alloy Manufactured by Metal Injection Molding [full text PDF](#)
15. Il-Jeong Park, Basudev Swain, Dae-Weon Kim, Geon-Hong Kim, Deok-Hyun Han, Hang-Chul Jung: Preparation of Nickel Nanoparticles Using Nickel Raffinate Separated by Solvent Extraction from The Spent FeCl₃ Etching Solution [full text PDF](#)
16. Byungjoo Choi, Gwang-Jae Lee, Hyun-Ho Yeom, Moon-Gu Lee, Yongho Jeon: Microstructural Analysis of Asymmetric Dilution by Rotating Direct Metal Deposition [full text PDF](#)
17. Min Chul Oh, Moontae Kim, Jisung Lee, Byungmin Ahn: Microstructural Evolution of Sinter-Forged Fe-Cr-Mo-C Alloy Depending on Cu Addition [full text PDF](#)
18. Jung-Ho Shin, Dong-Jin Kim: Stress Corrosion Cracking Properties of Steam Generator Tubing Alloys in Crevice Environment [full text PDF](#)
19. Min-Jeong Lee,, Yu-Jeong Yi,, Hyeon-Ju Kim, Manho Park, Byoung-Kee Kim, Jung-Yeul

Yun: A Study on Pore Properties of Hastelloy Powder Porous Metal Fabricated by Electrostatic Powder Coating [full text PDF](#)

20. Cheenepalli Nagarjuna, Babu Madavali, Myeong-Won Lee, Suk-Min Yoon, Soon-Jik Hong: Reduction of Thermal Conductivity through the Dispersion of TiC Nanoparticles into a p-Type Bi_{0.5}Sb_{1.5}Te₃ Alloy by Ball Milling and Spark Plasma Sintering [full text PDF](#)

21. Kee-Ahn Lee, Joo Hyun Park, Yeun Ah Joo: Fabrication and Macroscopic Properties of Filler Metal (BCuP-5) on Cu-plate using Laser Cladding Process [full text PDF](#)

22. Jun Young Suh, Yo-Seung Song, Si Young Chang: Spark Plasma Sintering of Mn-Zn Ferrite Powders by High Energy Ball Milling [full text PDF](#)

23. Im Doo Jung, Jungho Choet, Jaecheol Yun, Sangsun Yang, Dong-Yeol Yang, Yong-Jin Kim, Ji-Hun Yu: Dual Speed Laser Remelting for High Densification in H13 Tool Steel Metal 3D Printing [full text PDF](#)

24. Eun-Jeong Yi, Keun-Young Yoon, Hyun-Ah Jung, Haejin Hwang: Stability of Garnet-Type Li₇La₃Zr₂O₁₂-Based Ceramics for All-Solid-State Batteries [full text PDF](#)

25. P. Sharief, B. Madavali, J.M. Koo, H.J. Kim, S. Hong, S.-J. Hong: Effect of Milling Time Parameter on the Microstructure and the Thermoelectric Properties of n-Type Bi₂Te_{2.7}Se_{0.3} Alloys [full text PDF](#)

26. Min-Soo Park, Hye-Young Koo, Yonh-Ho Park, Gook-Hyun Ha: Effects of Milling Duration on the Thermoelectric Properties of n-Type Bi₂Te_{2.7}Se_{0.3} [full text PDF](#)

27. M.W. Lee, J.K. Lee, T.S. Jang: Effect of Pre-Sintering on the Diffusion Treatment of HRE for Coercivity Enhancement of a NdFeB Sintered Magnet [full text PDF](#)

28. Manoj Kumar Pal, G. Gergely, D. Koncz-Horvath, Z. Gacsi: Influence of Ceramic Particles on the Microstructure and Mechanical Properties of SAC305 Lead-Free Soldering Material [full text PDF](#)

29. Suk Hoon Kang, Chang-Kyu Rhee, Sanghoon Noh, Tae Kyu Kim: Spray Deposition of Mechanically Alloyed F/M ODS Steel Powder [full text PDF](#)

30. Min Chul Oh†, Hyunjoo Seok†, Yeongcheol Jo, Byungmin Ahn: Novel Technique to Produce Hybrid P/M Components Using Dissimilar Ferrous Alloys [full text PDF](#)

31. Yeon-Ji Kang, Jong-Ho Kim, Jong-Il Hwang, Kee-Ahn Lee: Effect of T6 Heat Treatment on the Scratch Wear Behavior of Extruded Al-12wt.%Si Alloy [full text PDF](#)

32. Ju-Young Cho., Sardar Farhat Abbas, Yong-Ho-Choa, Taek-Soo Kim,: Effect of Powder Size on the Microstructure and Magnetic Properties of Nd-Fe-B Magnet Alloy [full text PDF](#)

33. S. Golak, B. Panic: Numerical Model of Large-Scale Levitation Melting Process [full text PDF](#)

34. B. Machulec, W. Bialik, S. Gil: Relation Between Active Power of the Submerged Arc Furnace and the Electric Energy Consumption Indicator in the Process of Ferrosilicon Smelting [full text PDF](#)

35. T. Maciąg, J. Wiecezorek, W. Kalsa: Surface Analysis of Abs 3D Prints Subjected to Copper Plating [full text PDF](#).

36. Małucha, G. Siwiec: Reduction of Lead Oxide by Fine-Grained Carbonaceous Materials [full text PDF](#).

37. J. Pieprzyca, T. Merder, M. Saternus, K. Gryc, L. Socha: The Influence of Parameters of Argon Purging Process Through Ladle on the Phenomena Occuring in the Area of Phase Distributions: Liquid Steel-Slag [full text PDF](#).

38. J. Sviželová, M. Tkadlečková, K. Michalek, J. Walek, M. Saternus, J. Pieprzyca, T.

Merder: Numerical Modelling of Metal Melt Refining Process in Ladle with Rotating Impeller and Breakwaters [full text PDF.](#)

39. O. Velgosova, A. Mražíková, L. Veselovský, J. Willner, A. Fornalczyk: Influence of Different Plants Extracts on Silver Nanoparticles Green Synthesis [full text PDF.](#)

40. M. Suliga: Effect of the Drawing Speed on the Delaminations in the Torsion Test of High-Carbon Steel Wires [full text PDF.](#)

41. B. Pisarek, C. Rapijko, T. Pacyniak: Effect of Intensive Cooling of Alloy AC- AlSi7Mg with Alloy Additions on Microstructure and Mechanical Properties [full text PDF.](#)

42. H. Paul, M.M. Miszczyk, A. Gałka, R. Chulist, Z. Szulc: Microstructural and Chemical Composition Changes in the Bonding Zone of Explosively Welded Sheets [full text PDF.](#)

43. Minhye Seo, Soo-Young Lee, Sung-Su Cho, Hyoung Woon Song, Hyun-Kyung Kim, Dong Soo Kim, Sungkyu Lee: Effect of NF_3 Gas on Stabilization of Alkaline Earth Metal-Cu Mordenite Catalysts During N_2O Decomposition Reaction [full text PDF.](#)

44. I. Schindler, M. Sauer, P. Kawulok, K. Rodak, E. Hadasik, M. Barbara Jabłońska, S. Rusz, V. Ševčák: Study of Hot Deformation Behavior of CuFe_2 Alloy [full text PDF.](#)

45. A. Munis, Maosheng Zheng, J.I. Akhter, M. Ahmad: Characterization of Bonded Zone and Evaluation of Cracking in Vacuum Brazed Zircaloy-4 and Stainless Steel-316L Joint [full text PDF.](#)

46. K. Glowka, M. Zubko, P. Świec, K. Prusik, G. Dercz, E. Matyja, D. Stróż: Microstructure of Multi-Component $\text{Ni}_{35}\text{Ti}_{35}\text{Ta}_{10}\text{Co}_{10}\text{Cu}_{10}$ Alloy [full text PDF.](#)

47. J. Wolny, I. Bugański, L. Pytlik, R. Strzałka: Statistical Description of Diffraction Pattern of Aperiodic Crystals [full text PDF.](#)

48. W. Maziarz, A. Wojcik, R. Chulist, M.J. Szczerba, M. Kowalczyk, P. Czaja, E. Cesari, J. Dutkiewicz: The Evolution of Microstructure and Magneto-structural Properties of Heat Treated Ni-Mn-Sn-In Heusler Alloys Sintered by Vacuum Hot Pressing [full text PDF.](#)

49. K. Prusik, E. Matyja, M. Wąsik, M. Zubko: Role of the Molybdenum Addition on the Mechanical Properties and Structure of the NiCoMnIn Alloys [full text PDF.](#)

50. M. Vončina, J. Medved, L. Jerina, I. Paulin, P. Cvahte, M. Steinacher: The Impact of Al-Ti-B Grain-Refiners from Different Manufacturers on Wrought Al-Alloy [full text PDF.](#)

51. A. Kucharczyk, K. Naplocha, M. Tomanik: Processing of Porous NiTi Preforms for NiTi/Mg Composites [full text PDF.](#)

52. M. Dziubaniuk, E. Drożdż, J. Wyrwa, M. Rękas: Microstructure and Porosity of 3YSZ Solid Electrolyte Prepared Using Organic Polymeric Matrix [full text PDF.](#)

53. R. Bogucki, M. Basiaga, A. Żyra: The Evaluation of Resistance to Cracking of $\text{Ti}_{10}\text{V}_2\text{Fe}_3\text{Al}$ Alloy Characterized by Different Morphology and Volume Fraction of α -Phase Precipitates [full text PDF.](#)

54. J. Zych, J. Piekło, M. Maj, A. Garbacz-Klempka, M. Piękoś: Influence of Structural Discontinuities on Fatigue Life of 4XXX0- Series Aluminum Alloys [full text PDF.](#)

55. M. Szklarska, B. Łosiewicz, G. Dercz, M. Zubko, R. Albrecht, D. Stróż: Characterization of Long-Term Corrosion Performance of Ti_{15}Mo Alloy in Saline Solution [full text PDF.](#)

56. J. Barczyk, G. Dercz, I. Matuła, M. Góral, J. Maszybrocka, D. Bochenek, W. Gurdziel: Microstructure and Properties of YSZ Coatings Prepared by Plasma Spray Physical Vapor Deposition for Biomedical Application [full text PDF.](#)

57. K. Glowka, M. Zubko, P. Świec, K. Prusik, G. Dercz, D. Stróż: Microstructure Analysis of Equiatomic Multi-Component $\text{Ni}_{20}\text{Ti}_{20}\text{Ta}_{20}\text{Co}_{20}\text{Cu}_{20}$ Alloy [full text PDF.](#)

58. K. Granek, G. Ziółkowski, A. Chrobak, J. Klimontko, J. Rak, O. Zivotsky, L. Gembalova:

Ultra-Fast Current Aided Sintering of High Coercive Magnetic Powders and Composites
[full text PDF.](#)

59. H. Dyja, A. Kawalek, K. Ozhmegov, K. Laber: The Study of the Effect of Alternate Intermittent Deformation on the Bauschinger Effect in a Zirconium-Based Alloy [full text PDF.](#)

60. S. Buszta, P. Myśliwiec, R. Ewa Śliwa, R. Ostrowski: The Influence of Geometrical Parameters and Tools Material on the Quality of the Joint Made by FSW Method in AA2024 Thin Sheets [full text PDF.](#)