

1. Heonseop Shin, Doyeon Han, Sanghoon Kim, Sungsoo Rhim, Calibration of Visco-Hyperelastic Model for Tensile Behavior of Porcine Skin [full text PDF](#)
2. Changho Jung, Moon G. Lee, Yongho Jeon, Analysis and Verification of Physical Properties of an AISI 4140 Steel by Vickers Indentation Analysis According to the Presence of Residual Stresses [full text PDF](#)
3. Seyul Kim, Yubin Kang, Leeseung Kang, Hyun Seon Hong, Chan Gi Lee, Pre-Treatment Characteristics for LCD Glass Recycling: Dismantling, Crushing, and Separation [full text PDF](#)
4. Su-Won Yang, Jeong-Gon Kim, Kwang-Pil Jeong, Han-Ui Shim, Seong-II Cho, Min-Young Kim, Change of Easy Magnetization Axis and Frequency of Reflection Loss by Co-Ti Substitution in Barium Ferrite [full text PDF](#)
5. Byungjoo Choi, In-Sik Cho, Do-Hyun Jung, Moon G. Lee, Yongho Jeon, Friction and Wear Behavior of Direct Metal Deposition on SUH3 [full text PDF](#)
6. Basudev Swain, Jae-Chun Lee, Dae-Guen Kim, Chan Gi Lee, Application of Hollow Fiber Supported Liquid Membrane for Extraction of Cobalt by Cyanex 272 [full text PDF](#)
7. Min-Jin Lee, Hyun-Ah Jung, Kyong-Jin Lee, Haejin Hwang, Fabrication of Agar-Silica Aerogel Nanocomposite Films [full text PDF](#)
8. S.S. Ahn, P. Sharief, C.H. Lee, H.T. Son, Y.H. Kim, Y.C. Kim, S. Hong, S.J. Hong, Effect of Trace Elements (Co, Cr) on the Microstructure and Physical Properties of Al-Si-Cu-Mg-Fe Extruded Alloy [full text PDF](#)
9. Seung-Jin Oh, Byoung-Cheol Kim, Man-Chul Suh, In-Jin Shon, Seok-Jae Lee, Influence of Carbon Content on Austenite Stability and Strain-induced Transformation of Nanocrystalline FeNiC Alloy by Spark Plasma Sintering [full text PDF](#)
10. A.B. Straumal, K.V. Tsoy, I.A. Mazilkin, A.N. Nekrasov, K. Bryła, Grain Boundary Wetting and Material Performance in an Industrial EZ33A Mg Cast Alloy [full text PDF](#)
11. Seong-Hee Lee, Microstructure and Mechanical Properties of as Cast Al-6.5Mg-1.5Zn-0.5Fe Alloy Followed by Cold Rolling and Subsequent Annealing [full text PDF](#)
12. Junghyun Noh, Seungyeon Park, Haejin Hwang, Kyoungmook Lim, Effect of Zr and Nb on the Electrical and Magnetic Properties of the Fe-Zr-Nb-B-Cu Alloy [full text PDF](#)
13. Sang Woo Lee, Hyunho Shin, Kyong Yop Rhee, Densification and Mechanical Properties of 439L Steel Composites Blended with Fifteen Micron-Size Silicon Carbide Particles [full text PDF](#)
14. Hyo-Jung Kim, Tae Hyeong Kim, Je Sik Shin, Seung Yeon Park, Soongkeun Hyun, Kyong Mook Lim, Effect of Surface Treatments on Cast-Bonding Characteristics of Steel-Aluminum Hybrid Composite Materials [full text PDF](#)
15. Minh Thuyet-Nguyen, Jin-Chun Kim, Phase Structure and Magnetic Properties of Intermetallic Cu-Ni Alloy Nanopowders Synthesized by the Electrical Explosion of Wire [full text PDF](#)
16. Hyun-gyu Lee, Sang-Hoon Choi, Jae-Jin Sim, Jae-Hong Lim, Soong-Keun Hyun, Jong-Hyeon Lee, Kyoung-Tae Park, Electrorefining of Indium Metal From Impure In-Sn Alloy in Fluoride Molten Salt [full text PDF](#)
17. Jae-Yeon Kim, Jung-Woo Hwang, Ki-Tae Yoo, Seung-Mi Lee, Chang-Young Hyun,

Ik-Keun Park, Jai-Won Byeon, Effect of Process Variables on Friction Stirred Microstructure and Surface Hardness of AZ31 Magnesium Alloy [full text PDF](#)

18. Jae-Yeon Kim, Hye-Young Kim, Hyun-Su Kim, Ki-Tae Yoo, Seung-Mi Lee, Won-Jon Yang, Jai-Won Byeon, Thermal Degradation Behavior of Ag Nanowire-Coated Transparent Conductive Film [full text PDF](#)

19. Yu-Jeong Yi, Min-Jeong Lee, Hyeon-Ju Kim, Sangsun Yang, Manho Park, Byoung-Keek Kim, Jung-Yeul Yun, Effect of Powder Shape and Sintering Temperature on the Preparation of Ni-Based Porous Metal [full text PDF](#)

20. Sanghoon Noh, Suk Hoon Kang, Tae Kyu Kim, Microstructures and Mechanical Properties of ODS Ferritic Stainless Steels for High Temperature Service Applications [full text PDF](#)

21. D. Koncz-Horváth, G. Gergely, Z. Gyökér, Z. Gácsi, Reliability Examinations of SAC Lead Free Solder Material [full text PDF](#)

22. Minseok Oh, Kwanil Kim, Byungmin Ahn, Correlation between Microstructure and Exothermic Reaction Kinetics of Al-CuO Thermite Nanocomposite Powders Fabricated by Cryomilling [full text PDF](#)

23. Ji-Won Yu, Sang-Hoon Choi, Jae-Jin Sim, Jae-Hong Lim, Kyoung-Deok Seo, Soong-Keon Hyun, Tae-Youb Kim, Bon-Woo Gu, Kyoung-Tae Park, Fabrication of 4N5 Grade Tantalum Wire from Tantalum Scrap by EBM and Drawing [full text PDF](#)

24. Jin-Young Park, Young-Choon Kim, Jae-Gyun Kim, Comparative Study on the Electrical and Mechanical Characteristics of Ni-30wt%Co and Cu-2wt%Be Alloy for Development of Semiconductor Test Probe Pin [full text PDF](#)

25. Ju-Yeon Han, Hyunji Kang, Sung-Tag Oh, Effect of Process Control Agent on the Microstructure of Ni-Based ODS Superalloy Produced by Mechanical Alloying and Sintering [full text PDF](#)

26. Sang-Hun Lee, Ki-Hwan Kim, Seoung-Woo Kuk, Jeong-Yong Park, Ji-Hoon Choi, Microstructural Characterization of U-10wt.%Zr Fuel Slugs Containing Rare-Earth Elements Prepared by Modified Injection Casting [full text PDF](#)

27. Dong-Jin Kim, Hyung-Giun Kim, Ji-Sun Kim, Kuk-Hyun Song, Properties of Pure Ti Implants Fabricated by Additive Manufacturing [full text PDF](#)

28. Sung Hwa Bae, Se Hun Han, Injoon Son, Kyung Tae Kim, Effect of Pd-P Layer on the Bonding Strength of Bi-Te Thermoelectric Elements [full text PDF](#)

29. S. Kac, G. Szwachta, Ł. Cieniek, T. Moskalewicz, Morphology and Structure of the Erbium Stabilized Bismuth Oxide Thin Films Deposited by PLD Technique [full text PDF](#)

30. W. Łogin, R.E. Śliwa, R. Ostrowski, J. Andres, The Influence of Tool Geometry for Refill Friction Stir Spot Welding (RFSSW) on Weld Properties During Joining Thin Sheets of Aluminum Alloys [full text PDF](#)

31. I. Dobosz, W. Gumowska, M. Czapkiewicz, Synthesis and Magnetic Properties of Fe Nanowire Arrays Electrodeposited in Self-Ordered Alumina Membrane [full text PDF](#)

32. Ł. Kuczek, W. Muzykiewicz, M. Mroczkowski, J. Wiktorowicz, Influence of Perforation of the Inner Layer on the Properties of Three-Layer Welded Materials Ordered Alumina Membrane [full text PDF](#)

33. S. Boczkal, M. Karaś, P. Korczak, D. Kapinos, P. Koprowski, W. Szymański, S. Wroński, The Influence of Plastic Forming Processes on the Dissolution Rate of Biocompatible Mg Alloys [full text PDF](#)

34. A. Żyra, R. Bogucki, S. Skoczypiec, An influence of Titanium Alloy Ti10V2Fe3Al

- Microstructure on the Electrodischarge Process Efficiency [full text PDF](#)
35. M. Karolus, J. Maszybrocka, A. Stwora, G. Skrabalak, Residual Stresses of AlSi10Mg Fabricated by Selective Laser Melting (SLM) [full text PDF](#)
36. P. Salwa, T. Goryczka, Influence of Milling Time on Formation of NiTi Alloy Produced by High-Energy Ball Milling [full text PDF](#)
37. S. Golba, M. Popczyk, S. Miga, J. Jurek-Suliga, M. Zubko, Electrical Conductivity and Morphology Study of Polyaniline Powder Synthesised with Various Doping Ions [full text PDF](#)
38. P. Kierlik, A. Hanc-Kuczkowska, R. Męczyński, I. Matuła, G. Dercz, Phase Composition of Urban Soils by X-Ray Diffraction and Mössbauer Spectroscopy Analysis [full text PDF](#)
39. R. Babilas, P. Wojciechowski, A. Bajorek, P. Sakiewicz, K. Cesarz-Andraczke, Corrosion Properties of Ca65-xMg17.5Zn17.5+x (x = 0, 2.5, 5) Alloys [full text PDF](#)
40. C. Jasiński, S. Świłło, A. Kocańda, Application of Two Advanced Vision Methods Based on Structural and Surface Analyses to Detect Defects in the Erichsen Cupping Test [full text PDF](#)
41. B. Skowrońska, T. Chmielewski, W. Pachla, M. Kulczyk, J. Skiba, W. Presz, Friction Weldability of UFG 316L Stainless Steel [full text PDF](#)
42. A. Skrzat, M. Wójcik, Ł. Bąk, Fuzzy Logic Enhancement of Material Strain Hardening Data Obtained in the Heyer's Test [full text PDF](#)
43. S. Mróz, A. Stefanik, P. Szota, Groove Rolling Process of Mg/Al Bimetallic Bars [full text PDF](#)
44. M. Hawryluk, D. Wilk-Kołodziejczyk, K. Regulski, M. Głowacki, Development of an Approximation Model of Selected Properties of Model Materials Used for Simulations of Bulk Metal Plastic Forming Processes Using Induction of Decision Trees [full text PDF](#)
45. S. Kut, P. Maj, T. Mrugała, Effect of Relative Thickness Reduction and Heat Treatment on AMS 5596 Sheet Mechanical Properties After Flow Forming [full text PDF](#)
46. P. Golewski, T. Sadowski, Application of Thermo-Bimaterial Effect in Designing of Snap-Fit Joints [full text PDF](#)
47. M. Bruna, A. Remišová, A. Sládek, Effect of Filter Thickness on Reoxidation and Mechanical Properties of Aluminium Alloy AlSi7Mg0.3 [full text PDF](#)
48. P. Hajduch, M.B. Djurdjevic, D. Bolibruchová, Z. Simicevic, Impact of Zirconium on the Structural and Mechanical Properties of Commercial AlSi10MgCu Alloys [full text PDF](#)
49. J. Winczek, M. Gucwa, M. Mičian, R. Koňár, S. Parzych, The Evaluation of the Wear Mechanism of High-Carbon Hardfacing Layers [full text PDF](#)
50. R. Koňár, M. Mičian, M. Boháček, M. Gucwa, Identification of Lack of Fusion and Incomplete Penetration in Butt Weld Joint by Ultrasonic Phased Array Method and X-Ray Method [full text PDF](#)
51. I. Bednarczyk, Microstructure and Properties of Magnesium Alloy AZ61 After Extrusion with KoBo Method [full text PDF](#)
52. I. Nowotyńska, S. Kut, The influence of Die Shape and Back Tension Force on its Wear in the Process of Wire Drawing [full text PDF](#)
53. A. Milenin, P. Kustra, M. Wróbel, M. Paćko, D. Byrska-Wójcik, Comparison of the Stress Relaxation of Biodegradable Surgical Threads Made of Mg and Zn Alloys and Some Commercial Synthetic Materials [full text PDF](#)
54. A.M. Stręk, B. Lipowska, K. Wańczyk, Selected Aspects of Manufacturing of Aluminium Sponge [full text PDF](#)

55. J. Marcisz, J. Janiszewski, Mechanical Behaviour of Nanostructured Bainitic Steel Under High Strain Rate Shear and Compression Loading [full text PDF](#)
56. P. Radha, N. Selvakumar, R. Harichandran, Computational Intelligence for Analysing the Mechanical Properties of AA 2219 - (B₄C + h-BN) Hybrid Nano Composites Processed by Ultrasound Assisted Casting [full text PDF](#)
57. Missam Irani, Mansoo Joun, Practical Approach to Determining Dynamic Recrystallization Parameters Using Finite Element Optimization of Backward Extrusion Process [full text PDF](#)
58. Joong-Hwan Jun, Dependence of Room Temperature Tensile Properties on Volume Fraction of Discontinuous Precipitates in Cast AZ91 Magnesium Alloy [full text PDF](#)
59. J. Michalczyk, S. Wiewiórska, Z. Muskalski, Development and Modelling of a Novel Process of Manufacturing Cylindrical Products with a Variable Longitudinal-Section Stub Pipe [full text PDF](#)
60. K. Tavaei, A. Meysami, Effects of V-Ti on Dynamic Recrystallization Behavior and Hot Deformation Activation Energy of 30MSV6 Micro-alloyed Steel [full text PDF](#)