

1. R. Shashanka, Orhan Uzun, D. Chaira, Synthesis of nano-structured duplex and ferritic stainless steel powders by dry milling and its comparison with wet milling [full text PDF](#)
2. T. Ramkumar, S. Madhusudhanan, I. Rajendran, Effect of Nickel on the Microstructure, Mechanical and Tribological Properties of Austempered Ductile Cast Iron for Steering Knuckle Applications [full text PDF](#)
3. M. Bartosiewicz, A. Cwudziński, Influence of Modern Ladle Shroud on Hydrodynamic Structure in One Strand Slab Tundish [full text PDF](#)
4. J. Ryba, M. Kawalec, E. Tyrała, H. Krawiec, Effect of Thermal Treatment of Biomedical Ti-6Al-4V Alloy on Corrosion Resistance in Simulated Physiological Solutions [full text PDF](#)
5. J. Górka, Assessment of the Corrosion Resistance, Properties and the Structure of TIG Braze Welded Galvanised Steel Sheets [full text PDF](#)
6. M. Koralnik, A. Dobkowska, B. Adamczyk-Cieslak, J. Mizera, The Influence of the Microstructural Evolution on the Corrosion Resistance of Cold Drawn Copper Single Crystals in NaCl [full text PDF](#)
7. J. Żmudzki, G. Chladek, K. Panek, P. Lipiński, Finite Element Analysis Of Adolescent Mandible Fracture Occurring During Accidents [full text PDF](#)
8. A. Woźniak, M. Adamiak, G. Chladek, J. Kasperski, The Influence of the Process Parameters on the Microstructure and Properties SLM Processed 316 L Stainless Steel [full text PDF](#)
9. P. Konečný, P. Lehner, D. Vořechovská, M. Šomodíková, M. Horňáková, P. Rovnaníková, Evaluation of Durability-Related Field Inspection Data from Concrete Bridges Under Service [full text PDF](#)
10. A. Biedunkiewicz, E. Dembowska, P. Figiel, W. Biedunkiewicz, Electrochemical Behavior of Titanium Implants in Artificial Saliva After Laser Surface Treatment [full text PDF](#)
11. A. Biryukov, R. Galin, D. Zakharyevich, A. Wassilkowska, A. Kolesnikov, T. Batmanova, A Layer-by-Layer Analysis of the Corrosion Properties of Diffusion Zinc Coatings [full text PDF](#)
12. M. Cieslik, K. Darowicki, Intergranular Corrosion Detection Using Electromagnetic Transducers for Ultrasonic Testing [full text PDF](#)
13. A. Jażdżewska, M. Gruszka, R. Mazur, J. Orlikowski, J. Banaś, Determination of the Effect of Environmental Factors on the Corrosion of Water Distribution System Based on Analysis of On-line Corrosion Monitoring Results [full text PDF](#)
14. R. Filipek, K. Szyszkiewicz-Warzecha, J. Szczudło, Corrosion of Steel in Concrete - Modeling of Electrochemical Potential Measurement in 3D Geometry [full text PDF](#)
15. Magdalene Edet Ikpi, Fidelis Ebunta Abeng, Electrochemical and Quantum Chemical Investigation on Adsorption of Nifedipine as Corrosion Inhibitor at API 5L X-52 Steel / HCl Acid Interface [full text PDF](#)
16. E. Skolek, J. Kamiński, S. Marciniak, W.A. Świątnicki, Corrosion Resistance of the Nanostructured X37CrMoV5-1 Steel [full text PDF](#)
17. J.J. Jasinski, Investigation of Bio-Functional Properties of Titanium Substrates After Hybrid Oxidation [full text PDF](#)
18. H. Krawiec, V. Vignal, J. Lelito, A. Krystianiak, E. Tyrała, Influence of the Heat

Treatment on the Microstructure and Corrosion Resistance of Austempered Ductile Iron (ADI) [full text PDF](#)

19. K. Domagała, M. Borlaf, D. Kata, T. Graule, Synthesis of Copper-based Multi-walled Carbon Nanotube Composites [full text PDF](#)

20. P. Czaja, M. Piasecki, M.B. Zapart, J. Suchanicz, K. Konieczny, J. Michniowski, D. Sitko, G. Stachowski, K. Kluczevska-Chmielarz Significant Increment of the Dielectric Permittivity and Domain Properties in the  $(1-x)\text{PbTiO}_3-x(\text{Na}_0.5\text{Bi}_0.5)\text{TiO}_3$  Crystals [full text PDF](#)

21. J. Orlikowski, A. Jażdżewska, K. Jurak, Research on Organic Coatings Designed for Underwater Applications [full text PDF](#)

22. P. Kwolek, Effect of  $\text{Na}_3\text{VO}_4$  Inhibitor on the Corrosion Resistance of  $\text{Al}_2\text{Cu}$  Intermetallic Phase in  $\text{H}_3\text{PO}_4$  Aqueous Solution [full text PDF](#)

23. D. Kapinos, M. Szymanek, B. Augustyn, S. Boczek, W. Szymański, T. Tokarski, J. Lelito, The Effect of Rare Earth Addition on Microstructure and Mechanical Properties of the Rapidly Solidified Al-Si and Al-Si-Ni Alloys [full text PDF](#)

24. M. Hawryluk, B. Mrzygłód, Z. Gronostajski, M. Głowacki, I. Olejarczyk-Woźeńska, Application of Artificial Neural Networks in the Analysis of Mechanisms Destroying Forging Tools [full text PDF](#)

25. M. Nadolski, G. Stradomski, K. Zdunek, S. Okrasa, Physical Modelling of the Production of an Alloy Vapour Source for the Synthesis of Dielectric Material [full text PDF](#)

26. M. Adamczyk-Habrajska, T. Goryczka, D. Szalbot, J. Dzik, M. Rerak, D. Bochenek, Influence of Lanthanum Dopant on the Structure and Electric Properties of  $\text{BaBi}_2\text{Nb}_2\text{O}_9$  Ceramics [full text PDF](#)

27. M. Hycza-Michalska, Physical and Numerical Modeling of the Manufacturing Process of a Complex Shape Pressed Element from a Nickel Superalloy [full text PDF](#)

28. K. Mech, MHD Supported Electroreduction of Formate Nickel Complexes with Simultaneous Incorporation of  $\text{TiO}_2$  Particles [full text PDF](#)

29. J. Michalczyk, S. Wiewiórowska, New Unconventional Processes of Plastic Forming of the Internal Tothing of Coupling Spline Sleeves [full text PDF](#)

30. G. Golański, A. Merda, K. Klimaszewska, P. Wieczorek, Examinations of the Welded Joint T91 Steel After Service at Elevated Temperature [full text PDF](#)

31. J. Adamiec, N. Konieczna, The Welded Joints Structure of the Inconel 617 Alloy Designed for High Temperature Operation in Supercritical Parameters Boilers [full text PDF](#)

32. H. Sadłowska, Ł. Morawiński, C. Jasiński, Strain Measurements in Free Tube Hydroforming Process [full text PDF](#)

33. E. Postek, T. Sadowski, High-Velocity Impact of 2-Phase WC/Co Composite Plate - Beginning of the Process [full text PDF](#)

34. Mingyin Kou, Heng Zhou, Shengli Wu, Yansong Shen, Static Model Study on the Characteristics of Coke Oven Gas Dome Injection in COREX Melter Gasifier [full text PDF](#)

35. K. Zyguła, M. Wojtaszek, The Design of Ti-5Al-5Mo-5V-3Cr Elemental Powders Mixture Processing [full text PDF](#)

36. R. Strzałka, I. Bugański, J. Śmietańska, J. Wolny, Structural Disorder in Quasicrystals [full text PDF](#)

37. Magdalene Edet Ikpi, Okama Eberi Obono, Corrosion Inhibition of API 5L X52 Carbon Steel by 1-ethyl-3-methylimidazoliummethanesulphonate

- and 1-ethyl-3-methylimidazolium Acetate Ionic Liquids in Hydrochloric Acid [full text PDF](#)
38. Lin Ma, Shiyu Niu, Shude Ji, Peng Gong, Comparative Study of 2060-T8 Al-Li Alloy Friction Stir Welded Joints Between Natural Cooling and Water Cooling [full text PDF](#)
39. Bo Dong, Jian-Hui Wu, Jun Wu, Xian-Peng Zhang, Jing-Jun Zhai, Carrolite Leaching in H<sub>2</sub>SO<sub>4</sub>-NaClO<sub>3</sub> Media at Atmospheric Pressure [full text PDF](#)
40. M. Laubertova, T. Havlik, L. Parilak, B. Derin, J. Trpcevska, The Effects of Microwave-Assisted Leaching on the Treatment of Electric Arc Furnace Dusts (EAFD) [full text PDF](#)
41. A. Stefanik, P. Szota, S. Mróz, Analysis of the Effect of Rolling Speed on the Capability to Produce Bimodal-Structure AZ31 Alloy Bars in the Three-High Skew Rolling Mill [full text PD](#)
42. Ga Eon Kim, Tae Kyu Kim, Sanghoon Noh, Difference of Microstructures and Mechanical Properties between 9Cr-1W Ferritic/martensitic Steel and ODS Steel [full text PD](#)
43. B. Bauer, I. Mihalic Pokopec, M. Petrič, P. Mrvar, Prediction of Chunky Graphite in Nodular Cast Iron on the Base of Numerical Simulation and Experimental Data [full text PD](#)
44. Urtnasan Erdenebold, Choi Moo Sung, Jei-Pil Wang, Manufacture of Low Sulphur Pig Iron from Copper Slag [full text PD](#)
45. Vineet Tirth, Amir Arabi, Effect of Liquid Forging Pressure on Solubility and Freezing Coefficients of Cast Aluminum 2124, 2218 and 6063 Alloys [full text PD](#)
46. P. Papliński, J. Wańkowicz, H. Śmietanka, P. Ranachowski, Z. Ranachowski, S. Kudela Jr, M. Aleksiejuk, Comparative Studies on Degradation of Varistors Subjected to Operation in Surge Arresters and Surge Arrester Counters [full text PD](#)
47. J. Kamiński, K. Małkiewicz, J. Rębiś, T. Wierzchoń, The Effect of Glow Discharge Nitriding on the Corrosion Resistance of Stainless Steel Orthodontic Arches in Artificial Saliva Solution [full text PD](#)
48. Badiâ Ait El Haj, Aboubakr Bouayad, Mohammed Alami, Effect of Titanium Addition on the Pro-Eutectic and Eutectic Phases of AlSi9 Cast Alloy [full text PD](#)
49. Shih-Hsien Chang, Chih-Yao Chang, Kuo-Tsung Huang, Study on the Sintered Characteristics and Properties of Co-30 mass% Cr Alloys under Various Vacuum Hot-Press Sintering Temperatures and Pressures [full text PD](#)
50. W. Wołczyński, Entropy Production in the Stationary Eutectic Growth [full text PD](#)
51. D. Niemiec, M. Mikuśkiewicz, Effect of Ultrasonic-Assisted Preparation of Powders on Synthesis of Rare Earth Zirconates [full text PD](#)
52. W. Presz, Influence of Experimental Setup Parameters on Ultrasonic Assisted Micro-Upsetting [full text PD](#)
53. Xu Jia Ning, Yang Hong Ying, Tong Lin Lin, Adsorption Behavior of Glucuronic Acid on Pyrite Surface: An electrochemical and DFT Study [full text PD](#)
54. Namdev A. Patil, Srinivasa Rao Pedapati, Othman Bin Mamat, A Review on Aluminium Hybrid Surface Composite Fabrication Using Friction Stir Processing [full text PD](#)
55. S. Parsamehr, A. Boochani, E. Sartipi, M. Amiri, S. Solaymani, S. Naderi, A. Aminian, Mechanic, Half-Metallic and Thermoelectric Properties of the PdZrTiAl under pressure: A DFT study [full text PD](#)
56. A. Kapuścińska<sup>1</sup>, L. Kwiatkowski, P. Wach, A. Mazurek, R. Diduszko, Anticorrosion Properties and Morphology of Phosphate Coating Formed on Nitrided Surface of 42CrMo4

Steel [full text PD](#)

57. M. Sozańska, A. Mościcki, B. Chmiela, Characterization of Corrosion and Stress Corrosion Cracking of AE44 Magnesium Alloy [full text PD](#)

58. W. Osuch, R. Błoniarz, G. Michta, I. Suliga, Evolution of the Dislocation Structure of Iron Meteorite [full text PD](#)

59. A. Kociubiński, D. Zarzeczny, M. Prendecka, D. Pigoń, T. Małecka-Massalska, Nichrome Capacitors on Polycarbonate Substrate for Monitoring Cell Culture Using Impedance Sensing Technique [full text PD](#)

60. K. Major-Gabryś, M. Hosadyna-Kondracka, S. Puzio, J. Kamińska, M. Angrecki, The Influence of the Modified Ablation Casting on Casts Properties Produced in Microwave Hardened Moulds with Hydrated Sodium Silicate Binder [full text PD](#)