

[In memoriam. Profesor Leopold Jeziorski \(1931-2016\)](#)

1. M. Leśniak, J. Partyka, M. Sitarz, Influence of SiO₂/Al₂O₃ Molar Ratio on Phase Composition and Surfaces Quality of Aluminum Silicate Sanitary Glazes in the SiO₂-Al₂O₃-CaO-Na₂O System [full text pdf](#)
2. M. Sitarz, M. Drajewicz, R. Jadach, E. Długoń, M. Leśniak, M. Reben, A. Wajda, M. Gawęda , B. Burtan-Gwizdała, Optical and Mechanical Characterization of Zirconium Based Sol-Gel Coatings on Glass [full text pdf](#)
3. D. Michalik, T. Pawlik, J. Plewa, M. Sopicka-Lizer, Influence of Homogenization and Micro/Nano Source of Starting Powders on Formation of the Single YAP Phase [full text pdf](#)
4. B. Wodecka-Duś, M. Adamczyk, T. Goryczka, J. Dzik, D. Radoszewska, L. Kozielski, D. Bochenek, The Technology and Structural Properties of Special Glass Modified (Ba_{0.6}Pb_{0.4})TiO₃ Ceramics [full text pdf](#)
5. A. Miklaszewski, Corrosion Resistance of Titanium Based Composites Reinforced with In Situ TiB Precipitation Phase [full text pdf](#)
6. D. Hadryś, Mechanical Properties of Plug Welds after Micro-Jet Cooling [full text pdf](#)
7. A. Lisiecki, Comparison of Titanium Metal Matrix Composite Surface Layers Produced during Laser Gas Nitriding of Ti6Al4V Alloy by Different Types of Lasers [full text pdf](#)
8. M. Restecka, R. Wolniak, It Systems in Aid of Welding Processes Quality Management in the Automotive Industry [full text pdf](#)
9. R. Kaczyński, G. Rogowski, B. Hościło, The Use of Instrumental Hardness Measurements in Determining Stresses in the Elastic Elements of a Manipulator for Servicing Water and Sewage Networks [full text pdf](#)
10. Heng Zhou, Zhiguo Luo, Tao Zhang, Yang You, Haifeng Li, Zongshu Zou, Influence of Rolling Friction Coefficient on Inter-particle Percolation in a Packed Bed by Discrete Element Method [full text pdf](#)
11. A. Strkalj, Z. Glavas, L. Slokar, Microstructural and Equilibrium Adsorption Study of the System of Waste Foundry Molding Sand/Cu (II) Ions [full text pdf](#)
12. Luo Junting, Xue Yahong, Liu Yongkang , Li Jianyong, Zhao Shuangjing, Stress and Strain Analysis and Microstructure of Al/Cu Clad Composite Fabricated by Cold Extrusion [full text pdf](#)
13. J. Petrík, On the Load Dependence of Micro-Hardness Measurements: Analysis of Data by Different Models and Evaluation of Measurement Errors [full text pdf](#)
14. A. Rybak, Au. Rybak, W.Kaszuwara, Characterization of Selected Parameters of Organic-Inorganic Hybrid Membranes Based on Various Polymers and Nd-Fe-B Fillers [full text pdf](#)
15. T. Giętka, K. Ciechacki, Modeling of Railway Wheels Made of Austempered Ductile Iron [full text pdf](#)
16. W. Żórawski, M. Makrenek, A. Góral, Mechanical Properties and Corrosion Resistance of HVOF Sprayed Coatings Using Nanostructured Carbide Powders [full text pdf](#)
17. D. Kołacz, S. Księżarek, M. Woch, J. Karwan-Baczewska, M. Staszewski, K. Rudnicki, P. Borkowski, A. Sieniecki, Nanocrystalline Ag-Re Composite as a Potential Material for Electric Contacts Fabrication [full text pdf](#)
18. K. Laber, A. Kawałek, S. Sawicki, H. Dyja, J. Borowski, D. Leśniak, H. Jurczak,

- Investigations of Plasticity of Hard-Deformed Aluminium Alloys of 5xxx Series Using Torsion Plastometer [full text pdf](#)
19. B. Leszczyńska-Madej, M. Madej, The Tribological Properties and the Microstructure Investigations of Tin Babbitt with Pb Addition after Heat Treatment [full text pdf](#)
20. J. Piekło, M. Maj, Analysis of the State of Stress in Cathode Block of an Aluminium Electrolytic Cell During Formati of Connection with the Steel Pin by Cast Iron Pouring [full text pdf](#)
21. A. Mamala, T. Knych, P. Kwaśniewski, A. Kawecki, G. Kiesiewicz, E. Sieja-Smaga, W. Ściążor, M. Gniećzyk, R. Kowal, New Al-Ag Alloys for Electrical Conductors with Increased Current Carrying Capacity [full text pdf](#)
22. M. Opaliński, P. Mazuro, A. Klasik, E. Rostek, Tribological Examinati on of Different Steel Materials after Special Heat Treatment and Salt Bath Nitriding [full text pdf](#)
23. P. Panek, The Influence of the Base Material Parameters on Quantum and Photoconversion Efficiency of the Si Solar Cells [full text pdf](#)
24. M. Scendo, N. Radek, J. Konstanty, K. Staszewska, Sliding Wear Behaviour and Corrosion Resistance to Ringer's Solution of Uncoated and DLC Coated X46Cr13 Steel [full text pdf](#)
25. K. Sołek, P. Kapranos, Rheology of Stellite TM 21 Alloy in Semi-Solid State [full text pdf](#)
26. M. Tenerowicz, M. Sułowski, Fractography of Sinteraustempered and Sinterhardened Fe-3Mn-0.8C PM Steels [full text pdf](#)
27. K. Kołczyk, M. Wojnicki, D. Kutyła, .R, Kowalik, P. Żabiński, A. Cristofolini, Separation of Ho³⁺ in Static Magnetic Field [full text pdf](#)
28. A. Poskart, H. Radomiak, P. Niegodajew, M. Zajemska, D. Musiał,The Analysis of Nitrogen Oxides Formation during Oxygen - Enriched Combustion of Natural Gas [full text pdf](#)
29. Z. Świątek, I. Fodchuk, X-Ray Topography of the Subsurface Crystal Layers in the Skew Asymmetric Reflection Geometry [full text pdf](#)
30. D. Kalisz, S. Gerasin, P. Bobrowski, P.L. Żak, T. Skowronek, Computer Simulation of Microsegregation of Sulphur and Manganese and Formation of MnS Inclusions While Casting Rail Steel [full text pdf](#)
31. M. Winnicki ,M. Rutkowska-Gorczyca, A. Małachowska, T. Piwowarczyk, A. Ambroziak, Microstructure and Corrosion Resistance of Aluminium and Copper Composite Coatings Deposited by LPCS Method [full text pdf](#)
32. A.M. Elnaggar, A. Albassam, K. Ożga, J. Jędryka, M. Szota, G. Myronchuk, Photoinduced Operation by Absorption of the Chalcogenide Nanocrystallite Containing Solar Cells [full text pdf](#)
33. M. Nabiałek, Reduced Glass-Transition Temperature Versus Glass-Forming Ability in FeCoB-Based Amorphous Alloys [full text pdf](#)
34. A.M. Wittek, D. Gańska, B. Łazarz, T. Matyja, Effect of Shot Peening on the Fatigue Strength of Automotive Tubular Stabilizer Bars DC 218 [full text pdf](#)
35. A. Smalcerz, J. Barglik, D. Kuc, K. Ducki, S. Wasiński,The Microstructure and Mechanical Properties of Cylindrical Elements from Steel 38Mn6 after Continuous Induction Heating [full text pdf](#)
36. T. Giętka, K. Ciechacki, T. Kik, Numerical Simulation of Duplex Steel Multipass Welding [full text pdf](#)
37. A.N. Wieczorek, Influence of Shot Peening on Abrasion Wear in Real Conditions of Ni

- Cu-Ausferritic Ductile Iron [full text pdf](#)
38. S. Wiewiórowska, Z. Muskalski, M. Siemiński, The Analysis of "Hot" Drawing Process of TRIP Steel Wires at Different Initial Temperatures [full text pdf](#)
39. D. Wilk-Kołodziejczyk, Supporting the Manufacturing Process of Metal Products with the Methods of Artificial Intelligence [full text pdf](#)
40. M. Różański, M. Morawiec, A. Grajcar, S. Stano, Modified Twin-Spot Laser Welding of Complex Phase Steel [full text pdf](#)
41. P. Rokicki, K. Dychton, Acetylene Flow Rate as a Crucial Parameter of Vacuum Carburizing Process of Modern Tool Steels [full text pdf](#)
42. A. Cwudziński, J. Jowsa, P. Przegięlek, Interaction of Liquid Steel with Mould Flux in Continuous Casting Bloom Mould - Numerical Simulations and Industrial Experiences [full text pdf](#)
43. A. Gołdasz, Z. Malinowski, Heat Flux Identification at the Charge Surface During Heating in Chamber Furnace [full text pdf](#)
44. B. Hadała, Z. Malinowski, T. Telejko, Analysis of the Slab Temperature, Thermal Stresses and Fractures Computed with the Implementation of Local and Average Boundary Conditions in the Secondary Cooling Zones [full text pdf](#)
45. A.M. Hutny, M. Warzecha, W. Derda, P. Wieczorek, Segregation of Elements in Continuous Cast Carbon Steel Billets Designated for Long Products [full text pdf](#)
46. J. Jowsa, M. Bielnicki, A. Cwudziński, Physical and Numerical Investigations of Mould Flux Entrainment Into Liquid Steel [full text pdf](#)
47. G. Kwinta, S. Kara, B. Kalandyk, R. Zapała, P. Pałka, Microstructure Examinations in Corners of the Low-Carbon Steel Slabs From Continuos Caster Machine [full text pdf](#)
48. J. Pieprzyca, P. Warzecha, T. Merder, M. Warzecha, Experimental Methods of Validation for Numerical Simulation Results on Steel Flow through Tundish [full text pdf](#)
49. M. Rywotycki, The Influence of the Model Selected Parameter Measurement Error on the Accuracy of Heat Transfer Coefficient Determination Method for Contact between Rolls and the Cast Strand [full text pdf](#)
50. P. Warzecha, A. M. Hutny, M. Warzecha, T. Merder, Optimization of Steel Flow in the Tundish by Modifying its Working Area [full text pdf](#)
51. K. Miłkowska - Piszczeck, The Effect of Thermophysical Parameters on Temperature Distribution in the Primary Cooling Zone [full text pdf](#)
52. H. Kania, K. Nowacki, Optimization of Chemical Composition of the Mould Powder for Casting Ø 170 mm Billets from C45 Steel [full text pdf](#)
53. D. Kalisz, P.L. Żak, K. Kuglin, Analysis of Agglomeration of Al₂O₃ Particles in Liquid Steel [full text pdf](#)
54. I. Izdebska-Szanda, J. Kamińska, M. Angrecki, A. Palma, W. Madej, An Innovative Method for the Dehydration Hardening of Modified Inorganic Binders [full text pdf](#)
55. T. Szymczak, G. Gumienny, T. Pacyniak, Hypoeutectic Silumin to Pressure Die Casting with Vanadium and Tungsten [full text pdf](#)
56. N. Kaźnica, J. Zych, Effectiveness of Protective Action of Coatings from Moisture Sorption into Surface Layer of Sand Moulds [full text pdf](#)
57. D. Wilk-Kołodziejczyk, S. Kluska-Nawarecka, K. Regulski, W. Adrian, K. Jaśkowiec, Austempered Ductile Iron Manufacturing Data Acquisition Process with the Use of Semantic Techniques [full text pdf](#)
58. A. Klasik, M. Maj, K. Pietrzak; A. Wojciechowski; J. Sobczak, Fatigue Life and [full text pdf](#)

- Microstructure after Multiple Remelting of A359 Matrix Composites Reinforced with SiC Particles [full text pdf](#)
59. A. Kmita, D. Drożyński, J. Mocek , A. Rocznia k , J. Zych , M. Holtzer, Gas Evolution Rates of Graphite Protective Coatings in Dependence on the Applied Solvent and Kind of Atmosphere [full text pdf](#)
60. A.W. Bydałek, S. Biernat, P. Schlafka, M. Holtzer, W. Wołczyński, F. Bydałek, The Influence of the Chemical Composition of Selected Waste Materials from the Production of Copper on the Final Environmental Assessment [full text pdf](#)
61. A. Kmita, A. Pribulova, M. Holtzer, P. Futas, A. Rocznia k, Use of Specific Properties of Zinc Ferrite in Innovative Technologies [full text pdf](#)
62. P. Nawrocki, A. Kochański, D. Myszka, Statistical Assessment of the Impact of Elevated Contents of Cu and Ni on the Properties of Austempered Ductile Iron [full text pdf](#)
63. M. Łucarz, R. Dańko, M. Dereń, M. Skrzyński, Investigation of the Results of Combined Reclamation on the Particular Stages of Grain Matrix Recovery [full text pdf](#)
64. E. Guzik, M. Sokolnicki, M. Królikowski , M. Ronduda, A. Nowak, Prediction of Microstructure in ADI Castings [full text pdf](#)
65. E. Kolczyk, Z. Miczkowski, J. Czernecki, Influence of Selected Parameters on Reduction of Converter Slag - Studies with CFD Method [full text pdf](#)
66. M. Holtzer, R. Dańko, S. Żymankowska-Kumon, M. Kubicki, A. Bobrowski, Assessment of the Harmfulness of Moulding Sands with Alkyd Resin Subjected to the High Temperature Influence [full text pdf](#)
67. T. Moskalewicz, A. Babkiewicz, B. Dubiel, M. Kot, A. Radziszewska, A. Łukaszczuk, Porous SiO₂/HAp Coatings On Cp-Titanium Grade 1 Surfaces Produced by Electrophoretic Deposition [full text pdf](#)
68. A. Uniwersał, M. Wróbel, S. Wroński, I. Kalemba-Rec, M. Wroński, K. Wierzbanowski, A. Baczmiański, B. Bacroix, The Effect of Low Deformation Asymmetric Rolling on Microstructure and Texture of the Polycrystalline Copper [full text pdf](#)