

1.

M. Kremzer, M. Dziekońska, M. Sroka, B. Tomiczek, Abrasive Wear of AlSi12-Al₂O₃ Composite Materials Manufactured by Pressure Infiltration [full text pdf](#)

2.

P.M. Nuckowski, W. Kwaśny, Z. Rdzawski, W. Głuchowski, M. Pawlyta, Influence of the Repetitive Corrugation on the Mechanism Occuring During Plastic Deformation of CuSn6 Alloy [full text pdf](#)

3.

D. Pakuła, M. Staszuk, K. Gołombek, A. Śliwa, J. Mikuła, Structure and Properties of the Tool Ceramics with Hard Wear Resistant Coatings [full text pdf](#)

4.

J. Hájek, A. Kříž, O. Chocholatý, D. Pakuła, Effect of Heat Treatment on Microstructural Changes in Aluminium Bronze [full text pdf](#)

5.

M. Polok-Rubiniec, J. Konieczny, K. Labisz, A. Włodarczyk-Fligier, Microstructure and Service Properties of Copper Alloys [full text pdf](#)

6.

Ł. Reimann, Electrochemical Characteristics of a Cobalt Alloy with a Protective Passive Layer [full text pdf](#)

7.

M. Król, T. Tański, Surface Quality Research for Selective Laser Melting of Ti-6Al-4V Alloy [full text pdf](#)

8.

J. Trzaska, Empirical Formulas for the Calculations of the Hardness of Steels Cooled from the Austenitizing Temperature [full text pdf](#)

9.

M. Pawlyta, K. Labis, K. Matus, Phase Identification of Nanometric Precipitates in Al-Si-Cu Aluminum Alloy by HR-STEM Investigations [full text pdf](#)

10.

E. Jonda, Z. Brytan, K. Labisz, A. Drygała, The Influence of Laser Surface Alloying on the Thermal Fatigue Resistance of Hot Work Tool Steels [full text pdf](#)

11.

M. Sroka, A. Zieliński, J. Mikuła, The Service Life of the Repair Welded Joint of Cr-Mo / Cr-Mo-V [full text pdf](#)

12.

T. Tański, K. Labisz, M. Krupiński, K. Lukaszewicz, Ł. Krzemiński, Structure and Properties of Diamond-Like Carbon Films Deposited by PACVD Technique on Light Alloys [full text pdf](#)

13.

P. Malara, Z. Czech, W. Świdorski, Influence of the Light Source and Curing Parameters on Microhardness of a Silorane-Based Dental Composite Material [full text pdf](#)

14.

J. Konieczny, K. Labisz, M. Polok-Rubiniec, A. Włodarczyk-Fligier, Influence of Aluminium Alloy Anodizing and Casting Methods on Structure and Functional Properties [full text pdf](#)

15.

W. Pakieła, L. A. Dobrzański, K. Labisz, T. Tański, K. Basa, M. Roszak, The Effect of Laser Surface Treatment on Structure and Mechanical Properties Aluminium Alloy ENAC-AMg9 [full text pdf](#)

16.

A. Włodarczyk-Fligier, K. Labisz, M. Polok-Rubiniec, J. Konieczny, Application of Anodization Process for Cast Aluminium Surface Properties Enhancement [full text pdf](#)

17.

B. Ziębowicz, A. Ziębowicz, B. Bączkowski, W. Kajzer, A. Kajzer, Biomechanical Analysis of Individual All-Ceramic Abutments Used in Dental Implantology [full text pdf](#)

18.

A. Czupryński, J. Górka, M. Adamiak, B. Tomiczek, Testing of Flame Sprayed Al₂O₃ Matrix Coatings Containing TiO₂ [full text pdf](#)

19.

A. Śliwa, J. Mikula, K. Gołombek, W. Kwaśny, D. Pakula, Internal Stresses in PVD Coated Tool Composites [full text pdf](#)

20.

W. Habrat, M. Motyka, K. Topolski, J. Sieniawski, Evaluation of the Cutting Force Components and the Surface Roughness in the Milling Process of Micro- and Nanocrystalline Titanium [full text pdf](#)

21.

W. Szkliniarz, A. Szkliniarz, Fundamentals of Manufacturing Technologies for Aircraft Engine Parts Made of TiAl Based Alloys [full text pdf](#)

22.

Ł. Major, M. Janusz, J.M. Lackner, B. Major, Contribution of Titanium, Chromium and Carbon Buffer Interlayers to Bio-Tribological Properties of Multilayer Composites [full text pdf](#)

23.

R. Major, R. Kustos, K. Trembecka-Wójciga, J.M. Lackner, B. Major, Development of Surface

Modification Methods for ReligaHeart® Cardiac Support System [full text pdf](#)

24.

D. Hadryś, T. Węgrzyn, J. Piwnik, Z. Stanik, W. Tarasiuk, The Use of Compressed Air for Micro-Jet Cooling after MIG Welding [full text pdf](#)

25.

R. Walczak, J. Pawlicki, A. Zagórski, Tightness and Material Aspects of Bolted Flange Connections with Gaskets of Nonlinear Properties Exposed to Variable Loads [full text pdf](#)

26.

M. Łępicka, M. Grądzka-Dahlke, Surface Modification of AISI 440B Stainless Steel and Its Influence on Surgical Drill Bits Performance [full text pdf](#)

27.

K. Wojsyk, G. Golański, J. Jasak, J. Słania, A. Zieliński, P. Urbańczyk, Influence of the Annealing Time after Welding on the Mechanical Properties of Welded Joint of T91 Steel [full text pdf](#)

28.

B. Szczucka-Lasota, Innovation in the Process of Thermal Spraying Coatings [full text pdf](#)

29.

K. Kowalski, M. Nowak, M. Jurczyk, Mechanical and Corrosion Properties of Magnesium-Bioceramic Nanocomposites [full text pdf](#)

30.

K. Osińska, M. Płońska, A. Marzec, Application of the Sol-Gel Method at the Fabrication of PLZT:Yb³⁺ Ceramics [full text pdf](#)

31.

A. Lisińska-Czekaj, M. Rerak, D. Czekaj, M. Lubina, B. Garbarz-Glos, W. Bąk, Low Temperature Broad Band Dielectric Spectroscopy of Multiferroic Bi₆Fe₂Ti₃O₁₈ Ceramics [full text pdf](#)

32.

M. Bara, T. Kmita, J. Korzekwa, Microstructure and Properties of Composite Coatings Obtained on Aluminium Alloys [full text pdf](#)

33.

P. Falkowski, K. Scisel, Sacrificial Paste for Fabrication of Ceramic Materials by Layer-by-Layer Method [full text pdf](#)

34.

A. Kedzierska - Sar, P. Falkowski, M. Szafran, Stabilization of Heavy Metal Particles in Al₂O₃-W Suspensions [full text pdf](#)

35.

L. Kozielski, M. Adamczyk, K. Feliksik, D. Bochenek, F. Clemens,, PLZT Microfibers Technology Optimization [full text pdf](#)

36.

I. Kuźniarska-Biernacka, A. Lisinska-Czekaj, D. Czekaj, M. José Alves, A.Mauricio Fonseca, I. Correia Neves, Styrene Epoxidation Over Heterogeneous Manganese(III) Complexes [full text pdf](#)

37.

M. Mosiałek, A. Kędra, M. Krzan, E. Bielańska, M. Tatko, J. Haber, Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O₃-D-La_{0.6}Sr_{0.4}Co_{0.8}Fe_{0.2}O₃- D Composite Cathode for Solid Oxide Fuel Cell [full text pdf](#)

38.

P. Ranachowski, Z. Ranachowski, S. Kudela Jr, A. Pawełek, A. Piątkowski, Study of Factors

Determinant of Siliceous Electrical Porcelain Resistance to Structural Degradation [full text pdf](#)

39.

G. Służalek, A. Posmyk, W. Skoneczny, Thermal Phenomena in the Friction Process of the TG15 - Hard Anodic Coating Couple [full text pdf](#)

40.

M. Adamczyk, J. Kusz, W. Hofmeister, M. Zubko, L. Kozielski, M. Pilch, D. Bochenek, B. Wodecka-Duś, Study of Phase Transition in $\text{Bi}_3\text{TiNbO}_9$ - $\text{BaBi}_2\text{Nb}_2\text{O}_9$ Ceramics [full text pdf](#)

41.

A. Antosik, M. Głuszek, R. Żurowski, M. Szafran, Effect of SiO_2 Particle Size and Length of Poly(Propylene Glycol) Chain on Rheological Properties of Shear Thickening Fluids [full text pdf](#)

42.

S. Islak, C. Özorak, C.T. Sezgin, M. Akkaş, Effect of Boron on Microstructure and Microhardness Properties of Mo-Si-B Based Coatings Produced Via TIG Process [full text pdf](#)

43.

S.F. Hassan, Mg-ZrO₂ Nanocomposite: Relative Effect of Reinforcement Incorporation Technique [full text pdf](#)

44.

M. Wroński, K. Wierzbowski, Lattice Rotation Definition and Predicted Textures of Tensile and Compression Deformation [full text pdf](#)

45.

Y.C. Lin, Dao-Guang He, Ming-Song Chen, Xiao-Min Chen, Chun-Yang Zhao, Xiang Ma, Study of Flow Softening Mechanisms of a Nickel-Based Superalloy with δ Phase [full text pdf](#)

46.

C. Fiał, A. Ciaś, A. Czarski, M. Sułowski, Fracture Statistics Using Three-Parameter and Two-Parameter Weibull Distributions for Fe-0.4C-1.5Cr-1.5Ni-0.8Mn-0.2Mo Structural Sintered Steel [full text pdf](#)

47.

J. Iwaszko, K. Kudła, K. Fila, M. Strzelecka, The Effect of Friction Stir Processing (FSP) on the Microstructure and Properties of AM60 Magnesium Alloy [full text pdf](#)

48.

A. Arustamian, K. Sołek, D. Kalisz, Identification of Yield Point of Polymer-Based Composite Material in the Conditions of Increased Temperatures [full text pdf](#)

49.

D. Kutyla, K. Kołczyk, R. Kowalik, P. Żabiński, Electrochemical Deposition of Ruthenium and Cobalt-Ruthenium Alloys from Acidic Chloride Ions Containing Baths [full text pdf](#)

50.

B. Leszczyńska-Madej, M. W. Richert, I. Nejman, P. Zawadzka, Processing of Copper by Hydrostatic Extrusion - Studies of Microstructure and Properties [full text pdf](#)

51.

R. Michalik, B. Chmiela, Influence of Solution Heat Treatment on Structure and Mechanical Properties of ZnAl₂₂Cu₃ Alloy [full text pdf](#)

52.

A. Neimitz, U. Janus, Voids Nucleation at Inclusions of Various Shapes in Front of the Crack in Plane Strain [full text pdf](#)

53.

S.M. Fatemi, A. Zarei-Hanzaki, H. Paul, Compressive Deformation Behavior of an

Ultrafine/Nano Grained AZ31 Magnesium Processed by Accumulative Back Extrusion [full text pdf](#)

54.

A. Posmyk, M. Cholewa, J. Wieczorek, D. Scelina, Influence of Electrolytical Oxidising of Silumine Surfaces on the Quality of Bonding with Epoxy Resin [full text pdf](#)

55.

A. Radziszewska, A. Kranzmann, I. Dörfel, M. Mosquera Feijoo, M. Solecka, Microstructure and Chemical Composition of Fe-Cr Alloy Tempered in High Temperature and Atmosphere Containing Ar-SO₂ [full text pdf](#)

56.

P. Kulecki, E. Lichańska, A. Radziszewska, M. Sułowski, Fractography and Porosity Analysis of Cr and Cr-Mo PM Steels [full text pdf](#)

57.

J. Winczek, T. Skrzypczak, Thermomechanical States in arc Weld Surfaced Steel Elements [full text pdf](#)

58.

A. Zieliński, G. Golański, M. Sroka, J. Dobrzański, Creep Resistance of VM12 Steel [full text pdf](#)

59.

R. Krawczyk, An Analysis of the Joints' Properties of Fine-Grained Steel Welded by the MAG and SAW Methods [full text pdf](#)

60.

M. Zamani Nejad, M. Abedi, M.H. Lotfian, M. Ghannad, Exact and Numerical Elastic Analysis for the FGM Thick-Walled Cylindrical Pressure Vessels with Exponentially-Varying Properties [full text pdf](#)

61.

J. Michalczyk, M. Nabiałek , M. Szota, Mathematical Modelling of Thermo-Elasto-Plastic Problems and the Solving Methodology on the Example of the Tubular Section Forming Process [full text pdf](#)

62.

A.Woźnicki, D. Leśniak, G. Włoch, P. Pałka, B. Leszczyńska-Madej, A. Wojtyna, The Effect of Cooling Rate after Homogenization on the Microstructure and Properties of 2017A Alloy Billets for Extrusion with Solution Heat Treatment on the Press [full text pdf](#)

63.

A.P.I. Popoola, N. Malatji, O.S.I Fayomi, Fabrication and Investigation of Thermal and Wear Properties of Zinc Novel Coatings Reinforced with Nano-Al₂O₃ and Cr₂O₃ Particles [full text pdf](#)

64.

R. Kaczmarek, K. Kaczmarek, The Influence of Sensitivity Field of Dual Transducer Probes on Accuracy of Discontinuity Sizing and Evaluation in Terms of Testing of Forgings According to EN 10228-3 [full text pdf](#)

65.

E. Skołek, K. Wasiak, W.A. Świątnicki, The Microstructure and Phase Composition of 35CrSiMn5-5-4 Steel after Quenching and Partitioning Heat Treatment [full text pdf](#)

66.

Z. Sarajan, Mechanical Modification of Al-6%Si by Semisolid Process [full text pdf](#)

67.

P. Irek, J.Słania, Material Factors in Relation to Development Time in Liquid-Penetrant Inspection. Part 2. Investigation Programme and Preliminary Tests [full text pdf](#)

68.

K. Regulski, J. Jakubski, A. Opaliński, M. Brzeziński, M. Głowacki, The Prediction of Moulding Sand Moisture Content Based on the Knowledge Acquired by Data Mining Techniques [full text pdf](#)

69.

F. Zhao, Ch. Zhang, Y. Liu, Ferrite Decarburization of High Silicon Spring Steel in three Temperature Ranges [full text pdf](#)

70.

W. Li, S. Zhao, H. Zhang, X. Jin, Relationship Between Bake Hardening, Snoek-Köster and Dislocation-Enhanced Snoek Peaks in Coarse Grained Low Carbon Steel [full text pdf](#)

71.

X.S. Wu, J.F. Cao, Z.J. Chen, W. Liu, Low-Frequency Mechanical Spectroscopy of Lanthanum Cobaltite Based Mixed Conducting Oxides [full text pdf](#)