

K. Błoch, M. Nabiałek, M. Dospiał, S. Garus, Crystallization of Fe-Based Bulk Amorphous Alloys
[Full Text PDF](#)

A. Cwudzinski, PIV Method and Numerical Computation for Prediction of Liquid Steel Flow Structure in Tundish [Full Text PDF](#)

M. Klemiato, P. Czubak, Event Driven Control of Vibratory Conveyors Operating on the Frahm's Eliminator Basis [Full Text PDF](#)

A. Glowacz, A. Glowacz, Z. Glowacz, Recognition of Monochrome Thermal Images of Synchronous Motor with the Application of Skeletonization and Classifier Based on Words [Full Text PDF](#)

B. Grabas, An Evaluation of the Use of Laser-Vibration Melting to Increase the Surface Roughness of Metal Objects [Full Text PDF](#)

J. Karwan-Baczewska, Processing and Properties of Distaloy SA Sintered Alloys with Boron and Carbon [Full Text PDF](#)

J. Kłaput, Application of Small Punch Test Method in Studies of the 14MoV63 Steel before and after Revitalisation [Full Text PDF](#)

V. Kovtun, V. Pasovets, T. Pieczonka, Investigation of Structure and Physico-Mechanical Properties of Composite Materials Based on Copper – Carbon Nanoparticles Powder Systems [Full Text PDF](#)

R. Kowalik, The Voltammetric Analysis of Selenium Electrodeposition from H₂SeO₃ Solution on Gold Electrode [Full Text PDF](#)

T. Lipinski, A. Wach, The Effect of Fine Non-Metallic Inclusions on the Fatigue Strength of Structural Steel [Full Text PDF](#)

J. Michalczyk, Dynamic Influences of Non-Stationary Liquid Flows in Fluid Drives of Heavy Metallurgical Machines on System Dynamics and Reaction for Surroundings [Full Text PDF](#)

D. Bartocha, J. Suchon, C. Baron, J. Szajnar, Influence of Low-Alloy Cast Steel Modification on Primary Structure Refinement, Type and Shape of Non-Metallic Inclusions [Full Text PDF](#)

P. Migas, Analysis of the Rheological Behaviour of Selected Semi-Solid Slag Systems in Blast Furnace Flow Conditions [Full Text PDF](#)

E. Rudnik, P. Biskup, Electrochemical Studies of Lead Telluride Behavior in Acidic Nitrate Solutions [Full Text PDF](#)

A. Rutecka, Z. L. Kowalewski, K. Makowska, K. Pietrzak, L. Dietrich, Fatigue Damage of Al/SiC Composites – Macroscopic and Microscopic Analysis [Full Text PDF](#)

T. Wegrzyn, Gas Mixtures for Welding with Micro-Jet Cooling [Full Text PDF](#)

T. Wieczorek, Tribological Properties and a Wear Model of Aluminium Matrix Composites – SiC Particles Designed for Metal Forming [Full Text PDF](#)

R. Włodarczyk, Porous Carbon Materials for Elements in Low-Temperature Fuel Cells [Full Text PDF](#)

M. Kopernik, Failure Strain and Strain-Stress Analysis in Titanium Nitride Coatings Deposited

on Religa Heart Ext Ventricular Assist Device [Full Text PDF](#)

H. Paul, A. Morawiec, T. Baudin, T. Czeppe, TEM Study of Recrystallization in Ultra-Fine Grain AA3104 Alloy Processed by High-Pressure Torsion [Full Text PDF](#)

G. Cios, P. Bała, M. Stepień, K. Górecki, Microstructure of Cast Ni-Cr-Al-C Alloy [Full Text PDF](#)

M. Kwapisz, M. Knapinski, H. Dyja, A. Kawalek, Analysis of the Alternate Extrusion and Multiaxial Compression Process [Full Text PDF](#)

D. Klimecka-Tatar, G. Pawłowska, M. Sozanska, The Effect of Powder Particle Biencapsulation with Ni-P Layer on Local Corrosion of Bonded Nd-(Fe,Co)-B Magnetic Material [Full Text PDF](#)

K. Lankiewicz, M. Baranowski, T. Babul, S. Kowalski, The Study of the Impact of Surface Preparation Methods of Inconel 625 and 718 Nickel-Base Alloys on Wettability by BNi-2 and BNi-3 Brazing Filler Metals [Full Text PDF](#)

T. Rzychon, B. Dybowski, A. Kielbus, The Influence of Strontium on the Microstructure of Cast Magnesium Alloys Containing Aluminum and Calcium [Full Text PDF](#)

P. Kowalski, B. Łosiewicz, T. Goryczka, Deposition of Chitosan Layers on NiTi Shape Memory Alloy [Full Text PDF](#)

T. Tokarski, Thermo-Mechanical Processing of Rapidly Solidified 5083 Aluminium Alloy - Structure and Mechanical Properties [Full Text PDF](#)

J. Trzaska, Empirical Formulae for the Calculation of Austenite Supercooled Transformation Temperatures [Full Text PDF](#)

M. Wojciechowska, E. Wołowiec, L. Klimek, Welding of Prosthetic Alloys [Full Text PDF](#)

P. Zygon, M. Gwozdzik, J. Peszke, Z. Nitkiewicz, Comparison of Properties of Polymer Composite Materials Reinforced with Carbon Nanotubes [Full Text PDF](#)

W. Wołczynski, B. Kucharska, G. Garzeł, A. Sypien, Z. Pogoda, T. Okane, Part III. Kinetics of the (Zn) – Coating Deposition during Stable and Meta-stable Solidifications [Full Text PDF](#)

M. Rywotycki, Z. Malinowski, K. Miłkowska-Piszczyk, A. Gołdasz, B. Hadała, Comparison of Four Models of Radiative Heat Transfer Between Flat Surface to Evaluate the Temperature Field Based on Example of the Continuous Casting Mould [Full Text PDF](#)

M. Warzecha, T. Merder, P. Warzecha, Investigation of the Flow Structure in the Tundish with the Use of Rans and Les Methods [Full Text PDF](#)

T. Kargul, E. Wielgosz, J. Falkus, Application of Thermal Analysis Tests Results in the Numerical Simulations of Continuous Casting Process [Full Text PDF](#)

J. Pieprzyca, Z. Kudlinski, T. Merder, Effect of Temperature Fields Heterogeneity in the Tundish on Primary Structure of Continuously Cast Ingots [Full Text PDF](#)

K. Konopka, K. Miłkowska-Piszczyk, L. Trebacz, J. Falkus, Improving Efficiency of CCS Numerical Simulations Through Use of Parallel Processing [Full Text PDF](#)

K. Miłkowska-Piszczyk, M. Rywotycki, J. Falkus, K. Konopka, A Comparison of Models Describing Heat Transfer in the Primary Cooling Zone of a Continuous Casting Machine [Full Text PDF](#)

J. Pieprzyca, T. Merder, J. Jowša, Method for Determining the Time Constants Characterizing the Intensity of Steel Mixing in Continuous Casting Tundish [Full Text PDF](#)

K. Miłkowska-Piszczek, J. Falkus, Applying a Numerical Model of the Continuous Steel Casting Process to Control the Length of the Liquid Core in the Strand [Full Text PDF](#)

M. Bielnicki, J. Jowša, A. Cwudzinski, Multiphase Numerical Model of Molten Steel and Slag Behavior in the Continuous Casting Mould [Full Text PDF](#)

P. Drozd, Analysis of the Equilibrium State of Flux Powders in the Mould During Continuous Casting of Steel [Full Text PDF](#)

N. Drofelnik, J. Lamut, M. Marolt, M. Knap, Interaction between Steel Melt and Refractory Materials in Tundish [Full Text PDF](#)

A. Gołdasz, Z. Malinowski, B. Hadała, M. Rywotycki, Influence of the Radiation Shield on the Temperature of Rails Rolled in the Reversing Mill [Full Text PDF](#)

W. Derda, P. Lawenda, P. Pardela, The Use of Barium and Calcium Alloys in the Ladle Furnace Treatment of Selected Grades of Continuously Cast Steels [Full Text PDF](#)

W. Slezak, M. Korolczuk-Hejnak, P. Migas, High Temperature Rheometric Measurements of Mould Powders [Full Text PDF](#)

K. Vrbek, J. Lamut, M. Marolt, M. Knap, Changes in Hydrogen Content During Steelmaking [Full Text PDF](#)

M. Kawalec, H. Krawiec, Corrosion Resistance of High-Alloyed white Cast Iron [Full Text PDF](#)

K. Gawdzinska, M. Gucma, Two-Criteria Analysis of Casting Technologies of Metal and Composite Foams [Full Text PDF](#)

Z. Górny, S. Kluska-Nawarecka, D. Wilk-Kołodziejczyk, K. Regulski, Methodology for the Construction of a Rule-Based Knowledge Base Enabling the Selection of Appropriate Bronze Heat Treatment Parameters Using Rough Sets [Full Text PDF](#)

R. Danko, M. Holtzer, J Danko, Investigations of Physicochemical Properties and Thermal Utilisation of Dusts Generated in the Mechanical Reclamation Process of Spent Moulding Sands [Full Text PDF](#)

A.W. Bydałek, A. Bydałek, W. Wołczynski, S. Biernat, The Concept of Slag Decopperisation in the Flash Furnace Process by Use of Complex Reagents [Full Text PDF](#)

S. Rządkosz, J. Kozana, A. Garbacz-Klempka, M. Piekos, Structure Analysis and Properties of Unleaded Brasses [Full Text PDF](#)

M. Łucarz, Ecological Aspects of the Performed Thermal Reclamation [Full Text PDF](#)

M. Stachowicz, B. Opyd, K. Granat, Comprehensive Assessment of Polymeric Materials for Foundry Tooling Used in Microwave Field [Full Text PDF](#)

A. Bobrowski, M. Holtzer, S. Zymankowska-Kumon, R. Danko, Harmfulness Assessment of Moulding Sands with a Geopolymer Binder and a New Hardener, in an Aspect of the Emission of Substances from the BTEX Group [Full Text PDF](#)

R. Biernacki, R. Haratym, A. Bałkowiec, P. Wawulska-Marek, H. Matysiak, J. Zdunek, K.J. Kurzydłowski, Evaluation of Physical Properties of Wax Mixtures Obtained from Recycling of Patterns Used in Precision Casting [Full Text PDF](#)

J. Zych, J. Mocek, T. Snopkiewicz, Ł. Jamrozowicz, Thermal Conductivity of Moulding Sand with Chemical Binders, Attempts of Its Increasing [Full Text PDF](#)

X. Liu, D.R. Queen, T.H. Metcalf, J.E. Karel, F. Hellman, Amorphous Dielectric thin Films with Extremely Low Mechanical Loss [Full Text PDF](#)

M. Granata, L. Balzarini, J. Degallaix, V. Dolique, R. Flaminio, D. Forest, D. Hofman, C. Michel, R. Pedurand, L. Pinard, B. Sassolas, N. Straniero J. Teillon, G. Cagnoli, Internal Friction and Young's Modulus Measurements on SiO₂ and Ta₂O₅ Films Done with an Ultra-High Q Silicon-Wafer Suspension [Full Text PDF](#)

W.B. Jiang, Q.P. Kong, L.B. Magalas, Q.F. Fang, The Internal Friction of Single Crystals, Bicrystals and Polycrystals of Pure Magnesium [Full Text PDF](#)

A.-K. Maier, D. Mari, I. Tkalcec, R. Schaller, Grain Boundary Relaxation in Bi-Crystals: Mechanical Spectroscopy and Molecular Dynamics Simulations [Full Text PDF](#)

F. Cordero, F. Craciun, F. Trequattrini, C. Galassi, Separate Kinetics of the Polar and Antiferrodistortive Order Parameters in the Antiferroelectric Transition of PbZr₁ [Full Text PDF](#)

F. Trequattrini, A. Paolone, O. Palumbo, F.M. Vitucci, M.A. Navarra, S. Panero, Low Frequency Mechanical Spectroscopy Study of Three Pyrrolidinium Based Ionic Liquids [Full Text PDF](#)

J. Słania, G. Golanski, W. Gasz, Braze Eelding of Elements of Industrial Fittings [Full Text PDF](#)

M. Suliga, The Analysis of the High Speed Wire Drawing Process of High Carbon Steel Wires Under Hydrodynamic Lubrication Conditions [Full Text PDF](#)

M. Suliga, L. Borowik, K. Chwastek, Estimation of the Level of Residual Stress in Wires with a Magnetic Method [Full Text PDF](#)

Z. Pater, J. Tomczak, T. Bulzak, Numerical Analysis of the Skew Rolling Process for Rail Axles [Full Text PDF](#)

J. Tomczak, Z. Pater, T. Bulzak, Forming of Hollow Shaft Forging from Titanium Alloy Ti6Al4V by Means of Rotary Compression [Full Text PDF](#)

S. Mróz, P. Szota, A. Stefanik, S. Wasek, G. Stradomski, Analysis of Al-Cu Bimetallic Bars Properties after Explosive Welding and Rolling in Modified Passes [Full Text PDF](#)

J. Bartnicki, J. Tomczak, Z. Pater, Numerical Analysis of the Cross-Wedge Rolling Process by Means of three Tools of Stepped Shafts from Aluminum Alloy 7075 [Full Text PDF](#)

T. Bulzak, J. Tomczak, Z. Pater, Theoretical and Experimental Research on Forge Rolling Process of Preforms from Magnesium Alloy AZ31 [Full Text PDF](#)

P. Skubisz, A. Zak, M. Burdek, Ł. Lisiecki, P. Micek, Design of Controlled Processing Conditions for Drop Forgings Made of Microalloy Steel Grades for Mining Industry [Full Text PDF](#)

J. Kusiak, M. Skóra, Ł. Rauch, D. Szeliga, M. Pietrzyk, Application of Numerical and Physical Simulation to Design of the Best Manufacturing Technology for Fasteners [Full Text PDF](#)

K. Sobczak, H. Dyja, A. Kawalek, The Influence of the Shape of Grooves on the Intensity of Closing Axial Material Discontinuities During Rolling [Full Text PDF](#)

J. Górka, Weldability of Thermomechanically Treated Steels Having a High Yield Point [Full](#)

[Text PDF](#)

M. Popławski, A. Kwiatkowska, A. Piasecki, An Attempt to Develop the Methodology of Examining the Boron Content in Construction Materials with the Use of EDS Method [Full Text PDF](#)

D. Myszka, A. Wieczorek, Effect of Phenomena Accompanying Wear in Dry Corundum Abrasive on the Properties and Microstructure of Austempered Ductile Iron with Different Chemical Composition [Full Text PDF](#)

E. Skołek, S. Marciniak, P. Skoczylas, J. Kaminski, W.A. Swiatnicki, Nanocrystalline Steels' Resistance to Hydrogen Embrittlement [Full Text PDF](#)

E. Rozniata, R. Dziurka, The Phase Transformations in Hypoeutectoid Steels Mn-Cr-Ni [Full Text PDF](#)

E. Skołek, K. Dudzinska, J. Kaminski, W.A. Swiatnicki, Corrosion Resistance of the Bearing Steel 67SiMnCr6-6-4 with Nanobainitic Structure [Full Text PDF](#)

E. Skołek, S. Marciniak, W.A. Swiatnicki, Thermal Stability of Nanocrystalline Structure in X37CrMoV5-1 Steel [Full Text PDF](#)

S. Marciniak, E. Skołek, W.A. Swiatnicki, The Effect of Stepped Austempering on Phase Composition and Mechanical Properties of Nanostructured X37CrMoV5-1 Steel [Full Text PDF](#)

A. Łukaszczyk, J. Augustyn-Pieniazek, Corrosion Resistance of Co-Cr-Mo Alloy used in Dentistry [Full Text PDF](#)

[Errata 1 - J. Dworecka](#)

[Errata 2 - J. Kasińska](#)