

H. Adrian, K. Wiencek, Austenite Grain Size Estimation in Structural Steels by Linear Section Method [Full Text PDF](#)

P. Bałon, A. Świątoniowski, Springback Compensation in Cold Forming Process for High Strength Steel [Full Text PDF](#)

A. Berdowska, J. Berdowski, F. Aubry, Correlations between Structures of Expanded Graphite - Polymer Composites and Acoustic Emission Phenomena [Full Text PDF](#)

A.M. Wittek, R. Burdzik, P. Folęga, Ł. Konieczny, B. Łazarz, Influence of Production Process and Material Factors on Fatigue Strength of Tubular Stabilizer Bar [Full Text PDF](#)

C. Xiaozhou, W. Chao, X. Xiangxin, C. Gongjin, Effect of Ti Addition on the Residual Aluminium Content and Mechanical Properties of the B₄C-Al Composites Produced by Vacuum Infiltration [Full Text PDF](#)

A. Czarski, T. Skowronek, P. Matusiewicz, Stability of a Lamellar Structure - Effect of the True Interlamellar Spacing on the Durability of a Pearlite Colony [Full Text PDF](#)

P. Drzymała, B. Kania, M. Wróbel, P. Darlak, P. Długosz, P. Kwaśniewski, J.T. Bonarski, Evolution of Microstructure in Rolled Mg-Based Alloy. Textural Aspect [Full Text PDF](#)

A. Dębski, M.H. Braga, W. Gąsior, The B-Li System. Calorimetric and Theoretical Studies [Full Text PDF](#)

G. Golański, M. Lachowicz, J. Słania, J. Jasak, P. Marszałek, Research on 16Mo3 (16M) Steel Pipes Overlaid with Haynes NiCro625 Alloy using MIG (131) Method [Full Text PDF](#)

D. Hadryś, Impact Load of Welds after Micro-Jet Cooling [Full Text PDF](#)

B. Kalandyk, R. Zapała, J. Kasińska, M. Wróbel, M. Balicki, Microstructure and Mechanical Properties of High-Alloyed 23Cr-5Mn-2Ni-3Mo Cast Steel [Full Text PDF](#)

P. Kula, W. Szymanski, Ł. Kołodziejczyk, R. Atraszkiewicz, K. Dybowski, J. Grabarczyk, R. Pietrasik, P. Niedzielski, Ł. Kaczmarek, M. Clapa, High Strength Metallurgical Graphene - Mechanisms of Growth and Properties [Full Text PDF](#)

P. Kulecki, E. Lichańska, M. Sułowski, The Effect of Processing Parameters on Microstructure and Mechanical Properties of Sintered Structural Steels Based on Prealloyed Powders [Full Text PDF](#)

I. Kurytnik, B.R. Nussupbekov, A.K. Khassenov, D.Zh, Disintegration of Copper Ores by Electric Pulses [Full Text PDF](#)

Z. Lipnicki, K. Pantoł, Role of the Continuous Casting Forms on the Shape of the Solidified Crust [Full Text PDF](#)

W. Piekarska, Numerical and Experimental Study of Phase Transformations in Welding Processes [Full Text PDF](#)

M. Łepicka, M. Grądzka-Dahlke, I. Szarmach, Corrosion Damage Investigation of Silver-Soldered Stainless Steel Orthodontic Appliances Used in Vivo [Full Text PDF](#)

A. Posmyk, J. Myalski, H. Wistuba, Properties of Aluminium-Ceramic Composite with Glassy Carbon as Solid Lubricant Designed for Automotive Applications [Full Text PDF](#)

N. Radek, J. Konstanty, M. Scendo, The Electro-Spark Deposited WC-Cu Coatings Modified by Laser Treatment [Full Text PDF](#)

P. Lacki, A. Derlatka, The Plastic Deformation of RFSSW Joints During Tensile Tests [Full Text PDF](#)

M. Różański, D. Majewski, K. Krasnowski, Comparison of Microstructure and Mechanical Properties of Induction and Vacuum Brazed Joint of Titanium Via Copper and Ag-Cu Eutectic Filler Metal [Full Text PDF](#)

M. Rozmus-Górniewska, M. Blicharski, Microsegregation and Precipitates in Inconel 625 ARC Weld Overlay Coatings on Boiler Pipes [Full Text PDF](#)

Z. Śloderbach, J. Pająk, Determination of Ranges of Components of Heat Affected Zone Including Changes of Structure [Full Text PDF](#)

K. Solek, S. Szczepanik, Rheological Analysis of Semi-Solid A380.0 Aluminium Alloy [Full Text PDF](#)

I. Sulima, L. Jaworska, J. Karwan-Baczewska, Effect of Boron Sinter-Aid on the Microstructure and Properties of Austenitic Stainless Steel-TiB₂ Composites [Full Text PDF](#)

T. Węgrzyn, J. Piwnik, Ł. Wszolek, W. Tarasiuk, Shaft Wear after Surfacing with Micro-Jet Cooling [Full Text PDF](#)

M. Wojnicki, I. Mania, M. Marzec, M. Gajewska, K. Mech, Influence of Experimental Conditions on Deposition of Silver Nanoparticles Onto Surface of Graphene Oxide [Full Text PDF](#)

K. Żaba, M. Nowosielski, S. Puchlerska, M. Kwiatkowski, P. Kita, M. Głodzik, K. Korfanty, D. Pociecha, T. Pieja, Investigation of the Mechanical Properties and Microstructure of Nickel Superalloys Processed in Shear Forming [Full Text PDF](#)

R. Babilas, K. Cesarz-Andraczke, R. Nowosielski, Structure and Properties of Mg-Cu-(Y,Ca) Bulk Metallic Glasses [Full Text PDF](#)

M. Barszcz, M. Pasieczko, K. Lenik, Self-Organization of Friction Surface of Fe-Mn-C-B Coating with Increased Resistance to Abrasion [Full Text PDF](#)

M.M. Lachowicz, M.B. Lachowicz, The Mechanism of Corrosion of Steel 304L in the Presence of Copper in Industrial Installations [Full Text PDF](#)

P. Matysik, M. Chojnacki, S. Józwiak, T. Czujko, S. Lipiński, Evaluation of the Possibility of Applying Spatial 3D Imaging Using X-Ray Computed Tomography Reconstruction Methods for Quantitative Analysis of Multiphase Materials [Full Text PDF](#)

D. Niemiec, G. Moskal, A. Jasik, The Influence of NiCrAlY Coatings Roughness on Oxidation Kinetics during Static Oxidation Test at Temperature 1000°C and 1100°C [Full Text PDF](#)

A. Smółka, G. Dercz, K. Rodak, B. Łosiewicz, Evaluation of Corrosion Resistance of Nanotubular Oxide Layers on the Ti13Zr13Nb Alloy in Physiological Saline Solution [Full Text PDF](#)

M. Szklarska, G. Dercz, J. Rak, W. Simka, B. Łosiewicz, The Influence of Passivation Type on Corrosion Resistance of Ti15Mo Alloy in Simulated Body Fluids [Full Text PDF](#)

A. Turowska, J. Adamiec, Mechanical Properties of WE43 Magnesium Alloy Joint at Elevated Temperature [Full Text PDF](#)

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

M. Wróbel, A. Burbelko, D. Gurgul, Modelling of Change in Density of Nodular Cast Iron During Solidification Using Cellular Automaton [Full Text PDF](#)

P. Zygoń, M. Gwoździk, J. Peszke, Z. Nitkiewicz, The Effect of Water Acrylate Dispersion on the Properties of Polymer-Carbon Nanotube Composites [Full Text PDF](#)

D.S. Svyetlichnyy, P. Kustra, A. Milenin, Modeling with FCA-Based Model of Microstructure Evolution of MgCa08 Alloy During Drawing of thin Wire in Heated Die [Full Text PDF](#)

S. Wiewiórowska, Z. Muskalski, W. Ciepiela, Intensification of the Transition of Retained Austenite to Martensite Effected by Changing the Stress State in Trip Steel Wires [Full Text PDF](#)

A. Gontarz, G. Winiarski, Numerical and Experimental Study of Producing Flanges on Hollow Parts by Extrusion with a Movable Sleeve [Full Text PDF](#)

J. Bartnicki, J. Tomczak, Numerical Analysis of the Forming Process of Head Tothing in Rolling Extrusion on a Shaft from Aluminum Alloy 7075 [Full Text PDF](#)

T. Sadowski, P. Golewski, The Influence of Geometrical Parameters in Socket - PIN Connections on the Value of Opening Force [Full Text PDF](#)

M. Hycza-Michalska, R. Kawalla, J. Dembińska, Drawability Studies of Magnesium Alloy Sheets at Elevated Temperature [Full Text PDF](#)

J. Ligoda-Chmiel, M. Potoczek, R.E. Śliwa, Mechanical Properties of Alumina Foam/Tri-Functional Epoxy Resin Composites with an Interpenetrating Network Structure [Full Text PDF](#)

A. Bokota, A. Kulawik, R. Szymczyk, J. Wróbel, The Numerical Analysis of the Phenomena of Superficial Hardening of the Hot-Work Tool Steel Elements [Full Text PDF](#)

Z. Gronostajski, M. Hawryluk, J. Jakubik, M. Kaszuba, G. Misiun, P. Sadowski, Solution Examples of Selected Issues Related to Die Forging [Full Text PDF](#)

D. Jędrzejczyk, M. Hojny, M. Głowacki, Development of Software for the Simulation of Rolling Steel Under the Coexistence of Liquid and Solid State [Full Text PDF](#)

K. Laber, H. Dyja, G. Stradomski, A. Kawalek, The Assessment of the Cold Plastic Workability of 20MnB4 Steel Wire Rod [Full Text PDF](#)

J. Michalczyk, K. Wojsyk, Development and Modelling of the Method of Mandrelless Small-Radius Tube Bending [Full Text PDF](#)

B. Pawłowska, R.E. Śliwa, Backward Extrusion of Aluminum Alloy Sections Used in Aircraft Structural Components [Full Text PDF](#)

T. Sadowski, P. Golewski, Skew Bending of Aircraft Fuselage Panels with "L" and "C" Stringers Mounted by Hybrid Joint [Full Text PDF](#)

A. Wierzba, S. Mróz, P. Szota, A. Stefanik, R. Mola, The Influence of the Asymmetric ARB Process on the Properties of Al-Mg-Al Multi-Layer Sheets [Full Text PDF](#)

D. Woźniak, M. Hojny, T. Gądek, M. Głowacki, Numerical and Experimental Forming of Axisymmetric Products Using Methods of Deep Drawing and Flow Forming [Full Text PDF](#)

W. Piekarska, Modelling and Analysis of Phase Transformations and Stresses in Laser Welding Process [Full Text PDF](#)

J. Wieczorek, B. Oleksiak, J. Mizera, K. Kulikowski, P. Maj, Evaluation of the Quality of Coatings Deposited on AZ31 Magnesium Alloy Using the Anodising Method [Full Text PDF](#)

A. Lisiecki, Welding of Thermomechanically Rolled Steel by Yb:Yag Disk Laser [Full Text PDF](#)

J. Barglik, A. Smalcerz, A. Smagór, P. Paszek, Analysis of Continuous Induction Hardening of Steel Cylinder Element Made of Steel 38Mn6 [Full Text PDF](#)

K. Gryc, M. Strouhalová, B. Smetana, L. Socha, K. Michalek, Influence of Direct Thermal Analysis Experimental Conditions on Determination of the High Temperature Phase Transformation Temperatures [Full Text PDF](#)

L. Řeháčková, S. Rosypalová, R. Dudek, M. Ritz, D. Matýsek, B. Smetana, J. Dobrovská, S. Zlá, M. Kawuloková, Effect of Chemical Composition and Temperature on Viscosity and Structure of Molten $\text{CaO-Al}_2\text{O}_3\text{-SiO}_2$ System [Full Text PDF](#)

M. Tkadlečková, K. Michalek, P. Machovčák, M. Kováč, L. Socha, Study of Casting and Solidification of Slab Ingot from Tool Steel Using Numerical Modelling [Full Text PDF](#)

M. Saturnus, T. Merder, J. Pieprzyca, The Influence of Impeller Geometry on the Gas Bubbles Dispersion in URO-200 Reactor - RTD Curves [Full Text PDF](#)

M. Fröhlichová, D. Ivanišin, A. Mašlejová, R. Findorák, J. Legemza, Iron-Ore Sintering Process Optimization [Full Text PDF](#)

G. Golański, A.K. Lis, I. Słania, A. Zieliński, Microstructural Aspect of Long Term Service of the Austenitic TP347HFG Steel [Full Text PDF](#)

J. Jowsa, M. Bielnicki, A. Cwudziński, Numerical Modelling of Metal/Flux Interface in a Continuous Casting Mould [Full Text PDF](#)

A. Lisiecki, R. Burdzik, G. Siwiec, Ł. Konieczny, J. Warczek, P. Folęga, B. Oleksiak, Disk Laser Welding of Car Body Zinc Coated Steel Sheets [Full Text PDF](#)

T. Merder, M. Warzecha, P. Warzecha, Large-Eddy Simulations of a Flow Characteristics in a Multi-Strand Continuous Casting Tundish [Full Text PDF](#)

J. Pieprzyca, T. Merder, M. Saternus, Optimization of Submerged Entry Nozzle Depth in CC Mould [Full Text PDF](#)

B. Pospiech, Separation of Cadmium(II), Cobalt(II) and Nickel(II) by Transport Through Polymer Inclusion Membranes with Phosphonium Ionic Liquid as Ion Carrier [Full Text PDF](#)

W. Tarasiuk, A.I. Gordienko, A.T. Wolocko, J. Piwnik, B. Szczucka-Lasota, The Tribological Properties of Laser Hardened Steel 42CrMo4 [Full Text PDF](#)

J. Willner, A. Fornalczyk, Dissolution of Ceramic Monolith of Spent Catalytic Converters by Using Hydrometallurgical Methods [Full Text PDF](#)

R. Wyczółkowski, C. Kolmasiak, D. Urbaniak, T. Wyleciał, Use of the Schlieren Method to the

Convection Analysis in the Steel Charge of Mixed Porosity [Full Text PDF](#)

R. Mežibrický, M. Fröhlichová, A. Mašlejová, Phase Composition of Iron Ore Sinters Produced with Biomass as a Substitute for the Coke Fuel [Full Text PDF](#)

M. Basiaga, R. Jendruś, W. Walke, Z. Paszenda, M. Kaczmarek, M. Popczyk, Influence of Surface Modification on Properties of Stainless Steel Used for Implants [Full Text PDF](#)

M. Cieśla, R. Findziński, G. Junak, T. Kawała, The Effect of Heat Treatment Parameters on Mechanical Characteristics of 10CrMo9-10 Steel Tube Bends [Full Text PDF](#)

B. Płonka, K. Remsak, P. Korczak, M. Lech-Grega, M. Rajda, Research on Extruded Products of MgAlZn Alloys - Microstructure and Mechanical Properties [Full Text PDF](#)

M. Mitka, M. Gawlik, M. Bigaj, W. Szymański, The Effect of Extrusion Parameters on Possibility of Extrusion of Magnesium Alloys in Continuous Rotary Extrusion Process [Full Text PDF](#)

A. Gałka, M. Najwer, Explosive Cladding of Titanium and Aluminium Alloys on the Example of Ti6Al4V-AA2519 Joints [Full Text PDF](#)

M. Król, T. Tański, G. Matula, P. Snopiński, A.E. Tomiczek, Analysis of Crystallisation Process of Cast Magnesium Alloys Based on Thermal Derivative Analysis [Full Text PDF](#)

A. Stefanik, P. Szota, S. Mróz, T. Bajor, H. Dyja, Properties of the AZ31 Magnesium Alloy Round Bars Obtained in Different Rolling Processes [Full Text PDF](#)

T. Bajor, H. Dyja, K. Laber, Physical Modelling of Metal Forming of Bars Made of Magnesium Alloys (AZ61) [Full Text PDF](#)

S. Rusz, A. Kłyszewski, M. Salajka, O. Hilser, L. Cizek, M. Klos, Possibilities of Application Methods DRECE in Forming of Non-Ferrous Metals [Full Text PDF](#)

R. Mola, S. Mróz, P. Szota, S. Sawicki, Analysis of the Deformability of Two-Layer Materials AZ31/Eutectic [Full Text PDF](#)

A. Jarzębska, R. Bogucki, M. Bieda, Influence of Degree of Deformation and Aging Time on Mechanical Properties and Microstructure of Aluminium Alloy with Zinc [Full Text PDF](#)

B. Tomiczek, L.A. Dobrzański, M. Macek, Effect of Milling Time on Microstructure and Properties of AA6061/MWCNTs Composite Powders [Full Text PDF](#)

Ł. Poloczek, B. Dybowski, K. Rodak, R. Jarosz, A. Kielbus, Influence of Age Hardening Parameters on the Microstructure and Properties of the AlSi7Mg Sand Cast Alloy [Full Text PDF](#)

T. Miłek, B. Kowalik, B. Kuliński, Evaluation of the Possibility of Performing Cold Backward Extrusion of Axisymmetrical Thin-Walled Aluminum Die Stampings with Square Section [Full Text PDF](#)

M. Nowak, M. Lech-Grega, A. Kozik, M. Mitka, M. Gawlik, A. Kłyszewski, Composite Nickel Coatings Produced on 6xxx Series Aluminium Alloys with the Addition of Vanadium [Full Text PDF](#)

M. Szymanek, B. Augustyn, D. Kapinos, J. Żelechowski, M. Bigaj, Al-Si-RE Alloys Cast by the Rapid Solidification Process [Full Text PDF](#)

R. Bogucki, K. Sulikowska, M. Bieda, P. Ostachowski, K. Sztwiertnia, Analysis of Microstructure and Mechanical Properties Changes in AA1050 Aluminum Subjected to ECAP and KoBo Processes [Full Text PDF](#)

M.L. Nó, L. Dirand, A. Denquin, J. San Juan, Internal Friction and Dynamic Modulus in Ultra-High Temperature Ru-Nb Functional Intermetallics [Full Text PDF](#)

P. Pal-Val, L. Pal-Val, V. Natsik, A. Davydenko, A. Rybalko, Giant Young's Modulus Variations in Ultrafine-Grained Copper Caused by Texture Changes at Post-SPD Heat Treatment [Full Text PDF](#)

R. Cosimati, D. Mari, Effects of Precipitation Hardening in Co-Ni-Cr Alloy on Dissipative Motion of Dislocations by Amplitude-Dependent Internal Friction Measurements [Full Text PDF](#)

M.R. Silva, L.B.S. Silva, D. Rodrigues Jr, C.R. Grandini, Mechanical Spectroscopy of MgB₂ Containing SiC [Full Text PDF](#)

D. Szeliga, R. Kuziak, R. Kopp, G. Smyk, M. Pietrzyk, Accounting for the Inhomogeneity of Deformation in Identification of Microstructure Evolution Model [Full Text PDF](#)

M. Szota, Effect of Small Addition of Cobalt on Magnetic Properties and Internal Stresses Sources in the Form of Free Volumes and Pseudo-Dislocation Dipoles in Fe₇₈Co_xSi_{11-x}B₁₁ (x = 0 or 2) Alloys [Full Text PDF](#)

M.S. Wilk, R.E. Śliwa, The Influence of Features of Aluminium Alloys 2024, 6061 and 7075 on the Properties of Glare-Type Composites [Full Text PDF](#)