

Accepted abstracts

Lp.	Family name	Name	Title of paper
1.	Aikin	Nikita	Biodegradable Mg-Zr-Nd alloy with optimized chemical composition
2.	Belokon Karina,	Belokon Yuri, Matukhno Elena	Development of scientific and technical decisions for increasing environmental safety of cleaning processes from carbon-containing components of gas emissions
3.	Ben	Anna	The computer modeling of the technological process of compressor blade blanks extrusion
4.	Błoch	Katarzyna	The structure and magnetic properties of bulk amorphous $\text{Fe}_{62}\text{Co}_{10}\text{Y}_8\text{B}_{20}$ alloy
5.	Bobarikin	Yurij	The effect of the mandrel speed on the value of the wear of the mandrel contact surface during the continuous elongating process of tubes
6.	Bold	Marta	Transmission in the phononic octagonal lattice made of an amorphous $\text{Zr}_{55}\text{Cu}_{30}\text{Ni}_5\text{Al}_{10}$ alloy
7.	Boryca	Jarosław	Analysis of thermal radiation in the heating of steel round bar bundles
8.	Bramowicz	Mirosław	Analysis of structure and mechanical properties of a dissimilar welded joint made of 16Mo3 and X5CrNi18-10 steel
9.	Bryll	Katarzyna	Phase analysis of composite metal-ceramic foams
10.	Bucki	Tomasz	The effect of Zn interlayer on microstructure of bonding zone in Mg alloy (AZ31) – Al alloy (6060) joint produced by compound casting
11.	Chwastek	Krzysztof	The Harrison model as a tool to study phase transitions in magnetocaloric materials
12.	Drzazga	Ewa	Non-parametric application of Tsallis statistics to the selected quantum dot system
13.	Durajski	Artur	Non-adiabatic effects in superconducting intermetallic borocarbides
14.	Gacek	Marcin	<i>The effectiveness of vision-protecting applications against the harmful blue light radiation of modern mobile devices *</i>
15.	Garus	Sebastian	Transmission properties of two-dimensional chirped phononic crystal
16.	Gawdzińska	Katarzyna	A study of metal-ceramic composite foams combustibility
17.	Gębara	Piotr	Magnetocaloric effect in annealed (Mn,Pd)-Co-Ge alloy
18.	Gnatowski	Adam	The research of selected properties and structure of polymeric material modified with hard coal ashes
19.	Golański	Grzegorz	Analysis of phase transformation in nickel-base alloy after ageing
20.	Gondro	Joanna	The microstructural changes due to the heat treatment of magnetic amorphous materials
21.	Gozdur	Roman	Investigations of magnetic properties of NiFeCuMo alloy
22.	Gruszka	Konrad	Electronic structure and properties of novel Y_2FeSi under pressure
23.	Gryc	Adam	Influence of ternary alloying elements (Ca, Mn, Zn) on microstructure of cast Mg-Bi alloys

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24.	Gucwa	Marek	Effect of welding methods on the corrosion resistance of 304 stainless steel joints.
25.	Guzowski	Bartłomiej	Magnetic substrates made of sputtered $Y_3Fe_5O_{12}$
26.	Gwoździk	Monika	Application of the fractal geometry methods for analysis of oxide layers formed on 10CrMo9-10 steel
27.	Handzlik	Piotr	Corrosion of Mg-Zn alloys in phosphate buffered saline (PBS) solutions
28.	Hasiak	Mariusz	Microstructure and magnetic properties of NANOPE RM-type soft magnetic material
29.	Jagielska-Wiaderek	Karina	Depth corrosion characteristics of borided layer produced on AISI 321 stainless steel
30.	Jakubas	Adam	The Influence of a reinforcement on mechanical and electrical properties of the electrical engineering composites
31.	Jarosik	Marcin	Dynamics and stability of hydrogen molecule under external extrusion
32.	Jeż	Bartłomiej	The influence of structure defects on magnetization process of bulk amorphous $Fe_{61+x}Co_{10-x}Y+W_1B_{20}$ ($x=0, 1, 2$) alloys
33.	Kądziołka-Gawęł	Mariola	Mössbauer spectroscopy study in characterization of steel production dusts
34.	Kalaga	Joanna	The generation of squeezed states in a system of nonlinear quantum oscillator - chaotic and regular dynamics
35.	Kania	Aneta	The comparison of selected properties of TiO_2 layers deposited on Mg-based alloy using PVD and sol-gel methods
36.	Kawałek	Anna	<i>Atomic-discrete simulation of configuration state of unordered phase of multicomponent alloy</i>
37.	Kazana	Wiesław	Research in possibilities of manufacturing composite Ti-Cu-Ni brazing wire
38.	Konieczny	Jarosław	Different steel-to-aluminum joint structure made in laser welding technology
39.	Kosk-Joniec	Kamila	<i>Title lacking</i>
40.	Kotynia	Katarzyna	Microstructure and glass forming ability of Gd-Zr-W-Fe-Co-Mo-B alloy ribbons
41.	Kovac	Jozef	Testing and comparison of models for fitting of magnetic hysteresis loops
42.	Labisz	Krzysztof	<i>Influence of Si particles on properties of anodised Al-Si alloy surface</i>
43.	Łaszcz	Amadeusz	Structural, magnetic and mechanical properties of dual-phase $Ni_{50}Mn_{25}Ga_{20}Gd_5$ magnetic shape memory alloy
44.	Lenok	Anastazja Anatolevna, Abdul Vasilij, Shirokobokov Vitalij	Methods of manufacturing of steeply curved taps for pipeline systems
45.	Lezhnev	Sergey	<i>Modelling of multicycle deformation in a combined process 'rolling – equal channel angular pressing' with various rolls *</i>
46.	Lipiński	Tomasz	Corrosion of 1.4362 the duplex stainless steel in nitric acid at 323 K
47.	Lisiecka	Barbara	The influence of surface remelting treatment parameters on the physicochemical properties of 316 L steel

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48.	Lubas	Małgorzata	New TiZr ₄₅ S composite material for biomedical applications
49.	Łukasiak	Korneliusz	Study of flame behaviour under the action acoustic field
50.	Łukaszewicz	Adrian	<i>Title lacking</i>
51.	Łukiewska	Agnieszka	Modification of nanocrystalline FeCuNbSiB alloys and their applications as magnetic cores in rail power transformers
52.	Martyanov	Yuri	Effect of steel cord tension during the twisting on steel cord straightness after twisting
53.	Matiukhin	Anton	The investigation of the inhomogeneity of the deformation distribution in the ring workpiece
54.	Matusiak	Rafał	<i>Simulation of the influence of corneal thickness on the results of the intraocular pressure measurement*</i>
55.	Mazur	Igor	The mathematical model of the thermal state of the metal in the hot rolling mill
56.	Michalski	Bartosz	Effect of silver content in Zr ₅₅ Cu ₃₀ Ni ₅ Al _{10-x} Ag _x alloys on the supercooled liquid stability analysed by TTT diagrams
57.	Morel	Sławomir	<i>The anti-wear coatings for elements of machines and devices in metallurgical industry*</i>
58.	Musiak	Dorota	<i>Modelling of gas fuel combustion in heating chambers by means of DRGEPSA method*</i>
59.	Nabiałek	Marcin	Mossbauer Study of the bulk Fe ₆₁ Co ₁₀ Y ₈ X ₁ B ₂₀ , (x = Nb, Zr) amorphous alloys in the as quenched state and after annealing
60.	Naizabekov	Abdrakhman	<i>Computer modelling of microstructure evolution during the radial shear rolling with application of the 'Simufact Forming' program module and the 'Matilda' material database*</i>
61.	Naumyk	Valeriy	Comparative analysis of the samples obtained by the additive technology and traditional methods properties
62.	Owczarek	Edyta	Methods of modifying the anticorrosive protective properties of the silane films
63.	Panin	Evgeniy	Effect of multicycle deformation during combined process "rolling – eca-pressing" on microstructure of copper alloy M1
64.	Pawlik	Katarzyna	Crystallization studies of hard magnetic Pr ₉ Fe ₅₆ Co ₁₃ Zr ₁ Ti ₃ B ₁₈ alloy ribbons of various thicknesses
65.	Pawlik	Piotr	The evolution of phase constitution and magnetic properties of annealed Pr ₉ Fe ₆₅ W ₈ B ₁₈ alloy ribbons
66.	Pawłowska	Grażyna	Magnetic characteristic of composites based on Nd-M-B / (polymeric biomaterial) in the aspect of prosthetic applications
67.	Pietrusiewicz	Paweł	Magnetic properties of FeCoWYB-based ferromagnetic alloys with a small addition of Pt.
68.	Pilarczyk	Wirginia	Welding and characterization of bulk metallic glass welds
69.	Pilip	Karolina	Influence of recycled single polymer polyester composites on gas permeability.
70.	Poletskov	Pavel	Development of production technology for nanostructured ultra cold-resistance steel plates
71.	Pruba	Marcin	The influence of storage conditions and phase structure on the heating efficiency of iron-oxide nanoparticles

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72.	Przybył	Anna	Magnetic properties and magnetization reversal processes in nanocrystalline (Pr, Dy)-(Fe, Co)-B doped Ni and Mn ribbons
73.	Rajca	Przemysław	Possibilities of using pirolitic gas to heat metallurgical reheating furnaces
74.	Rzącki	Jakub	Influence of heat treatment on the microstructure of Fe ₇₀ Mo ₅ Cr ₄ Nb ₆ B ₁₅ alloy
75.	Sandu	Andrei Victor	Electrochemical evaluation of AISI 420 steel after several heat treatments
76.	Sheyko	Sergey	The research thermoplastic deformation modes of dual-phase alloys
77.	Shvets	Pavlo	The features of the bainite matrix components formation in economy alloyed chromium-manganese alloys
78.	Skoczylas	Kamil	London penetration depth study of Nb ₂ InC nanolaminate
79.	Smyrnov	Yevgen	Improvement of the technological process of continuous casting of the round billet
80.	Sobota	Rafał	Thermoluminescence phenomenon of stoneware insulators used in power networks
81.	Sochacki	Wojciech	Frequency characteristics of the phononical dodecagonal filter
82.	Spilka	Monika	The influence of thickness and number of layers on selected properties of Cu/Ni systems
83.	Sroga	Mateusz	The effect of twilight myopia based on modified Guldstrand eye model
84.	Sroka	Marek	Analysis of phase precipitation in Sanicro 25 austenitic steel after ageing
85.	Stachowiak	Tomasz	Analysis of selected properties of polymer materials filled with substances accelerate degradation
86.	Strzelczak	Katarzyna	Influence of electron beam welding parameters on the properties of structural elements
87.	Suliga	Maciej	Evaluation of stress in drawn wires from magnetic measurements in the saturation region
88.	Szota	Michał	<i>Title lacking</i>
89.	Świerczek	Jan	Impact of annealing on flattening of magnetic entropy change versus temperature curves in amorphous and partially crystallized Fe ₇₆ Mo ₁₀ Cu ₁ B ₁₃ alloy
90.	Świerczek	Jan	Qualitative analysis of magnetization versus temperature curves in amorphous Fe _{70-x} Co _x Mn ₁₀ Mo ₅ B ₁₅ (0<x<0.5) alloys at low magnetizing field
91.	Szewczyk	Kamila	The thermodynamic critical field and specific heat for black phosphorene superconductor under strain
92.	Szyba	Dawid	Crystallization and corrosion study of Ca _{57.5} Mg ₁₅ Zn _{27.5} bulk metallic glasses
93.	Valko	Natalia	Structure and properties of composite Ni/SiO ₂ electrodeposited in the X-rays
94.	Volokitin	Andrey	Change in steel microstructure in the process "pressing-drawing"
95.	Wieczorek	Paweł	Investigations of anti-wear coatings in terms of their applicability to tools in the FSW process
96.	Winczek	Jerzy	Modeling of steel stress-strain curves taking into account the influence of temperature and structural composition

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97.	Wnuk	Izabela	Structural and magnetic properties of Hf-Co alloy produced by melt-spinning
98.	Wójcik	Grzegorz	<i>Mechanical durability of steel edges subjected to nitrification*</i>
99.	Wojsyk	Kwiryń	Physical aspect of dissimilar welded joint degradation
100.	Wojtkowiak	Adam Andrzej	Stiffness analysis of a welded joint made of 16Mo3 and X5CrNi18-10 steel in determining elastic moduli by forced vibration
101.	Wyleciał	Tomasz	Research on thermal resistance of connections in a square of steel bars using thermovision
102.	Yeromin	Oleksandr	Improvement of thermal work of the glass-melting furnace
103.	Zawada	Anna	Influence of the redox ratios on the properties of silicate glasses with high iron content
104.	Śliwa	Agata	Numerical analysis of static tensile test of the sample made of polyethylene reinforced by halloysite nanoparticles

* unauthorised translation