

Sergey Konovalov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

255
papers

1,216
citations

20
h-index

25
g-index

290
ext. papers

1,600
ext. citations

1.3
avg, IF

5.1
L-index

#	Paper	IF	Citations
255	Deformation and Fracture of High Entropy AlCoCrFeNi Alloy. <i>Russian Physics Journal</i> , 2022 , 64, 1697-1702.	2.7	0
254	Microstructure evolution of additively manufactured CoCrFeNiAl _{0.4} high-entropy alloy under thermo-mechanical processing. <i>Journal of Materials Research and Technology</i> , 2022 , 16, 442-450	5.5	3
253	Investigation of Co-Cr-Fe-Mn-Ni Non-Equiatomic High-Entropy Alloy Fabricated by Wire Arc Additive Manufacturing. <i>Metals</i> , 2022 , 12, 197	2.3	4
252	Microstructure and mechanical properties of non-equiatomic Co _{25.4} Cr ₁₅ Fe _{37.9} Mn _{3.5} Ni _{16.8} Si _{1.4} high-entropy alloy produced by wire-arc additive manufacturing. <i>Materials Letters</i> , 2022 , 312, 131675	3.3	2
251	Ultrafast microstructure modification by pulsed electron beam to enhance surface performance. <i>Surface and Coatings Technology</i> , 2022 , 434, 128226	4.4	0
250	Mechanical Properties and Tribological Behavior of Magnesium Metal Matrix Composites With Micron-Sized and Nano-Sized Reinforcements 2022 , 26-45		1
249	Surface modification of sub-eutectic silumin by a pulsed electron beam. <i>Surfaces and Interfaces</i> , 2022 , 29, 101810	4.1	1
248	Wire arc additive manufacturing Al-5.0Mg alloy: Microstructures and phase composition. <i>Materials Characterization</i> , 2022 , 187, 111875	3.9	0
247	Texture Development in Aluminum Alloys with High Magnesium Content. <i>Metals</i> , 2022 , 12, 723	2.3	0
246	Computer Simulation of the Process of Crack Propagation in a Brittle Porous Material. <i>Journal of Surface Investigation</i> , 2021 , 15, 1212-1216	0.5	1
245	The Casting Rate Impact on the Microstructure in AlMgSi Alloy with Silicon Excess and Small Zr, Sc Additives. <i>Metals</i> , 2021 , 11, 2056	2.3	1
244	Influence of the Small Sc and Zr Additions on the As-Cast Microstructure of AlMgSi Alloys with Excess Silicon. <i>Metals</i> , 2021 , 11, 1797	2.3	1
243	Application of high-entropy alloys. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2021 , 64, 747-754	0.4	0
242	Microstructure and Mechanical Properties of Cu-6.5%Al Alloy Deposited by Wire Arc Additive Manufacturing. <i>Metallography, Microstructure, and Analysis</i> , 2021 , 10, 634	1.1	1
241	Deformation Behavior of Cu-6.5 wt.% Al Alloy Under Quasi-Static Tensile Loading. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 5086-5092	1.6	1
240	Electroexplosive hafnium coating on titanium implant modified by nitrogen ions and electron beam processing. <i>Surface and Coatings Technology</i> , 2021 , 409, 126895	4.4	3
239	The Effect of High-Intensity Electron Beam on the Crystal Structure, Phase Composition, and Properties of AlSi Alloys with Different Silicon Content. <i>Progress in Physics of Metals</i> , 2021 , 22, 129-157	1.6	0

238	Investigation of the Intermetallic Compounds Fragmentation Impact on the Formation of Texture during the as Cast Structure Thermomechanical Treatment of Aluminum Alloys. <i>Metals</i> , 2021 , 11, 507	2.3	4
237	Evaluation of strength and microstructure of welded pipes with wall lamination. <i>Engineering Failure Analysis</i> , 2021 , 122, 105235	3.2	2
236	Increase of alloys functional properties by electronic beam processing. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2021 , 64, 129-134	0.4	
235	Pulsed-Electron-Beam Modification of The Surface of AlMg Alloy Samples Obtained by the Methods of Additive Technologies: Structure and Properties. <i>Journal of Surface Investigation</i> , 2021 , 15, 449-452	0.5	
234	Influence of Silicon and Manganese on the Mechanical Properties of Additive Manufactured CuAl Alloys by Cold Metal Transfer Welding. <i>Metallography, Microstructure, and Analysis</i> , 2021 , 10, 314-320	1.1	
233	Influence of Mg Content on Texture Development during Hot Plain-Strain Deformation of Aluminum Alloys. <i>Metals</i> , 2021 , 11, 865	2.3	4
232	Structure, Phase Composition and Properties of Rail Running Surface at Extremely Long Operation Time. <i>Russian Physics Journal</i> , 2021 , 64, 82-88	0.7	
231	Investigation of Microstructure and Fracture Mechanism of Al-5.0Mg Alloys Fabricated by Wire Arc Additive Manufacturing. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 7406-7416	1.6	2
230	High-entropy alloys: Structure, mechanical properties, deformation mechanisms and application. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2021 , 64, 249-258	0.4	3
229	Microstructural and mechanical characterisation of non-equiatomic Al _{2.1} Co _{0.3} Cr _{0.5} FeNi _{2.1} high-entropy alloy fabricated via wire-arc additive manufacturing. <i>Philosophical Magazine Letters</i> , 2021 , 101, 353-359	1	5
228	Subsurface Corrosion as the Main Degradation Process of 17GS Pipeline Steel after 50 Years of Operation. <i>Journal of Surface Investigation</i> , 2021 , 15, 872-876	0.5	0
227	Research on the structure of Al _{2.1} Co _{0.3} Cr _{0.5} FeNi _{2.1} high-entropy alloy at submicro- and nano-scale levels. <i>Materials Letters</i> , 2021 , 294, 129717	3.3	12
226	Effect of Pulsed-Electron-Beam Irradiation on the Surface Structure of a Non-Equiatomic High-Entropy Alloy of the AlCoCrFeNi System. <i>Journal of Surface Investigation</i> , 2021 , 15, 846-850	0.5	
225	Microstructural characterization and tribological behavior of surface composites fabricated on AA7050-T7451 alloy via friction stir processing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2021 , 235, 351-359	1.4	1
224	Structural Changes in the Surface of AK5M2 Alloy under the Influence of an Intense Pulsed Electron Beam. <i>Journal of Surface Investigation</i> , 2021 , 15, 183-189	0.5	0
223	Approach to oriented grain growth accounting during aluminum alloys recrystallization simulation. <i>Materials Today: Proceedings</i> , 2021 , 46, 957-960	1.4	0
222	Special Analysis Aspects of Modified Light Alloys 2021 , 53-73		
221	Structure and Properties of As-Cast Silumin and Processed by Intense Pulsed Electron Beam 2021 , 75-90		

220	Deformation behavior of high-entropy alloy system Al ₁₀ Co ₁₀ Cr ₁₀ Fe ₁₀ Ni achieved by wire-arc additive manufacturing. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2021 , 64, 68-74	0.4	1
219	Effect of Deposition Strategies on the Microstructure and Tensile Properties of Wire Arc Additive Manufactured Al-5Si Alloys. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 2136-2146	1.6	6
218	The Effect of Wire Feeding Speed on Solidification Cracking of CMT Welding for Al-Si Alloys. <i>Metals</i> , 2021 , 11, 267	2.3	3
217	Effect of pulsed electron beam treatment on microstructure and functional properties of Al-5.4Si-1.3Cu alloy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2021 , 488, 23-29	1.2	6
216	Strengthening Mechanisms in CoCrFeNiX (Al, Nb, Ta) High Entropy Alloys Fabricated by Powder Plasma Arc Additive Manufacturing. <i>Nanomaterials</i> , 2021 , 11,	5.4	8
215	Modification of high-entropy alloy AlCoCrFeNi by electron beam treatment. <i>Journal of Materials Research and Technology</i> , 2021 , 13, 787-797	5.5	5
214	Effect of electron beam energy densities on the surface morphology and tensile property of additively manufactured Al-Mg alloy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2021 , 498, 15-22	1.2	7
213	Evolution of Structure in AlCoCrFeNi High-Entropy Alloy Irradiated by a Pulsed Electron Beam. <i>Metals</i> , 2021 , 11, 1228	2.3	6
212	Effect of Melt Overheating on Structure and Mechanical Properties of Al-Mg-Si Cast Alloy. <i>Metals</i> , 2021 , 11, 1353	2.3	4
211	Replacement of Ta with equi-atomic radius Nb atoms in CoCrFeNiTa high entropy alloys: Effect on microstructure and mechanical properties. <i>Materials Letters</i> , 2021 , 297, 129966	3.3	1
210	The mechanism of formation of surface micro- and nanostructures in the AlCoCrFeNi high-entropy alloy during electron-beam treatment. <i>Letters on Materials</i> , 2021 , 11, 309-314	0.9	1
209	Generation of increased mechanical properties of Cantor high-entropy alloy. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2021 , 64, 599-605	0.4	5
208	Modifying of Structure-Phase States and Properties of Metals by Concentrated Energy Flows 2021 , 1-52		
207	Effect of Electron-Beam Processing on Structure and Phase Composition of Titanium VT1-0 Fractured in Fatigue Tests 2021 , 171-217		
206	Phase composition prediction of Al-Co-Cr-Fe-Ni high entropy alloy system based on thermodynamic and electronic properties calculations. <i>Materials Today: Proceedings</i> , 2021 , 46, 961-965	1.4	6
205	Research on Cu-6.6%Al-3.2%Si Alloy by Dual Wire Arc Additive Manufacturing. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 1694-1702	1.6	5
204	Structural phase variations in high-entropy alloy at irradiation by pulsed electron beam. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2021 , 64, 846-854	0.4	
203	Effect of La Addition on Solidification Behavior and Phase Composition of Cast Al-Mg-Si Alloy. <i>Metals</i> , 2020 , 10, 1673	2.3	3

202	Formation Mechanism of Micro- and Nanocrystalline Surface Layers in Titanium and Aluminum Alloys in Electron Beam Irradiation. <i>Metals</i> , 2020 , 10, 1399	2.3	9
201	Layer-by-Layer Analysis of the Cr ₃ NiTi Coating Substructure Obtained via Selective Laser Melting. <i>Journal of Surface Investigation</i> , 2020 , 14, 1022-1028	0.5	1
200	Modification of Al-10Si-2Cu alloy surface by intensive pulsed electron beam. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 5591-5598	5.5	6
199	Effect of Electron-Beam Treatment on the Structure of Commercial-Purity Titanium Subjected to Fatigue Failure. <i>Russian Metallurgy (Metally)</i> , 2020 , 2020, 401-407	0.5	
198	Structural phase states and properties of rails after long-term operation. <i>Materials Letters</i> , 2020 , 268, 127499	3.3	13
197	Surface modification of Ti-based alloy by selective laser melting of Ni-based superalloy powder. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 8796-8807	5.5	20
196	Friction and Wear Study of Fe-Cu-C-CaF ₂ Self-lubricating Composite at High Speed and High Temperature. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 834, 012010	0.4	0
195	Defect formation during dissimilar aluminium friction stir welded T-joints. <i>Mechanics and Industry</i> , 2020 , 21, 205	0.8	4
194	Morphology and development dynamics of rolled steel products manufacturing defects during long-term operation in main gas pipelines. <i>Engineering Failure Analysis</i> , 2020 , 109, 104359	3.2	6
193	Prospects for the Application of Surface Treatment of Alloys by Electron Beams in State-of-the-Art Technologies. <i>Progress in Physics of Metals</i> , 2020 , 21, 345-362	1.6	6
192	Effect of Electron-Plasma Treatment on the Microstructure of Al-11wt%Si Alloy. <i>Materials Research</i> , 2020 , 23,	1.5	2
191	The influence of electrical potential on the mechanical properties of commercially pure titanium. <i>Letters on Materials</i> , 2020 , 10, 512-516	0.9	
190	Microstructural evolution and mechanical properties of deep cryogenic treated Cu ₃ AlSi alloy fabricated by Cold Metal Transfer (CMT) process. <i>Materials Characterization</i> , 2020 , 159, 110011	3.9	27
189	Wave instability on the interface coating/substrate material under heterogeneous plasma flows. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 539-550	5.5	8
188	Structure and phase states modification of Al-11Si-2Cu alloy processed by ion-plasma jet and pulsed electron beam. <i>Surface and Coatings Technology</i> , 2020 , 383, 125246	4.4	8
187	Fatigue-Induced Evolution of AISI 310S Steel Microstructure after Electron Beam Treatment. <i>Materials</i> , 2020 , 13,	3.5	8
186	Mechanism of Silicon Plate Decay in Aluminum Matrix under Electron Beam Effect. <i>Key Engineering Materials</i> , 2020 , 839, 32-36	0.4	
185	The Role of Lattice Curvature in Structural Degradation of the Metal Surface Layer of a Rail under Long-term Operation. <i>Doklady Physics</i> , 2020 , 65, 376-378	0.8	2

184	Role of Matrix Microstructure in Governing the Mechanical Behavior and Corrosion Response of Two Magnesium Alloy Metal Matrix Composites. <i>Jom</i> , 2020 , 72, 2882-2891	2.1	2
183	Disintegration mechanism of second phase particles under electron beams. <i>Materials Research Express</i> , 2019 , 6, 106556	1.7	1
182	Structural-Phase State and the Properties of Silumin after Electron-Beam Surface Treatment. <i>Russian Metallurgy (Metally)</i> , 2019 , 2019, 398-402	0.5	2
181	Microstructure and mechanical properties of doped and electron-beam treated surface of hypereutectic Al-11.1%Si alloy. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 3835-3842	5.5	12
180	In-situ wire-feed additive manufacturing of Cu-Al alloy by addition of silicon. <i>Applied Surface Science</i> , 2019 , 487, 1366-1375	6.7	30
179	The microstructure and properties of nanostructured Cr-Al alloying layer fabricated by high-current pulsed electron beam. <i>Vacuum</i> , 2019 , 167, 263-270	3.7	41
178	Evolution of structure-phase states of hypoeutectic silumin irradiated by intensive pulse electron beams. <i>Materials Research Express</i> , 2019 , 6, 076574	1.7	2
177	Study of recrystallization kinetics in AA5182 aluminium alloy after deformation of the as-cast structure. <i>Materials Research Express</i> , 2019 , 6, 066552	1.7	6
176	Structural and phase changes under electropulse treatment of fatigue-loaded titanium alloy VT1-0. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 1300-1307	5.5	24
175	Thermocapillary model of formation of nanostructures on the surface irradiated by low-energy high-current electron beams. <i>Materials Research Express</i> , 2019 , 6, 076551	1.7	3
174	Change in Plasticity of Copper under Weak Electrical Potentials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 472, 012011	0.4	
173	Study of the recrystallization behaviour of the aluminium 1565ch alloy during hot rolling of the as cast structures. <i>Materials Research Express</i> , 2019 , 6, 076524	1.7	3
172	Formation of Gradient Structure and Phase States in the Surface Layers of 100-m Differentially Quenched Rails. <i>Russian Metallurgy (Metally)</i> , 2019 , 2019, 710-715	0.5	
171	Increase in Wear Resistance of the Surface Layers of AK10M2N Silumin at Electron-Beam Treatment. <i>Inorganic Materials: Applied Research</i> , 2019 , 10, 622-628	0.6	2
170	Specific Features of Microstructural Evolution During Hot Rolling of the As-Cast Magnesium-Rich Aluminum Alloys with Added Transition Metal Elements. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 5782-5799	2.3	6
169	Improvement of copper alloy properties in electro-explosive spraying of ZnO-Ag coatings resistant to electrical erosion. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 5515-5523	5.5	18
168	Effect of electron-plasma alloying on structure and mechanical properties of Al-Si alloy. <i>Applied Surface Science</i> , 2019 , 498, 143767	6.7	14
167	Influence of constant magnetic field on plastic characteristics of paramagnetic metals. <i>Materials Research Express</i> , 2019 , 6, 096523	1.7	0

166	Investigation of subgrain and fine intermetallic particles size impact on grain boundary mobility in aluminum alloys with transitional metal addition. <i>Materials Today: Proceedings</i> , 2019 , 19, 2183-2188	1.4	3
165	Effect of the Density of Electron Beam Energy on the Structure and Mechanical Characteristics of Surface Layers of Hypoeutectic Silumin. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2019 , 83, 1282-1288	0.4	1
164	Formation and Evolution of Structure and Phase Composition of Hypoeutectoid Silumin on Electron Beam Processing. <i>Journal of Surface Investigation</i> , 2019 , 13, 809-813	0.5	1
163	A Study of Texture Component Distribution Over the Cross Section of an Aluminum Alloy 8011 Billet with Hot Rolling in a Four-Stand Continuous Group. <i>Metal Science and Heat Treatment</i> , 2019 , 61, 300-304	0.6	
162	Microstructure and micro-hardness behavior of TiO ₂ /AlSi composite coatings prepared in electron-plasma alloying. <i>Materials Characterization</i> , 2019 , 158, 109934	3.9	4
161	Microstructure and Properties of Hypoeutectic Silumin Treated by High-Current Pulsed Electron Beams. <i>Progress in Physics of Metals</i> , 2019 , 20, 447-484	1.6	4
160	Investigating and Understanding the Mechanical and Tribological Properties of a Magnesium Hybrid Metal/Ceramic Nanocomposite. <i>Minerals, Metals and Materials Series</i> , 2019 , 85-94	0.3	
159	The fabrication of NiTi shape memory alloy by selective laser melting: a review. <i>Rapid Prototyping Journal</i> , 2019 , 25, 1421-1432	3.8	31
158	Study of the specific features, characterising homogenisation of the promising Al-Mg system aluminium alloys with transition elements addition. <i>International Journal of Nanotechnology</i> , 2019 , 16, 602	1.5	
157	Wear Resistance of the Surface Layers in Silumin after Electron-Beam Treatment. <i>Russian Metallurgy (Metally)</i> , 2019 , 2019, 981-985	0.5	1
156	Nanostructure formation of hypoeutectic silumin by electron-plasma methods. <i>Journal of Physics: Conference Series</i> , 2019 , 1393, 012091	0.3	0
155	Microdiffraction analysis of structure of silumin during high-velocity cellular crystallization. <i>Journal of Physics: Conference Series</i> , 2019 , 1393, 012114	0.3	
154	The surface modification of aluminum by mechanical milling of Pb coating and high current pulsed electron beam irradiation. <i>Materials Research Express</i> , 2019 , 6, 1265g3	1.7	2
153	Formation of Structure and Properties of Silumin on Electron-Beam Processing. <i>Journal of Surface Investigation</i> , 2019 , 13, 1040-1044	0.5	0
152	Location dependence of microstructure and mechanical properties of CuAl alloy fabricated by dual wire CMT. <i>Materials Research Express</i> , 2019 , 6, 126567	1.7	3
151	Combined Rayleigh-Taylor-Kelvin-Helmholtz instability and its role in the formation of the surface relief of the coating/substrate 2019 ,		2
150	Model of nanostructure formation in AlSi alloy at electron beam treatment. <i>Materials Research Express</i> , 2019 , 6, 026540	1.7	11
149	Transformation of Carbides in Prolonged Rail Operation. <i>Steel in Translation</i> , 2018 , 48, 97-103	0.4	

148	Structure and properties changes of Al-Si alloy treated by pulsed electron beam. <i>Materials Letters</i> , 2018 , 229, 377-380	3.3	29
147	Modification of Structure and Surface Properties of Hypoeutectic Silumin by Intense Pulse Electron Beams. <i>Progress in Physics of Metals</i> , 2018 , 19, 195-222	1.6	25
146	TRANSFORMATION OF CARBIDE PHASE IN RAILS AT LONG-TERM OPERATION. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2018 , 61, 140-148	0.4	3
145	REDISTRIBUTION OF CARBON ATOMS IN DIFFERENTIALLY CHARGED RAILS FOR LONG-TERM OPERATION. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2018 , 61, 454-459	0.4	3
144	Research of heat resistance of the multilayer coating after electro-spark alloying of C45 steel Cr-Ni alloys. <i>Letters on Materials</i> , 2018 , 8, 140-145	0.9	4
143	Evolution of Structure and Properties of Differentially Quenched Rails During Long-Term Operation. <i>Metallofizika I Noveishie Tekhnologii</i> , 2018 , 39, 1599-1646	0.5	2
142	Contributions of Various Mechanisms to the Hardening of Differentially Quenched Rails during Long-Term Operation. <i>Russian Metallurgy (Metally)</i> , 2018 , 2018, 985-989	0.5	3
141	Mechanisms of nanoscale structure formation during electron beam treatment of silumin. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 447, 012061	0.4	0
140	Microstructure and wear properties of Hardox 450 steel surface modified by Fe-C-Cr-Nb-W powder wire surfacing and electron beam treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 411, 012024	0.4	5
139	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. <i>Steel in Translation</i> , 2018 , 48, 352-356	0.4	
138	Physical and technical fundamentals of technology used to increase the wear resistance of working surfaces of large volume excavator buckets. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 206, 012029	0.3	
137	The formation and control of porosity during laser DP780 dual-phase galvanized steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 411, 012085	0.4	
136	Effect of applied load on welding stress at different time periods. <i>MATEC Web of Conferences</i> , 2018 , 224, 01069	0.3	
135	Cold Metal Transfer (CMT) Based Wire and Arc Additive Manufacture (WAAM) System. <i>Journal of Surface Investigation</i> , 2018 , 12, 1278-1284	0.5	46
134	Evolution of the Structure and Properties of AK10M2N Silumin under Irradiation with a High-Intensity Pulsed Electron Beam. <i>Inorganic Materials</i> , 2018 , 54, 1308-1314	0.9	2
133	The structure of the surface layer in titanium VT1-0 after high-cycle fatigue tests. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 447, 012075	0.4	1
132	AFM investigation of silumin structure modified by Al-Y ₂ O ₃ coating using the method of electric explosive alloying. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 411, 012056	0.4	
131	Effect of phase transition temperature and particle size on residual stresses and properties of laser cladding layer. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 411, 012084	0.4	

130	Structure-property correlation in magnesium nanocomposites synthesized by disintegrated melt deposition technique. <i>Materials Today: Proceedings</i> , 2018 , 5, 16280-16285	1.4	2
129	Tribological characteristics of magnesium nanocomposites. <i>Materials Today: Proceedings</i> , 2018 , 5, 16575-16579	1.6	2
128	Study of the surface relief, structure and phase composition of the silumin composite layer obtained by the method of electric explosion alloying by Al-Y2O3 system. <i>Journal of Physics: Conference Series</i> , 2018 , 1115, 032021	0.3	3
127	Structure-phase state evolution of 100-m differentially hardened rails in long-term usage. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 411, 012089	0.4	1
126	Influence of Local Inhomogeneity of Thermomechanical Treatment Conditions on Microstructure Evolution in Aluminum Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6780-6799	1.6	10
125	Corrosion of Materials after Advanced Surface Processing, Joining, and Welding. <i>International Journal of Corrosion</i> , 2018 , 2018, 1-3	2	7
124	Gradient Structure Generated in Hardox 450 Steel with Built-Up Layer. <i>Inorganic Materials: Applied Research</i> , 2018 , 9, 427-432	0.6	1
123	Gradient Structure of the Layer Applied to Hardox 450 Steel by Fe-Cr-Nb-W Powder Wire after Electron-Beam Treatment. <i>Steel in Translation</i> , 2018 , 48, 229-232	0.4	1
122	Multilayer structure of Al-Si alloy after electro-explosion alloying with yttrium oxide powder. <i>Materials Research Express</i> , 2018 , 5, 116520	1.7	6
121	The Analysis of the Influence of Various Factors on the Development of Stress Corrosion Defects in the Main Gas Pipeline Walls in the Conditions of the European Part of the Russian Federation. <i>International Journal of Corrosion</i> , 2018 , 2018, 1-10	2	5
120	Modeling of the initial stages of the formation of heterogeneous plasma flows in the electric explosion of conductors. <i>Current Applied Physics</i> , 2018 , 18, 1101-1107	2.6	2
119	Modeling hydrodynamic flows in plasma fluxes when depositing metal layer on the surface of catalyst converters. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 50, 012050	0.3	1
118	Structure and properties of a low-carbon steel surface modified by electric arc surfacing. <i>Journal of Surface Investigation</i> , 2017 , 11, 1050-1055	0.5	1
117	Structural phase states and properties of the layer surfaced on low-carbon steel with Fe-C-Cr-Nb-W powder-core wire followed by electron-beam processing. <i>Journal of Surface Investigation</i> , 2017 , 11, 933-939	0.5	1
116	Structure and properties of H-beams after accelerated water cooling. <i>Steel in Translation</i> , 2017 , 47, 369-373	0.7	1
115	Test beam studies of possibilities to separate particles with gamma factors above 10 ³ with straw based Transition Radiation Detector. <i>Journal of Physics: Conference Series</i> , 2017 , 934, 012053	0.3	3
114	Impact of the Chemical Elements Upon the Convective Flows in the Molten Metal of the Weld Pool. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 66, 012017	0.3	1
113	Defect substructure change in 100-m differentially hardened rails in long-term operation. <i>Materials Letters</i> , 2017 , 209, 224-227	3.3	9

112	Nanohardness of wear-resistant surfaces after electron-beam treatment. <i>Steel in Translation</i> , 2017 , 47, 245-249	0.4	1
111	Formation and evolution of the structure and phase composition of stainless steel during electron-beam treatment and multiple-cycle fatigue. <i>Inorganic Materials: Applied Research</i> , 2017 , 8, 521-527	0.6	6
110	Structure and properties of strengthening layer on Hardox 450 steel. <i>Materials Science and Technology</i> , 2017 , 33, 2040-2045	1.5	4
109	Phase composition and defect substructure of double surfacing, formed with VCrNbW powder wire on steel. <i>Inorganic Materials: Applied Research</i> , 2017 , 8, 313-317	0.6	
108	Research into the Structure of Aluminum Matrix Composite $\text{Al}12+2.38\%\text{Cu}+0.06\%\text{SiC}$ with a Scanning Probe Microscope. <i>Solid State Phenomena</i> , 2017 , 265, 723-727	0.4	
107	Structure and properties of Hardox 450 steel with arc welded coatings 2017 ,		1
106	Electron-beam modification of a surface layer deposited on low-carbon steel by means of arc spraying. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 1353-1359	0.4	3
105	Variations in defect substructure and fracture surface of commercially pure aluminum under creep in weak magnetic field. <i>Chinese Physics B</i> , 2017 , 26, 126203	1.2	4
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