Sergey Konovalov

List of Publications by Citations

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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

g-index

290 ext. papers

1,600 ext. citations

1.3 avg, IF

5.1 L-index

#	Paper	IF	Citations
255	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
254	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
253	Additive Manufacturing Based on Welding Arc: A low-Cost Method. <i>Journal of Surface Investigation</i> , 2017 , 11, 1317-1328	0.5	38
252	Formation of surface gradient structural-phase states under electron-beam treatment of stainless steel. <i>Journal of Surface Investigation</i> , 2011 , 5, 974-978	0.5	35
251	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
250	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
249	Structure and properties changes of Al-Si alloy treated by pulsed electron beam. <i>Materials Letters</i> , 2018 , 229, 377-380	3.3	29
248	Effects of strain rate on the hot deformation behavior and dynamic recrystallization in China low activation martensitic steel. <i>Fusion Engineering and Design</i> , 2016 , 103, 21-30	1.7	28
247	Mathematical Modeling of the Concentrated Energy Flow Effect on Metallic Materials. <i>Metals</i> , 2017 , 7, 4	2.3	28
246	Multicyclic fatigue of stainless steel treated by a high-intensity electron beam: surface layer structure. <i>Russian Physics Journal</i> , 2011 , 54, 575-583	0.7	27
245	Microstructural evolution and mechanical properties of deep cryogenic treated CuAlBi alloy fabricated by Cold Metal Transfer (CMT) process. <i>Materials Characterization</i> , 2020 , 159, 110011	3.9	27
244	Evolution of dislocation substructures in fatigue loaded and failed stainless steel with the intermediate electropulsing treatment. <i>Materials Science & Dispersion of the Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3040-3043	5.3	26
243	Influence of contact potential difference and electric potential on the microhardness of metals. <i>Physics of the Solid State</i> , 2009 , 51, 1137-1141	0.8	25
242	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
241	Structural and phase changes under electropulse treatment of fatigue-loaded titanium alloy VT1-0. Journal of Materials Research and Technology, 2019 , 8, 1300-1307	5.5	24
240	Formation features of structure-phase states of CrNbCN containing coatings on martensitic steel. <i>Journal of Surface Investigation</i> , 2016 , 10, 1119-1124	0.5	22
239	Evolution of the phase composition and defect substructure of rail steel subjected to high-intensity electron-beam treatment. <i>Journal of Surface Investigation</i> , 2013 , 7, 990-995	0.5	21

238	Control of austenite steel fatigue strength. <i>International Journal of Fatigue</i> , 2005 , 27, 1186-1191	5	21
237	Surface modification of Ti-based alloy by selective laser melting of Ni-based superalloy powder. Journal of Materials Research and Technology, 2020 , 9, 8796-8807	5.5	20
236	Increase in the fatigue durability of stainless steel by electron-beam surface treatment. <i>Journal of Surface Investigation</i> , 2013 , 7, 94-98	0.5	20
235	Fatigue life of silumin treated with a high-intensity pulsed electron beam. <i>Journal of Surface Investigation</i> , 2015 , 9, 1056-1059	0.5	20
234	Evolution of All 914Si alloy surface structure after electron beam treatment and high cycle fatigue. <i>Materials Science and Technology</i> , 2015 , 31, 1523-1529	1.5	20
233	On the influence of the electrical potential on the creep rate of aluminum. <i>Physics of the Solid State</i> , 2007 , 49, 1457-1459	0.8	20
232	Dislocation substructure evolution on Al creep under the action of the weak electric potential. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 858-861	5.3	19
231	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
230	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
229	Structural phase states and properties of rails after long-term operation. <i>Materials Letters</i> , 2020 , 268, 127499	3.3	13
229		<i>3.</i> 3 <i>5.</i> 5	13
	268, 127499 Microstructure and mechanical properties of doped and electron-beam treated surface of		
228	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 Research on the structure of Al2.1Co0.3Cr0.5FeNi2.1 high-entropy alloy at submicro- and	5·5 3·3	12
228	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 Research on the structure of Al2.1Co0.3Cr0.5FeNi2.1 high-entropy alloy at submicro- and nano-scale levels. <i>Materials Letters</i> , 2021 , 294, 129717	5·5 3·3	12
228 227 226	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 Research on the structure of Al2.1Co0.3Cr0.5FeNi2.1 high-entropy alloy at submicro- and nano-scale levels. <i>Materials Letters</i> , 2021 , 294, 129717 Fatigue failure of stainless steel after electron-beam treatment. <i>Steel in Translation</i> , 2012 , 42, 486-488 Model of nanostructure formation in AlBi alloy at electron beam treatment. <i>Materials Research</i>	5·5 3·3 0.4	12 12 11
228 227 226 225	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 Research on the structure of Al2.1Co0.3Cr0.5FeNi2.1 high-entropy alloy at submicro- and nano-scale levels. <i>Materials Letters</i> , 2021 , 294, 129717 Fatigue failure of stainless steel after electron-beam treatment. <i>Steel in Translation</i> , 2012 , 42, 486-488 Model of nanostructure formation in AlBi alloy at electron beam treatment. <i>Materials Research Express</i> , 2019 , 6, 026540 Influence of Local Inhomogeneity of Thermomechanical Treatment Conditions on Microstructure	5.5 3.3 0.4	12 12 11
228 227 226 225 224	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 Research on the structure of Al2.1Co0.3Cr0.5FeNi2.1 high-entropy alloy at submicro- and nano-scale levels. <i>Materials Letters</i> , 2021 , 294, 129717 Fatigue failure of stainless steel after electron-beam treatment. <i>Steel in Translation</i> , 2012 , 42, 486-488 Model of nanostructure formation in AlSi alloy at electron beam treatment. <i>Materials Research Express</i> , 2019 , 6, 026540 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 Formation Mechanism of Micro- and Nanocrystalline Surface Layers in Titanium and Aluminum	5.5 3.3 0.4 1.7	12 12 11 11 10

220	Wave instability on the interface coating/substrate material under heterogeneous plasma flows. Journal of Materials Research and Technology, 2020 , 9, 539-550	5.5	8
219	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
218	Fatigue-Induced Evolution of AISI 310S Steel Microstructure after Electron Beam Treatment. <i>Materials</i> , 2020 , 13,	3.5	8
217	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
216	Structural evolution of silumin treated with a high-intensity pulse electron beam and subsequent fatigue loading up to failure. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015 , 79, 1169-1172	0.4	7
215	Macrolocalization of plastic strain in creep of fine-grain aluminum. <i>Technical Physics</i> , 2005 , 50, 376-379	0.5	7
214	Corrosion of Materials after Advanced Surface Processing, Joining, and Welding. <i>International Journal of Corrosion</i> , 2018 , 2018, 1-3	2	7
213	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
212	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
211	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
210	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
209	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
208	Evolution of the phase composition and defect substructure in the surface layer of rail steel under fatigue. <i>Steel in Translation</i> , 2013 , 43, 724-727	0.4	6
207	Fractography of the fatigue fracture surface of silumin irradiated by high-intensity pulsed electron beam. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 81, 012011	0.4	6
206	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
205	Structure of titanium alloy, modified by electron beams and destroyed during fatigue. <i>Letters on Materials</i> , 2017 , 7, 266-271	0.9	6
204	The Influence of Electron Beam Treatment on Al-Si Alloy Structure Destroyed at High-Cycle Fatigue. <i>Key Engineering Materials</i> , 2016 , 675-676, 655-659	0.4	6
203	An increase in fatigue service life of eutectic silumin by electron-beam treatment. <i>Russian Journal of Non-Ferrous Metals</i> , 2016 , 57, 236-242	0.8	6

202	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
201	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
200	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
199	Evolution of Structure in AlCoCrFeNi High-Entropy Alloy Irradiated by a Pulsed Electron Beam. <i>Metals</i> , 2021 , 11, 1228	2.3	6
198	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
197	Gradient structural phase states formed in steel 08Kh18N10T in the course of high-cycle fatigue to failure. <i>Physics of Metals and Metallography</i> , 2011 , 112, 81-89	1.2	5
196	Ways of the dislocation substructure evolution in austenite steel under low and multicycle fatigue. <i>Procedia Engineering</i> , 2010 , 2, 83-90		5
195	Microstructural and mechanical characterisation of non-equiatomic Al2.1Co0.3Cr0.5FeNi2.1 high-entropy alloy fabricated via wire-arc additive manufacturing. <i>Philosophical Magazine Letters</i> , 2021 , 101, 353-359	1	5
194	Structural and phase states in high-quality rail. Steel in Translation, 2016, 46, 260-263	0.4	5
193	Increase in fatigue life of steels by electron-beam processing. <i>Journal of Surface Investigation</i> , 2016 , 10, 83-87	0.5	5
192	Metallographic Examination of Forming Improved Mechanical Properties via Surfacing of Steel HARDOX 450 with Flux Cored Wire. <i>Materials Science Forum</i> , 2016 , 870, 159-162	0.4	5
191	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
190	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
189	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
188	Generation of increased mechanical properties of Cantor highlentropy alloy. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2021 , 64, 599-605	0.4	5
187	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
186	Defect formation during dissimilar aluminium friction stir welded T-joints. <i>Mechanics and Industry</i> , 2020 , 21, 205	0.8	4
185	Increase of Fatigue Life of Titanium VT1-0 after Electron Beam Treatment. <i>Key Engineering Materials</i> , 2016 , 704, 15-19	0.4	4

184	Microstructure and micro-hardness behavior of TiM2O3 AlBi composite coatings prepared in electron-plasma alloying. <i>Materials Characterization</i> , 2019 , 158, 109934	3.9	4
183	Structure and properties of strengthening layer on Hardox 450 steel. <i>Materials Science and Technology</i> , 2017 , 33, 2040-2045	1.5	4
182	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
181	Physical nature of surface structure degradation in long term operated rails 2017 ,		4
180	Structure-phase states evolution in Al-Si alloy under electron-beam treatment and high-cycle fatigue 2015 ,		4
179	Effect of the electric potential of the aluminum surface on stress relaxation. <i>Technical Physics</i> , 2011 , 56, 877-880	0.5	4
178	On the effect of electric potential on resistance of metals urface to microindentation. <i>Journal of Surface Investigation</i> , 2010 , 4, 157-161	0.5	4
177	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
176	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
175	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
174	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
173	Influence of Mg Content on Texture Development during Hot Plain-Strain Deformation of Aluminum Alloys. <i>Metals</i> , 2021 , 11, 865	2.3	4
172	Effect of Melt Overheating on Structure and Mechanical Properties of Al-Mg-Si Cast Alloy. <i>Metals</i> , 2021 , 11, 1353	2.3	4
171	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
170	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
169	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
168	Test beam studies of possibilities to separate particles with gamma factors above 103with straw based Transition Radiation Detector. <i>Journal of Physics: Conference Series</i> , 2017 , 934, 012053	0.3	3
167	Mathematical Model of Nanostructure Formation in Binary Alloys at Electron Beam Treatment. Materials Science Forum, 2016 , 870, 34-39	0.4	3

Investigation of subgrain and fine intermetallic participles 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	
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	
Thermocapillary model of formation of surface nanostructure in metals at electron beam treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 91, 012028	0.4	3	
Gradient Structural-Phase States in the Thermostrengthened Low-Carbon Steel Reinforcement. Materials and Manufacturing Processes, 2011 , 26, 144-146	4.1	3	
Microstructure evolution of additively manufactured CoCrFeNiAl0.4 high-entropy alloy under thermo-mechanical processing. <i>Journal of Materials Research and Technology</i> , 2022 , 16, 442-450	5.5	3	
TRANSFORMATION OF CARBIDIPHASE IN RAILS AT LONG-TERM OPERATION. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2018 , 61, 140-148	0.4	3	
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	
Electron-beam processing of the hardened layer formed on Hardox 450 steel electric-wire welding system Fe-C-V-Cr-Nb-W. <i>Letters on Materials</i> , 2016 , 6, 350-354	0.9	3	
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	
High-entropy alloys: Structure, mechanical properties, deformation mechanisms and application. **Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021 , 64, 249-258	0.4	3	
Change of deformation characteristics and dislocation substructure of nonferrous metals under influence of magnetic field. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 150, 012038	0.4	3	
Effect of electron beam treatment on structural change in titanium alloy VT-0 at high-cycle fatigue. **IOP Conference Series: Materials Science and Engineering, 2016 , 150, 012037	0.4	3	
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	
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	
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	
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:</i> Conference Series, 2018, 1115, 032021	0.3	3	
Structural-Phase State and the Properties of Silumin after Electron-Beam Surface Treatment. Russian Metallurgy (Metally), 2019 , 2019, 398-402	0.5	2	
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	
	aluminum alloys with transitional metal addition. <i>Materials Today: Proceedings</i> , 2019, 19, 2183-2188 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 Thermocapillary model of formation of surface nanostructure in metals at electron beam treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 91, 012028 Gradient Structural-Phase States in the Thermostrengthened Low-Carbon Steel Reinforcement. <i>Materials and Manufacturing Processes</i> , 2011, 26, 144-146 Microstructure evolution of additively manufactured Cocffenialo.4 high-entropy alloy under thermo-mechanical processing. <i>Journal of Materials Research and Technology</i> , 2022, 16, 442-450 TRANSFORMATION OF CARBIDIPHASE IN RAILS AT LONG-TERM OPERATION. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2018, 61, 140-148 REDISTRIBUTION OF CARBON ATOMS IN DIFFERENTIALLY CHARGED RAILS FOR LONG-TERM OPERATION. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2018, 61, 454-459 Electron-beam processing of the hardened layer formed on Hardox 450 steel electric-wire welding system Fe-CV-Cr-Nb-W. <i>Letters on Materials</i> , 2016, 6, 350-354 Electroexplosive hafnium coating on titanium implant modified by nitrogen ions and electron beam processing. <i>Surface and Coatings Technology</i> , 2021, 409, 126995 High-entropy alloys: Structure, mechanical properties, deformation mechanisms and application. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2021, 64, 249-258 Change of deformation characteristics and dislocation substructure of nonferrous metals under influence of magnetic field. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 150, 012037 Location dependence of microstructure and mechanical properties of CuBl alloy fabricated by dual wire CMT. <i>Materials Research Express</i> , 2019, 6, 126567 The Effect of Wire Feeding Speed on Solidification Cracking of CMT Welding	aluminum alloys with transitional metal addition. <i>Materials Today: Proceedings</i> , 2019, 19, 2183-2188 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 O4 Thermocapillary model of formation of surface nanostructure in metals at electron beam treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 91, 012028 O4 Gradient Structural-Phase States in the Thermostrengthened Low-Carbon Steel Reinforcement. <i>Materials and Manufacturing Processes</i> , 2011, 26, 144-146 Microstructure evolution of additively manufactured CoCrFeNiAl0.4 high-entropy alloy under thermo-mechanical processing. <i>Journal of Materials Research and Technology</i> , 2022, 16, 442-450 TRANSFORMATION OF CARBIDPHASE IN RAILS AT LONG-TERM 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012037 Location dependence of microstructure and mechanical properties of Cußl alloy fabricated by Intensive Metallurgy (Metally), 2018, 2018, 985-989 Location dependence of microstructure and phase composition of the silu	aluminum alloys with transitional metal addition. <i>Materials Today: Proceedings</i> , 2019, 19, 2183-2188 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 Thermocapillary model of formation of surface nanostructure in metals at electron beam treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 91, 012028 O4 3 Gradient Structural-Phase States in the Thermostrengthened Low-Carbon Steel Reinforcement. <i>Materials and Manufacturing Processes</i> , 2011, 26, 144-145 Microstructural-Phase States in the Thermostrengthened Low-Carbon Steel Reinforcement. <i>Materials and Manufacturing Processes</i> , 2011, 26, 144-145 Microstructural-Phase States in the Thermostrengthened Low-Carbon Steel Reinforcement. <i>Materials and Manufacturing Processes</i> , 2011, 26, 144-145 Microstructural-Phase States in the Thermostrengthened Low-Carbon Steel Reinforcement. <i>Materials and Manufacturing Processing</i> , 3011, 210-148 REDISTRIBUTION OF CARBIDPHASE IN RAILS AT LONG-TERM OPERATION. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2018, 61, 454-459 OPERATION. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2018, 61, 454-459 Electron-beam processing of the hardened layer formed on Hardox 450 steel electric-wire welding system Fe-C-V-Cr-Nb-W. <i>Letters on Materials</i> , 2016, 6, 350-354 Electroexplosive hafnium coating on titanium implant modified by nitrogen ions and electron beam processing. <i>Surface and Coatings Technology</i> , 2021, 409, 126895 High-entropy alloys: Structure, mechanical properties, deformation mechanisms and application. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgya</i> , 2021, 64, 249-258 High-entropy alloys: Structure, mechanical properties, deformation mechanisms and application. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgya</i> , 2016, 150, 012037 Change of deformation characteristics and dislocation substructure of nonfe

148	Fractography of Fatigue Fracture Surface in Silumin Subjected to Electron-Beam Processing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 142, 012080	0.4	2
147	Formation Wear Resistant Coatings on Martensite Steel Hardox 450 by Welding Methods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 142, 012079	0.4	2
146	Nanolayer formation during hydrodynamic instability under external stimuli. <i>Steel in Translation</i> , 2016 , 46, 679-685	0.4	2
145	Electric arc surfacing on low carbon steel: Structure and properties 2016 ,		2
144	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
143	Structure of low-carbon steel sheet after scale removal. <i>Steel in Translation</i> , 2014 , 44, 264-267	0.4	2
142	Formation of gradients of structure, phase composition, and dislocation substructure in differentially hardened rails. <i>Nanotechnologies in Russia</i> , 2014 , 9, 288-292	0.6	2
141	Variation of Strength Characteristics of Titanium Surface Layers Under Magnetic Field Effect. Journal of Surface Investigation, 2017 , 11, 1338-1341	0.5	2
140	Regularities of varying the dislocation substructure of copper under creep in the magnetic field. <i>Russian Journal of Non-Ferrous Metals</i> , 2015 , 56, 441-448	0.8	2
139	Fatigue life of silumin irradiated by high intensity pulsed electron beam. <i>IOP Conference Series:</i> Materials Science and Engineering, 2015 , 91, 012029	0.4	2
138	Structure-phase states of silumin surface layer after electron beam and high cycle fatigue. <i>Journal of Physics: Conference Series</i> , 2015 , 652, 012028	0.3	2
137	Mathematical model of nanostructure formation in rail steel under high intensive mechanical loading 2015 ,		2
136	Formation of structure and mechanical properties in the accelerated cooling of an H beam. <i>Steel in Translation</i> , 2010 , 40, 114-118	0.4	2
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134	Gradient structure-phase states formed in Hadfield steel during dry sliding wear. <i>Russian Physics Journal</i> , 2008 , 51, 1168-1173	0.7	2
133	Microstructure and mechanical properties of non-equiatomic Co25.4Cr15Fe37.9Mn3.5Ni16.8Si1.4 high-entropy alloy produced by wire-arc additive manufacturing. <i>Materials Letters</i> , 2022 , 312, 131675	3.3	2
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131	Effect of Electron-Plasma Treatment on the Microstructure of Al-11wt%Si Alloy. <i>Materials Research</i> , 2020 , 23,	1.5	2

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129	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
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127	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
126	Electro-Explosive Doping of VT6 Titanium Alloy Surface by Boron Carbide. <i>IOP Conference Series:</i> Materials Science and Engineering, 2016 , 150, 012042	0.4	2
125	Influence of hydrogen on the localization of plastic strain in low-carbon steel. <i>Steel in Translation</i> , 2016 , 46, 851-854	0.4	2
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123	Combined Rayleigh I aylor Relvin Helmholtz instability and its role in the formation of the surface relief of the coating/substrate 2019,		2
122	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
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120	Structure-property correlation in magnesium nanocomposites synthesized by disintegrated melt deposition technique. <i>Materials Today: Proceedings</i> , 2018 , 5, 16280-16285	1.4	2
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111	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
110	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
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108	Evolution of the structure and phase composition of low-carbon ferrite steel under conditions of hydrogen saturation and deformation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014 , 78, 237	7 -24 0	1
107	Nanohardness of wear-resistant surfaces after electron-beam treatment. <i>Steel in Translation</i> , 2017 , 47, 245-249	0.4	1
106	Structure and properties of Hardox 450 steel with arc welded coatings 2017 ,		1
105	Gradient structure formed in commercially pure titanium irradiated with a pulsed electron beam 2017 ,		1
104	Intense Pulsed Electron Beam Modification of Surface Layer Facing Formed on Hardox 450 Steel by Electrocontact Method. <i>Journal of Surface Investigation</i> , 2017 , 11, 1342-1347	0.5	1
103	Synthesising nanostructural wear-resistant coatings on martensite steel by welding methods. <i>International Journal of Nanotechnology</i> , 2017 , 14, 627	1.5	1
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101	Strain localization parameters of AlCu4MgSi processed by high-energy electron beams 2015 ,		1
100	Superior Quality Rails: Structure-Phase States and Defect Substructure. <i>Advanced Materials Research</i> , 2014 , 1013, 127-132	0.5	1
99	Plastic Deformation Localization of Low Carbon Steel: Hydrogen Effect. <i>Advanced Materials Research</i> , 2014 , 1013, 77-83	0.5	1
98	Formation of structure-phase states and dislocation substructures during thermomechanical hardening of FeD.09CDMnDSi steel. <i>Russian Physics Journal</i> , 2012 , 54, 1034-1045	0.7	1
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96	Dislocation Substructure Gradient Formation in Aluminum by Creep under Weak Potential. <i>Arabian Journal for Science and Engineering</i> , 2011 , 36, 649-653		1
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89	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
88	The Casting Rate Impact on the Microstructure in AlMgBi Alloy with Silicon Excess and Small Zr, Sc Additives. <i>Metals</i> , 2021 , 11, 2056	2.3	1
87	Influence of the Small Sc and Zr Additions on the As-Cast Microstructure of AlMgBi Alloys with Excess Silicon. <i>Metals</i> , 2021 , 11, 1797	2.3	1
86	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
85	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
84	Fatigue variation of surface properties of silumin subjected to electron-beam treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 110, 012012	0.4	1
83	Formation of the Increased Wear-Resistant Properties of Hardox 450 Steel by Deposited Coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 150, 012041	0.4	1
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81	Wear Resistance of the Surface Layers in Silumin after Electron-Beam Treatment. <i>Russian Metallurgy (Metally)</i> , 2019 , 2019, 981-985	0.5	1
80	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
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78	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
77	Gradient Structure Generated in Hardox 450 Steel with Built-Up Layer. <i>Inorganic Materials: Applied Research</i> , 2018 , 9, 427-432	0.6	1

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75	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
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73	Surface modification of sub-eutectic silumin by a pulsed electron beam. <i>Surfaces and Interfaces</i> , 2022 , 29, 101810	4.1	1
72	Friction and Wear Study of Fe-Cu-C-CaF2 Self-lubricating Composite at High Speed and High Temperature. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 834, 012010	0.4	O
71	Influence of hydrogen on the localization of plastic strain in low-carbon steel during electrolytic saturation. <i>Steel in Translation</i> , 2016 , 46, 107-111	0.4	O
70	Influence of constant magnetic field on plastic characteristics of paramagnetic metals. <i>Materials Research Express</i> , 2019 , 6, 096523	1.7	0
69	Magnetic Field Effect on Creep of Polycrystalline Copper. <i>Advanced Materials Research</i> , 2015 , 1120-1121, 962-966	0.5	O
68	Change of dislocation substructures upon high-cycle fatigue of stainless steel. <i>Russian Physics Journal</i> , 2009 , 52, 265-268	0.7	0
67	Forming structural-phase states of the surface layer of steel by electron-beam treatment. <i>Steel in Translation</i> , 2007 , 37, 670-672	0.4	O
66	Modification of the defect substructure in a quenched steel by a low-energy high-current pulsed electron beam. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2008 , 72, 1213-1216	0.4	O
65	Modeling and Optimization of Solidification Cracking of 4043 Aluminum Alloys Produced by Cold Metal Transfer Welding. <i>Journal of Materials Engineering and Performance</i> ,1	1.6	O
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63	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	O
62	Nanostructure formation of hypoeutectic silumin by electronion-plasma methods. <i>Journal of Physics: Conference Series</i> , 2019 , 1393, 012091	0.3	O
61	Formation of Structure and Properties of Silumin on Electron-Beam Processing. <i>Journal of Surface Investigation</i> , 2019 , 13, 1040-1044	0.5	O
60	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
59	Approach to oriented grain growth accounting during aluminum alloys recrystallization simulation. <i>Materials Today: Proceedings</i> , 2021 , 46, 957-960	1.4	O

58	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	O
57	Wire arc additive manufacturing Al-5.0 Mg alloy: Microstructures and phase composition. <i>Materials Characterization</i> , 2022 , 187, 111875	3.9	O
56	Texture Development in Aluminum Alloys with High Magnesium Content. <i>Metals</i> , 2022 , 12, 723	2.3	0
55	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	
54	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	
53	Change in Plasticity of Copper under Weak Electrical Potentials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 472, 012011	0.4	
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51	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	
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45	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	
44	Phase composition and defect substructure of double surfacing, formed with VarNbW powder wire on steel. <i>Inorganic Materials: Applied Research</i> , 2017 , 8, 313-317	0.6	
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41	Mathematical modelling of convective processes in a weld pool under electric arc surfacing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 168, 012039	0.4	

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39	The Increase in Wear Resistance of Low Carbon Steel by Flux-Cored Wire Surfacing Followed Be Electron Beam Processing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 253, 012019	0.4
38	Investigation of defect copper substructure disrupted in creep condition under the action of magnetic field. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 91, 012030	0.4
37	Dislocation substructures and internal stress fields in bulk- and differentially quenched rails. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 981-987	0.4
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35	Fatigue and corrosion resistance of bimetals after pulsed surface treatment. <i>Steel in Translation</i> , 2011 , 41, 969-973	0.4
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33	Evolution of the dislocation substructure in an annealed pro-eutectoid steel upon irradiation with a high-current electron beam. <i>Russian Physics Journal</i> , 2009 , 52, 511-518	0.7
32	Formation of stress field gradients during the high cycle fatigue of an austenitic corrosion-resistant steel. <i>Russian Metallurgy (Metally)</i> , 2010 , 2010, 268-272	0.5
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25	The Effect of High-Intensity Electron Beam on the Crystal Structure, Phase Composition, and Properties of AlBi Alloys with Different Silicon Content. <i>Progress in Physics of Metals</i> , 2021 , 22, 129-157	1.6
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15	Microdiffraction analysis of structure of silumin high-velocity cellular crystallization. <i>Journal of Physics: Conference Series</i> , 2019 , 1393, 012114	0.3
14	Special Analysis Aspects of Modified Light Alloys 2021 , 53-73	
13	Structure and Properties of As-Cast Silumin and Processed by Intense Pulsed Electron Beam 2021 , 75-	90
13	Structure and Properties of As-Cast Silumin and Processed by Intense Pulsed Electron Beam 2021 , 75-8. Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. <i>Steel in Translation</i> , 2018 , 48, 352-356	90 0.4
	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. <i>Steel in</i>	
12	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. <i>Steel in Translation</i> , 2018 , 48, 352-356 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> ,	0.4
12	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. <i>Steel in Translation</i> , 2018 , 48, 352-356 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 The formation and control of porosity during laser DP780 dual-phase galvanized steels. <i>IOP</i>	0.4
12 11 10	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. <i>Steel in Translation</i> , 2018 , 48, 352-356 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 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 Effect of applied load on welding stress at different time periods. <i>MATEC Web of Conferences</i> , 2018	0.4
12 11 10	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. <i>Steel in Translation</i> , 2018 , 48, 352-356 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 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 Effect of applied load on welding stress at different time periods. <i>MATEC Web of Conferences</i> , 2018 , 224, 01069 AFM investigation of silumin structure modified by Al-Y2O3 coating using the method of electric	0.4 0.3 0.4
12 11 10 9 8	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. Steel in Translation, 2018, 48, 352-356 Physical and technical fundamentals of technology used to increase the wear resistance of working surfaces of large volume excavator buckets. IOP Conference Series: Earth and Environmental Science, 2018, 206, 012029 The formation and control of porosity during laser DP780 dual-phase galvanized steels. IOP Conference Series: Materials Science and Engineering, 2018, 411, 012085 Effect of applied load on welding stress at different time periods. MATEC Web of Conferences, 2018, 224, 01069 AFM investigation of silumin structure modified by Al-Y2O3 coating using the method of electric explosive alloying. IOP Conference Series: Materials Science and Engineering, 2018, 411, 012056 Effect of phase transition temperature and particle size on residual stresses and properties of laser	0.4 0.3 0.4 0.3

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3	Effect of Electron-Beam Processing on Structure and Phase Composition of Titanium VT1-0 Fractured in Fatigue Tests 2021 , 171-217	
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1	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