Sergey Konovalov

List of Publications by Year
in descending order

285	1,900	257450 24	414414 32
papers	citations	h-index	g-index

290	290	290	891
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanical Properties and Tribological Behavior of Magnesium Metal Matrix Composites With Micron-Sized and Nano-Sized Reinforcements. , 2022, , 26-45.		3
2	Deformation and Fracture of High Entropy AlCoCrFeNi Alloy. Russian Physics Journal, 2022, 64, 1697-1702.	0.4	0
3	Microstructure evolution of additively manufactured CoCrFeNiAl0.4 high-entropy alloy under thermo-mechanical processing. Journal of Materials Research and Technology, 2022, 16, 442-450.	5.8	9
4	Modeling and Optimization of Solidification Cracking of 4043 Aluminum Alloys Produced by Cold Metal Transfer Welding. Journal of Materials Engineering and Performance, 2022, 31, 4746-4760.	2.5	2
5	Investigation of Co-Cr-Fe-Mn-Ni Non-Equiatomic High-Entropy Alloy Fabricated by Wire Arc Additive Manufacturing. Metals, 2022, 12, 197.	2.3	14
6	Microstructure and mechanical properties of non-equiatomic Co25.4Cr15Fe37.9Mn3.5Ni16.8Si1.4 high-entropy alloy produced by wire-arc additive manufacturing. Materials Letters, 2022, 312, 131675.	2.6	14
7	Ultrafast microstructure modification by pulsed electron beam to enhance surface performance. Surface and Coatings Technology, 2022, 434, 128226.	4.8	7
8	Surface modification of sub-eutectic silumin by a pulsed electron beam. Surfaces and Interfaces, 2022, 29, 101810.	3.0	3
9	Wire arc additive manufacturing Al-5.0ÂMg alloy: Microstructures and phase composition. Materials Characterization, 2022, 187, 111875.	4.4	10
10	Texture Development in Aluminum Alloys with High Magnesium Content. Metals, 2022, 12, 723.	2.3	1
11	Surface Topography Control of TA2 Pure Titanium in Laser Shock Peening. Metals, 2022, 12, 1031.	2.3	3
12	Structure and properties of the CrMnFeCoNi high-entropy alloy irradiated with a pulsed electron beam. Journal of Materials Research and Technology, 2022, 19, 4258-4269.	5.8	10
13	Microstructural characterization and tribological behavior of surface composites fabricated on AA7050-T7451 alloy via friction stir processing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235, 351-359.	1.8	1
14	Structural Changes in the Surface of AK5M2 Alloy under the Influence of an Intense Pulsed Electron Beam. Journal of Surface Investigation, 2021, 15, 183-189.	0.5	1
15	Approach to oriented grain growth accounting during aluminum alloys recrystallization simulation. Materials Today: Proceedings, 2021, 46, 957-960.	1.8	3
16	Special Analysis Aspects of Modified Light Alloys. , 2021, , 53-73.		0
17	Structure and Properties of As-Cast Silumin and Processed by Intense Pulsed Electron Beam. , 2021, , 75-90.		0
18	Deformation behavior of high-entropy alloy system Al â€“ Co â€“ Cr â€“ Fe â€“ Ni achieved by wire-arc additive manufacturing. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 68-74.	0.3	1

#	Article	IF	Citations
19	Effect of Deposition Strategies on the Microstructure and Tensile Properties of Wire Arc Additive Manufactured Al-5Si Alloys. Journal of Materials Engineering and Performance, 2021, 30, 2136-2146.	2.5	21
20	The Effect of Wire Feeding Speed on Solidification Cracking of CMT Welding for Al-Si Alloys. Metals, 2021, 11, 267.	2.3	6
21	Effect of pulsed electron beam treatment on microstructure and functional properties of Al-5.4Si-1.3Cu alloy. Nuclear Instruments & Methods in Physics Research B, 2021, 488, 23-29.	1.4	12
22	Strengthening Mechanisms in CoCrFeNiX0.4 (Al, Nb, Ta) High Entropy Alloys Fabricated by Powder Plasma Arc Additive Manufacturing. Nanomaterials, 2021, 11, 721.	4.1	21
23	Deformation Behavior of Cu-6.5 wt.% Al Alloy Under Quasi-Static Tensile Loading. Journal of Materials Engineering and Performance, 2021, 30, 5086-5092.	2.5	1
24	Electroexplosive hafnium coating on titanium implant modified by nitrogen ions and electron beam processing. Surface and Coatings Technology, 2021, 409, 126895.	4.8	6
25	The Effect of High-Intensity Electron Beam on the Crystal Structure, Phase Composition, and Properties of Alâ€“Si Alloys with Different Silicon Content. Progress in Physics of Metals, 2021, 22, 129-157.	1.5	2
26	Investigation of the Intermetallic Compounds Fragmentation Impact on the Formation of Texture during the as Cast Structure Thermomechanical Treatment of Aluminum Alloys. Metals, 2021, 11, 507.	2.3	8
27	Evaluation of strength and microstructure of welded pipes with wall lamination. Engineering Failure Analysis, 2021, 122, 105235.	4.0	4
28	Increase of alloys functional properties by electronic beam processing. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 129-134.	0.3	0
29	Pulsed-Electron-Beam Modification of The Surface of Alâ€“Mg Alloy Samples Obtained by the Methods of Additive Technologies: Structure and Properties. Journal of Surface Investigation, 2021, 15, 449-452.	0.5	0
30	Influence of Silicon and Manganese on the Mechanical Properties of Additive Manufactured Cuâ€“Al Alloys by Cold Metal Transfer Welding. Metallography, Microstructure, and Analysis, 2021, 10, 314-320.	1.0	0
31	Influence of Mg Content on Texture Development during Hot Plain-Strain Deformation of Aluminum Alloys. Metals, 2021, 11, 865.	2.3	8
32	Structure, Phase Composition and Properties of Rail Running Surface at Extremely Long Operation Time. Russian Physics Journal, 2021, 64, 82-88.	0.4	0
33	Influence of Silicon and Magnesium on the Mechanical Properties of Additive Manufactured Cu-Al Alloy. 3D Printing and Additive Manufacturing, 2021, 8, 331-339.	2.9	4
34	Investigation of Microstructure and Fracture Mechanism of Al-5.0Mg Alloys Fabricated by Wire Arc Additive Manufacturing. Journal of Materials Engineering and Performance, 2021, 30, 7406-7416.	2.5	9
35	High-entropy alloys: Structure, mechanical properties, deformation mechanisms and application. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 249-258.	0.3	11
36	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. Philosophical Magazine Letters, 2021, 101, 353-359.	1.2	14

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37	Ð˜Ð¡Ð›Ð•Ð”ÐžÐ’ÐÐ˜Ð• Ð¡Ð¢ÐÐ£ÐšÐ¢Ð£ÐÐ« Ð˜ Ð¡Ð’ÐžÐ™Ð¡Ð¢Ð’ Ð’Ð«Ð¡ÐžÐšÐžÐÐÐ¢Ð ÐžÐ’ÐÐ›Ð¬ÐÐ«Ð• AlC		
38	Subsurface Corrosion as the Main Degradation Process of 17GS Pipeline Steel after 50 Years of Operation. Journal of Surface Investigation, 2021, 15, 872-876.	0.5	1
39	Research on the structure of Al2.1Co0.3Cr0.5FeNi2.1 high-entropy alloy at submicro- and nano-scale levels. Materials Letters, 2021, 294, 129717.	2.6	20
40	Effect of Pulsed-Electron-Beam Irradiation on the Surface Structure of a Non-Equiatomic High-Entropy Alloy of the Alâ€“Coâ€“Crâ€“Feâ€“Ni System. Journal of Surface Investigation, 2021, 15, 846-850.	0.5	1
41	Modification of high-entropy alloy AlCoCrFeNi by electron beam treatment. Journal of Materials Research and Technology, 2021, 13, 787-797.	5.8	14
42	Effect of electron beam energy densities on the surface morphology and tensile property of additively manufactured Al-Mg alloy. Nuclear Instruments & Methods in Physics Research B, 2021, 498, 15-22.	1.4	14
43	Evolution of Structure in AlCoCrFeNi High-Entropy Alloy Irradiated by a Pulsed Electron Beam. Metals, 2021, 11, 1228.	2.3	18
44	Effect of Melt Overheating on Structure and Mechanical Properties of Al-Mg-Si Cast Alloy. Metals, 2021, 11, 1353.	2.3	6
45	Replacement of Ta with equi-atomic radius Nb atoms in CoCrFeNiTa high entropy alloys: Effect on microstructure and mechanical properties. Materials Letters, 2021, 297, 129966.	2.6	8
46	The mechanism of formation of surface micro- and nanostructures in the AlCoCrFeNi high-entropy alloy during electron-beam treatment. Letters on Materials, 2021, 11, 309-314.	0.7	3
47	The Effects of In-Process Cooling during Friction Stir Welding of 7475 Aluminium Alloy. Sains Malaysiana, 2021, 50, 2743-2754.	0.5	3
48	Generation of increased mechanical properties of Cantor highÂentropy alloy. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 599-605.	0.3	8
49	Modifying of Structure-Phase States and Properties of Metals by Concentrated Energy Flows. , 2021, , 1-52.		0
50	Phase composition prediction of Al-Co-Cr-Fe-Ni high entropy alloy system based on thermodynamic and electronic properties calculations. Materials Today: Proceedings, 2021, 46, 961-965.	1.8	9
51	Research on Cu-6.6%Al-3.2%Si Alloy by Dual Wire Arc Additive Manufacturing. Journal of Materials Engineering and Performance, 2021, 30, 1694-1702.	2.5	15
52	Microstructure and Mechanical Properties of Cu-6.5%Al Alloy Deposited by Wire Arc Additive Manufacturing. Metallography, Microstructure, and Analysis, 2021, 10, 634-641.	1.0	4
53	Influence of the Small Sc and Zr Additions on the As-Cast Microstructure of Alâ€“Mgâ€“Si Alloys with Excess Silicon. Metals, 2021, 11, 1797.	2.3	3
54	Application of high-entropy alloys. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 747-754.	0.3	1

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55	Computer Simulation of the Process of Crack Propagation in a Brittle Porous Material. Journal of Surface Investigation, 2021, 15, 1212-1216.	0.5	1
56	The Casting Rate Impact on the Microstructure in Alâ€“Mgâ€“Si Alloy with Silicon Excess and Small Zr, Sc Additives. Metals, 2021, 11, 2056.	2.3	1
57	Structural phase variations in high-entropy alloy at irradiation by pulsed electron beam. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 846-854.	0.3	0
58	Microstructural evolution and mechanical properties of deep cryogenic treated Cuâ€“Alâ€“Si alloy fabricated by Cold Metal Transfer (CMT) process. Materials Characterization, 2020, 159, 110011.	4.4	42
59	Wave instability on the interface coating/substrate material under heterogeneous plasma flows. Journal of Materials Research and Technology, 2020, 9, 539-550.	5.8	11
60	Structure and phase states modification of AL-11SI-2CU alloy processed by ion-plasma jet and pulsed electron beam. Surface and Coatings Technology, 2020, 383, 125246.	4.8	15
61	Fatigue-Induced Evolution of AISI 310S Steel Microstructure after Electron Beam Treatment. Materials, 2020, 13, 4567.	2.9	14
62	Mechanism of Silicon Plate Decay in Aluminum Matrix under Electron Beam Effect. Key Engineering Materials, 2020, 839, 32-36.	0.4	0
63	The Role of Lattice Curvature in Structural Degradation of the Metal Surface Layer of a Rail under Long-term Operation. Doklady Physics, 2020, 65, 376-378.	0.7	6
64	Effect of La Addition on Solidification Behavior and Phase Composition of Cast Al-Mg-Si Alloy. Metals, 2020, 10, 1673.	2.3	7
65	Formation Mechanism of Micro- and Nanocrystalline Surface Layers in Titanium and Aluminum Alloys in Electron Beam Irradiation. Metals, 2020, 10, 1399.	2.3	16
66	Layer-by-Layer Analysis of the Crâ€“Niâ€“Ti Coating Substructure Obtained via Selective Laser Melting. Journal of Surface Investigation, 2020, 14, 1022-1028.	0.5	1
67	Modification of Al-10Si-2Cu alloy surface by intensive pulsed electron beam. Journal of Materials Research and Technology, 2020, 9, 5591-5598.	5.8	13
68	Effect of Electron-Beam Treatment on the Structure of Commercial-Purity Titanium Subjected to Fatigue Failure. Russian Metallurgy (Metally), 2020, 2020, 401-407.	0.5	0
69	Structural phase states and properties of rails after long-term operation. Materials Letters, 2020, 268, 127499.	2.6	17
70	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.	5.8	35
71	Friction and Wear Study of Fe-Cu-C-CaF₂ Self-lubricating Composite at High Speed and High Temperature. IOP Conference Series: Materials Science and Engineering, 2020, 834, 012010.	0.6	5
72	Defect formation during dissimilar aluminium friction stir welded T-joints. Mechanics and Industry, 2020, 21, 205.	1.3	5

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73	Morphology and development dynamics of rolled steel products manufacturing defects during long-term operation in main gas pipelines. Engineering Failure Analysis, 2020, 109, 104359.	4.0	11
74	Role of Matrix Microstructure in Governing the Mechanical Behavior and Corrosion Response of Two Magnesium Alloy Metal Matrix Composites. Jom, 2020, 72, 2882-2891.	1.9	2
75	Prospects for the Application of Surface Treatment of Alloys by Electron Beams in State-of-the-Art Technologies. Progress in Physics of Metals, 2020, 21, 345-362.	1.5	14
76	Effect of Electron-Plasma Treatment on the Microstructure of Al-11wt%Si Alloy. Materials Research, 2020, 23, .	1.3	3
77	Simulation of phase transformations in high carbon pearlite steel at various cooling rates. CIS Iron and Steel Review, 2020, , 55-60.	0.4	0
78	Combined Kelvinâ€“Helmholtz and Marangoni instability and its role in formation of nanostructures under electron-beam irradiation. AIP Conference Proceedings, 2020, , .	0.4	0
79	Express quality analysis of metal structure based on thickness data. AIP Conference Proceedings, 2020, , .	0.4	1
80	The influence of electrical potential on the mechanical properties of commercially pure titanium. Letters on Materials, 2020, 10, 512-516.	0.7	0
81	Formation of Gradient Structureâ€“Phase States in the Surface Layers of 100-m Differentially Quenched Rails. Russian Metallurgy (Metally), 2019, 2019, 710-715.	0.5	0
82	Increase in Wear Resistance of the Surface Layers of AK10M2N Silumin at Electron-Beam Treatment. Inorganic Materials: Applied Research, 2019, 10, 622-628.	0.5	2
83	Specific Features of Microstructural Evolution During Hot Rolling of the As-Cast Magnesium-Rich Aluminum Alloys with Added Transition Metal Elements. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5782-5799.	2.2	9
84	Improvement of copper alloy properties in electro-explosive spraying of ZnO-Ag coatings resistant to electrical erosion. Journal of Materials Research and Technology, 2019, 8, 5515-5523.	5.8	25
85	Effect of electron-plasma alloying on structure and mechanical properties of Al-Si alloy. Applied Surface Science, 2019, 498, 143767.	6.1	29
86	Influence of constant magnetic field on plastic characteristics of paramagnetic metals. Materials Research Express, 2019, 6, 096523.	1.6	7
87	Investigation of subgrain and fine intermetallic participles size impact on grain boundary mobility in aluminum alloys with transitional metal addition. Materials Today: Proceedings, 2019, 19, 2183-2188.	1.8	6
88	Effect of the Density of Electron Beam Energy on the Structure and Mechanical Characteristics of Surface Layers of Hypoeutectic Silumin. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 1282-1288.	0.6	1
89	Formation and Evolution of Structure and Phase Composition of Hypoeutectoid Silumin on Electron Beam Processing. Journal of Surface Investigation, 2019, 13, 809-813.	0.5	3
90	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. Metal Science and Heat Treatment, 2019, 61, 300-304.	0.6	0

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91	Microstructure and micro-hardness behavior of Tiâ€“Y2O3 â€“Alâ€“Si composite coatings prepared in electron-plasma alloying. Materials Characterization, 2019, 158, 109934.	4.4	4
92	Disintegration mechanism of second phase particles under electron beams. Materials Research Express, 2019, 6, 106556.	1.6	2
93	Structural-Phase State and the Properties of Silumin after Electron-Beam Surface Treatment. Russian Metallurgy (Metally), 2019, 2019, 398-402.	0.5	4
94	Microstructure and mechanical properties of doped and electron-beam treated surface of hypereutectic Al-11.1%Si alloy. Journal of Materials Research and Technology, 2019, 8, 3835-3842.	5.8	15
95	In-situ wire-feed additive manufacturing of Cu-Al alloy by addition of silicon. Applied Surface Science, 2019, 487, 1366-1375.	6.1	60
96	The microstructure and properties of nanostructured Cr-Al alloying layer fabricated by high-current pulsed electron beam. Vacuum, 2019, 167, 263-270.	3.5	54
97	Evolution of structure-phase states of hypoeutectic silumin irradiated by intensive pulse electron beams. Materials Research Express, 2019, 6, 076574.	1.6	2
98	Study of recrystallization kinetics in AA5182 aluminium alloy after deformation of the as-cast structure. Materials Research Express, 2019, 6, 066552.	1.6	7
99	Structural and phase changes under electropulse treatment of fatigue-loaded titanium alloy VT1-0. Journal of Materials Research and Technology, 2019, 8, 1300-1307.	5.8	36
100	Thermocapillary model of formation of nanostructures on the surface irradiated by low-energy high-current electron beams. Materials Research Express, 2019, 6, 076551.	1.6	3
101	Change in Plasticity of Copper under Weak Electrical Potentials. IOP Conference Series: Materials Science and Engineering, 2019, 472, 012011.	0.6	0
102	Study of the recrystallization behaviour of the aluminium 1565ch alloy during hot rolling of the as cast structures. Materials Research Express, 2019, 6, 076524.	1.6	3
103	Stress and Temperature Distribution Simulation For Arc Weld-based Rapid Prototyping Of Titanium Alloy Tc4. Materials Express, 2019, 9, 99-111.	0.5	2
104	The fabrication of NiTi shape memory alloy by selective laser melting: a review. Rapid Prototyping Journal, 2019, 25, 1421-1432.	3.2	55
105	Study of the specific features, characterising homogenisation of the promising Al-Mg system aluminium alloys with transition elements addition. International Journal of Nanotechnology, 2019, 16, 602.	0.2	0
106	Wear Resistance of the Surface Layers in Silumin after Electron-Beam Treatment. Russian Metallurgy (Metally), 2019, 2019, 981-985.	0.5	1
107	Nanostructure formation of hypoeutectic silumin by electronion-plasma methods. Journal of Physics: Conference Series, 2019, 1393, 012091.	0.4	2
108	Microdiffraction analysis of structure of siluminâ€™s high-velocity cellular crystallization. Journal of Physics: Conference Series, 2019, 1393, 012114.	0.4	0

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109	The surface modification of aluminum by mechanical milling of Pb coating and high current pulsed electron beam irradiation. Materials Research Express, 2019, 6, 1265g3.	1.6	4
110	Formation of Structure and Properties of Silumin on Electron-Beam Processing. Journal of Surface Investigation, 2019, 13, 1040-1044.	0.5	1
111	Location dependence of microstructure and mechanical properties of Cuâ€“Al alloy fabricated by dual wire CMT. Materials Research Express, 2019, 6, 126567.	1.6	7
112	Combined Rayleighâ€“Taylorâ€“Kelvinâ€“Helmholtz instability and its role in the formation of the surface relief of the coating/substrate. AIP Conference Proceedings, 2019, , .	0.4	2
113	Model of nanostructure formation in Alâ€“Si alloy at electron beam treatment. Materials Research Express, 2019, 6, 026540.	1.6	17
114	Microstructure and Properties of Hypoeutectic Silumin Treated by High-Current Pulsed Electron Beams. Progress in Physics of Metals, 2019, 20, 447-484.	1.5	8
115	Investigating and Understanding the Mechanical and Tribological Properties of a Magnesium Hybrid Metalâ€“Ceramic Nanocomposite. Minerals, Metals and Materials Series, 2019, , 85-94.	0.4	0
116	Morphology analysis of production defect of gas-main pipeline metal. Proizvodstvo Prokata, 2019, , 33-38.	0.0	0
117	Contributions of Various Mechanisms to the Hardening of Differentially Quenched Rails during Long-Term Operation. Russian Metallurgy (Metally), 2018, 2018, 985-989.	0.5	4
118	Modeling of nanostructure formation in silumin during electron beam treatment. AIP Conference Proceedings, 2018, , .	0.4	0
119	Gradient structure formation in the surface layer of AK10M2N silumin by electron beam treatment. AIP Conference Proceedings, 2018, , .	0.4	0
120	Effect of withdrawal rate and heat treatment on Ni-based superalloy microstructure. AIP Conference Proceedings, 2018, , .	0.4	0
121	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. Steel in Translation, 2018, 48, 352-356.	0.3	0
122	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.	0.3	0
123	The formation and control of porosity during laser DP780 dual-phase galvanized steels. IOP Conference Series: Materials Science and Engineering, 2018, 411, 012085.	0.6	0
124	Effect of applied load on welding stress at different time periods. MATEC Web of Conferences, 2018, 224, 01069.	0.2	0
125	Cold Metal Transfer (CMT) Based Wire and Arc Additive Manufacture (WAAM) System. Journal of Surface Investigation, 2018, 12, 1278-1284.	0.5	74
126	Evolution of the Structure and Properties of AK10M2N Silumin under Irradiation with a High-Intensity Pulsed Electron Beam. Inorganic Materials, 2018, 54, 1308-1314.	0.8	3

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127	The structure of the surface layer in titanium VT1-0 after high-cycle fatigue tests. IOP Conference Series: Materials Science and Engineering, 2018, 447, 012075.	0.6	1
128	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.	0.6	0
129	Structure-property correlation in magnesium nanocomposites synthesized by disintegrated melt deposition technique. Materials Today: Proceedings, 2018, 5, 16280-16285.	1.8	6
130	Tribological characteristics of magnesium nanocomposites. Materials Today: Proceedings, 2018, 5, 16575-16579.	1.8	2
131	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. Journal of Physics: Conference Series, 2018, 1115, 032021.	0.4	4
132	Structure-phase state evolution of 100-m differentially hardened rails in long-term usage. IOP Conference Series: Materials Science and Engineering, 2018, 411, 012089.	0.6	0
133	Influence of Local Inhomogeneity of Thermomechanical Treatment Conditions on Microstructure Evolution in Aluminum Alloys. Journal of Materials Engineering and Performance, 2018, 27, 6780-6799.	2.5	16
134	Corrosion of Materials after Advanced Surface Processing, Joining, and Welding. International Journal of Corrosion, 2018, 2018, 1-3.	1.1	12
135	Gradient Structure Generated in Hardox 450 Steel with Built-Up Layer. Inorganic Materials: Applied Research, 2018, 9, 427-432.	0.5	1
136	Gradient Structure of the Layer Applied to Hardox 450 Steel by Feâ€“Câ€“Crâ€“Nbâ€“W Powder Wire after Electron-Beam Treatment. Steel in Translation, 2018, 48, 229-232.	0.3	0
137	Multilayer structure of Al-Si alloy after electro-explosion alloying with yttrium oxide powder. Materials Research Express, 2018, 5, 116520.	1.6	6
138	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. International Journal of Corrosion, 2018, 2018, 1-10.	1.1	6
139	Modeling of the initial stages of the formation of heterogeneous plasma flows in the electric explosion of conductors. Current Applied Physics, 2018, 18, 1101-1107.	2.4	3
140	Transformation of Carbides in Prolonged Rail Operation. Steel in Translation, 2018, 48, 97-103.	0.3	0
141	Structure and properties changes of Al-Si alloy treated by pulsed electron beam. Materials Letters, 2018, 229, 377-380.	2.6	41
142	Modification of Structure and Surface Properties of Hypoeutectic Silumin by Intense Pulse Electron Beams. Progress in Physics of Metals, 2018, 19, 195-222.	1.5	31
143	TRANSFORMATION OF CARBIDĐ• PHASE IN RAILS AT LONG-TERM OPERATION. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2018, 61, 140-148.	0.3	3
144	REDISTRIBUTION OF CARBON ATOMS IN DIFFERENTIALLY CHARGED RAILS FOR LONG-TERM OPERATION. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2018, 61, 454-459.	0.3	3

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145	Research of heat resistance of the multilayer coating after electro-spark alloying of C45 steel Cr-Ni alloys. Letters on Materials, 2018, 8, 140-145.	0.7	6
146	Evolution of Structure and Properties of Differentially Quenched Rails During Long-Term Operation. Metallofizika I Noveishie Tekhnologii, 2018, 39, 1599-1646.	0.5	2
147	GRADIENT STRUCTURE OF THE LAYER FACED ON HARDOX 450 STEEL WITH Fe â€“Ð¡â€“Crâ€“Nbâ€“W POWDER WIRE AND MODIFIED BY ELECTRON BEAM PROCESSING. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2018, 61, 313-318.	0.3	0
148	Modeling hydrodynamic flows in plasma fluxes when depositing metal layer on the surface of catalyst converters. IOP Conference Series: Earth and Environmental Science, 2017, 50, 012050.	0.3	0
149	Structure and properties of a low-carbon steel surface modified by electric arc surfacing. Journal of Surface Investigation, 2017, 11, 1050-1055.	0.5	0
150	Structural phase states and properties of the layer surfaced on low-carbon steel with Feâ€™Câ€™Crâ€™Nbâ€™W powder-core wire followed by electron-beam processing. Journal of Surface Investigation, 2017, 11, 933-939.	0.5	1
151	Mathematical model of mass transfer at electron beam treatment. AIP Conference Proceedings, 2017, , .	0.4	0
152	Defect substructure change in 100-m differentially hardened rails in long-term operation. Materials Letters, 2017, 209, 224-227.	2.6	10
153	Nanohardness of wear-resistant surfaces after electron-beam treatment. Steel in Translation, 2017, 47, 245-249.	0.3	1
154	Study on mechanical properties and structure of silumin after its surface modification with yttrium oxide. AIP Conference Proceedings, 2017, , .	0.4	0
155	Stress-strain state of gradient materials under inclined contact load. AIP Conference Proceedings, 2017, , .	0.4	0
156	Formation and evolution of the structure and phase composition of stainless steel during electron-beam treatment and multiple-cycle fatigue. Inorganic Materials: Applied Research, 2017, 8, 521-527.	0.5	0
157	Structure and properties of strengthening layer on Hardox 450 steel. Materials Science and Technology, 2017, 33, 2040-2045.	1.6	8
158	Phase composition and defect substructure of double surfacing, formed with Vâ€“Crâ€“Nbâ€“W powder wire on steel. Inorganic Materials: Applied Research, 2017, 8, 313-317.	0.5	0
159	Wear model of an excavator bucket. AIP Conference Proceedings, 2017, , .	0.4	1
160	Dimensional changes of Al-10Mg alloy grains after quenching, deformation, and reheating. AIP Conference Proceedings, 2017, , .	0.4	0
161	Structure and properties of Hardox 450 steel with arc welded coatings. AIP Conference Proceedings, 2017, , .	0.4	1
162	Electron-beam modification of a surface layer deposited on low-carbon steel by means of arc spraying. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1353-1359.	0.6	3

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163	Variations in defect substructure and fracture surface of commercially pure aluminum under creep in weak magnetic field. Chinese Physics B, 2017, 26, 126203.	1.4	5
164	Additive Manufacturing Based on Welding Arc: A low-Cost Method. Journal of Surface Investigation, 2017, 11, 1317-1328.	0.5	49
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