Victor Gromov

List of Publications by Year in descending order

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407	1,829	361413	526287
papers	citations	20 h-index	27 g-index

413	413	413	602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fine structure formation in rails under ultra long-term operation. Materials Letters, 2022, 309, 131378.	2.6	6
2	Physical nature of rail surface hardening during long-term operation. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2022, 64, 886-894.	0.3	0
3	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
4	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
5	Structure and Properties of Ag-Ni-N Coating Formed on Copper by Electroexplosive Spraying Combined with Pulsed Electron Beam Irradiation and Nitriding. Physical Mesomechanics, 2022, 25, 18-25.	1.9	3
6	Elemental and phase composition of electric arc coating formed with a flux-cored wire of Feâ€‰â€“â€‰Câ€‰â€“â€‰Siâ€‰â€“â€‰Mnâ€‰â€“â€‰Ðiâ€‰â€“â€‰Niâ€‰â€“â€‰Mo system. Izvestiya Vysshikh Uchebn 120-126.	0.3	0
7	Transformation of structural-phase states in rail head at extremely long-term operation. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2022, 65, 209-215.	0.3	0
8	Effect of carbon-fluorine additive to flux on the structure, defective substructure and fracture surface of electric arc surfacing of low-carbon wire. Journal of Materials Research and Technology, 2022, 18, 2104-2111.	5.8	1
9	Gradients of Structure, Phase Composition, and Dislocation Substructure of Rails under the Ultra Long-Term Operation. Izvestiya of Altai State University, 2022, , 44-50.	0.1	2
10	Physical nature of rails strengthening in extremely long-term operation. AIP Conference Proceedings, 2022, , .	0.4	0
11	Structure, Dislocation Hardening, and Fracture Surface of an Arc Sprayed Coating Made of a Low-Carbon Steel. Russian Metallurgy (Metally), 2022, 2022, 239-244.	0.5	1
12	Structure and Properties of Electroerosion-Resistant WNâ€“WCâ€“W2C0.84â€“Ag Coatings Fabricated by a Combined Method. Russian Metallurgy (Metally), 2022, 2022, 316-319.	0.5	1
13	Structural-Phase State and Fracture of a Low-Carbon Steel Coating. Russian Metallurgy (Metally), 2022, 2022, 320-324.	0.5	0
14	Effect of high-current pulsed electron beam treatment on defect substructure of the high-entropy alloy of Co â€“ Cr â€“ Fe â€“ Mn â€“ Ni system. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2022, 65, 254-260.	0.3	0
15	Structure and Surface Properties of Steel 45 after Electroexplosive Boron-Copper Plating and Electron-Beam Processing. Journal of Surface Investigation, 2022, 16, 285-289.	0.5	0
16	Structureâ€“Phase Transformations in the Modified Surface of Al-20%Si Alloy Subjected to Two-Stage Treatment. Lubricants, 2022, 10, 133.	2.9	0
17	The comparative analysis of change in the structure and properties of Alâ€“Si system alloys exposed to electroexplosive alloying. , 2022, , 113-120.		0
18	Fractography of fracture surface of CrMnFeCoNi high-entropy alloy after electron-beam processing. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2022, 65, 427-433.	0.3	2

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19	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
20	Modifying of Titanium VT6 Alloy Surface by Electrical Explosion Alloying. , 2021, , 123-136.		0
21	Fractography of Silumin Surface Fractured in High-Cycle Fatigue Tests. , 2021, , 91-108.		0
22	Variation in the yield point of differentially quenched rails at severe plastic deformation. Letters on Materials, 2021, 11, 100-103.	0.7	0
23	Special Analysis Aspects of Modified Light Alloys. , 2021, , 53-73.		0
24	Structure and Properties of As-Cast Silumin and Processed by Intense Pulsed Electron Beam. , 2021, , 75-90.		0
25	Surface Boriding and Titanization Stainless Steel by Integrated Processes. Journal of Surface Investigation, 2021, 15, 200-209.	0.5	3
26	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
27	Evolution of the Fine Structure and Properties of Rail Metal during Long-Term Operation. Physical Mesomechanics, 2021, 24, 202-210.	1.9	2
28	Deformation strengthening mechanisms of rails in extremely long-term operation. Journal of Materials Research and Technology, 2021, 11, 710-718.	5.8	8
29	Physical Nature of Strengthening Mechanisms During Extremely Long-Term Operation of Rails. Izvestiya of Altai State University, 2021, , 33-39.	0.1	2
30	Electroexplosive hafnium coating on titanium implant modified by nitrogen ions and electron beam processing. Surface and Coatings Technology, 2021, 409, 126895.	4.8	6
31	Increase of alloys functional properties by electronic beam processing. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 129-134.	0.3	0
32	Structure of Differentially Hardened Rails after Severe Plastic Deformation. Russian Metallurgy (Metally), 2021, 2021, 426-429.	0.5	3
33	Structure, Phase Composition and Properties of Rail Running Surface at Extremely Long Operation Time. Russian Physics Journal, 2021, 64, 82-88.	0.4	0
34	Đ¡Đ¢ĐĐ£ĐšĐ¢Đ£ĐĐ•Đ˜ Đ¡Đ'ĐžĐ™Đ¡Đ¢Đ'Đ•ĐŸĐžĐšĐĐ«Đ¢Đ˜Đ¯ Ni-C-Ag-N, Đ¡ĐĐžĐĐœĐ˜ĐĐžĐ'ĐĐĐĐžĐ"Đž ĐĐ•ĐœĐ•Đ"Đ˜ŒĐšĐžĐœĐ		
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 ÐŸÐ›ÐÐ—ÐœÐ•ÐÐÐžÐ“Ðž Ð¡Ð›Ð•Ð—Ð		
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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	Modification of high-entropy alloy AlCoCrFeNi by electron beam treatment. Journal of Materials Research and Technology, 2021, 13, 787-797.	5.8	14
41	Model of the object of temperature control by electrostimulating action parameters. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 435-441.	0.3	0
42	Phase Composition, Structure, and Properties of an Electroexplosive Coating on a WCâ€“Agâ€“N System after Electron-Beam Processing and Nitriding. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 810-817.	0.6	0
43	Evolution of Structure in AlCoCrFeNi High-Entropy Alloy Irradiated by a Pulsed Electron Beam. Metals, 2021, 11, 1228.	2.3	18
44	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
45	Generation of increased mechanical properties of Cantor highÂentropy alloy. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 599-605.	0.3	8
46	Modifying of Structure-Phase States and Properties of Metals by Concentrated Energy Flows. , 2021, , 1-52.		0
47	Model of Temperature Control by Electrically Stimulating Action Parameters. Steel in Translation, 2021, 51, 374-378.	0.3	0
48	Microhardness and Structure Distribution over the Layer of a High-Hardness Heat-Resitant Alloy Formed by Multi-Layer Plasma Surfacing in a Nitrogen Medium. Russian Physics Journal, 2021, 64, 1254-1260.	0.4	0
49	Application of high-entropy alloys. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 747-754.	0.3	1
50	Strengthening Mechanisms of Rail Metal during Continuous Operation. Inorganic Materials: Applied Research, 2021, 12, 1540-1546.	0.5	0
51	Application of High-Entropy Alloys. Steel in Translation, 2021, 51, 700-704.	0.3	1
52	Structural Phase Variations in High-Entropy Alloy upon Pulsed Electron Beam Irradiation. Steel in Translation, 2021, 51, 788-794.	0.3	1
53	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
54	Physical Nature of Rail Surface Hardening during Long-Term Operation. Steel in Translation, 2021, 51, 859-865.	0.3	0

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55	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
56	Fatigue-Induced Evolution of AISI 310S Steel Microstructure after Electron Beam Treatment. Materials, 2020, 13, 4567.	2.9	14
57	Liquid-Phase Boriding of High-Chromium Steel. Steel in Translation, 2020, 50, 452-459.	0.3	4
58	Mechanism of Silicon Plate Decay in Aluminum Matrix under Electron Beam Effect. Key Engineering Materials, 2020, 839, 32-36.	0.4	0
59	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
60	Gradients in rails at long-term operation. IOP Conference Series: Materials Science and Engineering, 2020, 971, 052044.	0.6	0
61	Electromechanical installation based on a powerful current pulse generator for materials treatment. IOP Conference Series: Materials Science and Engineering, 2020, 866, 012051.	0.6	0
62	Boron electroexplosive alloying of austenite steel. IOP Conference Series: Materials Science and Engineering, 2020, 866, 012052.	0.6	0
63	Structure and properties of differentially hardened 100-m rails after long-term operation. IOP Conference Series: Materials Science and Engineering, 2020, 866, 012053.	0.6	0
64	Formation Mechanism of Micro- and Nanocrystalline Surface Layers in Titanium and Aluminum Alloys in Electron Beam Irradiation. Metals, 2020, 10, 1399.	2.3	16
65	Structure and microhardness of bioinert coatings of Ti-Ta-N system. IOP Conference Series: Materials Science and Engineering, 2020, 866, 012050.	0.6	0
66	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
67	Changes in surface structure and mechanical characteristics of Alâ€“5Âwt%Si alloy after irradiation by electron beam. Materials Letters, 2020, 275, 128105.	2.6	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	The Structural Formation in Differentially-Hardened 100-Meter-Long Rails during Long-Term Operation. Steel in Translation, 2020, 50, 77-83.	0.3	3
71	Bioinert coatings of Ti-Ta-N for medical implants obtained by electric explosion spraying and subsequent electron-ion-plasma modification. Materials Research Express, 2020, 7, 125004.	1.6	2
72	Formation of Fine Surface of Long Rails on Differentiated Hardening. Journal of Surface Investigation, 2020, 14, 1187-1190.	0.5	1

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73	Effect of Electron-Plasma Treatment on the Microstructure of Al-11wt%Si Alloy. Materials Research, 2020, 23, .	1.3	3
74	Development of the structure of differentially hardened 100 m rails during their long operation. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2020, 63, 108-115.	0.3	7
75	Structure and properties of rails after extremely long-term operation. Voprosy Materialovedeniya, 2020, , 30-39.	0.1	3
76	Formation of Gradient Structure in Rails at Long-Term Operation. Materials Research, 2020, 23, .	1.3	1
77	High power current pulse generator based on reversible thyristor converter. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2020, 62, 964-971.	0.3	2
78	Liquid-phase boriding of high-chromium steel. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2020, 63, 539-547.	0.3	0
79	Model of nanostructural layers formation at long-term operation of rails. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2020, 63, 699-706.	0.3	1
80	Hardening mechanisms for rails metal during long-term operation. Voprosy Materialovedeniya, 2020, , 17-28.	0.1	0
81	Model of Nanostructural Layer Formation during Long-Term Operation of Rails. Steel in Translation, 2020, 50, 665-671.	0.3	0
82	Structure and Properties of Electro-Explosive TiCâ€“Niâ€“Mo Coatings of Die Steel after Electron-Beam Treatment. Inorganic Materials: Applied Research, 2019, 10, 606-615.	0.5	1
83	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
84	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
85	Modification of surface layer of hypoeutectic silumin by electroexplosion alloying followed by electron beam processing. Materials Letters, 2019, 253, 55-58.	2.6	11
86	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
87	Effect of electron-plasma alloying on structure and mechanical properties of Al-Si alloy. Applied Surface Science, 2019, 498, 143767.	6.1	29
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	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

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91	Disintegration mechanism of second phase particles under electron beams. Materials Research Express, 2019, 6, 106556.	1.6	2
92	Structural-Phase State and the Properties of Silumin after Electron-Beam Surface Treatment. Russian Metallurgy (Metally), 2019, 2019, 398-402.	0.5	4
93	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
94	Titanium-zirconium coatings formed on the titanium implant surface by the electroexplosive method. Materials Letters, 2019, 242, 79-82.	2.6	12
95	Effect of electron-beam processing on structure of electroexplosive electroerosion resistant coatings of CuO-Ag system. Materials Research Express, 2019, 6, 085077.	1.6	6
96	Evolution of structure-phase states of hypoeutectic silumin irradiated by intensive pulse electron beams. Materials Research Express, 2019, 6, 076574.	1.6	2
97	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
98	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
99	Structure and electrical erosion resistance of an electro-explosive coating of the CuOâ€“Ag system. Materials Research Express, 2019, 6, 055042.	1.6	11
100	Nanostructurisation of hypoeutectic silumin by electroexplosion alloying and subsequent electron beam processing. International Journal of Nanotechnology, 2019, 16, 619.	0.2	2
101	Phase Composition, Structure, and Wear Resistance of Electric-Explosive CuOâ€“Ag System Coatings after Electron Beam Processing. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 1270-1274.	0.6	3
102	Wear Resistance of the Surface Layers in Silumin after Electron-Beam Treatment. Russian Metallurgy (Metally), 2019, 2019, 981-985.	0.5	1
103	Structural Phase State of Surface Alloyed Y2O3 Silumin After Electron beam Processing. Journal of Surface Investigation, 2019, 13, 1343-1349.	0.5	2
104	Structure and properties of the electromagnetic starterâ€™s contacts with the electro-explosive CuO-Ag coating. Journal of Physics: Conference Series, 2019, 1347, 012123.	0.4	0
105	Nanostructure formation of hypoeutectic silumin by electronion-plasma methods. Journal of Physics: Conference Series, 2019, 1393, 012091.	0.4	2
106	Microdiffraction analysis of structure of siluminâ€™s high-velocity cellular crystallization. Journal of Physics: Conference Series, 2019, 1393, 012114.	0.4	0
107	High-Power Current-Pulse Generator Based on a Reverse Thyristor Converter. Steel in Translation, 2019, 49, 848-853.	0.3	1
108	Effect of Electrolytic-Plasma Nitrocarburizing on the Structural and Phase State of Ferrite-Pearlitic Steels. Steel in Translation, 2019, 49, 671-677.	0.3	3

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109	Formation of Structure and Properties of Silumin on Electron-Beam Processing. Journal of Surface Investigation, 2019, 13, 1040-1044.	0.5	1
110	Structure and Electroerosion Resistance of the Agâ€“CuO Coating Prepared by Electroexplosive Sputtering on Copper Electrical Contacts. Russian Metallurgy (Metally), 2019, 2019, 1036-1039.	0.5	1
111	Effect of electron beam processing on structure of electroexplosion coating of ZnO-Ag system. IOP Conference Series: Materials Science and Engineering, 2019, 681, 012036.	0.6	0
112	The Structure and Properties of a Weld-Deposited Layer onto Steel Hardox 450 Using a Boron-Containing Wire. Steel in Translation, 2019, 49, 510-516.	0.3	0
113	Analysis of changes in structure and microhardness of Alâ€“11Siâ€“2Cu alloy after complex treatment. AIP Conference Proceedings, 2019, , .	0.4	0
114	Model of nanostructure formation in Alâ€“Si alloy at electron beam treatment. Materials Research Express, 2019, 6, 026540.	1.6	17
115	Structure and properties of layer, surfaced on HARDOX 450 steel by boron containing wire. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2019, 62, 613-620.	0.3	0
116	INFLUENCE OF ELECTROLYTIC PLASMA CARBONITRIDING ON STRUCTURAL PHASE STATE OF FERRITIC-PEARLITIC STEELS. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2019, 62, 782-789.	0.3	1
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	Gradient structure formation in the surface layer of AK10M2N silumin by electron beam treatment. AIP Conference Proceedings, 2018, , .	0.4	0
119	Structure of SnO₂-Ag coating formed on copper by electroexplosion method. Journal of Physics: Conference Series, 2018, 1115, 032079.	0.4	0
120	Structure of SnO2-Ag coating formed on copper by electroexplosion. IOP Conference Series: Materials Science and Engineering, 2018, 447, 012077.	0.6	0
121	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. Steel in Translation, 2018, 48, 352-356.	0.3	0
122	Electroexplosive electrical erosion resistant coatings of the Ag-W system used for electrical contacts of power mine equipment. IOP Conference Series: Earth and Environmental Science, 2018, 206, 012030.	0.3	0
123	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
124	Automatic Control of Electrostimulated Drawing. Steel in Translation, 2018, 48, 495-500.	0.3	1
125	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
126	A study on changes in the properties of silumin surface layers modified by yttrium oxide. IOP Conference Series: Materials Science and Engineering, 2018, 411, 012023.	0.6	1

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127	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
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. Journal of Physics: Conference Series, 2018, 1115, 032021.	0.4	4
129	Hardware provision of electrostimulated wire drawing. Journal of Physics: Conference Series, 2018, 1115, 022030.	0.4	0
130	Effect of the Rail-Carried Tonnage on the Ultrasonic Surface and Lateral Wave Velocities. Russian Metallurgy (Metally), 2018, 2018, 421-425.	0.5	0
131	Stages and Fracture Mechanisms of Lamellar Pearlite of 100-m-Long Differentially Hardened Rails Under Long-Term Operation Conditions. Acta Metallurgica Sinica (English Letters), 2018, 31, 1356-1360.	2.9	1
132	Gradient Structure Generated in Hardox 450 Steel with Built-Up Layer. Inorganic Materials: Applied Research, 2018, 9, 427-432.	0.5	1
133	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
134	Multilayer structure of Al-Si alloy after electro-explosion alloying with yttrium oxide powder. Materials Research Express, 2018, 5, 116520.	1.6	6
135	Transformation of Carbides in Prolonged Rail Operation. Steel in Translation, 2018, 48, 97-103.	0.3	0
136	The Interaction Mechanism between Solid and Liquid Metals under Ultrasonic Action. Doklady Physics, 2018, 63, 117-120.	0.7	0
137	Rail Strengthening Nature in the Course of Long-Term Operation. Inorganic Materials: Applied Research, 2018, 9, 26-31.	0.5	1
138	Structure and properties changes of Al-Si alloy treated by pulsed electron beam. Materials Letters, 2018, 229, 377-380.	2.6	41
139	TRANSFORMATION OF CARBIDĐ• PHASE IN RAILS AT LONG-TERM OPERATION. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2018, 61, 140-148.	0.3	3
140	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
141	The study of the wear resistance of the surface layers silumin after electron beam treatment. Deformatsiya I Razrushenie Materialov, 2018, , 23-27.	0.1	1
142	GRADIENT STRUCTURE OF THE LAYER FACED ON HARDOX 450 STEEL WITH Fe â€“Đ¡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
143	Degradation of structure and properties of rail surface layer at long-term operation. Materials Science and Technology, 2017, 33, 1473-1478.	1.6	7
144	Photolytic AND Catalytic Destruction of Organic Waste Water Pollutants. IOP Conference Series: Earth and Environmental Science, 2017, 50, 012039.	0.3	1

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145	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
146	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
147	Acid-Base Properties Of Glass Substrate And SiO2â€“ Bi2O3Thin-Film Systems Obtained On It. IOP Conference Series: Earth and Environmental Science, 2017, 50, 012048.	0.3	0
148	Manufacture of materials using external fields. Materials Science and Technology, 2017, 33, 1397-1398.	1.6	1
149	Defect substructure change in 100-m differentially hardened rails in long-term operation. Materials Letters, 2017, 209, 224-227.	2.6	10
150	Nanohardness of wear-resistant surfaces after electron-beam treatment. Steel in Translation, 2017, 47, 245-249.	0.3	1
151	Nanoscale localization of plastic deformation in steel with a bainitic structure. Russian Metallurgy (Metally), 2017, 2017, 283-286.	0.5	1
152	Redistribution of carbon in the deformation of steel with bainite and martensite structures. Steel in Translation, 2017, 47, 445-448.	0.3	1
153	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
154	Structure and properties of strengthening layer on Hardox 450 steel. Materials Science and Technology, 2017, 33, 2040-2045.	1.6	8
155	Electrostimulated machining of metals. Steel in Translation, 2017, 47, 113-118.	0.3	2
156	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
157	Elemental and phase composition of TiB2â€“Mo coating sprayed on a steel by electro-explosive method. Inorganic Materials: Applied Research, 2017, 8, 423-427.	0.5	0
158	The physical basics of structure formation in electroexplosive coatings. Doklady Physics, 2017, 62, 67-70.	0.7	13
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