

# Yurii F Ivanov

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Physical nature of rail surface hardening during long-term operation. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2022, 64, 886-894.	0.3	0
2	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
3	Ultrafast microstructure modification by pulsed electron beam to enhance surface performance. Surface and Coatings Technology, 2022, 434, 128226.	4.8	7
4	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
5	Modification of hypereutectic silumin by a pulsed electron beam. High Temperature Material Processes, 2022, , .	0.6	0
6	Combined electron-ion-plasma treatment of 40Cr steel surface. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2022, 65, 127-133.	0.3	0
7	Surface modification of sub-eutectic silumin by a pulsed electron beam. Surfaces and Interfaces, 2022, 29, 101810.	3.0	3
8	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
9	Physical nature of rails strengthening in extremely long-term operation. AIP Conference Proceedings, 2022, , .	0.4	0
10	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
11	Structural-Phase State and Fracture of a Low-Carbon Steel Coating. Russian Metallurgy (Metally), 2022, 2022, 320-324.	0.5	0
12	Structureâ€“Phase Transformations in the Modified Surface of Al-20%Si Alloy Subjected to Two-Stage Treatment. Lubricants, 2022, 10, 133.	2.9	0
13	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
14	Modifying of Titanium VT6 Alloy Surface by Electrical Explosion Alloying. , 2021, , 123-136.		0
15	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
16	Fractography of Silumin Surface Fractured in High-Cycle Fatigue Tests. , 2021, , 91-108.		0
17	Variation in the yield point of differentially quenched rails at severe plastic deformation. Letters on Materials, 2021, 11, 100-103.	0.7	0
18	Special Analysis Aspects of Modified Light Alloys. , 2021, , 53-73.		0

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19	Structure and Properties of As-Cast Silumin and Processed by Intense Pulsed Electron Beam. , 2021, , 75-90.		0
20	Surface Boriding and Titanization Stainless Steel by Integrated Processes. Journal of Surface Investigation, 2021, 15, 200-209.	0.5	3
21	Regularities of structure and properties modification of the steel surface layer as a result of high-cycle high-speed melting of the "film (Si + Nb) / (steel) substrate" system by an intense pulsed electron beam. Journal of Physics: Conference Series, 2021, 1799, 012017.	0.4	0
22	Evolution of the Fine Structure and Properties of Rail Metal during Long-Term Operation. Physical Mesomechanics, 2021, 24, 202-210.	1.9	2
23	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
24	Deformation strengthening mechanisms of rails in extremely long-term operation. Journal of Materials Research and Technology, 2021, 11, 710-718.	5.8	8
25	Electroexplosive hafnium coating on titanium implant modified by nitrogen ions and electron beam processing. Surface and Coatings Technology, 2021, 409, 126895.	4.8	6
26	Increase of alloys functional properties by electronic beam processing. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 129-134.	0.3	0
27	Structure of Differentially Hardened Rails after Severe Plastic Deformation. Russian Metallurgy (Metally), 2021, 2021, 426-429.	0.5	3
28	Pulsed-Electron-Beam Modification of The Surface of Al-Mg Alloy Samples Obtained by the Methods of Additive Technologies: Structure and Properties. Journal of Surface Investigation, 2021, 15, 449-452.	0.5	0
29	Influence of Silicon and Manganese on the Mechanical Properties of Additive Manufactured Cu-Al Alloys by Cold Metal Transfer Welding. Metallography, Microstructure, and Analysis, 2021, 10, 314-320.	1.0	0
30	Structure, Phase Composition and Properties of Rail Running Surface at Extremely Long Operation Time. Russian Physics Journal, 2021, 64, 82-88.	0.4	0
31	Влияние интенсивности электронного луча на структуру и свойства поверхности сплава Al-5.4Si-1.3Cu. Вестник Черной металлургии, 2021, 64, 129-134.		
32	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
33	Microstructural and mechanical characterisation of non-equiatomic Al <sub>2.1</sub> Co <sub>0.3</sub> Cr <sub>0.5</sub> FeNi <sub>2.1</sub> high-entropy alloy fabricated via wire-arc additive manufacturing. Philosophical Magazine Letters, 2021, 101, 353-359.	1.2	14
34	Влияние интенсивности электронного луча на структуру и свойства поверхности сплава Al-5.4Si-1.3Cu. Вестник Черной металлургии, 2021, 64, 129-134.		
35	New Ti-35Nb-7Zr-5Ta Alloy Manufacturing by Electron Beam Melting for Medical Application Followed by High Current Pulsed Electron Beam Treatment. Metals, 2021, 11, 1066.	2.3	15
36	Modification of high-entropy alloy AlCoCrFeNi by electron beam treatment. Journal of Materials Research and Technology, 2021, 13, 787-797.	5.8	14

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37	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
38	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
39	Evolution of Structure in AlCoCrFeNi High-Entropy Alloy Irradiated by a Pulsed Electron Beam. Metals, 2021, 11, 1228.	2.3	18
40	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
41	Modifying of Structure-Phase States and Properties of Metals by Concentrated Energy Flows. , 2021, , 1-52.		0
42	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
43	Multi-cycle of AISI 5135 steel modification by irradiation of the â€œfilm (Si (0.2 Î¼m) + Nb (0.2 Î¼m))/(AISI 5135) Tj ETQq1 1 0.7843 14 2021, 2064, 012041.	0.4	0
44	Formation of a silicon-niobium-based surface alloy using electron-ion-plasma surface engineering. Journal of Physics: Conference Series, 2021, 2064, 012067.	0.4	0
45	Experimental Study and Mathematical Modeling of the Processes Occurring in ZrN Coating/Silumin Substrate Systems under Pulsed Electron Beam Irradiation. Coatings, 2021, 11, 1461.	2.6	2
46	Surface modification of hypereutectic silumin subjected to a millisecond modulated electron beam treatment. Journal of Physics: Conference Series, 2021, 2064, 012045.	0.4	2
47	Deposition of boron films using a discharge system with a hot boron anode. Journal of Physics: Conference Series, 2021, 2064, 012068.	0.4	0
48	Strengthening Mechanisms of Rail Metal during Continuous Operation. Inorganic Materials: Applied Research, 2021, 12, 1540-1546.	0.5	0
49	Structure and mechanical properties of stainless-steel specimens, made by additive method, after pulsed electron beam treatment. Journal of Physics: Conference Series, 2021, 2064, 012076.	0.4	0
50	Structural Phase Variations in High-Entropy Alloy upon Pulsed Electron Beam Irradiation. Steel in Translation, 2021, 51, 788-794.	0.3	1
51	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
52	Physical Nature of Rail Surface Hardening during Long-Term Operation. Steel in Translation, 2021, 51, 859-865.	0.3	0
53	Fatigue-Induced Evolution of AISI 310S Steel Microstructure after Electron Beam Treatment. Materials, 2020, 13, 4567.	2.9	14
54	Liquid-Phase Boriding of High-Chromium Steel. Steel in Translation, 2020, 50, 452-459.	0.3	4

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55	Improving the Mechanical Properties of SiC-ceramics by means of Vacuum Electron-ion-plasma Alloying with Titanium. IOP Conference Series: Materials Science and Engineering, 2020, 731, 012015.	0.6	6
56	The Structure and Mechanical Characteristics of the Hypereutectic Silumin (Al-22 wt.% Si), Irradiated by a Pulsed Electron Beam. , 2020, , .		0
57	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
58	Structure and Properties of the Steel Surface Layer Containing Nitrides and Silicides of High-Melting Metals Formed by Electron-Ion-Plasma Method. , 2020, , .		1
59	Boron electroexplosive alloying of austenite steel. IOP Conference Series: Materials Science and Engineering, 2020, 866, 012052.	0.6	0
60	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
61	Layer-by-Layer Analysis of the Cr-Ni-Ti Coating Substructure Obtained via Selective Laser Melting. Journal of Surface Investigation, 2020, 14, 1022-1028.	0.5	1
62	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
63	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
64	A low-current atmospheric pressure discharge generating atomic magnesium fluxes. Journal of Applied Physics, 2020, 127, .	2.5	3
65	The Structural Formation in Differentially-Hardened 100-Meter-Long Rails during Long-Term Operation. Steel in Translation, 2020, 50, 77-83.	0.3	3
66	High Chrome Steel Modified by High-Current Pulsed Electron Beam. Russian Physics Journal, 2020, 62, 2081-2085.	0.4	5
67	Structure and Properties of Silumin Surface after Vacuum Arc Plasma-Assisted Deposition of Coatings Irradiated by Low Energy High Current Pulsed Electron Beam. Russian Physics Journal, 2020, 62, 2106-2111.	0.4	5
68	Effect of Carbon Nanotubes and Graphene Nanoplatelets on the Mechanical Properties of Zirconia-Based Composites. , 2020, , .		2
69	Formation of Fine Surface of Long Rails on Differentiated Hardening. Journal of Surface Investigation, 2020, 14, 1187-1190.	0.5	1
70	Effect of Electron-Plasma Treatment on the Microstructure of Al-11wt%Si Alloy. Materials Research, 2020, 23, .	1.3	3
71	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
72	Formation of Gradient Structure in Rails at Long-Term Operation. Materials Research, 2020, 23, .	1.3	1

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73	Liquid-phase boriding of high-chromium steel. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2020, 63, 539-547.	0.3	0
74	Hardening mechanisms for rails metal during long-term operation. Voprosy Materialovedeniya, 2020, , 17-28.	0.1	0
75	Complex Method of Structural Steel Treatment. , 2020, , .		0
76	Structure and Properties of Electro-Explosive Ti-C-Ni-Mo Coatings of Die Steel after Electron-Beam Treatment. Inorganic Materials: Applied Research, 2019, 10, 606-615.	0.5	1
77	Formation of Gradient Structure-Phase States in the Surface Layers of 100-m Differentially Quenched Rails. Russian Metallurgy (Metally), 2019, 2019, 710-715.	0.5	0
78	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
79	Modification of surface layer of hypoeutectic silumin by electroexplosion alloying followed by electron beam processing. Materials Letters, 2019, 253, 55-58.	2.6	11
80	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
81	Effect of electron-plasma alloying on structure and mechanical properties of Al-Si alloy. Applied Surface Science, 2019, 498, 143767.	6.1	29
82	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
83	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
84	Structural-Phase State and Properties of Steel After Plasma-Electron Modification. Russian Physics Journal, 2019, 62, 940-947.	0.4	2
85	Microstructure and micro-hardness behavior of Ti-Y <sub>2</sub> O <sub>3</sub> -Al-Si composite coatings prepared in electron-plasma alloying. Materials Characterization, 2019, 158, 109934.	4.4	4
86	Phase Formation Initiated by Irradiation of the Film (Si)-Substrate (Grade 3 Steel) System with a High-Intensity Pulsed Electron Beam. Russian Physics Journal, 2019, 62, 673-679.	0.4	1
87	Structural-Phase State and the Properties of Silumin after Electron-Beam Surface Treatment. Russian Metallurgy (Metally), 2019, 2019, 398-402.	0.5	4
88	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
89	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
90	Enhanced piezoelectric response of hybrid biodegradable 3D poly(3-hydroxybutyrate) scaffolds coated with hydrothermally deposited ZnO for biomedical applications. European Polymer Journal, 2019, 117, 272-279.	5.4	47

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91	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
92	Peculiarities of the fracture upon tensile deformation of hypoeutectic silumin samples after irradiation with an intensive pulse electron beam digital image correlation method. IOP Conference Series: Materials Science and Engineering, 2019, 665, 012005.	0.6	0
93	Wear Resistance of the Surface Layers in Silumin after Electron-Beam Treatment. Russian Metallurgy (Metally), 2019, 2019, 981-985.	0.5	1
94	Structural Phase State of Surface Alloyed Y2O3 Silumin After Electron beam Processing. Journal of Surface Investigation, 2019, 13, 1343-1349.	0.5	2
95	Structure and properties of the electromagnetic starter's contacts with the electro-explosive CuO-Ag coating. Journal of Physics: Conference Series, 2019, 1347, 012123.	0.4	0
96	Structure and properties of Ni-Cr-B-Si powder coating formed on A356Gr steel using a combined method. Journal of Physics: Conference Series, 2019, 1393, 012089.	0.4	0
97	Nanostructure formation of hypoeutectic silumin by electron-ion-plasma methods. Journal of Physics: Conference Series, 2019, 1393, 012091.	0.4	2
98	Microdiffraction analysis of structure of silumin's high-velocity cellular crystallization. Journal of Physics: Conference Series, 2019, 1393, 012114.	0.4	0
99	Surface temperature measurements of TiCuN-A7 system during pulsed electron-beam treatment. Journal of Physics: Conference Series, 2019, 1393, 012141.	0.4	1
100	Additive manufactured VT6 titanium alloy surface modification by electron-ion-plasma methods. Journal of Physics: Conference Series, 2019, 1393, 012142.	0.4	0
101	Formation of Structure and Properties of Silumin on Electron-Beam Processing. Journal of Surface Investigation, 2019, 13, 1040-1044.	0.5	1
102	Application of Ti-Al powder cathodes for vacuum-arc synthesis of nitride coatings. AIP Conference Proceedings, 2019, , .	0.4	2
103	Deformation and fracture of hypereutectic silumin samples with a surface modified with an intense pulsed electron beam. AIP Conference Proceedings, 2019, , .	0.4	0
104	Effect of electron beam irradiation on structural phase transformations of zirconia-based composite reinforced by alumina nanofibers and carbon nanotubes. Journal of Physics: Conference Series, 2019, 1393, 012106.	0.4	7
105	Structure and mechanical characteristics of the hypereutectic silumin subjected to pulsed electron beam treatment. IOP Conference Series: Materials Science and Engineering, 2019, 597, 012060.	0.6	1
106	Variation in the Local Material Temperature During Electron Beam Treatment and its Influence on the Modified Layer Properties. Russian Physics Journal, 2019, 62, 1139-1146.	0.4	5
107	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
108	Complex Electron-Ion-Plasma Processing of Aluminum Surface in a Single Vacuum Cycle. Russian Physics Journal, 2019, 62, 1161-1170.	0.4	17



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109	Multilevel hierarchical structure of silumin subjected to multicycle surface alloying. AIP Conference Proceedings, 2019, , .	0.4	0
110	Model of nanostructure formation in Alâ€Si alloy at electron beam treatment. Materials Research Express, 2019, 6, 026540.	1.6	17
111	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
112	Aluminum surface modification by electron-ion-plasma methods. MATEC Web of Conferences, 2018, 143, 03007.	0.2	0
113	Physical Nature of Structure and Properties Degradation of Rail Surface after Long Term Operation. Journal of Metastable and Nanocrystalline Materials, 2018, 30, 39-45.	0.1	1
114	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
115	Strain Hardening of Bainitic and Martensitic Steel in Compression. Steel in Translation, 2018, 48, 631-636.	0.3	2
116	Gradient structure formation in the surface layer of AK10M2N silumin by electron beam treatment. AIP Conference Proceedings, 2018, , .	0.4	0
117	Influence of irradiation with a high-intensity pulsed electron beam on mechanical properties and structural states of coatings formed by plasma spraying. Journal of Physics: Conference Series, 2018, 1115, 032038.	0.4	1
118	Redistribution of Carbon Atoms in Differentially Quenched Rail on Prolonged Operation. Steel in Translation, 2018, 48, 352-356.	0.3	0
119	Structure of high-chromium steel treated by a microsecond (50â€450 Î¼s) low-energy electron beam. Journal of Physics: Conference Series, 2018, 1115, 032029.	0.4	0
120	Surface alloying of high-chromium steel: structure and properties. Journal of Physics: Conference Series, 2018, 1115, 032030.	0.4	0
121	Formations of wear-resistant extended layers by combined electron-ion-plasma treatment on the surface of aluminium. Journal of Physics: Conference Series, 2018, 1115, 032039.	0.4	0
122	Surface structure and properties of high-chromium steel irradiated with a submillisecond pulsed electron beam. Journal of Physics: Conference Series, 2018, 1115, 032064.	0.4	0
123	Structure and Phase Composition of a Ti Filmâ€Al Substrate System Irradiated with an Intense Pulsed Electron Beam. Key Engineering Materials, 2018, 781, 101-107.	0.4	0
124	Modification of Hypereutectic Silumin by Ion-Electron-Plasma Method. Key Engineering Materials, 2018, 769, 54-59.	0.4	2
125	Structure and Phase Evolution in a SiC Ceramic Surface Layer During Electron-Beam Treatment. Refractories and Industrial Ceramics, 2018, 59, 296-300.	0.6	1
126	Multilevel hierarchical structure formed in the film (Ti)/substrate (SiC-ceramics) system under irradiation by an intense pulsed electron beam. AIP Conference Proceedings, 2018, , .	0.4	6



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127	High Chromium Steel Modification by the Intense Discrete Electron Beam: Structure and Properties. Key Engineering Materials, 2018, 781, 64-69.	0.4	2
128	Aluminum surface modification by electron-ion-plasma methods. MATEC Web of Conferences, 2018, 143, 03007.	0.2	1
129	Complex beam-plasma surface treatment of high-chromium steel. Journal of Physics: Conference Series, 2018, 1115, 032031.	0.4	2
130	Hypereutectic silumin modification by ion-electron-plasma method. Journal of Physics: Conference Series, 2018, 1115, 032054.	0.4	0
131	Multicycle Surface Alloying of Aluminum with Titanium: Structure and Properties. Key Engineering Materials, 2018, 781, 131-136.	0.4	1
132	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
133	Influence of High Energy Impact on the Structural-Phase State and Tribological Properties of the Surface Layer of Metal-Ceramic Composite Materials. Journal of Surface Investigation, 2018, 12, 485-491.	0.5	2
134	Steel surface TiCrN, TiMoNcoatings structural phase state change features after low-energy alpha particles irradiation. IOP Conference Series: Materials Science and Engineering, 2018, 289, 012010.	0.6	6
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 Fe-Cr-Nb-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	Transformation of Carbides in Prolonged Rail Operation. Steel in Translation, 2018, 48, 97-103.	0.3	0
139	Phase Composition and Defect Substructure of Strengthening Layer Surfaced on Low Alloyed Steel. Journal of Metastable and Nanocrystalline Materials, 2018, 30, 28-33.	0.1	0
140	Rail Strengthening Nature in the Course of Long-Term Operation. Inorganic Materials: Applied Research, 2018, 9, 26-31.	0.5	1
141	Structure and properties changes of Al-Si alloy treated by pulsed electron beam. Materials Letters, 2018, 229, 377-380.	2.6	41
142	Structure and Properties of the Surface Layer of B4C Ceramic Treated with an Intense Electron Beam. Inorganic Materials: Applied Research, 2018, 9, 437-441.	0.5	5
143	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
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	Degradation of structure and properties of rail surface layer at long-term operation. Materials Science and Technology, 2017, 33, 1473-1478.	1.6	7
146	Equipment and processes of vacuum electron-ion plasma surface engineering. Vacuum, 2017, 143, 464-472.	3.5	58
147	Electron-ion-plasma modification of the structure and properties of commercial steels. IOP Conference Series: Materials Science and Engineering, 2017, 168, 012070.	0.6	3
148	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
149	Structural phase states and properties of the layer surfaced on low-carbon steel with Fe-Cr-Nb-W powder-core wire followed by electron-beam processing. Journal of Surface Investigation, 2017, 11, 933-939.	0.5	1
150	Modification of the structure and properties of commercially pure titanium through nitriding and subsequent TiN coating deposition in a single vacuum cycle. Journal of Physics: Conference Series, 2017, 857, 012013.	0.4	1
151	Surface Alloying of SUS 321 Chromium-Nickel Steel by an Electron-Plasma Process. Russian Physics Journal, 2017, 60, 515-521.	0.4	5
152	Mechanical Properties and Structure of the Hypereutectic Silumin Treated by an Electron Beam. Key Engineering Materials, 2017, 743, 146-150.	0.4	2
153	Nanohardness of wear-resistant surfaces after electron-beam treatment. Steel in Translation, 2017, 47, 245-249.	0.3	1
154	Nanoscale localization of plastic deformation in steel with a bainitic structure. Russian Metallurgy (Metally), 2017, 2017, 283-286.	0.5	1
155	Redistribution of carbon in the deformation of steel with bainite and martensite structures. Steel in Translation, 2017, 47, 445-448.	0.3	1
156	An Electron-Microscopy Analysis of the Gradient Structure Formed in Titanium During Deposition of a Hard Coating. Russian Physics Journal, 2017, 60, 875-883.	0.4	3
157	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
158	Structure and properties of strengthening layer on Hardox 450 steel. Materials Science and Technology, 2017, 33, 2040-2045.	1.6	8
159	Phase Transformations in the Film-Substrate System Irradiated with e-beam. Russian Physics Journal, 2017, 60, 175-180.	0.4	9
160	Phase composition and defect substructure of double surfacing, formed with V-Cr-Nb-W powder wire on steel. Inorganic Materials: Applied Research, 2017, 8, 313-317.	0.5	0
161	Elemental and phase composition of TiB <sub>2</sub> -Mo coating sprayed on a steel by electro-explosive method. Inorganic Materials: Applied Research, 2017, 8, 423-427.	0.5	0
162	Modification of the Structural-Phase State of the Surface Layer of a Cermet Composite Under Electron Beam Irradiation in Inert Gas Plasmas. Russian Physics Journal, 2017, 59, 2114-2121.	0.4	11

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163	Combined surface modification of commercial aluminum. IOP Conference Series: Materials Science and Engineering, 2017, 168, 012043.	0.6	0
164	Structural and Phase Changes in the System Al-Si-Ti-B, Synthesized Using the Electron-Ion-Plasma Treatment Method. IOP Conference Series: Materials Science and Engineering, 2017, 189, 012031.	0.6	0
165	Structure and Properties of VT6 Alloy Obtained by Layered Selective Sintering of a Powder. Russian Physics Journal, 2017, 60, 1367-1372.	0.4	3
166	Surface modification of additive manufactured metal products by an intense electron beam. Journal of Physics: Conference Series, 2017, 927, 012066.	0.4	0
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