Victor Gromov

List of Publications by Year in descending order

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407 papers 1,829 citations

20 h-index 27 g-index

413 all docs

413 docs citations

413 times ranked 602 citing authors

| # | Article | IF | Citations |
|----|---|-----|-----------|
| 1 | Structure and properties changes of Al-Si alloy treated by pulsed electron beam. Materials Letters, 2018, 229, 377-380. | 2.6 | 41 |
| 2 | Formation of surface gradient structural-phase states under electron-beam treatment of stainless steel. Journal of Surface Investigation, 2011, 5, 974-978. | 0.5 | 38 |
| 3 | 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 |
| 4 | Mathematical Modeling of the Concentrated Energy Flow Effect on Metallic Materials. Metals, 2017, 7, 4. | 2.3 | 33 |
| 5 | Effect of elastic excitations on the surface structure of hadfield steel under friction. Technical Physics, 2008, 53, 204-210. | 0.7 | 32 |
| 6 | Evolution of dislocation substructures in fatigue loaded and failed stainless steel with the intermediate electropulsing treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3040-3043. | 5.6 | 32 |
| 7 | Multicyclic fatigue of stainless steel treated by a high-intensity electron beam: surface layer structure. Russian Physics Journal, 2011, 54, 575-583. | 0.4 | 31 |
| 8 | Formation features of structure-phase states of Cr–Nb–C–V containing coatings on martensitic steel. Journal of Surface Investigation, 2016, 10, 1119-1124. | 0.5 | 31 |
| 9 | The structural-phase state changes under the pulse current influence on the fatigue loaded steel. International Journal of Fatigue, 2005, 27, 1221-1226. | 5.7 | 29 |
| 10 | Effect of electron-plasma alloying on structure and mechanical properties of Al-Si alloy. Applied Surface Science, 2019, 498, 143767. | 6.1 | 29 |
| 11 | Influence of contact potential difference and electric potential on the microhardness of metals. Physics of the Solid State, 2009, 51, 1137-1141. | 0.6 | 28 |
| 12 | Fatigue life of silumin treated with a high-intensity pulsed electron beam. Journal of Surface Investigation, 2015, 9, 1056-1059. | 0.5 | 27 |
| 13 | Dislocation substructure evolution on Al creep under the action of the weak electric potential. Materials Science & Discourse and Processing, 2010, 527, 858-861. | 5.6 | 26 |
| 14 | Evolution of the phase composition and defect substructure of rail steel subjected to high-intensity electron-beam treatment. Journal of Surface Investigation, 2013, 7, 990-995. | 0.5 | 26 |
| 15 | Increase in the fatigue durability of stainless steel by electron-beam surface treatment. Journal of Surface Investigation, 2013, 7, 94-98. | 0.5 | 25 |
| 16 | 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 |
| 17 | Structural-phase states and properties of coatings welded onto steel surfaces using powder wires. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1015-1021. | 0.6 | 24 |
| 18 | On the influence of the electrical potential on the creep rate of aluminum. Physics of the Solid State, 2007, 49, 1457-1459. | 0.6 | 23 |

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| 19 | The formation mechanism providing high-adhesion properties of an electric-explosive coating on a metal basis. Doklady Physics, 2013, 58, 82-84. | 0.7 | 22 |
| 20 | 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 |
| 21 | The Effect of Electric Current Pulses on the Dislocation Mobility in Zinc Single Crystals. Physica Status Solidi A, 1990, 121, 437-443. | 1.7 | 19 |
| 22 | Surface modification by the EVU 60/10 electroexplosive system. Steel in Translation, 2011, 41, 464-468. | 0.3 | 18 |
| 23 | Effect of electropulsing treatment on the microstructure and superelasticity of TiNi alloy. Applied Physics A: Materials Science and Processing, 2013, 111, 1195-1201. | 2.3 | 18 |
| 24 | Evolution of Structure in AlCoCrFeNi High-Entropy Alloy Irradiated by a Pulsed Electron Beam. Metals, 2021, 11, 1228. | 2.3 | 18 |
| 25 | Model of nanostructure formation in Al–Si alloy at electron beam treatment. Materials Research Express, 2019, 6, 026540. | 1.6 | 17 |
| 26 | Structural phase states and properties of rails after long-term operation. Materials Letters, 2020, 268, 127499. | 2.6 | 17 |
| 27 | Formation Mechanism of Micro- and Nanocrystalline Surface Layers in Titanium and Aluminum Alloys in Electron Beam Irradiation. Metals, 2020, 10, 1399. | 2.3 | 16 |
| 28 | Fatigue failure of stainless steel after electron-beam treatment. Steel in Translation, 2012, 42, 486-488. | 0.3 | 15 |
| 29 | Evolution of the structure and phase states of rails in prolonged operation. Steel in Translation, 2015, 45, 254-257. | 0.3 | 15 |
| 30 | 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 |
| 31 | Formation of internal stress fields in rails during long-term operation. Russian Metallurgy (Metally), 2016, 2016, 371-374. | 0.5 | 14 |
| 32 | Fatigue-Induced Evolution of AISI 310S Steel Microstructure after Electron Beam Treatment. Materials, 2020, 13, 4567. | 2.9 | 14 |
| 33 | Microstructural and mechanical characterisation of non-equiatomic Al _{2.1} high-entropy alloy fabricated via wire-arc additive manufacturing. Philosophical Magazine Letters, 2021, 101, 353-359. | 1.2 | 14 |
| 34 | Modification of high-entropy alloy AlCoCrFeNi by electron beam treatment. Journal of Materials Research and Technology, 2021, 13, 787-797. | 5.8 | 14 |
| 35 | 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 |
| 36 | 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 |

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| 37 | Surface relief and structure of electroexplosive composite surface layers of the molybdenum-copper system. Journal of Surface Investigation, 2011, 5, 1112-1117. | 0.5 | 13 |
| 38 | Model of formation of inner nanolayers in shear flows of material. Technical Physics, 2013, 58, 1544-1547. | 0.7 | 13 |
| 39 | The physical basics of structure formation in electroexplosive coatings. Doklady Physics, 2017, 62, 67-70. | 0.7 | 13 |
| 40 | 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 |
| 41 | Changes in surface structure and mechanical characteristics of Al–5Âwt%Si alloy after irradiation by electron beam. Materials Letters, 2020, 275, 128105. | 2.6 | 13 |
| 42 | Titanium-zirconium coatings formed on the titanium implant surface by the electroexplosive method. Materials Letters, 2019, 242, 79-82. | 2.6 | 12 |
| 43 | Scale Levels of the Structure–Phase States and Fatigue Life of a Rail Steel after Electron-Beam Treatment. Progress in Physics of Metals, 2013, 14, 67-83. | 1.5 | 12 |
| 44 | On the fatigue strength of grade 20Cr13 hardened steel modified by an electron beam. Journal of Surface Investigation, 2013, 7, 90-93. | 0.5 | 11 |
| 45 | Nature of the structural degradation of rail surfaces during operation. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 1483-1488. | 0.6 | 11 |
| 46 | Surface layer structure degradation of rails in prolonged operation. Journal of Surface Investigation, 2016, 10, 76-82. | 0.5 | 11 |
| 47 | Structure of electro-explosion resistant coatings consisting of immiscible components. Materials Letters, 2017, 188, 25-28. | 2.6 | 11 |
| 48 | Modification of surface layer of hypoeutectic silumin by electroexplosion alloying followed by electron beam processing. Materials Letters, 2019, 253, 55-58. | 2.6 | 11 |
| 49 | Structure and electrical erosion resistance of an electro-explosive coating of the CuO–Ag system. Materials Research Express, 2019, 6, 055042. | 1.6 | 11 |
| 50 | 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 |
| 51 | High-entropy alloys: Structure, mechanical properties, deformation mechanisms and application. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 249-258. | 0.3 | 11 |
| 52 | Structure and Properties of the Wear-Resistant Coatings Fused on Steel with Flux Cored Wires by an Electric Arc Method. Progress in Physics of Metals, 2014, 15, 213-234. | 1.5 | 11 |
| 53 | Macrolocalization of plastic strain in creep of fine-grain aluminum. Technical Physics, 2005, 50, 376-379. | 0.7 | 10 |
| 54 | Structure-phase states evolution in Al-Si alloy under electron-beam treatment and high-cycle fatigue. AIP Conference Proceedings, 2015, , . | 0.4 | 10 |

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| 55 | Effect of the magnetic field on the surface morphology of copper upon creep fracture. Journal of Surface Investigation, 2015, 9, 410-414. | 0.5 | 10 |
| 56 | Structure gradient in wear-resistant coatings on steel. Steel in Translation, 2015, 45, 120-124. | 0.3 | 10 |
| 57 | Long-term operation of rail steel: Degradation of structure and properties of surface layer. Journal of Surface Investigation, 2016, 10, 1101-1105. | 0.5 | 10 |
| 58 | Defect substructure change in 100-m differentially hardened rails in long-term operation. Materials Letters, 2017, 209, 224-227. | 2.6 | 10 |
| 59 | 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 |
| 60 | Structural evolution of silumin treated with a high-intensity pulse electron beam and subsequent fatigue loading up to failure. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 1169-1172. | 0.6 | 9 |
| 61 | The Influence of Electron Beam Treatment on Al-Si Alloy Structure Destroyed at High-Cycle Fatigue. Key Engineering Materials, 0, 675-676, 655-659. | 0.4 | 9 |
| 62 | Influence of electric current pulses on the mobility and multiplication of dislocations in Zn-monocrystals. European Physical Journal D, 1990, 40, 895-902. | 0.4 | 8 |
| 63 | Formation of nanocomposite layers at the surface of VT1-0 titanium in electroexplosive carburization and electron-beam treatment. Steel in Translation, 2012, 42, 499-501. | 0.3 | 8 |
| 64 | Nanostructural States and Properties of the Surfacing Formed on Steel by a Cored Wire. Russian Physics Journal, 2015, 58, 471-477. | 0.4 | 8 |
| 65 | Degradation of rail-steel structure and properties of the surface layer. Steel in Translation, 2016, 46, 567-570. | 0.3 | 8 |
| 66 | Structure and properties of strengthening layer on Hardox 450 steel. Materials Science and Technology, 2017, 33, 2040-2045. | 1.6 | 8 |
| 67 | Deformation strengthening mechanisms of rails in extremely long-term operation. Journal of Materials Research and Technology, 2021, 11, 710-718. | 5.8 | 8 |
| 68 | Generation of increased mechanical properties of Cantor highÂentropy alloy. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2021, 64, 599-605. | 0.3 | 8 |
| 69 | Regularities of Formation of Structural–Phase States on a Surface of Metals and Alloys at an Electroexplosive Alloying. Progress in Physics of Metals, 2015, 16, 119-157. | 1.5 | 8 |
| 70 | Structure, Phase Composition and Properties of Surface Layers of the Titanium after Electroexplosive Doping with Yttrium and Electron-Beam Processing. Progress in Physics of Metals, 2015, 16, 175-227. | 1.5 | 8 |
| 71 | Increase of a Fatigue Life of a Silumin by Electron-Beam Processing. Progress in Physics of Metals, 2015, 16, 265-297. | 1.5 | 8 |
| 72 | Mechanics of electrostimulated wire drawing. International Journal of Solids and Structures, 1991, 27, 1639-1643. | 2.7 | 7 |

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| 73 | Ultrasonic monitoring of the accumulation of aging damage and recovery of the useful lifetime of industrial parts. Technical Physics, 1997, 42, 1094-1096. | 0.7 | 7 |
| 74 | Nanosized structure formation in metals under the action of pulsed electric-explosion-induced plasma jets. Technical Physics Letters, 2010, 36, 656-659. | 0.7 | 7 |
| 75 | Formation of Surface Layers in Cu-C System. Advanced Materials Research, 2014, 1013, 224-228. | 0.3 | 7 |
| 76 | Structure and Properties of Wear-Resistant Weld Deposit Formed on Martensitic Steel Using the Electric-Arc Method. Advanced Materials Research, 0, 1013, 194-199. | 0.3 | 7 |
| 77 | Structural and phase states in high-quality rail. Steel in Translation, 2016, 46, 260-263. | 0.3 | 7 |
| 78 | Physical nature of rail strengthening in long term operation. AIP Conference Proceedings, 2016, , . | 0.4 | 7 |
| 79 | Degradation of structure and properties of rail surface layer at long-term operation. Materials Science and Technology, 2017, 33, 1473-1478. | 1.6 | 7 |
| 80 | 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 |
| 81 | Ways of the dislocation substructure evolution in austenite steel under low and multicycle fatigue. Procedia Engineering, 2010, 2, 83-90. | 1.2 | 6 |
| 82 | Gradient structural phase states formed in steel 08Kh18N10T in the course of high-cycle fatigue to failure. Physics of Metals and Metallography, 2011, 112, 81-89. | 1.0 | 6 |
| 83 | Formation of gradient structure-phase states in thermomechanical hardening. Steel in Translation, 2011, 41, 283-286. | 0.3 | 6 |
| 84 | Temperature distribution produced by pulsed energy fluxes, with evaporation of the target. Steel in Translation, 2013, 43, 55-58. | 0.3 | 6 |
| 85 | Evolution of the phase composition and defect substructure in the surface layer of rail steel under fatigue. Steel in Translation, 2013, 43, 724-727. | 0.3 | 6 |
| 86 | Regularities of Macroscopic Localization of Plastic Deformation in the Stretching of a Low-Carbon Steel. Russian Physics Journal, 2014, 57, 396-402. | 0.4 | 6 |
| 87 | Modification of the surface of the VT6 alloy by plasma of electric explosion of a conducting material and by electron beam. Russian Journal of Non-Ferrous Metals, 2014, 55, 51-56. | 0.6 | 6 |
| 88 | Structure of electroexplosive TiB2–Ni composite coatings after electron beam processing. Inorganic Materials: Applied Research, 2015, 6, 536-541. | 0.5 | 6 |
| 89 | Fractography of the fatigue fracture surface of silumin irradiated by high-intensity pulsed electron beam. IOP Conference Series: Materials Science and Engineering, 2015, 81, 012011. | 0.6 | 6 |
| 90 | Formation Structural Phase Gradients in Rail Steel During Long-Term Operation. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012038. | 0.6 | 6 |

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| 91 | Increase in fatigue life of steels by electron-beam processing. Journal of Surface Investigation, 2016, 10, 83-87. | 0.5 | 6 |
| 92 | An increase in fatigue service life of eutectic silumin by electron-beam treatment. Russian Journal of Non-Ferrous Metals, 2016, 57, 236-242. | 0.6 | 6 |
| 93 | Physical nature of surface structure degradation in long term operated rails. AIP Conference Proceedings, 2017, , . | 0.4 | 6 |
| 94 | Microstructure and wear properties of Hardox 450 steel surface modified by Fe-C-Cr-Nb-W powder wire surfacing and electron beam treatment. IOP Conference Series: Materials Science and Engineering, 0, 411, 012024. | 0.6 | 6 |
| 95 | Multilayer structure of Al-Si alloy after electro-explosion alloying with yttrium oxide powder. Materials Research Express, 2018, 5, 116520. | 1.6 | 6 |
| 96 | 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 |
| 97 | 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 |
| 98 | Electroexplosive hafnium coating on titanium implant modified by nitrogen ions and electron beam processing. Surface and Coatings Technology, 2021, 409, 126895. | 4.8 | 6 |
| 99 | Fine structure formation in rails under ultra long-term operation. Materials Letters, 2022, 309, 131378. | 2.6 | 6 |
| 100 | Influence of current pulses on the mobility and multiplication of dislocations in Zn. Strength of Materials, 1989, 21, 1335-1341. | 0.5 | 5 |
| 101 | Laws of electrical stimulation of plastic deformation of metals and alloys at various structural levels. Russian Physics Journal, 1996, 39, 237-261. | 0.4 | 5 |
| 102 | Influence of tempering on the phase composition of cast moderately alloyed structural steel. Steel in Translation, 2007, 37, 110-114. | 0.3 | 5 |
| 103 | Formation of convective structures in metals and alloys under the action of pulsed multiphase plasma jets. Steel in Translation, 2010, 40, 531-536. | 0.3 | 5 |
| 104 | Pulse electric current effect on mechanical properties of titanium aluminide produced by the self-propagating high-temperature synthesis technique. Strength of Materials, 2012, 44, 636-644. | 0.5 | 5 |
| 105 | Electron-Beam Surfacing Wear-Resistant Coatings, Reinforced Refractory Metal's Borides. Applied Mechanics and Materials, 0, 698, 419-423. | 0.2 | 5 |
| 106 | Structure-phase states evolution in rails during a long operation. AIP Conference Proceedings, 2015, , . | 0.4 | 5 |
| 107 | Metallographic Examination of Forming Improved Mechanical Properties via Surfacing of Steel HARDOX 450 with Flux Cored Wire. Materials Science Forum, 2016, 870, 159-162. | 0.3 | 5 |
| 108 | Estimation of the residual stresses in rails using electromagnetic–acoustic introduction–reception of waves. Russian Metallurgy (Metally), 2016, 2016, 992-995. | 0.5 | 5 |

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| 109 | Analysis of Structure Formed in a Titanium Surface Layer Alloyed with Yttrium. Metallurgist, 2016, 59, 829-834. | 0.6 | 5 |
| 110 | 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 |
| 111 | Long-term operation surface changes in differentially quenched 100-m rails. Steel in Translation, 2017, 47, 658-661. | 0.3 | 5 |
| 112 | Evolution of structure and properties of railhead fillet in long-term operation. Materials and Electronics Engineering, $2015, 2, \ldots$ | 0.1 | 5 |
| 113 | Formation of Structure, Phase Composition and Faulty Substructure in the Bulk- and Differentially-Hard-Tempered Rails. Progress in Physics of Metals, 2014, 15, 1-33. | 1.5 | 5 |
| 114 | Title is missing!. Russian Physics Journal, 2002, 45, 261-273. | 0.4 | 4 |
| 115 | Phase composition and defect substructure of nickel alloyed with boron and copper by electric explosion of conductors. Russian Physics Journal, 2007, 50, 199-203. | 0.4 | 4 |
| 116 | Formation of the fine structure and phase composition of structural steel on quenching. Steel in Translation, 2009, 39, 302-306. | 0.3 | 4 |
| 117 | Effect of the electric potential of the aluminum surface on stress relaxation. Technical Physics, 2011, 56, 877-880. | 0.7 | 4 |
| 118 | Gradient Structural-Phase States in the Thermostrengthened Low-Carbon Steel Reinforcement. Materials and Manufacturing Processes, 2011, 26, 144-146. | 4.7 | 4 |
| 119 | Electron-beam surface treatment of alloys based on titanium, modified by plasma from an electrical explosion of conducting material. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1246-1252. | 0.6 | 4 |
| 120 | Effect of a pulsed electromagnetic field on stress relaxation in concentrator-containing flat specimens. Strength of Materials, 2012, 44, 27-32. | 0.5 | 4 |
| 121 | Structure and properties of surface layers obtained due to titanium-surface alloying by yttrium via combined electron-ion-plasma treatment. Journal of Surface Investigation, 2014, 8, 1286-1290. | 0.5 | 4 |
| 122 | Structure, phase composition, and defect substructure of differentially quenched rail. Steel in Translation, 2014, 44, 883-885. | 0.3 | 4 |
| 123 | Combined electron-ion-plasma doping of a titanium surface with yttrium: Analyzing structure and properties. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1183-1187. | 0.6 | 4 |
| 124 | Structurally-Phase States of Surface Titanium VT1-0 Layers After Electroexplosive Carbonization with a Weighed Zirconium Oxide Powder Sample and Electron Beam Treatment. Russian Physics Journal, 2014, 57, 252-258. | 0.4 | 4 |
| 125 | Formation of gradients of structure, phase composition, and dislocation substructure in differentially hardened rails. Nanotechnologies in Russia, 2014, 9, 288-292. | 0.7 | 4 |
| 126 | Structure of the surface layer of a wear-resistant coating after treatment with a high-intensity electron beam. Journal of Surface Investigation, 2015, 9, 934-938. | 0.5 | 4 |

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| 127 | Formation of a microcomposite structure in the surface layer of yttrium-doped titanium. Journal of Surface Investigation, 2015, 9, 377-382. | 0.5 | 4 |
| 128 | Structure of electroexplosive TiC–Ni composite coatings on steel after electron-beam treatment. Russian Metallurgy (Metally), 2016, 2016, 1064-1071. | 0.5 | 4 |
| 129 | Increase of Fatigue Life of Titanium VT1-0 after Electron Beam Treatment. Key Engineering Materials, 0, 704, 15-19. | 0.4 | 4 |
| 130 | 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 |
| 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 | Microstructure and micro-hardness behavior of Ti–Y2O3 –Al–Si composite coatings prepared in electron-plasma alloying. Materials Characterization, 2019, 158, 109934. | 4.4 | 4 |
| 133 | Structural-Phase State and the Properties of Silumin after Electron-Beam Surface Treatment. Russian Metallurgy (Metally), 2019, 2019, 398-402. | 0.5 | 4 |
| 134 | Liquid-Phase Boriding of High-Chromium Steel. Steel in Translation, 2020, 50, 452-459. | 0.3 | 4 |
| 135 | EVOLUTION OF RAIL STRUCTURE-PHASE STATES AT CONTINUOUS SERVICE. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2015, 58, 262. | 0.3 | 4 |
| 136 | EQUIPMENT PROVISION OF ELECTROSTIMULATED METAL PROCESSING. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2017, 60, 157-163. | 0.3 | 4 |
| 137 | Formation of Structural-Phase States, Defect Substructure and Properties of a Surface of Thermomechanically Hardened Low-Carbon Steel. Progress in Physics of Metals, 2016, 17, 303-341. | 1.5 | 4 |
| 138 | CARBON REDISTRIBUTION UNDER DEFORMATION OF STEELS WITH BAINITE AND MARTENSITE STRUCTURES. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2017, 60, 544-548. | 0.3 | 4 |
| 139 | Influence of current pulses in plastic deformation on the macrostructure of austenitic chromomanganese steel. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh) Tj ETQq1 1 | 0o 7.8 4314 | · rgBT /Over |
| 140 | Electroexplosive Carburizing of Iron: Surface Relief, Phase Composition and Defect Substructure. Russian Physics Journal, 2005, 48, 929-935. | 0.4 | 3 |
| 141 | Gradient structure-phase states formed in Hadfield steel during dry sliding wear. Russian Physics Journal, 2008, 51, 1168-1173. | 0.4 | 3 |
| 142 | Formation of structure and mechanical properties in the accelerated cooling of an H beam. Steel in Translation, 2010, 40, 114-118. | 0.3 | 3 |
| 143 | Formation of nanophases in electroexplosive alloying with aluminum and boron and electron-beam treatment of titanium surfaces. Steel in Translation, 2010, 40, 723-728. | 0.3 | 3 |
| 144 | Fragmentation of the grain structure of quenched rails. Steel in Translation, 2015, 45, 759-761. | 0.3 | 3 |

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| 145 | Regularities of varying the dislocation substructure of copper under creep in the magnetic field. Russian Journal of Non-Ferrous Metals, 2015, 56, 441-448. | 0.6 | 3 |
| 146 | Fatigue life of silumin irradiated by high intensity pulsed electron beam. IOP Conference Series: Materials Science and Engineering, 2015, 91, 012029. | 0.6 | 3 |
| 147 | Electro-Explosive Doping of VT6 Titanium Alloy Surface by Boron Carbide. IOP Conference Series: Materials Science and Engineering, 2016, 150, 012042. | 0.6 | 3 |
| 148 | Change of deformation characteristics and dislocation substructure of nonferrous metals under influence of magnetic field. IOP Conference Series: Materials Science and Engineering, 2016, 150, 012038. | 0.6 | 3 |
| 149 | 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. | 0.6 | 3 |
| 150 | Structure and phase composition of wear-resistant coatings of the TiB2–Al system prepared by electroexplosion sputtering. Russian Journal of Non-Ferrous Metals, 2016, 57, 75-79. | 0.6 | 3 |
| 151 | Surface modification of Ti alloy by electro-explosive alloying and electron-beam treatment. AIP Conference Proceedings, 2016, , . | 0.4 | 3 |
| 152 | Electric arc surfacing on low carbon steel: Structure and properties. AIP Conference Proceedings, 2016, , . | 0.4 | 3 |
| 153 | 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 |
| 154 | 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 |
| 155 | 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 |
| 156 | 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 |
| 157 | Phase Composition, Structure, and Wear Resistance of Electric-Explosive CuO–Ag System Coatings after Electron Beam Processing. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 1270-1274. | 0.6 | 3 |
| 158 | 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 |
| 159 | The Structural Formation in Differentially-Hardened 100-Meter-Long Rails during Long-Term Operation. Steel in Translation, 2020, 50, 77-83. | 0.3 | 3 |
| 160 | Surface Boriding and Titanization Stainless Steel by Integrated Processes. Journal of Surface Investigation, 2021, 15, 200-209. | 0.5 | 3 |
| 161 | Structure of Differentially Hardened Rails after Severe Plastic Deformation. Russian Metallurgy (Metally), 2021, 2021, 426-429. | 0.5 | 3 |
| 162 | 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 |

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| 163 | Structural-Phase States of Titanium After an Electroexplosive Alloying and the Subsequent Electron-Beam Treatment. Progress in Physics of Metals, 2010, 11, 273-293. | 1.5 | 3 |
| 164 | Effect of Electron-Plasma Treatment on the Microstructure of Al-11wt%Si Alloy. Materials Research, 2020, 23, . | 1.3 | 3 |
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