

Filippov Andrey

List of Publications by Year in descending order

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109
papers

904
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109
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times ranked

370
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Microstructure and properties of a nanostructured W-31wt% Cu composite produced by magnetic pulse compaction of bimetallic nanoparticles. International Journal of Refractory Metals and Hard Materials, 2022, 103, 105735. | 3.8 | 10 |
| 2 | Investigation of the structural-phase state and mechanical properties of ZrCrN coatings obtained by plasma-assisted vacuum arc evaporation. Metal Working and Material Science, 2022, 24, 87-102. | 0.3 | 4 |
| 3 | The Effect of Heat Input, Annealing, and Deformation Treatment on Structure and Mechanical Properties of Electron Beam Additive Manufactured (EBAM) Silicon Bronze. Materials, 2022, 15, 3209. | 2.9 | 6 |
| 4 | Characterization of AA7075/AA5356 gradient transition zone in an electron beam wire-feed additive manufactured sample. Materials Characterization, 2021, 172, 110867. | 4.4 | 25 |
| 5 | FRICION BEHAVIOR OF ALUMINUM BRONZE REINFORCED BY BORON CARBIDE PARTICLES. Facta Universitatis, Series: Mechanical Engineering, 2021, 19, 051. | 4.6 | 3 |
| 6 | Structure and Mechanical Properties of Cu-Al-Si-Mn System-Based Copper Alloy Obtained by Additive Manufacturing. Russian Physics Journal, 2021, 64, 333-339. | 0.4 | 7 |
| 7 | Material Transfer by Friction Stir Processing. Springer Tracts in Mechanical Engineering, 2021, , 169-188. | 0.3 | 4 |
| 8 | Heat Input Effect on Microstructure and Mechanical Properties of Electron Beam Additive Manufactured (EBAM) Cu-7.5wt.%Al Bronze. Materials, 2021, 14, 6948. | 2.9 | 11 |
| 9 | Microstructure and Corrosion Resistance of AA4047/AA7075 Transition Zone Formed Using Electron Beam Wire-Feed Additive Manufacturing. Materials, 2021, 14, 6931. | 2.9 | 6 |
| 10 | Self-organization processes during deformation of nickel single crystals. Materials Characterization, 2020, 159, 110007. | 4.4 | 1 |
| 11 | The morphology of the deformation relief and the grain boundary role in the bicrystals of AISI 316 steel. Solid State Sciences, 2020, 99, 106060. | 3.2 | 0 |
| 12 | Strength and Ductility Improvement through Thermomechanical Treatment of Wire-Feed Electron Beam Additive Manufactured Low Stacking Fault Energy (SFE) Aluminum Bronze. Metals, 2020, 10, 1568. | 2.3 | 17 |
| 13 | Anisotropy of the mechanical properties of the aluminum bronze obtained by the electron beam additive manufacturing. AIP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 14 | Wear of ZhS6U Nickel Superalloy Tool in Friction Stir Processing on Commercially Pure Titanium. Metals, 2020, 10, 799. | 2.3 | 13 |
| 15 | Controlling the porosity using exponential decay heat input regimes during electron beam wire-feed additive manufacturing of Al-Mg alloy. International Journal of Advanced Manufacturing Technology, 2020, 108, 2823-2838. | 3.0 | 38 |
| 16 | Study of the Structure and Mechanical Properties of Aluminum Bronze Printed by Electron Beam Additive Manufacturing. Metal Working and Material Science, 2020, 22, 118-129. | 0.3 | 1 |
| 17 | An experimental study of the wear resistance of ferrite-pearlite steel printed by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 18 | The Effect of the Structural State of AISI 321 Stainless Steel on Surface Quality During Turning. Metal Working and Material Science, 2020, 22, 102-113. | 0.3 | 0 |

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|----|--|-----|-----------|
| 19 | Structure and mechanical properties of ferritic-pearlite steel printed by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 20 | Influence of the structural state on the development of the dynamics of friction processes during dry sliding friction of ferritic-pearlitic steel. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 21 | Determination of sliding and twinning shear stress during microindentation of Hadfield steel single crystals. Letters on Materials, 2020, 10, 451-456. | 0.7 | 0 |
| 22 | Peculiarities of the boron carbide particles reinforced aluminum bronze manufactured by electron beam 3D printing. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 23 | Influence of the Material Structure on the Deformed Surface Morphology. Metal Working and Material Science, 2020, 22, 90-101. | 0.3 | 0 |
| 24 | Microstructural evolution and chemical corrosion of electron beam wire-feed additively manufactured AISI 304 stainless steel. Journal of Alloys and Compounds, 2019, 803, 364-370. | 5.5 | 72 |
| 25 | Surface Quality of AMg2 Aluminum Alloy with Ultrafine Grain Structure after Machining 2. Milling. Russian Engineering Research, 2019, 39, 436-438. | 0.6 | 2 |
| 26 | Wear, vibration and acoustic emission characterization of sliding friction processes of coarse-grained and ultrafine-grained copper. Wear, 2019, 424-425, 78-88. | 3.1 | 18 |
| 27 | Structural, Mechanical, and Tribological Characterization of Magnetic Pulse Compacted Fe-Cu Bimetallic Particles Produced by Electric Explosion of Dissimilar Metal Wires. Metals, 2019, 9, 1287. | 2.3 | 5 |
| 28 | Infrared thermography inspection of severe friction on UFG stainless steel, copper and aluminum alloy. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 29 | Deformation behavior of Cu-1.5Co-3Al single crystals during sliding friction. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 30 | Indentation and scratch testing of coarse-grained and ultrafine-grained AA6063. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 31 | Nanoindentation on coarse-grained (CG) and ultrafine-grained (UFG) C11000 grade copper. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 32 | Influence of axial force on the pure titanium surface relief during friction stir processing. AIP Conference Proceedings, 2019, , . | 0.4 | 3 |
| 33 | Influence of Intense Bulk Plastic Deformation on the Roughness of a Milled AISI 321 Stainless Steel Surface. Russian Engineering Research, 2019, 39, 986-989. | 0.6 | 7 |
| 34 | The effect of microstructure on a beryllium bronze wear. AIP Conference Proceedings, 2019, , . | 0.4 | 1 |
| 35 | Mechanical and Tribological Properties of Polyethylene Terephthalate Track-Etched Membranes after Steam and Radiation Sterilization. Journal of Friction and Wear, 2019, 40, 527-531. | 0.5 | 0 |
| 36 | Microstructural, mechanical and acoustic emission-assisted wear characterization of equal channel angular pressed (ECAP) low stacking fault energy brass. Tribology International, 2018, 123, 273-285. | 5.9 | 28 |

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|----|---|-----|-----------|
| 37 | Detecting transition to chatter mode in peakless tool turning by monitoring vibration and acoustic emission signals. International Journal of Advanced Manufacturing Technology, 2018, 95, 157-169. | 3.0 | 22 |
| 38 | Dry sliding of Hadfield steel single crystal oriented to deformation by slip and twinning: Deformation, wear, and acoustic emission characterization. Tribology International, 2018, 119, 1-18. | 5.9 | 38 |
| 39 | The effect of equal channel angular pressing on structure and machining quality of AA5052. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 40 | Dynamic of friction on ultrafine-grained Cu-Zn brass. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 41 | Acoustic emission response to severe friction in deformation by cutting on metals and alloys. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 42 | Surface Quality of AMg2 Aluminum Alloy with Ultrafine Grain Structure after Machining. 1. Turning. Russian Engineering Research, 2018, 38, 1067-1070. | 0.6 | 1 |
| 43 | The annealing effect on scratch testing behavior of ultrafine-grained brass. AIP Conference Proceedings, 2018, , . | 0.4 | 1 |
| 44 | Acoustic emission as method of chatter detection in cutting. AIP Conference Proceedings, 2018, , . | 0.4 | 3 |
| 45 | Structural evolution of 321 stainless steel in electron beam freeform fabrication. Journal of Physics: Conference Series, 2018, 1115, 042049. | 0.4 | 0 |
| 46 | The effect of annealing on structure and phase composition of ultrafine-grained AISI 321 stainless steel. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 47 | Dynamics of friction processes on stainless steel AISI 201 with coarse and ultrafine-grained structure. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 48 | Surface morphology of 321 stainless steel obtained by electron-beam wire-feed additive manufacturing technology. AIP Conference Proceedings, 2018, , . | 0.4 | 15 |
| 49 | Relationship between acoustic emission and microcrack formation in single crystals of Hadfield steel. AIP Conference Proceedings, 2018, , . | 0.4 | 2 |
| 50 | Scratch testing of coarse-grained and ultra fine-grained copper. AIP Conference Proceedings, 2018, , . | 0.4 | 1 |
| 51 | Dynamic behavior of friction ultrafine-grained AA5052. AIP Conference Proceedings, 2018, , . | 0.4 | 2 |
| 52 | Dynamics of friction processes on Al-Zn-Mg-Cu alloy with coarse-grained or ultrafine-grained structure. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 53 | Microstructure and tensile properties of Cu-Zn brass after severe plastic deformation. AIP Conference Proceedings, 2018, , . | 0.4 | 9 |
| 54 | Mechanical properties of stainless steel 321, obtained by the electron-beam additive technology. AIP Conference Proceedings, 2018, , . | 0.4 | 9 |

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|----|--|-----|-----------|
| 55 | On the problem of formation of articles with specified properties by the method of electron beam freeform fabrication. Journal of Physics: Conference Series, 2018, 1115, 042044. | 0.4 | 13 |
| 56 | Structure formation in electron beam additive manufactured austenitic steel. AIP Conference Proceedings, 2018, , . | 0.4 | 6 |
| 57 | The Features of Structure Formation in Chromium-Nickel Steel Manufactured by a Wire-Feed Electron Beam Additive Process. Russian Physics Journal, 2018, 61, 1491-1498. | 0.4 | 18 |
| 58 | Influence of crystallographic symmetry on the self-organization of plastic deformation in [111] nickel single crystals. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 59 | Selection of the severe plastic deformation mode for improving mechanical properties of AISI 201 steel. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 60 | Wire feed electron beam additive manufacturing of metallic components. AIP Conference Proceedings, 2018, , . | 0.4 | 10 |
| 61 | Deformation relief on the surface of Hadfield steel single crystals, observed using a scratch test. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 62 | Effect of heat input on phase content, crystalline lattice parameter, and residual strain in wire-feed electron beam additive manufactured 304 stainless steel. International Journal of Advanced Manufacturing Technology, 2018, 99, 2353-2363. | 3.0 | 74 |
| 63 | On the Similarity of Deformation Mechanisms During Friction Stir Welding and Sliding Friction of the AA5056 Alloy. Russian Physics Journal, 2018, 60, 2123-2129. | 0.4 | 5 |
| 64 | Creation and Shaping of Three-Dimensional Ultrafine-Grain Materials. Russian Engineering Research, 2018, 38, 540-543. | 0.6 | 2 |
| 65 | Acoustic emission characterization of sliding wear under condition of direct and inverse transformations in low-temperature degradation aged Y-TZP and Y-TZP-AL2O3. Friction, 2018, 6, 323-340. | 6.4 | 17 |
| 66 | Octahedral slip in nickel single crystals induced by scratch testing. Letters on Materials, 2018, 8, 415-418. | 0.7 | 4 |
| 67 | The Effect of Equal-Channel Angular Pressing on the Surface Quality of Aluminum Alloy 7075 after Milling. Metal Working and Material Science, 2018, 20, 96-106. | 0.3 | 0 |
| 68 | Acoustic emission study of surface deterioration in tribocontacting. Applied Acoustics, 2017, 117, 106-112. | 3.3 | 37 |
| 69 | Adhesion transfer in sliding a steel ball against an aluminum alloy. Tribology International, 2017, 115, 191-198. | 5.9 | 72 |
| 70 | Cross section of the cut layer in oblique single-edge boring by a radial cutter. Russian Engineering Research, 2017, 37, 367-371. | 0.6 | 8 |
| 71 | Vibration and acoustic emission monitoring the stability of peakless tool turning: Experiment and modeling. Journal of Materials Processing Technology, 2017, 246, 224-234. | 6.3 | 55 |
| 72 | Friction-induced slip band relief of -Hadfield steel single crystal oriented for multiple slip deformation. Wear, 2017, 374-375, 5-14. | 3.1 | 40 |

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|----|---|-----|-----------|
| 73 | Mathematical support for automated geometry analysis of lathe machining of oblique peakless roundâ€“nose tools. Journal of Physics: Conference Series, 2017, 803, 012041. | 0.4 | 5 |
| 74 | Mechanical strength of multicomponent reinforced composite structures at different temperatures. AIP Conference Proceedings, 2017, , . | 0.4 | 1 |
| 75 | Tribological dry sliding behavior of chopped carbon fiber reinforced polyetheretherketone. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 76 | Sensors of vibration and acoustic emission for monitoring of boring with skiving cutters. Journal of Physics: Conference Series, 2017, 803, 012139. | 0.4 | 0 |
| 77 | Modal analysis of additive manufactured carbon fiber reinforced polymer composite: Experiment and modeling. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 78 | Towards the effect of acoustic emission (AE) sensor positioning within AE signal parameters in sliding on bulk ultrafine-grained materials. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 79 | Adhesion transfer layer formation in sliding on equal-channel angle pressed ultrafine grained AA6063. AIP Conference Proceedings, 2017, , . | 0.4 | 2 |
| 80 | Sliding dynamics on ultrafine grained Alâ€“6 wt % Mg made by equal channel single pressing. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 81 | Deformation relief evolution during sliding friction of Hadfield steel single crystal. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 82 | Deformation relief induced by scratch testing on the surface of Hadfield steel. AIP Conference Proceedings, 2017, , . | 0.4 | 3 |
| 83 | Structure formation of 5083 alloy during friction stir welding. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 84 | Experimental Research Into Generation of Acoustic Emission Signals in the Process of Friction of Hadfield Steel Single Crystals. IOP Conference Series: Materials Science and Engineering, 2016, 142, 012098. | 0.6 | 4 |
| 85 | Quality Estimation of Dry Grinding of Skiving Cutters With Organic Bonding Diamond Wheels. IOP Conference Series: Materials Science and Engineering, 2016, 142, 012099. | 0.6 | 1 |
| 86 | Modal analysis of additive manufactured carbon fiber reinforced polymer composite framework: Experiment and modeling. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 87 | Mechanical strength of additive manufactured carbon fiber reinforced polyetheretherketone. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 88 | Diagnostics of flexible workpiece using acoustic emission, acceleration and eddy current sensors in milling operation. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 89 | Oriented microtexturing on the surface of high-speed steel cutting tool. AIP Conference Proceedings, 2016, , . | 0.4 | 2 |
| 90 | An experimental modeling and acoustic emission monitoring of abrasive wear in a steel/diabase pair. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |

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|-----|---|-----|-----------|
| 91 | Towards identifying the dynamics of sliding by acoustic emission and vibration. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 92 | Cutting-force components in turning by tools with no cutting tip. Russian Engineering Research, 2016, 36, 1040-1043. | 0.6 | 3 |
| 93 | Application of 3D Computed Microtomography for Investigating the Microstructural Defects of Carbon Fiber Reinforced Composite Made by 3D-Printing. Key Engineering Materials, 2016, 712, 324-327. | 0.4 | 2 |
| 94 | Tensile strength on friction stir processed AMg5 (5083) aluminum alloy. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 95 | Experimental Study of Sliding Friction for PET Track Membranes. IOP Conference Series: Materials Science and Engineering, 2016, 125, 012020. | 0.6 | 5 |
| 96 | Cutting Edge Geometry Effect on Plastic Deformation of Titanium Alloy. IOP Conference Series: Materials Science and Engineering, 2016, 125, 012012. | 0.6 | 7 |
| 97 | Structure and tensile fracture of 1570C aluminum alloy. AIP Conference Proceedings, 2016, , . | 0.4 | 17 |
| 98 | Sterilization influence on PET track membrane properties. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 99 | Effect of adhesion transfer on the surface pattern regularity in nanostructuring burnishing. AIP Conference Proceedings, 2016, , . | 0.4 | 2 |
| 100 | Effect of friction stir welding parameters on defect formation. AIP Conference Proceedings, 2015, , . | 0.4 | 22 |
| 101 | Estimating the cutting force when skiving with a radius cutter. IOP Conference Series: Materials Science and Engineering, 2015, 91, 012060. | 0.6 | 9 |
| 102 | Experimental estimation of chip shrinkage under cup-tip cutting with straight and radius cutters. IOP Conference Series: Materials Science and Engineering, 2015, 91, 012061. | 0.6 | 9 |
| 103 | Cut-layer cross section in oblique turning by a single-edge tool with a curved front surface. Russian Engineering Research, 2015, 35, 381-384. | 0.6 | 5 |
| 104 | Cut-layer cross section in oblique turning by a single-edge tool with a curved rear surface. Russian Engineering Research, 2015, 35, 385-388. | 0.6 | 12 |
| 105 | Experimental study of chip shrinkage for radius rear surface turning tools. Proceedings of Higher Educational Institutions DæD°chine Building, 2015, , . | 0.2 | 0 |
| 106 | Cut-layer cross section in oblique turning. Russian Engineering Research, 2014, 34, 718-721. | 0.6 | 13 |
| 107 | Influence of Rake Angle Tool on Plastic Deformation in Chip Formation when Cutting. Applied Mechanics and Materials, 2014, 682, 525-529. | 0.2 | 12 |
| 108 | Constructing a Model of the Equivalent Wedge Oblique Cutting Edge. Applied Mechanics and Materials, 2013, 379, 139-144. | 0.2 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | The Use of Laser-Doppler Vibrometry for Modal Analysis of Carbon-Fiber Reinforced Composite. Key Engineering Materials, 0, 712, 313-318. | 0.4 | 3 |