

# Filippov Andrey

## List of Publications by Year in descending order

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109  
papers

904  
citations

516710

16  
h-index

526287

27  
g-index

109  
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109  
docs citations

109  
times ranked

370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of heat input on phase content, crystalline lattice parameter, and residual strain in wire-feed electron beam additive manufactured 304 stainless steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 2353-2363.	3.0	74
2	Adhesion transfer in sliding a steel ball against an aluminum alloy. <i>Tribology International</i> , 2017, 115, 191-198.	5.9	72
3	Microstructural evolution and chemical corrosion of electron beam wire-feed additively manufactured AISI 304 stainless steel. <i>Journal of Alloys and Compounds</i> , 2019, 803, 364-370.	5.5	72
4	Vibration and acoustic emission monitoring the stability of peakless tool turning: Experiment and modeling. <i>Journal of Materials Processing Technology</i> , 2017, 246, 224-234.	6.3	55
5	Friction-induced slip band relief of Hadfield steel single crystal oriented for multiple slip deformation. <i>Wear</i> , 2017, 374-375, 5-14.	3.1	40
6	Dry sliding of Hadfield steel single crystal oriented to deformation by slip and twinning: Deformation, wear, and acoustic emission characterization. <i>Tribology International</i> , 2018, 119, 1-18.	5.9	38
7	Controlling the porosity using exponential decay heat input regimes during electron beam wire-feed additive manufacturing of Al-Mg alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 2823-2838.	3.0	38
8	Acoustic emission study of surface deterioration in tribocontacting. <i>Applied Acoustics</i> , 2017, 117, 106-112.	3.3	37
9	Microstructural, mechanical and acoustic emission-assisted wear characterization of equal channel angular pressed (ECAP) low stacking fault energy brass. <i>Tribology International</i> , 2018, 123, 273-285.	5.9	28
10	Characterization of AA7075/AA5356 gradient transition zone in an electron beam wire-feed additive manufactured sample. <i>Materials Characterization</i> , 2021, 172, 110867.	4.4	25
11	Effect of friction stir welding parameters on defect formation. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	22
12	Detecting transition to chatter mode in peakless tool turning by monitoring vibration and acoustic emission signals. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 157-169.	3.0	22
13	The Features of Structure Formation in Chromium-Nickel Steel Manufactured by a Wire-Feed Electron Beam Additive Process. <i>Russian Physics Journal</i> , 2018, 61, 1491-1498.	0.4	18
14	Wear, vibration and acoustic emission characterization of sliding friction processes of coarse-grained and ultrafine-grained copper. <i>Wear</i> , 2019, 424-425, 78-88.	3.1	18
15	Structure and tensile fracture of 1570C aluminum alloy. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	17
16	Acoustic emission characterization of sliding wear under condition of direct and inverse transformations in low-temperature degradation aged Y-TZP and Y-TZP-AL2O3. <i>Friction</i> , 2018, 6, 323-340.	6.4	17
17	Strength and Ductility Improvement through Thermomechanical Treatment of Wire-Feed Electron Beam Additive Manufactured Low Stacking Fault Energy (SFE) Aluminum Bronze. <i>Metals</i> , 2020, 10, 1568.	2.3	17
18	Surface morphology of 321 stainless steel obtained by electron-beam wire-feed additive manufacturing technology. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	15

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19	Constructing a Model of the Equivalent Wedge Oblique Cutting Edge. Applied Mechanics and Materials, 2013, 379, 139-144.	0.2	13
20	Cut-layer cross section in oblique turning. Russian Engineering Research, 2014, 34, 718-721.	0.6	13
21	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
22	Wear of ZhS6U Nickel Superalloy Tool in Friction Stir Processing on Commercially Pure Titanium. Metals, 2020, 10, 799.	2.3	13
23	Influence of Rake Angle Tool on Plastic Deformation in Chip Formation when Cutting. Applied Mechanics and Materials, 2014, 682, 525-529.	0.2	12
24	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
25	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
26	Wire feed electron beam additive manufacturing of metallic components. AIP Conference Proceedings, 2018, , .	0.4	10
27	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
28	Estimating the cutting force when skiving with a radius cutter. IOP Conference Series: Materials Science and Engineering, 2015, 91, 012060.	0.6	9
29	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
30	Microstructure and tensile properties of Cu-Zn brass after severe plastic deformation. AIP Conference Proceedings, 2018, , .	0.4	9
31	Mechanical properties of stainless steel 321, obtained by the electron-beam additive technology. AIP Conference Proceedings, 2018, , .	0.4	9
32	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
33	Cutting Edge Geometry Effect on Plastic Deformation of Titanium Alloy. IOP Conference Series: Materials Science and Engineering, 2016, 125, 012012.	0.6	7
34	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
35	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
36	Structure formation in electron beam additive manufactured austenitic steel. AIP Conference Proceedings, 2018, , .	0.4	6

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37	Microstructure and Corrosion Resistance of AA4047/AA7075 Transition Zone Formed Using Electron Beam Wire-Feed Additive Manufacturing. <i>Materials</i> , 2021, 14, 6931.	2.9	6
38	The Effect of Heat Input, Annealing, and Deformation Treatment on Structure and Mechanical Properties of Electron Beam Additive Manufactured (EBAM) Silicon Bronze. <i>Materials</i> , 2022, 15, 3209.	2.9	6
39	Cut-layer cross section in oblique turning by a single-edge tool with a curved front surface. <i>Russian Engineering Research</i> , 2015, 35, 381-384.	0.6	5
40	Experimental Study of Sliding Friction for PET Track Membranes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 125, 012020.	0.6	5
41	Mathematical support for automated geometry analysis of lathe machining of oblique peakless round nose tools. <i>Journal of Physics: Conference Series</i> , 2017, 803, 012041.	0.4	5
42	On the Similarity of Deformation Mechanisms During Friction Stir Welding and Sliding Friction of the AA5056 Alloy. <i>Russian Physics Journal</i> , 2018, 60, 2123-2129.	0.4	5
43	Structural, Mechanical, and Tribological Characterization of Magnetic Pulse Compacted Fe-Cu Bimetallic Particles Produced by Electric Explosion of Dissimilar Metal Wires. <i>Metals</i> , 2019, 9, 1287.	2.3	5
44	Experimental Research Into Generation of Acoustic Emission Signals in the Process of Friction of Hadfield Steel Single Crystals. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 142, 012098.	0.6	4
45	Octahedral slip in nickel single crystals induced by scratch testing. <i>Letters on Materials</i> , 2018, 8, 415-418.	0.7	4
46	Material Transfer by Friction Stir Processing. <i>Springer Tracts in Mechanical Engineering</i> , 2021, , 169-188.	0.3	4
47	Investigation of the structural-phase state and mechanical properties of ZrCrN coatings obtained by plasma-assisted vacuum arc evaporation. <i>Metal Working and Material Science</i> , 2022, 24, 87-102.	0.3	4
48	The Use of Laser-Doppler Vibrometry for Modal Analysis of Carbon-Fiber Reinforced Composite. <i>Key Engineering Materials</i> , 0, 712, 313-318.	0.4	3
49	Cutting-force components in turning by tools with no cutting tip. <i>Russian Engineering Research</i> , 2016, 36, 1040-1043.	0.6	3
50	Deformation relief induced by scratch testing on the surface of Hadfield steel. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
51	Acoustic emission as method of chatter detection in cutting. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
52	Influence of axial force on the pure titanium surface relief during friction stir processing. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	3
53	FRICION BEHAVIOR OF ALUMINUM BRONZE REINFORCED BY BORON CARBIDE PARTICLES. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2021, 19, 051.	4.6	3
54	Oriented microtexturing on the surface of high-speed steel cutting tool. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2

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55	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
56	Effect of adhesion transfer on the surface pattern regularity in nanostructuring burnishing. AIP Conference Proceedings, 2016, , .	0.4	2
57	Adhesion transfer layer formation in sliding on equal-channel angle pressed ultrafine grained AA6063. AIP Conference Proceedings, 2017, , .	0.4	2
58	Relationship between acoustic emission and microcrack formation in single crystals of Hadfield steel. AIP Conference Proceedings, 2018, , .	0.4	2
59	Dynamic behavior of friction ultrafine-grained AA5052. AIP Conference Proceedings, 2018, , .	0.4	2
60	Creation and Shaping of Three-Dimensional Ultrafine-Grain Materials. Russian Engineering Research, 2018, 38, 540-543.	0.6	2
61	Surface Quality of AMg2 Aluminum Alloy with Ultrafine Grain Structure after Machining 2. Milling. Russian Engineering Research, 2019, 39, 436-438.	0.6	2
62	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
63	Modal analysis of additive manufactured carbon fiber reinforced polymer composite framework: Experiment and modeling. AIP Conference Proceedings, 2016, , .	0.4	1
64	Mechanical strength of additive manufactured carbon fiber reinforced polyetheretherketone. AIP Conference Proceedings, 2016, , .	0.4	1
65	Tensile strength on friction stir processed AMg5 (5083) aluminum alloy. AIP Conference Proceedings, 2016, , .	0.4	1
66	Mechanical strength of multicomponent reinforced composite structures at different temperatures. AIP Conference Proceedings, 2017, , .	0.4	1
67	Surface Quality of AMg2 Aluminum Alloy with Ultrafine Grain Structure after Machining. 1. Turning. Russian Engineering Research, 2018, 38, 1067-1070.	0.6	1
68	The annealing effect on scratch testing behavior of ultrafine-grained brass. AIP Conference Proceedings, 2018, , .	0.4	1
69	Scratch testing of coarse-grained and ultra fine-grained copper. AIP Conference Proceedings, 2018, , .	0.4	1
70	The effect of microstructure on a beryllium bronze wear. AIP Conference Proceedings, 2019, , .	0.4	1
71	Self-organization processes during deformation of nickel single crystals. Materials Characterization, 2020, 159, 110007.	4.4	1
72	Anisotropy of the mechanical properties of the aluminum bronze obtained by the electron beam additive manufacturing. AIP Conference Proceedings, 2020, , .	0.4	1

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73	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
74	An experimental study of the wear resistance of ferrite-pearlite steel printed by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , .	0.4	1
75	Structure and mechanical properties of ferritic-pearlite steel printed by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , .	0.4	1
76	Diagnostics of flexible workpiece using acoustic emission, acceleration and eddy current sensors in milling operation. AIP Conference Proceedings, 2016, , .	0.4	0
77	An experimental modeling and acoustic emission monitoring of abrasive wear in a steel/diabase pair. AIP Conference Proceedings, 2016, , .	0.4	0
78	Towards identifying the dynamics of sliding by acoustic emission and vibration. AIP Conference Proceedings, 2016, , .	0.4	0
79	Sterilization influence on PET track membrane properties. AIP Conference Proceedings, 2016, , .	0.4	0
80	Tribological dry sliding behavior of chopped carbon fiber reinforced polyetheretherketone. AIP Conference Proceedings, 2017, , .	0.4	0
81	Sensors of vibration and acoustic emission for monitoring of boring with skiving cutters. Journal of Physics: Conference Series, 2017, 803, 012139.	0.4	0
82	Modal analysis of additive manufactured carbon fiber reinforced polymer composite: Experiment and modeling. AIP Conference Proceedings, 2017, , .	0.4	0
83	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
84	Sliding dynamics on ultrafine grained Al-6 wt % Mg made by equal channel single pressing. AIP Conference Proceedings, 2017, , .	0.4	0
85	Deformation relief evolution during sliding friction of Hadfield steel single crystal. AIP Conference Proceedings, 2017, , .	0.4	0
86	Structure formation of 5083 alloy during friction stir welding. AIP Conference Proceedings, 2017, , .	0.4	0
87	The effect of equal channel angular pressing on structure and machining quality of AA5052. AIP Conference Proceedings, 2018, , .	0.4	0
88	Dynamic of friction on ultrafine-grained Cu-Zn brass. AIP Conference Proceedings, 2018, , .	0.4	0
89	Acoustic emission response to severe friction in deformation by cutting on metals and alloys. AIP Conference Proceedings, 2018, , .	0.4	0
90	Structural evolution of 321 stainless steel in electron beam freeform fabrication. Journal of Physics: Conference Series, 2018, 1115, 042049.	0.4	0

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91	The effect of annealing on structure and phase composition of ultrafine-grained AISI 321 stainless steel. AIP Conference Proceedings, 2018, , .	0.4	0
92	Dynamics of friction processes on stainless steel AISI 201 with coarse and ultrafine-grained structure. AIP Conference Proceedings, 2018, , .	0.4	0
93	Dynamics of friction processes on Alâ€“Znâ€“Mgâ€“Cu alloy with coarse-grained or ultrafine-grained structure. AIP Conference Proceedings, 2018, , .	0.4	0
94	Influence of crystallographic symmetry on the self-organization of plastic deformation in [111] nickel single crystals. AIP Conference Proceedings, 2018, , .	0.4	0
95	Selection of the severe plastic deformation mode for improving mechanical properties of AISI 201 steel. AIP Conference Proceedings, 2018, , .	0.4	0
96	Deformation relief on the surface of Hadfield steel single crystals, observed using a scratch test. AIP Conference Proceedings, 2018, , .	0.4	0
97	Infrared thermography inspection of severe friction on UFG stainless steel, copper and aluminum alloy. AIP Conference Proceedings, 2019, , .	0.4	0
98	Deformation behavior of Cu-1.5Co-3Al single crystals during sliding friction. AIP Conference Proceedings, 2019, , .	0.4	0
99	Indentation and scratch testing of coarse-grained and ultrafine-grained AA6063. AIP Conference Proceedings, 2019, , .	0.4	0
100	Nanoindentation on coarse-grained (CG) and ultrafine-grained (UFG) C11000 grade copper. AIP Conference Proceedings, 2019, , .	0.4	0
101	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
102	Experimental study of chip shrinkage for radius rear surface turning tools. Proceedings of Higher Educational Institutions ÐœÐ°chine Building, 2015, , .	0.2	0
103	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
104	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
105	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
106	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
107	Determination of sliding and twinning shear stress during microindentation of Hadfield steel single crystals. Letters on Materials, 2020, 10, 451-456.	0.7	0
108	Peculiarities of the boron carbide particles reinforced aluminum bronze manufactured by electron beam 3D printing. AIP Conference Proceedings, 2020, , .	0.4	0

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109	Influence of the Material Structure on the Deformed Surface Morphology. Metal Working and Material Science, 2020, 22, 90-101.	0.3	0