

# Andrey Vorontsov

## List of Publications by Year in descending order

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39  
papers

238  
citations

1163117

8  
h-index

1058476

14  
g-index

39  
all docs

39  
docs citations

39  
times ranked

104  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ultrasonic-assisted laser welding on AISI 321 stainless steel. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 875-886.	2.5	27
3	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
4	The microstructure, phase composition and tensile properties of austenitic stainless steel in a wire-feed electron beam melting combined with ultrasonic vibration. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141519.	5.6	19
5	Characterization of a Bimetallic Multilayered Composite "Stainless Steel/Copper" Fabricated with Wire-Feed Electron Beam Additive Manufacturing. <i>Metals</i> , 2021, 11, 1151.	2.3	13
6	Advanced high-strength AA5083 welds by high-speed hybrid laser-arc welding. <i>Materials Letters</i> , 2021, 291, 129594.	2.6	10
7	Structural evolution of contact parts of the friction stir processing heat-resistant nickel alloy tool used for multi-pass processing of Ti6Al4V/(Cu+Al) system. <i>Wear</i> , 2022, 488-489, 204138.	3.1	10
8	Microstructure and tensile properties of Cu-Zn brass after severe plastic deformation. <i>AIP Conference Proceedings</i> , 2018, . .	0.4	9
9	Features of Microstructure and Texture Formation of Large-Sized Blocks of C11000 Copper Produced by Electron Beam Wire-Feed Additive Technology. <i>Materials</i> , 2022, 15, 814.	2.9	9
10	Influence of Intense Bulk Plastic Deformation on the Roughness of a Milled AISI 321 Stainless Steel Surface. <i>Russian Engineering Research</i> , 2019, 39, 986-989.	0.6	7
11	The Influence of Multipass Friction Stir Processing on Formation of Microstructure and Mechanical Properties of Ti6Al4V Alloy. <i>Russian Journal of Non-Ferrous Metals</i> , 2022, 63, 167-176.	0.6	7
12	Subsurface multilayer evolution of ZrB <sub>2</sub> -SiC ceramics in high-speed sliding and adhesion transfer conditions. <i>Wear</i> , 2021, 482-483, 203956.	3.1	6
13	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
14	Structure and Phase Composition of Ti-6Al-4V Alloy Obtained by Electron-Beam Additive Manufacturing. <i>Russian Physics Journal</i> , 2019, 62, 1461-1468.	0.4	5
15	Production of Ti-1.5Al-1Mn Titanium Alloy Butt Joints by Friction Stir Welding. <i>Metals</i> , 2021, 11, 1566.	2.3	5
16	Outstanding features of high-speed hybrid laser-arc welding compared to high-speed laser welding of AA5059 aluminum alloys. <i>Vacuum</i> , 2022, 196, 110736.	3.5	5
17	Microstructural Evolution of AA5154 Layers Intermixed with Mo Powder during Electron Beam Wire-Feed Additive Manufacturing (EBAM). <i>Metals</i> , 2022, 12, 109.	2.3	5
18	Self-Lubricating Effect of WC/Y-TZP-Al <sub>2</sub> O <sub>3</sub> Hybrid Ceramic Matrix Composites with Dispersed Hadfield Steel Particles during High-Speed Sliding against an HSS Disk. <i>Lubricants</i> , 2022, 10, 140.	2.9	5

#	ARTICLE	IF	CITATIONS
19	Ultrasonic-assisted laser welding on ferrite-pearlite 09G2S (ASTM A516) steel. AIP Conference Proceedings, 2018, , .	0.4	4
20	In Situ Intermetallics-Reinforced Composite Prepared Using Multi-Pass Friction Stir Processing of Copper Powder on a Ti6Al4V Alloy. Materials, 2022, 15, 2428.	2.9	4
21	Acoustic emission as method of chatter detection in cutting. AIP Conference Proceedings, 2018, , .	0.4	3
22	Mechanical properties of ferrite-pearlite steel 09G2S welded joints obtained using ultrasonic-assisted laser welding. AIP Conference Proceedings, 2018, , .	0.4	3
23	Features of the Structural-Phase State of the Alloy Ti-6Al-4V in the Formation of Products using Wire-Feed Electron Beam Additive Manufacturing. Metal Working and Material Science, 2018, 20, 60-71.	0.3	3
24	Structure, Mechanical Properties and Friction Characteristics of the Al-Mg-Sc Alloy Modified by Friction Stir Processing with the Mo Powder Addition. Metals, 2022, 12, 1015.	2.3	3
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	The annealing effect on scratch testing behavior of ultrafine-grained brass. AIP Conference Proceedings, 2018, , .	0.4	1
27	Structure and mechanical properties of laser-arc hybrid welding of 13Mn6 steel welded with austenitic filler. IOP Conference Series: Materials Science and Engineering, 2019, 537, 022071.	0.6	1
28	Structure and mechanical properties of polymetallic samples from 321 stainless steel and C11000 copper obtained by the electron-beam 3D-printing. AIP Conference Proceedings, 2019, , .	0.4	1
29	Comparative Analysis of Structure and Mechanical Properties of Additive Objects Manufactured by Electron Beam Method and Cold Metal Transfer. Russian Journal of Non-Ferrous Metals, 2020, 61, 517-522.	0.6	1
30	Structural Features of Laser Welded 13Mn6 Constructional Steel. Metal Working and Material Science, 2018, 20, 123-133.	0.3	1
31	Acoustic emission response to severe friction in deformation by cutting on metals and alloys. AIP Conference Proceedings, 2018, , .	0.4	0
32	The effect of annealing on structure and phase composition of ultrafine-grained AISI 321 stainless steel. AIP Conference Proceedings, 2018, , .	0.4	0
33	Dynamics of friction processes on stainless steel AISI 201 with coarse and ultrafine-grained structure. AIP Conference Proceedings, 2018, , .	0.4	0
34	ON THE EVOLUTION OF THE MICROSTRUCTURE AND PHASE COMPOSITION IN THE FRICTION STIR WELDED AA 2024 ALLOY. Diagnostics Resource and Mechanics of Materials and Structures, 2018, , 127-139.	0.1	0
35	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
36	Structure and Mechanical Properties of Weld Metal Formed by Hybrid Laser-Arc Welding of 13Mn6 Steel. Metal Working and Material Science, 2019, 21, 84-96.	0.3	0

#	ARTICLE	IF	CITATIONS
37	Ultrasonic Laser Welding of AA5083 Aluminum-Magnesium Alloy. <i>Metal Working and Material Science</i> , 2019, 21, 83-96.	0.3	0
38	Stir zone material flow patterns during friction stir welding of heavy gauge AA5056 workpieces and stability of its mechanical properties. <i>Metal Working and Material Science</i> , 2021, 23, 140-154.	0.3	0
39	Production of gradient intermetallic layers based on aluminum alloy and copper by electron-beam additive technology. <i>Diagnostics Resource and Mechanics of Materials and Structures</i> , 2021, , 19-31.	0.1	0