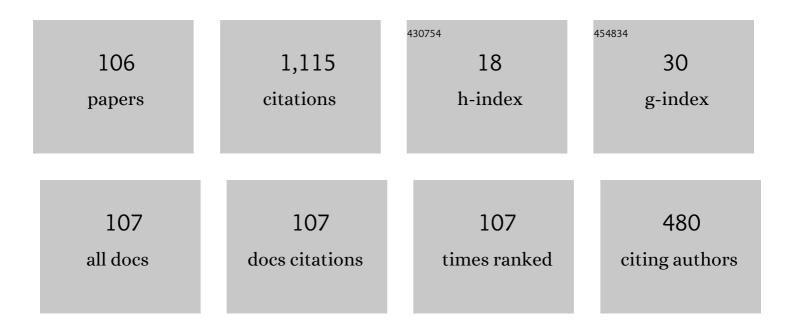
Valery E Rubtsov

List of Publications by Year in descending order

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VALEDY F PUBTSON

#	Article	IF	CITATIONS
1	Features of Microstructure and Texture Formation of Large-Sized Blocks of C11000 Copper Produced by Electron Beam Wire-Feed Additive Technology. Materials, 2022, 15, 814.	1.3	9
2	Regularities of Friction Stir Processing Hardening of Aluminum Alloy Products Made by Wire-Feed Electron Beam Additive Manufacturing. Metals, 2022, 12, 183.	1.0	7
3	Characterization of AA7075/AA5356 gradient transition zone in an electron beam wire-feed additive manufactured sample. Materials Characterization, 2021, 172, 110867.	1.9	25
4	Advanced high-strength AA5083 welds by high-speed hybrid laser-arc welding. Materials Letters, 2021, 291, 129594.	1.3	10
5	Structure and Mechanical Properties of Cu–Al–Si–Mn System-Based Copper Alloy Obtained by Additive Manufacturing. Russian Physics Journal, 2021, 64, 333-339.	0.2	7
6	Features of structure formation processes in AA2024 alloy joints formed by the friction stir welding with bobbin tool. Metal Working and Material Science, 2021, 23, 98-115.	0.0	0
7	In Situ Investigation of Strain Localization in Sintered, Porous Segmented Alumina. Materials, 2021, 14, 3720.	1.3	4
8	On the problem of tool destruction when obtaining fixed joints of thick-walled aluminum alloy blanks by friction welding with mixing. Metal Working and Material Science, 2021, 23, 72-83.	0.0	0
9	Electron-beam additive manufacturing of high-nitrogen steel: Microstructure and tensile properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141951.	2.6	13
10	Microstructure and Corrosion Resistance of AA4047/AA7075 Transition Zone Formed Using Electron Beam Wire-Feed Additive Manufacturing. Materials, 2021, 14, 6931.	1.3	6
11	The Effect of Phase Transformations During Electrom-Beam 3D-Printing and Post-Built Heat Treatment on Plastic Deformation and Fracture of Additively Manufactured High Nitrogen Cr–Mn Steel. Russian Physics Journal, 2021, 64, 1183-1190.	0.2	2
12	Mechanical properties and structure formation of aluminum-silicon alloys after friction stir processing. Diagnostics Resource and Mechanics of Materials and Structures, 2021, , 44-59.	0.1	1
13	The Influence of Phase Composition and Phase Distribution on Crack Formation and Fracture Mechanisms of Cr–Ni Steels Produced by the Method of 3D Electron-Beam Printing. Russian Physics Journal, 2020, 63, 917-925.	0.2	2
14	Wear of ZhS6U Nickel Superalloy Tool in Friction Stir Processing on Commercially Pure Titanium. Metals, 2020, 10, 799.	1.0	13
15	Microstructure and grain growth inhomogeneity in austenitic steel produced by wire-feed electron beam melting: the effect of post-building solid-solution treatment. Journal of Materials Science, 2020, 55, 9211-9224.	1.7	41
16	Gradient transition zone structure in "steel–copper―sample produced by double wire-feed electron beam additive manufacturing. Journal of Materials Science, 2020, 55, 9258-9272.	1.7	62
17	Structural Heredity of the Aluminum Alloy Obtained by the Additive Method and Modified Under Severe Thermomechanical Action on Its Final Structure and Properties. Russian Physics Journal, 2020, 62, 1565-1572.	0.2	5
18	THE EFFECT OF NIOBIUM ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF AUSTENITIC CrNi STEEL PRODUCED BY WIRE-FEED ELECTRON BEAM ADDITIVE MANUFACTURING. Nanoscience and Technology, 2020, 11, 109-118.	0.6	4

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19	Microstructure and phase composition of high-nitrogen steel fabricated by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , .	0.3	1
20	The Influence of the Rolling Direction of AA5056 on the Microstructure and Properties of Weld Joints obtained by Friction Stir Welding. Metal Working and Material Science, 2020, 22, 124-136.	0.0	0
21	Effect of Friction Stir Welding Mode and its Direction Relative to the Rolling Direction of 2024 Alloy on the Structure and Mechanical Properties of its Weld Joints. Metal Working and Material Science, 2020, 22, 110-123.	0.0	0
22	The influence of samples production parameters on the structure and mechanical properties of wrought aluminum alloys of the Al-Cu-Mg system. AIP Conference Proceedings, 2020, , .	0.3	0
23	The change in solidification mode and phase composition in "321 stainless Steel/NiCr Alloy―joint produced by Wire-feed electron beam melting. AlP Conference Proceedings, 2020, , .	0.3	0
24	The peculiarities of hydrogen embrittlement of Nb-alloyed stainless steel fabricated by electron-beam additive manufacturing. AlP Conference Proceedings, 2020, , .	0.3	0
25	Peculiarities of tensile deformation and fracture of high-nitrogen steel obtained by electron beam additive manufacturing. AIP Conference Proceedings, 2020, , .	0.3	0
26	The influence of the rolling direction of aluminum alloy AA2024 sheets on mechanical properties of welded joints produced at different friction stir welding modes. AIP Conference Proceedings, 2020, , .	0.3	0
27	Microstructure/mechanical properties relationship in high-nitrogen steel obtained by electron beam additive manufacturing and conventional casting. AIP Conference Proceedings, 2020, , .	0.3	Ο
28	Microstructure and phase composition of vanadium-alloyed high-nitrogen steel fabricated by additive manufacturing. AIP Conference Proceedings, 2020, , .	0.3	2
29	Investigating vibration characteristics of magnetostrictive transducers for air-coupled ultrasonic NDT of composites. NDT and E International, 2019, 107, 102151.	1.7	16
30	Ultrasonic assisted second phase transformations under severe plastic deformation in friction stir welding of AA2024. Materials Today Communications, 2019, 21, 100660.	0.9	10
31	Ultrasonic-assisted laser welding on AISI 321 stainless steel. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 875-886.	1.3	27
32	Flux-cored wire for additive manufacturing of parts with gradient structure. AIP Conference Proceedings, 2019, , .	0.3	2
33	A comparative study of the macroscopical and microscopical fracture mechanisms in cast and additively manufactured austenitic stainless steels. AIP Conference Proceedings, 2019, , .	0.3	2
34	Corrosion resistance of Fe-Cr-Ni-Mn-Mo-Ti steel produced by electron beam additive manufacturing with powder-cored wire and ferritic steel substrate. AIP Conference Proceedings, 2019, , .	0.3	1
35	Peculiarities of Structure Formation in Copper/Steel Bimetal Fabricated by Electron-Beam Additive Technology. Russian Physics Journal, 2019, 62, 1486-1494.	0.2	20
36	Effect of feed speed on the quality of titanium-aluminum bimetal produced by friction stir welding. AIP Conference Proceedings, 2019, , .	0.3	1

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37	On the influence of post-built heat treatment on strength and ductility of AISI 304 steel produced by electron-beam additive technology. AIP Conference Proceedings, 2019, , .	0.3	1
38	Manufacture of aluminum-steel bimetal by friction stir welding. AIP Conference Proceedings, 2019, , .	0.3	0
39	Structure and Phase Composition of Ti–6Al–4V Alloy Obtained by Electron-Beam Additive Manufacturing. Russian Physics Journal, 2019, 62, 1461-1468.	0.2	5
40	Microstructural inhomogeneity of phase composition and grain structure in electron beam wire-feed additive manufactured AISI 304 stainless steel. AIP Conference Proceedings, 2019, , .	0.3	4
41	Anisotropy of the tensile properties in austenitic stainless steel obtained by wire-feed electron beam additive growth. Letters on Materials, 2019, 9, 460-464.	0.2	15
42	Application for the Way of Ultrasonic Assistance Input and Estimation of its Efficiency for Friction Stir Welding of Aluminum Alloys. Metal Working and Material Science, 2019, 21, 40-52.	0.0	0
43	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.	0.0	Ο
44	Distribution of Temperature along Axis of the Steel Sample at Sliding under Electric Current against Steel Counterbody. Metal Working and Material Science, 2019, 21, 136-144.	0.0	0
45	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.	3.0	28
46	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.	1.5	22
47	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.	1.5	74
48	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.	0.0	3
49	Structural Features of Laser Welded 13Mn6 Constructional Steel. Metal Working and Material Science, 2018, 20, 123-133.	0.0	1
50	Ultrasonic-assisted aging in friction stir welding on Al-Cu-Li-Mg aluminum alloy. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 679-690.	1.3	68
51	Acoustic emission study of surface deterioration in tribocontacting. Applied Acoustics, 2017, 117, 106-112.	1.7	37
52	Vibration and acoustic emission monitoring the stability of peakless tool turning: Experiment and modeling. Journal of Materials Processing Technology, 2017, 246, 224-234.	3.1	55
53	Mechanical strength of multicomponent reinforced composite structures at different temperatures. AIP Conference Proceedings, 2017, , .	0.3	1
54	Tribological dry sliding behavior of chopped carbon fiber reinforced polyetheretherketone. AIP Conference Proceedings, 2017, , .	0.3	0

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55	Friction-stir processed ultrafine grain high-strength Al-Mg alloy material. AIP Conference Proceedings, 2017, , .	0.3	15
56	Dry slipping steel–steel contact at high current density. Steel in Translation, 2017, 47, 17-20.	0.1	0
57	Modal analysis of additive manufactured carbon fiber reinforced polymer composite: Experiment and modeling. AIP Conference Proceedings, 2017, , .	0.3	0
58	Structural evolution of multiple friction stir processed AA2024. AIP Conference Proceedings, 2017, , .	0.3	16
59	High-strength friction stir processed dispersion hardened Al-Cu-Mg alloy. AIP Conference Proceedings, 2017, , .	0.3	18
60	AA2024 microstructural evolution after bidirectional friction stir processing. AIP Conference Proceedings, 2017, , .	0.3	4
61	Effect of Main Parameters of the Friction Stir Welding on Structure Imperfections of Welded Joint. Metal Working and Material Science, 2017, , 19-29.	0.0	0
62	Surface layer structure of AISI 1020 steel at different stages of dry sliding under electric current of high density. IOP Conference Series: Materials Science and Engineering, 2016, 116, 012022.	0.3	1
63	Wear Resistance of Friction Pair of Metal Composite/Copper under Electric Current. IOP Conference Series: Materials Science and Engineering, 2016, 156, 012027.	0.3	7
64	Quality Estimation of Dry Grinding of Skiving Cutters With Organic Bonding Diamond Wheels. IOP Conference Series: Materials Science and Engineering, 2016, 142, 012099.	0.3	1
65	Surface layer structure and average contact temperature of copper-containing materials under dry sliding with high electric current density. AIP Conference Proceedings, 2016, , .	0.3	Ο
66	Modal analysis of additive manufactured carbon fiber reinforced polymer composite framework: Experiment and modeling. AIP Conference Proceedings, 2016, , .	0.3	1
67	Microstructure of Fixed Butt Joints Formed by Friction Stir Welding on 2024T3 Aluminum Alloy. Key Engineering Materials, 2016, 683, 203-208.	0.4	4
68	Application of 3D Сomputed 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
69	Tensile strength on friction stir processed AMg5 (5083) aluminum alloy. AIP Conference Proceedings, 2016, , .	0.3	1
70	Structure and Worn Surface Morphology on Copper Containing Composites under Dry Sliding with High Contact Current Density. Key Engineering Materials, 2016, 712, 137-142.	0.4	2
71	Energy of surface layer deterioration of copper-based materials under dry sliding with high electric current density. AIP Conference Proceedings, 2016, , .	0.3	0
72	Energy of the surface layer deterioration of 1020 steel and copper at dry sliding against 1045 steel with a high electric current density. AlP Conference Proceedings, 2016, , .	0.3	0

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73	Mechanical strength characterization of three-component composite structural components. AIP Conference Proceedings, 2016, , .	0.3	0
74	Structure and tensile fracture of 1570C aluminum alloy. AIP Conference Proceedings, 2016, , .	0.3	17
75	Mechanical properties of three-component additive manufactured composites at elevated and cool temperatures. AIP Conference Proceedings, 2016, , .	0.3	0
76	Effect of Ultrasonic Application during Friction Stir Welding on Microstructure and Properties of AA2024 Fixed Joints. Key Engineering Materials, 2016, 683, 227-231.	0.4	17
77	Radioscopy of remnant joint line in a friction stir welded seam. Russian Journal of Nondestructive Testing, 2015, 51, 573-579.	0.3	11
78	Morphological features of the copper surface layer under sliding with high density electric current. AIP Conference Proceedings, 2015, , .	0.3	3
79	Effect of friction stir welding parameters on defect formation. AIP Conference Proceedings, 2015, , .	0.3	22
80	Ultrasonic-assisted friction stir welding on V95AT1 (7075) aluminum alloy. AIP Conference Proceedings, 2015, , .	0.3	5
81	Friction stir processing on high carbon steel U12. AIP Conference Proceedings, 2015, , .	0.3	0
82	Structure and properties of fixed joints formed by ultrasonic-assisted friction-stir welding. AIP Conference Proceedings, 2015, , .	0.3	9
83	Microstructure of AA 2024 fixed joints formed by friction stir welding. AIP Conference Proceedings, 2015, , .	0.3	3
84	Diffusion-controlled wear of steel friction stir welding tools used on aluminum alloys. AIP Conference Proceedings, 2015, , .	0.3	12
85	About wear and average surface temperature of copper or steel contacts at sliding current collection. AIP Conference Proceedings, 2015, , .	0.3	3
86	General regularities of the microstructure formation during friction stir welding and sliding friction. Journal of Friction and Wear, 2015, 36, 127-131.	0.1	33
87	Friction-Burnishing Treatment of Medium-Carbon Steel. Metal Science and Heat Treatment, 2015, 57, 334-338.	0.2	0
88	Features of the microstructure development under conditions, reproducing the process of friction stir welding. Molecular-dynamics study. , 2014, , .		0
89	Thermography inspection of friction stir welding. , 2014, , .		17
90	Ultrasonic phase array and eddy current methods for diagnostics of flaws in friction stir welds. , 2014, , .		2

#	Article	IF	CITATIONS
91	The microstructure of aluminum-magnesium alloy friction stir weld. , 2014, , .		1
92	Friction stir processing on carbon steel. , 2014, , .		2
93	Radiographic detection of defects in friction stir welding on aluminum alloy AMg5M. AIP Conference Proceedings, 2014, , .	0.3	6
94	Ultrasonic impact treatment of the welded joint of aluminum-magnesium alloy produced by friction stir welding. AIP Conference Proceedings, 2014, , .	0.3	9
95	The effect of friction stir welding tool wear on the weld quality of aluminum alloy AMg5M. AIP Conference Proceedings, 2014, , .	0.3	5
96	A proposed diffusion-controlled wear mechanism of alloy steel friction stir welding (FSW) tools used on an aluminum alloy. Wear, 2014, 318, 130-134.	1.5	75
97	Using acoustic emission for the analysis of wear processes during sliding friction. Technical Physics Letters, 2013, 39, 223-225.	0.2	31
98	One-dimensional model of inhomogeneous shear in sliding. Physical Mesomechanics, 2012, 15, 337-341.	1.0	25
99	Shear instability in the subsurface layer of a material in friction. Physics of the Solid State, 2011, 53, 358-362.	0.2	26
100	Subsurface shear instability and nanostructuring of metals in sliding. Wear, 2010, 268, 59-66.	1.5	50
101	Effect of heat generation due to plastic deformation on behavior of surface-layer material during sliding. Journal of Friction and Wear, 2009, 30, 324-328.	0.1	8
102	Plastic deformation and quasi-periodic vibrations in a tribological system. Technical Physics, 2004, 49, 1457-1463.	0.2	17
103	Study of the formation of contact between rough surfaces based on the particle method. Technical Physics Letters, 1998, 24, 178-179.	0.2	15
104	The Use of Laser-Doppler Vibrometry for Modal Analysis of Carbon-Fiber Reinforced Composite. Key Engineering Materials, 0, 712, 313-318.	0.4	3
105	Mechanical Properties of Ultrafine-Grained Al-Mg Alloy Produced by Severe Plastic Deformation. Key Engineering Materials, 0, 743, 203-206.	0.4	9
106	Fabrication of Conically Shaped CuCr1 Chrome Bronze Products by Wire-Feed Electron Beam Additive Manufacturing. Materials Science Forum, 0, 1049, 24-30.	0.3	0