Ruslan Barkov

List of Publications by Year
in descending order

33	696	471509 17	552781 26
papers	citations	h-index	g-index

33	33	33	153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Zr on Microstructure and Mechanical Properties of the Alâ€“Cuâ€“Yb and Alâ€“Cuâ€“Gd Alloys. Metals, 2022, 12, 479.	2.3	12
2	Phase composition and mechanical properties of Al-Si based alloys with Yb or Gd addition. Materials Letters, 2022, 320, 132320.	2.6	3
3	Novel precipitation strengthened Al-Y-Sc-Er alloy with high mechanical properties, ductility and electrical conductivity produced by different thermomechanical treatments. Journal of Alloys and Compounds, 2022, 918, 165748.	5.5	10
4	Structure and Properties of Alâ€“4.5Mgâ€“0.15Zr Compositions Alloyed with Er, Y, and Yb. Physics of Metals and Metallography, 2022, 123, 466-473.	1.0	6
5	Effect of Mn Addition on the Phase Composition and Strengthening Behavior of AlCuYbZr and AlCuGdZr Alloys. Jom, 2022, 74, 3646-3654.	1.9	5
6	Effects of thermomechanical treatment on the microstructure, precipitation strengthening, internal friction, and thermal stability of Alâ€“Er-Yb-Sc alloys with good electrical conductivity. Journal of Alloys and Compounds, 2021, 855, 157367.	5.5	35
7	Effect of Zr and Er Small Additives on the Phase Composition and Mechanical Properties of Alâ€“5Siâ€“1.3Cuâ€“0.5Mg Alloy. Physics of Metals and Metallography, 2021, 122, 161-168.	1.0	11
8	Microstructure and Mechanical Properties of Novel Quasibinary Al-Cu-Yb and Al-Cu-Gd Alloys. Metals, 2021, 11, 476.	2.3	13
9	Flow Stress Modelling and 3D Processing Maps of Al4.5Zn4.5Mg1Cu0.12Zr Alloy with Different Scandium Contents. Applied Sciences (Switzerland), 2021, 11, 4587.	2.5	11
10	Effect of the Zr and Er Content on the Structure and Properties of the Alâ€“5Siâ€“1.3Cuâ€“0.5Mg Alloy. Physics of Metals and Metallography, 2021, 122, 614-620.	1.0	8
11	Effect of Homogenization Treatment Regime on Microstructure, Recrystallization Behavior, Mechanical Properties, and Superplasticity of Al-Cu-Er-Zr Alloy. Jom, 2021, 73, 3092-3101.	1.9	18
12	Structure and Properties of New Heat-Resistant Cast Alloys Based on the Alâ€“Cuâ€“Y and Alâ€“Cuâ€“Er Systems. Physics of Metals and Metallography, 2021, 122, 908-914.	1.0	23
13	Hot Deformation Behavior of Novel Al-Cu-Y(Er)-Mg-Mn-Zr Alloys. Metals, 2021, 11, 1521.	2.3	5
14	Structure and Properties of New Wrought Alâ€“Cuâ€“Y- and Alâ€“Cuâ€“Er-Based Alloys. Physics of Metals and Metallography, 2021, 122, 915-922.	1.0	20
15	Microstructure and mechanical properties of novel Al-Y-Sc alloys with high thermal stability and electrical conductivity. Journal of Materials Science and Technology, 2020, 36, 1-6.	10.7	35
16	Effect of Zr on microstructure and mechanical properties of the Alâ€“Cuâ€“Er alloy. Materials Science and Technology, 2020, 36, 453-459.	1.6	38
17	Effect of Yb on the Structure and Properties of an Electroconductive Alâ€“Yâ€“Sc Alloy. Physics of Metals and Metallography, 2020, 121, 604-609.	1.0	17
18	The Phase Composition and Mechanical Properties of the Novel Precipitation-Strengthening Al-Cu-Er-Mn-Zr Alloy. Applied Sciences (Switzerland), 2020, 10, 5345.	2.5	28

#	Article	IF	Citations
19	Effect of Impurities on the Phase Composition and Properties of a Wrought Alâ€“6% Cuâ€“4.05% Er Alloy. Physics of Metals and Metallography, 2020, 121, 495-499.	1.0	14
20	Comparative Analysis of Structure and Properties of Quasibinary Alâ€“6.5Cuâ€“2.3Y and Alâ€“6Cuâ€“4.05Er Alloys. Physics of Metals and Metallography, 2020, 121, 476-482.	1.0	28
21	Influence of Yb on the Phase Composition and Mechanical Properties of Low-Scandium Alâ€“Mgâ€“Mnâ€“Zrâ€“Sc and Alâ€“Mgâ€“Crâ€“Zrâ€“Sc Alloys. Physics of Metals and Metallography, 2020, 121, 84-88.	1.0	9
22	Effect of Iron and Silicon Impurities on Phase Composition and Mechanical Properties of Alâ€“6.3Cuâ€“3.2Y Alloy. Physics of Metals and Metallography, 2020, 121, 1002-1007.	1.0	12
23	Effect of Mn on the Phase Composition and Properties of Alâ€“Cuâ€“Yâ€“Zr Alloy. Physics of Metals and Metallography, 2020, 121, 1227-1232.	1.0	20
24	Evolution of Microstructure and Mechanical Properties of a New Alâ€“Cuâ€“Er Wrought Alloy. Physics of Metals and Metallography, 2019, 120, 614-619.	1.0	34
25	Microstructure and Mechanical Properties of an Al â€“ Mg â€“ Mn â€“ Zr â€“ Sc â€“ B4C Deformable Composite Material. Metal Science and Heat Treatment, 2019, 61, 239-242.	0.6	0
26	Effect of Impurities on the Phase Composition and Properties of a New Alloy of the Alâ€“Yâ€“Erâ€“Zrâ€“Sc System. Metallurgist, 2019, 63, 79-86.	0.6	18
27	Microstructure, mechanical properties and superplasticity of the Alâ€“Cuâ€“Yâ€“Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 758, 28-35.	5.6	50
28	Warm Deformation of Alloy Al â€“ 4.7% Mg â€“ 0.32% Mn â€“ 0.21% Sc â€“ 0.09% Zr. Metal Science and Heat Treatment, 2019, 61, 416-420.	0.6	0
29	Effect of Y on microstructure and mechanical properties of Al-Mg-Mn-Zr-Sc alloy with low Sc content. Materials Letters, 2018, 217, 135-138.	2.6	29
30	Microstructure and materials characterisation of the novel Alâ€“Cuâ€“Y alloy. Materials Science and Technology, 2018, 34, 1489-1496.	1.6	47
31	Effect of Zr on the microstructure, recrystallization behavior, mechanical properties and electrical conductivity of the novel Al-Er-Y alloy. Journal of Alloys and Compounds, 2018, 765, 1-6.	5.5	58
32	Microstructure and mechanical properties of novel Al-Mg-Mn-Zr-Sc-Er alloy. Materials Letters, 2017, 202, 116-119.	2.6	39
33	Microstructure and material characterization of 6063/B4C and 1545K/B4C composites produced by two stir casting techniques for nuclear applications. Journal of Alloys and Compounds, 2016, 664, 317-320.	5.5	40