Andrey Bazlov

List of Publications by Year
in descending order

65	748	516681 16	610883 24
papers	citations	h-index	g-index

66	66	66	660
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanostructured Zr-Pd Metallic Glass Thin Film for Biochemical Applications. Scientific Reports, 2015, 5, 7799.	3.3	56
2	Nanocrystallization, good soft magnetic properties and ultrahigh mechanical strength for Fe82-85B13-16Si1Cu1 amorphous alloys. Journal of Alloys and Compounds, 2019, 785, 25-37.	5.5	56
3	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
4	Crystal growth limitation as a critical factor for formation of Fe-based bulk metallic glasses. Acta Materialia, 2015, 82, 396-402.	7.9	33
5	Diffusionless nature of D0 3 Âà†'ÂL1 2 transition in Fe 3 Ga alloys. Journal of Alloys and Compounds, 2016, 656, 897-902.	5.5	31
6	Soft magnetic properties of Fe82-83B14-15Si2C0.5-1 amorphous alloys with high saturation magnetization above 1.7 T. Journal of Non-Crystalline Solids, 2018, 500, 173-180.	3.1	30
7	Crystallization behavior of Fe- and Co-based bulk metallic glasses and their glass-forming ability. Materials Chemistry and Physics, 2015, 162, 197-206.	4.0	29
8	Phase separation process preventing thermal embrittlement of a Zr-Cu-Fe-Al bulk metallic glass. Scripta Materialia, 2019, 167, 31-36.	5.2	29
9	Structure and anelasticity of Fe3Ga and Fe3(Ga,Al) type alloys. Journal of Alloys and Compounds, 2015, 644, 959-967.	5.5	27
10	High-Frequency soft magnetic properties of Fe-Si-B-P-Mo-Cu amorphous and nanocrystalline alloys. Journal of Non-Crystalline Solids, 2019, 526, 119702.	3.1	27
11	Phase transformations in Zr-based bulk metallic glass cyclically loaded before plastic yielding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 358-362.	5.6	22
12	Effects of small additions of Zn on the microstructure, mechanical properties and corrosion resistance of WE43B Mg alloys. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 858-868.	4.9	20
13	Microstructure, mechanical properties, and crystallization behavior of Zr-based bulk metallic glasses prepared under a low vacuum. Journal of Alloys and Compounds, 2016, 654, 87-94.	5.5	19
14	Ordering processes in Fe-Ga alloys studied by positron annihilation lifetime spectroscopy. Materials Letters, 2016, 171, 46-49.	2.6	17
15	Unusual crystallization of Al85Y8Ni5Co2 metallic glass observed in situ in TEM at different heating rates. Intermetallics, 2018, 94, 192-199.	3.9	16
16	Effect of Nb Addition on Microstructure and Thermal and Mechanical Properties of Fe-Co-Ni-Cu-Cr Multiprincipal-Element (High-Entropy) Alloys in As-Cast and Heat-Treated State. Jom, 2019, 71, 3481-3489.	1.9	16
17	Excellent magnetic properties of (Fe0.7Co0.3)83.7Si4B8P3.6Cu0.7 ribbons and microwires. Intermetallics, 2020, 117, 106660.	3.9	16
18	Hydrothermal microwaveâ€assisted synthesis of LaFeO₃ catalyst for N₂O decomposition. Journal of the American Ceramic Society, 2021, 104, 492-503.	3.8	15

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19	Structure and mechanical properties of Ni-Cu-Ti-Zr composite materials with amorphous phase. Physics of Metals and Metallography, 2013, 114, 773-778.	1.0	12
20	Characterization of nanostructured Cu Cr bulk composites prepared by high-energy mechanical alloying. Materials Chemistry and Physics, 2016, 177, 1-7.	4.0	12
21	Effect of high-pressure torsion on the tendency to plastic flow in bulk amorphous alloys based on Zr. Materials Letters, 2019, 256, 126631.	2.6	12
22	Processing and Microstructural Characterization of Metallic Powders Produced from Chips of AA2024 Alloy. Jom, 2019, 71, 2986-2995.	1.9	11
23	Fabrication of AA2024/SiCp Metal Matrix Composite by Mechanical Alloying. Metals and Materials International, 2022, 28, 811-822.	3.4	11
24	On Temperature Rise Within the Shear Bands in Bulk Metallic Glasses. Metals and Materials International, 2018, 24, 481-488.	3.4	10
25	Microstructural Characterization and Tensile Properties of Al-Mg-Fe-Ce Alloy at Room and Elevated Temperatures. Jom, 2020, 72, 1619-1626.	1.9	10
26	Investigation of the Structure and Properties of the Fe-Ni-Co-Cu-V Multiprincipal Element Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5646-5652.	2.2	9
27	Low-Cost Mechanically Alloyed Copper-Based Composite Reinforced with Silicate Glass Particles for Thermal Applications. Jom, 2019, 71, 995-1001.	1.9	9
28	Thermo-mechanical processing of a Zr62.5Cu22.5Fe5Al10 glassy alloy as a way to obtain tensile ductility. Journal of Alloys and Compounds, 2021, 853, 157138.	5.5	9
29	Development of mathematical models of superplasticity properties as a function of parameters of aluminum alloys of Al-Mg-Si system. Physics of Metals and Metallography, 2013, 114, 272-278.	1.0	8
30	Formation of a phase separated structure in the Zrâ€“Cuâ€“Feâ€“Al alloys by thermo-mechanical processing. Intermetallics, 2021, 135, 107224.	3.9	8
31	Effect of Heat Treatment on the Mechanical and Corrosion Properties of Mgâ€“Znâ€“Ga Biodegradable Mg Alloys. Materials, 2021, 14, 7847.	2.9	8
32	Glass-formation and deformation behavior of Niâ€“Pdâ€“Pâ€“B alloy. Journal of Alloys and Compounds, 2015, 619, 509-512.	5.5	7
33	Influence of Al₃Ni crystallisation origin particles on hot deformation behaviour of aluminium based alloys. Philosophical Magazine, 2017, 97, 572-590.	1.6	7
34	Tunable Magnetic Properties of Glass-Coated Microwires by Initial Technical Parameters. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	7
35	Quantitative characteristics of shear bands formed upon deformation in bulk amorphous Zr-based alloy. Materials Letters, 2020, 281, 128659.	2.6	7
36	Comparative analysis of the structure of palladium-based bulk metallic glasses prepared by treatment of melts with flux. Physics of the Solid State, 2013, 55, 1985-1990.	0.6	6

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37	Controlling the Curie temperature in amorphous glass coated microwires by heat treatment. Journal of Alloys and Compounds, 2019, 802, 36-40.	5.5	6
38	Significant Mechanical Softening of an Al-Y-Ni-Co Metallic Glass on Cold and Hot Rolling. Jom, 2019, 71, 4079-4085.	1.9	6
39	Evolution of the Zr42.5Đ¡u42.5Al10Fe5 amorphous alloy structure during the HPT process. Journal of Non-Crystalline Solids, 2022, 576, 121220.	3.1	6
40	Effect of Multiple Alloying Elements on the Glass-Forming Ability, Thermal Stability, and Crystallization Behavior of Zr-Based Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 644-651.	2.2	5
41	Study of the Change in the Structure and Properties of High-Entropic Alloys during Thermal and Thermomechanical Processing. Russian Journal of Non-Ferrous Metals, 2020, 61, 413-420.	0.6	5
42	Microstructure and Hardness Evolution of Al8Zn7Ni3Mg Alloy after Casting at very Different Cooling Rates. Metals, 2020, 10, 762.	2.3	5
43	Influence of Cold Rolling Process and Chemical Composition on the Mechanical Properties and Corrosion Behavior of Zr-Based Metallic Glasses. Metals, 2021, 11, 1514.	2.3	5
44	Crystallization and its kinetics of soft magnetic (Fe1â^'xNix)79B12P5Si3C1 glassy alloy ribbons. Journal of Alloys and Compounds, 2021, 888, 161475.	5.5	5
45	Study of the structure and properties of a wrought Alâ€“Mgâ€“Mn aluminum alloy on a Gleeble 3800 simulator designed for physical modeling of thermomechanical processes. Metallurgist, 2012, 56, 618-623.	0.6	4
46	Investigation and simulation of crystallization of bulk zirconium-based metallic glasses. Russian Journal of Non-Ferrous Metals, 2014, 55, 31-36.	0.6	4
47	Studies of the structure and mechanical properties of Ti43.2Zr7.8Cu40.8Ni7.2Co1 alloy containing amorphous and crystalline phases. Physics of Metals and Metallography, 2015, 116, 684-689.	1.0	4
48	Aluminum Alloy Matrix Composite Reinforced with Metallic Glasses Particles Using Hot-Roll Bonding. Russian Journal of Non-Ferrous Metals, 2020, 61, 297-302.	0.6	4
49	Influence of Y and Zr on TiAl43Nb4Mo1B0.1 titanium aluminide microstructure and properties. Materials Science and Technology, 2020, 36, 548-555.	1.6	4
50	Effect of Cu addition on microstructural evolution and hardening of mechanically alloyed Alâ^'Tiâ^'O in-situ composite. Transactions of Nonferrous Metals Society of China, 2020, 30, 1135-1147.	4.2	3
51	Replacement effect with Ni on high-frequency permeability and core loss characteristics for FeNiPBSiC glassy alloys. Journal of Alloys and Compounds, 2022, 896, 163085.	5.5	3
52	Novel Zr-Rich Alloys of Ternary Ti-Zr-Nb System with Large Superelastic Recovery Strain. Metals, 2022, 12, 185.	2.3	3
53	Simulation of Flow Stress of Single-Phase Aluminum Alloys of the Al â€“ Mg, Al â€“ Cu and Al â€“ Zn Systems in the Process of Hot Deformation. Metal Science and Heat Treatment, 2013, 55, 393-396.	0.6	2
54	Influence of Annealing at Various Temperatures on the Structure and Hardness of Amorphous Ribbons of the Al85Y8Ni5Co2 Alloy. Russian Journal of Non-Ferrous Metals, 2018, 59, 520-526.	0.6	2

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55	Character of the Distribution of Shear Bands According to the Volume of a Sample of Amorphous Alloy Based on Zr after Torsion under Pressure in a Bridgeman Chamber. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 782-790.	0.6	2
56	Effect of High-Temperature Rolling and Annealing on the Structure and Properties of a Zirconium Based Amorphous Alloy. Physics of Metals and Metallography, 2021, 122, 789-793.	1.0	2
57	The Study of Structural Changes in Homogenized High-Entropy Alloys. Physical Mesomechanics, 2021, 24, 663-673.	1.9	2
58	Effect of Melt Spinning and Nitriding on the Structure and Magnetic Hysteresis Properties of (Nd1) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	1
59	Structure and magnetic hysteresis Properties of NdFe₁₁ Ti based alloys and their nitrides after different methods of obtaining. Journal of Physics: Conference Series, 2019, 1238, 012006.	0.4	1
60	Evolution of Shear Bands in the Structure of a Zirconium-Based Amorphous Alloy during Rolling at Different Temperatures. Physics of Metals and Metallography, 2021, 122, 121-126.	1.0	1
61	EFFECT OF SCRAP USING IN CHARGE ON THE STRUCTURE AND PROPERTIES OF ZhS6U NICKEL-BASED SUPERALLOY. PART 1. MICROSTRUCTURE ANALYSIS AND PHASE COMPOSITION OF ZhS6U ALLOY PREPARED WITH SCRAP. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2019, 62, 360-365.	0.3	1
62	Structure and magnetic hysteresis properties of rapidly quenched Nd_{1-x}Ce_x(Fe_{0.75}Co_{0.25})₁₁Ti(x = 0-0.3) based alloys after annealing. Journal of Physics: Conference Series, 2018, 1134, 012074.	0.4	0
63	Thermophysical Properties of the Fe48Cr15Mo14C15B6Y2 Alloy in Liquid State. Metals, 2021, 11, 823.	2.3	0
64	Effect of scrap using in charge on the microstructure and properties of ZhS6U nickel-based superalloy. Part 2. Structure analysis and mechanical properties of ZhS6U prepared with scrap. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2019, 62, 525-530.	0.3	0
65	Effect of manganese addition on thermal and electrical properties of Zr45Cu45Al10 metallic glass. Journal of Non-Crystalline Solids, 2020, 542, 120103.	3.1	0