Iurii Bogomol

List of Publications by Year in descending order

34 papers	586 citations	687363 13 h-index	642732 23 g-index
34 all docs	34 docs citations	34 times ranked	336 citing authors

#	Article	IF	Citations
1	Microstructure and high-temperature strength of B4Câ€“TiB2 composite prepared by a crucibleless zone melting method. Journal of Alloys and Compounds, 2009, 485, 677-681.	5.5	61
2	Structure formation and mechanical properties of the high-entropy AlCuNiFeCr alloy prepared by mechanical alloying and spark plasma sintering. Journal of Alloys and Compounds, 2019, 786, 139-148.	5.5	61
3	The bending strength temperature dependence of the directionally solidified eutectic LaB6â€“ZrB2 composite. Journal of Alloys and Compounds, 2011, 509, 6123-6129.	5.5	50
4	High-temperature strength of directionally reinforced LaB6â€“TiB2 composite. Journal of Alloys and Compounds, 2010, 505, 130-134.	5.5	48
5	Microstructure and creep properties of a near-eutectic directionally solidified multiphase Moâ€“Siâ€“B alloy. Intermetallics, 2014, 48, 28-33.	3.9	43
6	A dense and tough (B4Câ€“TiB2)â€“B4C â€˜composite within a compositeâ€™ produced by spark plasma sintering. Scripta Materialia, 2014, 71, 17-20.	3.2	33
7	Room and high temperature toughening in directionally solidified B4Câ€“TiB2 eutectic composites by Si doping. Journal of Alloys and Compounds, 2013, 570, 94-99.	5.5	32
8	A novel microstructural design to improve the oxidation resistance of ZrB2-SiC ultra-high temperature ceramics (UHTCs). Journal of Alloys and Compounds, 2019, 785, 958-964.	5.5	30
9	Near-Eutectic Ternary Mo-Si-B Alloys: Microstructures and Creep Properties. Jom, 2016, 68, 2847-2853.	1.9	27
10	Hard polycrystalline eutectic composite prepared by spark plasma sintering. Ceramics International, 2012, 38, 3947-3953.	4.8	19
11	Mechanism of nucleation and growth of directionally crystallized alloys of the B4Câ€“MeB2 system. Journal of Alloys and Compounds, 2010, 490, 557-561.	5.5	15
12	Phase relations in the LaB6-MoB2 system. Inorganic Materials, 2009, 45, 246-249.	0.8	14
13	Effect of the crystallization kinetic parameters on the structure and properties of a eutectic alloy of the LaB6â€“TiB2 system. Journal of Superhard Materials, 2015, 37, 394-401.	1.2	13
14	Structural and Tribological Studies of â€œ(TiC + WC)/Hardened Steelâ€•PMMC Coating Deposited by Air Pulsed Plasma. Metals, 2022, 12, 218.	2.3	13
15	Addition of carbon fibers into B4C infiltrated with molten silicon. Ceramics International, 2019, 45, 168-174.	4.8	11
16	Hierarchical composites of B4Câ€“TiB2 eutectic particles reinforced with Ti. Ceramics International, 2020, 46, 28132-28144.	4.8	11
17	Floating zone partial re-melting of B4C infiltrated with molten Si. Ceramics International, 2017, 43, 14718-14725.	4.8	10
18	Microstructure and mechanical properties of B4C-NbB2-SiC ternary eutectic composites by a crucible-free zone melting method. Journal of the European Ceramic Society, 2021, 41, 1189-1196.	5.7	10

#	Article	IF	Citations
19	Directionally Solidified Ceramic Eutectics for High-Temperature Applications. , 2013, , 303-322.		9
20	Structural and Tribological Assessment of Biomedical 316 Stainless Steel Subjected to Pulsed-Plasma Surface Modification: Comparison of LPBF 3D Printing and Conventional Fabrication. Materials, 2021, 14, 7671.	2.9	9
21	Mechanical properties of HfB2 whiskers. Journal of Superhard Materials, 2013, 35, 234-241.	1.2	8
22	Spark plasma sintering of ZrB2 powders synthesized by citrate gel method. International Journal of Refractory Metals and Hard Materials, 2019, 78, 127-130.	3.8	8
23	Temperature Resistance of Mo3Si: Phase Stability, Microhardness, and Creep Properties. Metals, 2021, 11, 564.	2.3	8
24	Gerichtet erstarrte Moâ€Zrâ€Bâ€Legierungen. Materialwissenschaft Und Werkstofftechnik, 2017, 48, 1113-1124.	0.9	7
25	Mechanical properties of single crystals of transition metals diborides TMB2 (TM = Sc, Hf, Zr, Ti). Experiment and theory. Journal of Superhard Materials, 2017, 39, 308-318.	1.2	7
26	Microstructure and mechanical properties of a directionally solidified Mo-12Hf-24B alloy. Journal of Alloys and Compounds, 2018, 735, 2324-2330.	5.5	7
27	Microstructure and indentation damage resistance of ZrB 2 â€20Âvol.%SiC ipoâ€eutectic composites. International Journal of Applied Ceramic Technology, 2018, 15, 619-624.	2.1	5
28	Phase compatibility in (WC-W2C)/AlFeCoNiCrTi composite produced by spark plasma sintering. Journal of Alloys and Compounds, 2022, 921, 166042.	5.5	5
29	Structure and Properties of the Directionally Crystallized B4Câ€“NbB2â€“SiC Alloy. Journal of Superhard Materials, 2020, 42, 18-24.	1.2	4
30	Low-Temperature Synthesis of Boron Carbide Ceramics. Journal of Superhard Materials, 2018, 40, 236-242.	1.2	3
31	Production and Properties of B4Câ€“TiB2 Composites with Isotropic Eutectic Microstructure. Powder Metallurgy and Metal Ceramics, 2018, 57, 209-214.	0.8	3
32	Multiphase Mo-Si-B alloys processed by directional solidification. Materials Research Society Symposia Proceedings, 2012, 1516, 303-308.	0.1	2
33	EFFECTIVE THERMOPHYSICAL PROPERTIES OF POWDER MATERIALS DURING SINTERING UNDER ELECTRONBEAM HEATING. KPI Science News, 2021, , .	0.1	0
34	Microstructure Formation of Cast and Directionally Solidified Mo-Ti-B Alloys. Metals, 2022, 12, 916.	2.3	0