

# Iurii Bogomol

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Structural and Tribological Studies of $(\text{TiC} + \text{WC})/\text{Hardened Steel}/\text{PMMC}$ Coating Deposited by Air Pulsed Plasma. <i>Metals</i> , 2022, 12, 218.	2.3	13
2	Microstructure Formation of Cast and Directionally Solidified Mo-Ti-B Alloys. <i>Metals</i> , 2022, 12, 916.	2.3	0
3	Phase compatibility in $(\text{WC-W}_2\text{C})/\text{AlFeCoNiCrTi}$ composite produced by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166042.	5.5	5
4	Microstructure and mechanical properties of $\text{B}_4\text{C-NbB}_2\text{-SiC}$ ternary eutectic composites by a crucible-free zone melting method. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1189-1196.	5.7	10
5	Temperature Resistance of $\text{Mo}_3\text{Si}$ : Phase Stability, Microhardness, and Creep Properties. <i>Metals</i> , 2021, 11, 564.	2.3	8
6	EFFECTIVE THERMOPHYSICAL PROPERTIES OF POWDER MATERIALS DURING SINTERING UNDER ELECTRONBEAM HEATING. <i>KPI Science News</i> , 2021, , .	0.1	0
7	Structural and Tribological Assessment of Biomedical 316 Stainless Steel Subjected to Pulsed-Plasma Surface Modification: Comparison of LPBF 3D Printing and Conventional Fabrication. <i>Materials</i> , 2021, 14, 7671.	2.9	9
8	Hierarchical composites of $\text{B}_4\text{C}/\text{TiB}_2$ eutectic particles reinforced with Ti. <i>Ceramics International</i> , 2020, 46, 28132-28144.	4.8	11
9	Structure and Properties of the Directionally Crystallized $\text{B}_4\text{C}/\text{NbB}_2/\text{SiC}$ Alloy. <i>Journal of Superhard Materials</i> , 2020, 42, 18-24.	1.2	4
10	Structure formation and mechanical properties of the high-entropy $\text{AlCuNiFeCr}$ alloy prepared by mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2019, 786, 139-148.	5.5	61
11	A novel microstructural design to improve the oxidation resistance of $\text{ZrB}_2\text{-SiC}$ ultra-high temperature ceramics (UHTCs). <i>Journal of Alloys and Compounds</i> , 2019, 785, 958-964.	5.5	30
12	Spark plasma sintering of $\text{ZrB}_2$ powders synthesized by citrate gel method. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 78, 127-130.	3.8	8
13	Addition of carbon fibers into $\text{B}_4\text{C}$ infiltrated with molten silicon. <i>Ceramics International</i> , 2019, 45, 168-174.	4.8	11
14	Microstructure and mechanical properties of a directionally solidified Mo-12Hf-24B alloy. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2324-2330.	5.5	7
15	Microstructure and indentation damage resistance of $\text{ZrB}_2$ - 20 vol.% $\text{SiC}$ eutectic composites. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 619-624.	2.1	5
16	Low-Temperature Synthesis of Boron Carbide Ceramics. <i>Journal of Superhard Materials</i> , 2018, 40, 236-242.	1.2	3
17	Production and Properties of $\text{B}_4\text{C}/\text{TiB}_2$ Composites with Isotropic Eutectic Microstructure. <i>Powder Metallurgy and Metal Ceramics</i> , 2018, 57, 209-214.	0.8	3
18	Floating zone partial re-melting of $\text{B}_4\text{C}$ infiltrated with molten Si. <i>Ceramics International</i> , 2017, 43, 14718-14725.	4.8	10

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19	Gerichtet erstarrte Mo-Zr-B-Legierungen. Materialwissenschaft Und Werkstofftechnik, 2017, 48, 1113-1124.	0.9	7
20	Mechanical properties of single crystals of transition metals diborides TMB <sub>2</sub> (TM = Sc, Hf, Zr, Ti). Experiment and theory. Journal of Superhard Materials, 2017, 39, 308-318.	1.2	7
21	Near-Eutectic Ternary Mo-Si-B Alloys: Microstructures and Creep Properties. Jom, 2016, 68, 2847-2853.	1.9	27
22	Effect of the crystallization kinetic parameters on the structure and properties of a eutectic alloy of the LaB <sub>6</sub> -TiB <sub>2</sub> system. Journal of Superhard Materials, 2015, 37, 394-401.	1.2	13
23	Microstructure and creep properties of a near-eutectic directionally solidified multiphase Mo-Si-B alloy. Intermetallics, 2014, 48, 28-33.	3.9	43
24	A dense and tough (B <sub>4</sub> C-TiB <sub>2</sub> )-B <sub>4</sub> C composite within a composite produced by spark plasma sintering. Scripta Materialia, 2014, 71, 17-20.	5.2	33
25	Mechanical properties of HfB <sub>2</sub> whiskers. Journal of Superhard Materials, 2013, 35, 234-241.	1.2	8
26	Room and high temperature toughening in directionally solidified B <sub>4</sub> C-TiB <sub>2</sub> eutectic composites by Si doping. Journal of Alloys and Compounds, 2013, 570, 94-99.	5.5	32
27	Directionally Solidified Ceramic Eutectics for High-Temperature Applications. , 2013, , 303-322.		9
28	Multiphase Mo-Si-B alloys processed by directional solidification. Materials Research Society Symposia Proceedings, 2012, 1516, 303-308.	0.1	2
29	Hard polycrystalline eutectic composite prepared by spark plasma sintering. Ceramics International, 2012, 38, 3947-3953.	4.8	19
30	The bending strength temperature dependence of the directionally solidified eutectic LaB <sub>6</sub> -ZrB <sub>2</sub> composite. Journal of Alloys and Compounds, 2011, 509, 6123-6129.	5.5	50
31	Mechanism of nucleation and growth of directionally crystallized alloys of the B <sub>4</sub> C-MeB <sub>2</sub> system. Journal of Alloys and Compounds, 2010, 490, 557-561.	5.5	15
32	High-temperature strength of directionally reinforced LaB <sub>6</sub> -TiB <sub>2</sub> composite. Journal of Alloys and Compounds, 2010, 505, 130-134.	5.5	48
33	Phase relations in the LaB <sub>6</sub> -MoB <sub>2</sub> system. Inorganic Materials, 2009, 45, 246-249.	0.8	14
34	Microstructure and high-temperature strength of B <sub>4</sub> C-TiB <sub>2</sub> composite prepared by a crucibleless zone melting method. Journal of Alloys and Compounds, 2009, 485, 677-681.	5.5	61