Nickolai L Savchenko

List of Publications by Year
in descending order

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#	Article	IF	Citations
1	Microstructural Evolution of AA5154 Layers Intermixed with Mo Powder during Electron Beam Wire-Feed Additive Manufacturing (EBAM). Metals, 2022, 12, 109.	2.3	5
2	In Situ Intermetallics-Reinforced Composite Prepared Using Multi-Pass Friction Stir Processing of Copper Powder on a Ti6Al4V Alloy. Materials, 2022, 15, 2428.	2.9	4
3	The Effect of Heat Input, Annealing, and Deformation Treatment on Structure and Mechanical Properties of Electron Beam Additive Manufactured (EBAM) Silicon Bronze. Materials, 2022, 15, 3209.	2.9	6
4	Self-Lubricating Effect of FeWO4 Tribologically Synthesized from WC-(Fe-Mn-C) Composite during High-Speed Sliding against a HSS Disk. Lubricants, 2022, 10, 86.	2.9	9
5	Self-Lubricating Effect of WC/Yâ€“TZPâ€“Al2O3 Hybrid Ceramicâ€“Matrix Composites with Dispersed Hadfield Steel Particles during High-Speed Sliding against an HSS Disk. Lubricants, 2022, 10, 140.	2.9	5
6	Characterization of a Bimetallic Multilayered Composite â€œStainless Steel/Copperâ€•Fabricated with Wire-Feed Electron Beam Additive Manufacturing. Metals, 2021, 11, 1151.	2.3	13
7	Subsurface multilayer evolution of ZrB2â€“SiC ceramics in high-speed sliding and adhesion transfer conditions. Wear, 2021, 482-483, 203956.	3.1	6
8	Heat Input Effect on Microstructure and Mechanical Properties of Electron Beam Additive Manufactured (EBAM) Cu-7.5wt.%Al Bronze. Materials, 2021, 14, 6948.	2.9	11
9	Microstructure and Corrosion Resistance of AA4047/AA7075 Transition Zone Formed Using Electron Beam Wire-Feed Additive Manufacturing. Materials, 2021, 14, 6931.	2.9	6
10	Production of gradient intermetallic layers based on aluminum alloy and copper by electron-beam additive technology. Diagnostics Resource and Mechanics of Materials and Structures, 2021, , 19-31.	0.1	0
11	Microstructure of In-Situ Friction Stir Processed Al-Cu Transition Zone. Metals, 2020, 10, 818.	2.3	19
12	Ultrasonic Laser Welding of AA5083 Aluminum-Magnesium Alloy. Metal Working and Material Science, 2019, 21, 83-96.	0.3	0
13	The Effect of Porosity and Grain Size on the Phase Composition and Mechanical Properties of Zirconium-Dioxide-Based Ceramic. Technical Physics Letters, 2018, 44, 663-666.	0.7	16
14	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.	3.0	74
15	Acoustic emission characterization of sliding wear under condition of direct and inverse transformations in low-temperature degradation aged Y-TZP and Y-TZP-AL2O3. Friction, 2018, 6, 323-340.	6.4	17
16	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.	0.3	3
17	Inelastic behavior of ceramics with hierarchical pore structure under compression. Technical Physics Letters, 2017, 43, 723-726.	0.7	22
18	Structures Formation on the Y-TZP-Al2O3Ceramic Composites Surface. IOP Conference Series: Materials Science and Engineering, 2016, 140, 012012.	0.6	1

#	Article	IF	Citations
19	X-Ray Diffraction Analysis of the Sintered Y-TZP-Al2O3Ceramics. IOP Conference Series: Materials Science and Engineering, 2016, 140, 012015.	0.6	0
20	Deformation and Fracture of Porous Brittle Materials Under Different Loading Schemes. Russian Physics Journal, 2016, 58, 1544-1548.	0.4	22
21	The influence of porosity on the elasticity and strength of alumina and zirconia ceramics. AIP Conference Proceedings, 2014, , .	0.4	25
22	Behavior of the submicrocrystalline Yâ€“TZPâ€“Al2O3 composite in dry friction with steel. Powder Metallurgy and Metal Ceramics, 2013, 51, 577-583.	0.8	2
23	Structural and phase binder state and behavior during friction of WC-(Fe-Mn-C) composites. Journal of Friction and Wear, 2010, 31, 281-287.	0.5	3
24	Wear of ceramic and ceramicâ€“metal composites in high-speed dry sliding over steel. Powder Metallurgy and Metal Ceramics, 2009, 48, 27-33.	0.8	1
25	Features of high-speed wear of WC-steel 11G13 material in contact with cast tool steel. Journal of Friction and Wear, 2009, 30, 46-52.	0.5	16
26	Friction and wear of Y-TZP and Y-TZP-Al2O3 ceramics in high-speed sliding on steel. Journal of Friction and Wear, 2009, 30, 444-448.	0.5	8
27	Structures formed during the friction of a metal-ceramic composite on steel under high-velocity sliding conditions. Technical Physics Letters, 2009, 35, 107-110.	0.7	7
28	Texture formation on the friction surface in transformation-toughened ceramics. Technical Physics Letters, 2004, 30, 12-14.	0.7	10
29	Surface wear structures and mechanisms in zirconia-based ceramics. Technical Physics Letters, 2004, 30, 654-656.	0.7	2
30	Wear and friction of transformation-toughened CMC and MMC. Wear, 2001, 249, 892-900.	3.1	8
31	Structural changes of the friction surface and wear resistance of a ZrO2-Y2O3 ceramic. Technical Physics Letters, 2000, 26, 461-463.	0.7	1
32	Vacuum sintering of plasmochemical powders based on ZrO2. 1. Effect of sintering temperature on properties of ceramics. Powder Metallurgy and Metal Ceramics, 1995, 33, 571-574.	0.8	0
33	High temperature vacuum sintering of plasmochemical powders based on ZrO2. Powder Metallurgy and Metal Ceramics, 1995, 33, 25-28.	0.8	2
34	Phase composition and mechanical properties of a zirconium dioxide based ceramic obtained by high temperature sintering in a vacuum. Powder Metallurgy and Metal Ceramics, 1994, 32, 839-843.	0.8	7
35	Vacuum sintering of a ceramic based on zirconium dioxide. Glass and Ceramics (English Translation of) Tj ETQq1 1 0.784314 rgBT /Ov	0.6	13
36	Combined mechanism for the hardening of a ZrO2-Y2O3 ceramic. Russian Physics Journal, 1994, 37, 775-779.	0.4	0