

Nickolai L Savchenko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1559170/publications.pdf>

Version: 2024-02-01

36
papers

344
citations

933447

10
h-index

839539

18
g-index

36
all docs

36
docs citations

36
times ranked

126
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of heat input on phase content, crystalline lattice parameter, and residual strain in wire-feed electron beam additive manufactured 304 stainless steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 2353-2363.	3.0	74
2	The influence of porosity on the elasticity and strength of alumina and zirconia ceramics. <i>AIP Conference Proceedings</i> , 2014, . .	0.4	25
3	Deformation and Fracture of Porous Brittle Materials Under Different Loading Schemes. <i>Russian Physics Journal</i> , 2016, 58, 1544-1548.	0.4	22
4	Inelastic behavior of ceramics with hierarchical pore structure under compression. <i>Technical Physics Letters</i> , 2017, 43, 723-726.	0.7	22
5	Microstructure of In-Situ Friction Stir Processed Al-Cu Transition Zone. <i>Metals</i> , 2020, 10, 818.	2.3	19
6	Acoustic emission characterization of sliding wear under condition of direct and inverse transformations in low-temperature degradation aged Y-TZP and Y-TZP-AL2O3. <i>Friction</i> , 2018, 6, 323-340.	6.4	17
7	Features of high-speed wear of WC-steel 11G13 material in contact with cast tool steel. <i>Journal of Friction and Wear</i> , 2009, 30, 46-52.	0.5	16
8	The Effect of Porosity and Grain Size on the Phase Composition and Mechanical Properties of Zirconium-Dioxide-Based Ceramic. <i>Technical Physics Letters</i> , 2018, 44, 663-666.	0.7	16
9	Vacuum sintering of a ceramic based on zirconium dioxide. <i>Glass and Ceramics (English Translation of) Tj ETQq1 1 0.784314 15 BT /Over</i>	0.6	15
10	Characterization of a Bimetallic Multilayered Composite “Stainless Steel/Copper” Fabricated with Wire-Feed Electron Beam Additive Manufacturing. <i>Metals</i> , 2021, 11, 1151.	2.3	13
11	Heat Input Effect on Microstructure and Mechanical Properties of Electron Beam Additive Manufactured (EBAM) Cu-7.5wt.%Al Bronze. <i>Materials</i> , 2021, 14, 6948.	2.9	11
12	Texture formation on the friction surface in transformation-toughened ceramics. <i>Technical Physics Letters</i> , 2004, 30, 12-14.	0.7	10
13	Self-Lubricating Effect of FeWO4 Tribologically Synthesized from WC-(Fe-Mn-C) Composite during High-Speed Sliding against a HSS Disk. <i>Lubricants</i> , 2022, 10, 86.	2.9	9
14	Wear and friction of transformation-toughened CMC and MMC. <i>Wear</i> , 2001, 249, 892-900.	3.1	8
15	Friction and wear of Y-TZP and Y-TZP-AL2O3 ceramics in high-speed sliding on steel. <i>Journal of Friction and Wear</i> , 2009, 30, 444-448.	0.5	8
16	Phase composition and mechanical properties of a zirconium dioxide based ceramic obtained by high temperature sintering in a vacuum. <i>Powder Metallurgy and Metal Ceramics</i> , 1994, 32, 839-843.	0.8	7
17	Structures formed during the friction of a metal-ceramic composite on steel under high-velocity sliding conditions. <i>Technical Physics Letters</i> , 2009, 35, 107-110.	0.7	7
18	Subsurface multilayer evolution of ZrB2-SiC ceramics in high-speed sliding and adhesion transfer conditions. <i>Wear</i> , 2021, 482-483, 203956.	3.1	6

#	ARTICLE	IF	CITATIONS
19	Microstructure and Corrosion Resistance of AA4047/AA7075 Transition Zone Formed Using Electron Beam Wire-Feed Additive Manufacturing. <i>Materials</i> , 2021, 14, 6931.	2.9	6
20	The Effect of Heat Input, Annealing, and Deformation Treatment on Structure and Mechanical Properties of Electron Beam Additive Manufactured (EBAM) Silicon Bronze. <i>Materials</i> , 2022, 15, 3209.	2.9	6
21	Microstructural Evolution of AA5154 Layers Intermixed with Mo Powder during Electron Beam Wire-Feed Additive Manufacturing (EBAM). <i>Metals</i> , 2022, 12, 109.	2.3	5
22	Self-Lubricating Effect of WC/Yâ€‘TZPâ€‘Al ₂ O ₃ Hybrid Ceramicâ€‘Matrix Composites with Dispersed Hadfield Steel Particles during High-Speed Sliding against an HSS Disk. <i>Lubricants</i> , 2022, 10, 140.	2.9	5
23	In Situ Intermetallics-Reinforced Composite Prepared Using Multi-Pass Friction Stir Processing of Copper Powder on a Ti6Al4V Alloy. <i>Materials</i> , 2022, 15, 2428.	2.9	4
24	Structural and phase binder state and behavior during friction of WC-(Fe-Mn-C) composites. <i>Journal of Friction and Wear</i> , 2010, 31, 281-287.	0.5	3
25	Features of the Structural-Phase State of the Alloy Ti-6Al-4V in the Formation of Products using Wire-Feed Electron Beam Additive Manufacturing. <i>Metal Working and Material Science</i> , 2018, 20, 60-71.	0.3	3
26	High temperature vacuum sintering of plasmochemical powders based on ZrO ₂ . <i>Powder Metallurgy and Metal Ceramics</i> , 1995, 33, 25-28.	0.8	2
27	Surface wear structures and mechanisms in zirconia-based ceramics. <i>Technical Physics Letters</i> , 2004, 30, 654-656.	0.7	2
28	Behavior of the submicrocrystalline Yâ€‘TZPâ€‘Al ₂ O ₃ composite in dry friction with steel. <i>Powder Metallurgy and Metal Ceramics</i> , 2013, 51, 577-583.	0.8	2
29	Structural changes of the friction surface and wear resistance of a ZrO ₂ -Y ₂ O ₃ ceramic. <i>Technical Physics Letters</i> , 2000, 26, 461-463.	0.7	1
30	Wear of ceramic and ceramicâ€‘metal composites in high-speed dry sliding over steel. <i>Powder Metallurgy and Metal Ceramics</i> , 2009, 48, 27-33.	0.8	1
31	Structures Formation on the Y-TZP-Al ₂ O ₃ Ceramic Composites Surface. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 140, 012012.	0.6	1
32	Combined mechanism for the hardening of a ZrO ₂ -Y ₂ O ₃ ceramic. <i>Russian Physics Journal</i> , 1994, 37, 775-779.	0.4	0
33	Vacuum sintering of plasmochemical powders based on ZrO ₂ . 1. Effect of sintering temperature on properties of ceramics. <i>Powder Metallurgy and Metal Ceramics</i> , 1995, 33, 571-574.	0.8	0
34	X-Ray Diffraction Analysis of the Sintered Y-TZP-Al ₂ O ₃ Ceramics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 140, 012015.	0.6	0
35	Ultrasonic Laser Welding of AA5083 Aluminum-Magnesium Alloy. <i>Metal Working and Material Science</i> , 2019, 21, 83-96.	0.3	0
36	Production of gradient intermetallic layers based on aluminum alloy and copper by electron-beam additive technology. <i>Diagnostics Resource and Mechanics of Materials and Structures</i> , 2021, , 19-31.	0.1	0