

Andrey V Bondarev

List of Publications by Year in descending order

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papers

570
citations

566801

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all docs

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docs citations

28
times ranked

437
citing authors

#	ARTICLE	IF	CITATIONS
1	Al-based composites reinforced with ceramic particles formed by in situ reactions between Al and amorphous SiN _x O _y . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 842, 143105.	2.6	4
2	Nanopowder derived Al/h-BN composites with high strength and ductility. <i>Journal of Alloys and Compounds</i> , 2022, 912, 165199.	2.8	10
3	Insight into high temperature performance of magnetron sputtered Si-Ta-C-(N) coatings with an ion-implanted interlayer. <i>Applied Surface Science</i> , 2021, 541, 148526.	3.1	11
4	Al/SiC nanocomposites with enhanced thermomechanical properties obtained from microwave plasma-treated nanopowders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141817.	2.6	9
5	Titanium doped MoSe ₂ coatings – Synthesis, structure, mechanical and tribological properties investigation. <i>Applied Surface Science</i> , 2021, 568, 150990.	3.1	8
6	Electrospark deposition of wear and corrosion resistant Ta(Zr)C-(Fe,Mo,Ni) coatings to protect stainless steel from tribocorrosion in seawater. <i>Wear</i> , 2021, 486-487, 204094.	1.5	10
7	Studying the Diffusion-barrier Properties, Thermal Stability and Oxidation Resistance of TiAlSiCN, TiAlSiCN/AlO _x , and TiAlSiCN/SiBCN Coatings. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021, 57, 1008-1024.	0.3	2
8	Pristine and Antibiotic-Loaded Nanosheets/Nanoneedles-Based Boron Nitride Films as a Promising Platform to Suppress Bacterial and Fungal Infections. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42485-42498.	4.0	30
9	Mechanisms of friction and wear reduction by h-BN nanosheet and spherical W nanoparticle additives to base oil: Experimental study and molecular dynamics simulation. <i>Tribology International</i> , 2020, 151, 106493.	3.0	39
10	(Ni,Cu)/hexagonal BN nanohybrids – New efficient catalysts for methanol steam reforming and carbon monoxide oxidation. <i>Chemical Engineering Journal</i> , 2020, 395, 125109.	6.6	39
11	Structure and Properties of Antifriction Cu, Cu-C, and DLC Coatings. <i>Physics of Metals and Metallography</i> , 2019, 120, 702-708.	0.3	5
12	Fabrication of Ta-Si-C targets and their utilization for deposition of low friction wear resistant nanocomposite Si-Ta-C-(N) coatings intended for wide temperature range tribological applications. <i>Surface and Coatings Technology</i> , 2019, 359, 342-353.	2.2	17
13	Spark plasma sintered Al-based composites reinforced with BN nanosheets exfoliated under ball milling in ethylene glycol. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 745, 74-81.	2.6	33
14	Hollow spherical and nanosheet-base BN nanoparticles as perspective additives to oil lubricants: Correlation between large-scale friction behavior and in situ TEM compression testing. <i>Ceramics International</i> , 2018, 44, 6801-6809.	2.3	28
15	Abrasive, hydroabrasive, and erosion wear behaviour of nanostructured (Ti,Al)N-Cu and (Ti,Al)N-Ni coatings. <i>Surface and Coatings Technology</i> , 2018, 338, 1-13.	2.2	21
16	Synthetic routes, structure and catalytic activity of Ag/BN nanoparticle hybrids toward CO oxidation reaction. <i>Journal of Catalysis</i> , 2018, 368, 217-227.	3.1	18
17	Temperature-dependent structural transformation and friction behavior of nanocomposite VCN-(Ag) coatings. <i>Materials and Design</i> , 2018, 160, 964-973.	3.3	29
18	Superhard Nanostructured Ceramic-Metal Coatings with a Low Macrostress Level. <i>Technical Physics Letters</i> , 2018, 44, 167-169.	0.2	1

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19	Microstructure, mechanical, and tribological properties of Ag-free and Ag-doped VCN coatings. Surface and Coatings Technology, 2017, 331, 77-84.	2.2	32
20	Tribological behavior and self-healing functionality of TiNbCN-Ag coatings in wide temperature range. Applied Surface Science, 2017, 396, 110-120.	3.1	32
21	A new insight into hard low friction MoCN-Ag coatings intended for applications in wide temperature range. Materials and Design, 2016, 93, 63-72.	3.3	49
22	Nanocomposite Antifriction Coatings for Innovative Tribotechnical Systems. Metal Science and Heat Treatment, 2015, 57, 443-448.	0.2	3
23	Hard wear-resistant TiAlSiCN/MoSeC coatings with a low friction coefficient at room and elevated temperatures. Russian Journal of Non-Ferrous Metals, 2015, 56, 107-113.	0.2	1
24	Structure and properties of nanocomposite Mo-Si-B(N) coatings. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 794-802.	0.3	19
25	Structure, tribological and electrochemical properties of low friction TiAlSiCN/MoSeC coatings. Applied Surface Science, 2015, 327, 253-261.	3.1	23
26	Structure and properties of tribological coatings in Cu-B system. Physics of Metals and Metallography, 2014, 115, 716-722.	0.3	7
27	Structure and tribological properties of MoCN-Ag coatings in the temperature range of 25-700 °C. Applied Surface Science, 2013, 273, 408-414.	3.1	80
28	Influence of Zr and O on the structure and properties of TiC(N) coatings deposited by magnetron sputtering of composite TiC _{0.5} +ZrO ₂ and (Ti, Zr)C _{0.5} +ZrO ₂ targets. Surface and Coatings Technology, 2012, 206, 2506-2514.	2.2	10