Andrey V Bondarev

List of Publications by Year
in descending order

28 papers	570 citations	566801 15 h-index	610482 24 g-index
28 all docs	28 docs citations	28 times ranked	437 citing authors

#	Article	IF	Citations
1	Structure and tribological properties of MoCN-Ag coatings in the temperature range of 25â€“700 Â°C. Applied Surface Science, 2013, 273, 408-414.	3.1	80
2	A new insight into hard low friction MoCNâ€“Ag coatings intended for applications in wide temperature range. Materials and Design, 2016, 93, 63-72.	3.3	49
3	Mechanisms of friction and wear reduction by h-BN nanosheet and spherical W nanoparticle additives to base oil: Experimental study and molecular dynamics simulation. Tribology International, 2020, 151, 106493.	3.0	39
4	(Ni,Cu)/hexagonal BN nanohybrids â€“ New efficient catalysts for methanol steam reforming and carbon monoxide oxidation. Chemical Engineering Journal, 2020, 395, 125109.	6.6	39
5	Spark plasma sintered Al-based composites reinforced with BN nanosheets exfoliated under ball milling in ethylene glycol. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 745, 74-81.	2.6	33
6	Microstructure, mechanical, and tribological properties of Ag-free and Ag-doped VCN coatings. Surface and Coatings Technology, 2017, 331, 77-84.	2.2	32
7	Tribological behavior and self-healing functionality of TiNbCN-Ag coatings in wide temperature range. Applied Surface Science, 2017, 396, 110-120.	3.1	32
8	Pristine and Antibiotic-Loaded Nanosheets/Nanoneedles-Based Boron Nitride Films as a Promising Platform to Suppress Bacterial and Fungal Infections. ACS Applied Materials & Interfaces, 2020, 12, 42485-42498.	4.0	30
9	Temperature-dependent structural transformation and friction behavior of nanocomposite VCN-(Ag) coatings. Materials and Design, 2018, 160, 964-973.	3.3	29
10	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. Ceramics International, 2018, 44, 6801-6809.	2.3	28
11	Structure, tribological and electrochemical properties of low friction TiAlSiCN/MoSeC coatings. Applied Surface Science, 2015, 327, 253-261.	3.1	23
12	Abrasive, hydroabrasive, and erosion wear behaviour of nanostructured (Ti,Al)N-Cu and (Ti,Al)N-Ni coatings. Surface and Coatings Technology, 2018, 338, 1-13.	2.2	21
13	Structure and properties of nanocomposite Moâ€"Siâ€"Bâ€"(N) coatings. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 794-802.	0.3	19
14	Synthetic routes, structure and catalytic activity of Ag/BN nanoparticle hybrids toward CO oxidation reaction. Journal of Catalysis, 2018, 368, 217-227.	3.1	18
15	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. Surface and Coatings Technology, 2019, 359, 342-353.	2.2	17
16	Insight into high temperature performance of magnetron sputtered Si-Ta-C-(N) coatings with an ion-implanted interlayer. Applied Surface Science, 2021, 541, 148526.	3.1	11
17	Influence of Zr and O on the structure and properties of TiC(N) coatings deposited by magnetron sputtering of composite TiC0.5+ZrO2 and (Ti, Zr)C0.5+ZrO2 targets. Surface and Coatings Technology, 2012, 206, 2506-2514.	2.2	10
18	Electrospark deposition of wear and corrosion resistant Ta(Zr)C-(Fe,Mo,Ni) coatings to protect stainless steel from tribocorrosion in seawater. Wear, 2021, 486-487, 204094.	1.5	10

#	Article	IF	Citations
19	Nanopowder derived Al/h-BN composites with high strength and ductility. Journal of Alloys and Compounds, 2022, 912, 165199.	2.8	10
20	Al/SiC nanocomposites with enhanced thermomechanical properties obtained from microwave plasma-treated nanopowders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 824, 141817.	2.6	9
21	Titanium doped MoSe2 coatings â€“ Synthesis, structure, mechanical and tribological properties investigation. Applied Surface Science, 2021, 568, 150990.	3.1	8
22	Structure and properties of tribological coatings in Cu-B system. Physics of Metals and Metallography, 2014, 115, 716-722.	0.3	7
23	Structure and Properties of Antifriction Cu, Cuâ€“C, and DLC Coatings. Physics of Metals and Metallography, 2019, 120, 702-708.	0.3	5
24	Al-based composites reinforced with ceramic particles formed by in situ reactions between Al and amorphous SiNxOy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 842, 143105.	2.6	4
25	Nanocomposite Antifriction Coatings for Innovative Tribotechnical Systems. Metal Science and Heat Treatment, 2015, 57, 443-448.	0.2	3
26	Studying the Diffusion-barrier Properties, Thermal Stability and Oxidation Resistance of TiAlSiCN, TiAlSiCN/AlOx, and TiAlSiCN/SiBCN Coatings. Protection of Metals and Physical Chemistry of Surfaces, 2021, 57, 1008-1024.	0.3	2
27	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
28	Superhard Nanostructured Ceramicâ€“Metal Coatings with a Low Macrostress Level. Technical Physics Letters, 2018, 44, 167-169.	0.2	1