

Andrey I Dmitriev

List of Publications by Citations

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34
papers

273
citations

11
h-index

15
g-index

45
ext. papers

411
ext. citations

3.5
avg, IF

3.88
L-index

#	Paper	IF	Citations
34	The Role of Solid Lubricants for Brake Friction Materials. <i>Lubricants</i> , 2016 , 4, 5	3.1	40
33	The effect of crystallographic grain orientation of polycrystalline Ti on ploughing under scratch testing. <i>Wear</i> , 2018 , 408-409, 214-221	3.5	23
32	Regulating microstructures of interpenetrating polyurethane-epoxy networks towards high-performance water-lubricated bearing materials. <i>Tribology International</i> , 2019 , 131, 454-464	4.9	20
31	Numerical study of atomic scale deformation mechanisms of Ti grains with different crystallographic orientation subjected to scratch testing. <i>Applied Surface Science</i> , 2019 , 471, 318-327	6.7	19
30	Mesoscale modeling of the mechanical and tribological behavior of a polymer matrix composite based on epoxy and 6vol.% silica nanoparticles. <i>Computational Materials Science</i> , 2015 , 110, 204-214	3.2	15
29	MD Sliding Simulations of Amorphous Tribofilms Consisting of either SiO ₂ or Carbon. <i>Lubricants</i> , 2016 , 4, 24	3.1	15
28	Modeling of the stress-strain behavior of an epoxy-based nanocomposite filled with silica nanoparticles. <i>Materials and Design</i> , 2016 , 89, 950-956	8.1	13
27	Numerical Simulation of Mechanically Mixed Layer Formation at Local Contacts of an Automotive Brake System. <i>Tribology Transactions</i> , 2008 , 51, 810-816	1.8	13
26	Molecular dynamics sliding simulations of amorphous Ni, Ni-P and nanocrystalline Ni films. <i>Computational Materials Science</i> , 2017 , 129, 231-238	3.2	12
25	Universal limiting shape of worn profile under multiple-mode fretting conditions: theory and experimental evidence. <i>Scientific Reports</i> , 2016 , 6, 23231	4.9	11
24	Assessment of Sliding Friction of a Nanostructured Solid Lubricant Film by Numerical Simulation with the Method of Movable Cellular Automata (MCA). <i>Tribology Letters</i> , 2014 , 54, 257-262	2.8	11
23	Effect of elastic grading on fretting wear. <i>Scientific Reports</i> , 2019 , 9, 7791	4.9	8
22	Role of hydrolysable nanoparticles on tribological performance of PPS-steel sliding pair lubricated with sea water. <i>Tribology International</i> , 2018 , 127, 147-156	4.9	8
21	Some Considerations on the Role of Third Bodies during Automotive Braking. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2014 , 7, 1287-1294	0.3	8
20	Crystallographic and Geometric Factors in the Shear Development in FCC Single Crystals: Molecular Dynamics Simulation and Experimental Study. <i>Crystals</i> , 2020 , 10, 666	2.3	7
19	Molecular dynamics study of dislocation-twin boundary interaction in titanium subjected to scratching. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 800, 140327	5.3	7
18	Recovery of Scratch Grooves in Ti-6Al-4V Alloy Caused by Reversible Phase Transformations. <i>Metals</i> , 2020 , 10, 1332	2.3	5

17	Molecular Dynamics Modeling of the Sliding Performance of an Amorphous Silica Nano-Layer The Impact of Chosen Interatomic Potentials. <i>Lubricants</i> , 2018 , 6, 43	3.1	4
16	Acoustic emission characterization of sliding wear under condition of direct and inverse transformations in low-temperature degradation aged Y-TZP and Y-TZP-AL ₂ O ₃ . <i>Friction</i> , 2018 , 6, 323-340	5.6	4
15	VERIFICATION OF RABINOWICZ CRITERION BY DIRECT MOLECULAR DYNAMICS MODELING. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2019 , 17, 207	3.2	3
14	Transformations of the Microstructure and Phase Compositions of Titanium Alloys during Ultrasonic Impact Treatment. Part I. Commercially Pure Titanium. <i>Metals</i> , 2021 , 11, 562	2.3	3
13	Advances in Laser Additive Manufacturing of Ti-Nb Alloys: From Nanostructured Powders to Bulk Objects. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
12	Numerical Study and Experimental Validation of Deformation of FCC CuAl Single Crystal Obtained by Additive Manufacturing. <i>Metals</i> , 2021 , 11, 582	2.3	3
11	Mass Transfer at Atomic Scale in MD Simulation of Friction Stir Welding. <i>Key Engineering Materials</i> , 2016 , 683, 626-631	0.4	3
10	Suppression of wear in dry sliding friction induced by negative thermal expansion. <i>Physical Review E</i> , 2020 , 102, 042801	2.4	2
9	Multiscale modeling of low friction sliding behavior of a hybrid epoxy-matrix nanocomposite. <i>Procedia Structural Integrity</i> , 2016 , 2, 2347-2354	1	2
8	Potential of different nickel coatings for optimizing the sliding behavior of electrical connectors. <i>Tribology International</i> , 2018 , 120, 491-501	4.9	1
7	Effect of adhesion transfer on the surface pattern regularity in nanostructuring burnishing 2016 ,		1
6	Stress and strain analysis of steel subsurface layers under nanostructuring burnishing 2015 ,		1
5	Calculation of the effective diffusion coefficient for random wear surface migration on different scales. <i>Physical Mesomechanics</i> , 2012 , 15, 333-336	1.6	1
4	The effect of ultrasonic impact treatment on deformation and fracture of electron beam additive manufactured Ti-6Al-4V under uniaxial tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142458	5.3	1
3	Analysis of the Quasi-Static and Dynamic Fracture of the Silica Refractory Using the Mesoscale Discrete Element Modelling. <i>Materials</i> , 2021 , 14,	3.5	1
2	The final NO-WEAR state due to dual-mode fretting: Numerical prediction and experimental validation. <i>Wear</i> , 2020 , 458-459, 203402	3.5	1
1	Transformations of the Microstructure and Phase Compositions of Titanium Alloys during Ultrasonic Impact Treatment Part II: Ti-6Al-4V Titanium Alloy. <i>Metals</i> , 2022 , 12, 732	2.3	0