

Martin Dienwiebel

List of Publications by Year in descending order

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39
papers

2,476
citations

331670

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docs citations

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times ranked

2102
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of the carbon bonding state in amorphous carbon materials: A comparison between EELS and NEXAFS measurements. <i>Carbon</i> , 2021, 173, 557-564.	10.3	23
2	Multiscale Friction Simulation of Dry Polymer Contacts: Reaching Experimental Length Scales by Coupling Molecular Dynamics and Contact Mechanics. <i>Tribology Letters</i> , 2021, 69, 1.	2.6	7
3	Graphite lubrication mechanisms under high mechanical load. <i>Wear</i> , 2021, 477, 203794.	3.1	28
4	A numerical approach for the determination of graphite deformation behaviour by using microtribological pressure tests. <i>Wear</i> , 2021, 476, 203652.	3.1	1
5	Correlation of wear behaviour and microstructural evolution in Mg-Zn-Y alloys with long-period stacking ordered phase. <i>Wear</i> , 2021, 482-483, 203983.	3.1	2
6	Programming Viscosity in Silicone Oils: Reversible Tuning of Rheological Properties in 9-Anthracene Ester-Terminated Polydimethylsiloxanes. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5460-5468.	4.4	9
7	Effect of Environment on Microstructure Evolution and Friction of Au-Ni Multilayers. <i>Tribology Letters</i> , 2020, 68, 1.	2.6	7
8	Low friction of metallic multilayers by formation of a shear-induced alloy. <i>Scientific Reports</i> , 2019, 9, 9480.	3.3	7
9	Formation of the third bodies of steel sliding against brass under lubricated conditions. <i>Tribology International</i> , 2019, 140, 105727.	5.9	40
10	Tribology of Wire Arc Spray Coatings under the Influence of Regenerative Fuels. <i>Lubricants</i> , 2018, 6, 60.	2.9	1
11	Microstructure, mechanical properties and friction behavior of magnetron-sputtered V-C coatings. <i>Surface and Coatings Technology</i> , 2017, 321, 366-377.	4.8	13
12	The Running-in Tribological Behavior of Pb-Free Brass and Its Effect on Microstructural Evolution. <i>Tribology Letters</i> , 2017, 65, 1.	2.6	5
13	Combining in situ and online approaches to monitor interfacial processes in lubricated sliding contacts. <i>MRS Communications</i> , 2016, 6, 301-308.	1.8	9
14	European Symposium on Friction, Wear, and Wear Protection. <i>Conference Papers in Science</i> , 2015, 2015, 1-1.	0.3	0
15	Surface Softening in Metal-Ceramic Sliding Contacts: An Experimental and Numerical Investigation. <i>ACS Nano</i> , 2015, 9, 1478-1491.	14.6	22
16	Microscale study of frictional properties of graphene in ultra high vacuum. <i>Friction</i> , 2015, 3, 161-169.	6.4	37
17	The structure of tribolayers at the commutator and brush interface: A case study of failed and non-failed DC motors. <i>Tribology International</i> , 2015, 92, 21-28.	5.9	13
18	Origins of Folding Instabilities on Polycrystalline Metal Surfaces. <i>Physical Review Applied</i> , 2014, 2, .	3.8	63

#	ARTICLE	IF	CITATIONS
19	Nanoscale sliding friction phenomena at the interface of diamond-like carbon and tungsten. <i>Acta Materialia</i> , 2014, 67, 395-408.	7.9	44
20	Experimental and Numerical Atomistic Investigation of the Third Body Formation Process in Dry Tungsten/Tungsten-Carbide Tribo Couples. <i>Tribology Letters</i> , 2013, 50, 67-80.	2.6	42
21	Friction and Wear Mechanisms of Tungsten-Carbon Systems: A Comparison of Dry and Lubricated Conditions. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6123-6135.	8.0	44
22	Superlubric to stick-slip sliding of incommensurate graphene flakes on graphite. <i>Physical Review B</i> , 2013, 88, .	3.2	98
23	A new approach to link the friction coefficient with topography measurements during plowing. <i>Wear</i> , 2013, 303, 202-210.	3.1	15
24	The running-in mechanisms of binary brass studied by in-situ topography measurements. <i>Wear</i> , 2013, 303, 465-472.	3.1	35
25	Design and testing of ultrahigh vacuum microtribometer. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2012, 6, 95-101.	1.4	7
26	Friction and Wear on Single-Layer Epitaxial Graphene in Multi-Asperity Contacts. <i>Tribology Letters</i> , 2012, 48, 77-82.	2.6	98
27	In situ observation of wear particle formation on lubricated sliding surfaces. <i>Acta Materialia</i> , 2012, 60, 420-429.	7.9	37
28	Message from the Scientific Organizers. <i>Tribology Letters</i> , 2010, 39, 1-1.	2.6	0
29	On the tribochemical action of engine soot. <i>Wear</i> , 2010, 269, 1-12.	3.1	63
30	The effect of sample finishing on the tribology of metal/metal lubricated contacts. <i>Wear</i> , 2010, 268, 1518-1523.	3.1	25
31	Design and construction of a novel tribometer with online topography and wear measurement. <i>Review of Scientific Instruments</i> , 2010, 81, 063904.	1.3	41
32	Origins of the wear resistance of AlSi cylinder bore surfaces studies by surface analytical tools. <i>Tribology International</i> , 2007, 40, 1597-1602.	5.9	65
33	Nanoscale Evolution of Sliding Metal Surfaces During Running-in. <i>Tribology Letters</i> , 2007, 27, 255-260.	2.6	23
34	Model experiments of superlubricity of graphite. <i>Surface Science</i> , 2005, 576, 197-211.	1.9	169
35	Slippery Nanoworld. <i>Europhysics News</i> , 2005, 36, 6-8.	0.3	1
36	Model calculations of superlubricity of graphite. <i>Physical Review B</i> , 2004, 70, .	3.2	174

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37	Superlubricity of Graphite. Physical Review Letters, 2004, 92, 126101.	7.8	1,145
38	Noncontact atomic force microscopy in liquid environment with quartz tuning fork and carbon nanotube probe. Applied Surface Science, 2002, 188, 440-444.	6.1	35
39	Fabrication of a novel scanning probe device for quantitative nanotribology. Sensors and Actuators A: Physical, 2000, 84, 18-24.	4.1	28