Philip Egberts

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43 1,288 17 35 g-index

46 1,564 4.4 4.38 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
43	Prediction of Optimal Process Parameters in Tribocorrosion Inhibition of Steel Pipes Using Response Surface Methodology. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	O
42	Layer dependent out-of-plane elastic modulus of graphene. <i>Applied Physics Letters</i> , 2021 , 118, 263101	3.4	
41	Enhancement of tribo-corrosion performance of carbon steel through boronizing and BN-based coatings. <i>Tribology International</i> , 2021 , 153, 106666	4.9	13
40	Influence of heating on the measured friction behavior of graphene evaluated under ultra-high vacuum conditions. <i>Applied Physics Letters</i> , 2021 , 119, 063102	3.4	1
39	Tribo-corrosion inhibition of AISI 4715 steel pipe carrying hydraulic fracturing fluid. <i>Tribology</i> International, 2021 , 161, 107066	4.9	2
38	Quantitative determination of the interaction potential between two surfaces using frequency-modulated atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2020 , 11, 729-739	3	1
37	Insights into dynamic sliding contacts from conductive atomic force microscopy. <i>Nanoscale Advances</i> , 2020 , 2, 4117-4124	5.1	1
36	Nanoscale spatial mapping of mechanical properties through dynamic atomic force microscopy. Beilstein Journal of Nanotechnology, 2019 , 10, 1332-1347	3	2
35	In situ monitoring of the morphology evolution of interfacially-formed conductive nanocomposite films and their use as strain sensors. <i>Journal of Colloid and Interface Science</i> , 2019 , 554, 305-314	9.3	1
34	A Novel Tribometer Designed to Evaluate Geological Sliding Contacts Lubricated by Drilling Muds. Journal of Testing and Evaluation, 2019 , 47, 20170468	1	1
33	Mechanisms of friction reduction of nanoscale sliding contacts achieved through ultrasonic excitation. <i>Nanotechnology</i> , 2019 , 30, 075502	3.4	3
32	Evaluation of wetting transparency and surface energy of pristine and aged graphene through nanoscale friction. <i>Carbon</i> , 2018 , 132, 749-759	10.4	24
31	Effect of counterface on cartilage boundary lubricating ability by proteoglycan 4 and hyaluronan: Cartilage-glass versus cartilage-cartilage. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 2923-2931	3.8	10
30	Atomic-Scale Friction 2018 , 40-54		
29	Tribological Behavior of Multi-scaled Patterned Surfaces Machined Through Inclined End Milling and Micro Shot Blasting. <i>Tribology Letters</i> , 2018 , 66, 1	2.8	11
28	Contrast mechanisms on nanoscale subsurface imaging in ultrasonic AFM: scattering of ultrasonic waves and contact stiffness of the tip-sample. <i>Nanoscale</i> , 2017 , 9, 2330-2339	7.7	17
27	A review on mechanics and mechanical properties of 2D materials@raphene and beyond. <i>Extreme Mechanics Letters</i> , 2017 , 13, 42-77	3.9	581

(2012-2017)

26	Tip convolution on HOPG surfaces measured in AM-AFM and interpreted using a combined experimental and simulation approach. <i>Nanotechnology</i> , 2017 , 28, 025702	3.4	7
25	Adhesion Mechanics between Nanoscale Silicon Oxide Tips and Few-Layer Graphene. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	9
24	Reduction of Friction Using Electrospun Polymer Composite Microbeads Emulsified in Mineral Oil. <i>Procedia Manufacturing</i> , 2017 , 10, 339-350	1.5	2
23	Quantitative analysis of nanoscale electrical properties of CNT/PVDF nanocomposites by current sensing AFM. <i>RSC Advances</i> , 2017 , 7, 32564-32573	3.7	4
22	Contrast in nanoscale friction between rotational domains of graphene on Pt(111). <i>Carbon</i> , 2017 , 113, 132-138	10.4	22
21	Load-Dependent Friction Hysteresis on Graphene. ACS Nano, 2016 , 10, 5161-8	16.7	46
20	Directional friction surfaces through asymmetrically shaped dimpled surfaces patterned using inclined flat end milling. <i>Tribology International</i> , 2015 , 91, 67-73	4.9	10
19	Dynamics of atomic stick-slip friction examined with atomic force microscopy and atomistic simulations at overlapping speeds. <i>Physical Review Letters</i> , 2015 , 114, 146102	7.4	53
18	Molecular dynamics simulation of amplitude modulation atomic force microscopy. <i>Nanotechnology</i> , 2015 , 26, 235705	3.4	10
17	Frictional behavior of atomically thin sheets: hexagonal-shaped graphene islands grown on copper by chemical vapor deposition. <i>ACS Nano</i> , 2014 , 8, 5010-21	16.7	112
16	Reinterpretation of velocity-dependent atomic friction: influence of the inherent instrumental noise in friction force microscopes. <i>Physical Review E</i> , 2014 , 90, 012125	2.4	10
15	Nanoscale Adhesive Properties of Graphene: The Effect of Sliding History. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300053	4.6	45
14	Correlation Between Probe Shape and Atomic Friction Peaks at Graphite Step Edges. <i>Tribology Letters</i> , 2013 , 50, 49-57	2.8	42
13	Environmental dependence of atomic-scale friction at graphite surface steps. <i>Physical Review B</i> , 2013 , 88,	3.3	58
12	Seeking Supersolidity in Helium Layers. <i>Physics Magazine</i> , 2013 , 6,	1.1	3
11	Angle-resolved environmental X-ray photoelectron spectroscopy: a new laboratory setup for photoemission studies at pressures up to 0.4 Torr. <i>Review of Scientific Instruments</i> , 2012 , 83, 093112	1.7	41
10	Friction model for single-asperity elastic-plastic contacts. <i>Physical Review B</i> , 2012 , 86,	3.3	23
9	Temporal development of indentation plasticity on the atomic scale revealed by force microscopy. <i>Physical Review B</i> , 2012 , 86,	3.3	7

8	Molecular order and disorder in the frictional response of alkanethiol self-assembled monolayers. Journal of Physical Chemistry A, 2011 , 115, 6942-7	2.8	17
7	Atomic-scale nanoindentation: detection and identification of single glide events in three dimensions by force microscopy. <i>Nanotechnology</i> , 2011 , 22, 425703	3.4	18
6	The Role of Plastic Deformation in Nanometer-Scale Wear. <i>Advances in Science and Technology</i> , 2010 , 64, 25-32	0.1	2
5	Microscopic Friction Studies on Metal Surfaces. <i>Tribology Letters</i> , 2010 , 39, 19-24	2.8	36
4	Nano-meter scale plasticity in KBr studied by nanoindenter and force microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1185, 90		2
3	A kelvin probe force microscopy of charged indentation-induced dislocation structures in KBr. <i>Nanotechnology</i> , 2009 , 20, 264005	3.4	19
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