## Philip Egberts

## List of Publications by Citations

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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	A review on mechanics and mechanical properties of 2D materials are raphene and beyond. <i>Extreme Mechanics Letters</i> , <b>2017</b> , 13, 42-77	3.9	581
42	Frictional behavior of atomically thin sheets: hexagonal-shaped graphene islands grown on copper by chemical vapor deposition. <i>ACS Nano</i> , <b>2014</b> , 8, 5010-21	16.7	112
41	Environmental dependence of atomic-scale friction at graphite surface steps. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	58
40	Dynamics of atomic stick-slip friction examined with atomic force microscopy and atomistic simulations at overlapping speeds. <i>Physical Review Letters</i> , <b>2015</b> , 114, 146102	7.4	53
39	Load-Dependent Friction Hysteresis on Graphene. ACS Nano, <b>2016</b> , 10, 5161-8	16.7	46
38	Nanoscale Adhesive Properties of Graphene: The Effect of Sliding History. <i>Advanced Materials Interfaces</i> , <b>2014</b> , 1, 1300053	4.6	45
37	Correlation Between Probe Shape and Atomic Friction Peaks at Graphite Step Edges. <i>Tribology Letters</i> , <b>2013</b> , 50, 49-57	2.8	42
36	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> , <b>2012</b> , 83, 093112	1.7	41
35	Microscopic Friction Studies on Metal Surfaces. <i>Tribology Letters</i> , <b>2010</b> , 39, 19-24	2.8	36
34	Evaluation of wetting transparency and surface energy of pristine and aged graphene through nanoscale friction. <i>Carbon</i> , <b>2018</b> , 132, 749-759	10.4	24
33	Friction model for single-asperity elastic-plastic contacts. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	23
32	Contrast in nanoscale friction between rotational domains of graphene on Pt(111). <i>Carbon</i> , <b>2017</b> , 113, 132-138	10.4	22
31	A kelvin probe force microscopy of charged indentation-induced dislocation structures in KBr. <i>Nanotechnology</i> , <b>2009</b> , 20, 264005	3.4	19
30	Mesoscale structure in electrodeposited nanocrystalline Ni <b>H</b> e alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 441, 336-341	5.3	19
29	Atomic-scale nanoindentation: detection and identification of single glide events in three dimensions by force microscopy. <i>Nanotechnology</i> , <b>2011</b> , 22, 425703	3.4	18
28	Contrast mechanisms on nanoscale subsurface imaging in ultrasonic AFM: scattering of ultrasonic waves and contact stiffness of the tip-sample. <i>Nanoscale</i> , <b>2017</b> , 9, 2330-2339	7.7	17
27	Molecular order and disorder in the frictional response of alkanethiol self-assembled monolayers. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 6942-7	2.8	17

## (2020-2021)

26	Enhancement of tribo-corrosion performance of carbon steel through boronizing and BN-based coatings. <i>Tribology International</i> , <b>2021</b> , 153, 106666	4.9	13
25	Tribological Behavior of Multi-scaled Patterned Surfaces Machined Through Inclined End Milling and Micro Shot Blasting. <i>Tribology Letters</i> , <b>2018</b> , 66, 1	2.8	11
24	Directional friction surfaces through asymmetrically shaped dimpled surfaces patterned using inclined flat end milling. <i>Tribology International</i> , <b>2015</b> , 91, 67-73	4.9	10
23	Effect of counterface on cartilage boundary lubricating ability by proteoglycan 4 and hyaluronan: Cartilage-glass versus cartilage-cartilage. <i>Journal of Orthopaedic Research</i> , <b>2018</b> , 36, 2923-2931	3.8	10
22	Molecular dynamics simulation of amplitude modulation atomic force microscopy. <i>Nanotechnology</i> , <b>2015</b> , 26, 235705	3.4	10
21	Reinterpretation of velocity-dependent atomic friction: influence of the inherent instrumental noise in friction force microscopes. <i>Physical Review E</i> , <b>2014</b> , 90, 012125	2.4	10
20	Adhesion Mechanics between Nanoscale Silicon Oxide Tips and Few-Layer Graphene. <i>Tribology Letters</i> , <b>2017</b> , 65, 1	2.8	9
19	Tip convolution on HOPG surfaces measured in AM-AFM and interpreted using a combined experimental and simulation approach. <i>Nanotechnology</i> , <b>2017</b> , 28, 025702	3.4	7
18	Temporal development of indentation plasticity on the atomic scale revealed by force microscopy. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	7
17	Quantitative analysis of nanoscale electrical properties of CNT/PVDF nanocomposites by current sensing AFM. <i>RSC Advances</i> , <b>2017</b> , 7, 32564-32573	3.7	4
16	Seeking Supersolidity in Helium Layers. <i>Physics Magazine</i> , <b>2013</b> , 6,	1.1	3
15	Mechanisms of friction reduction of nanoscale sliding contacts achieved through ultrasonic excitation. <i>Nanotechnology</i> , <b>2019</b> , 30, 075502	3.4	3
14	Nanoscale spatial mapping of mechanical properties through dynamic atomic force microscopy. Beilstein Journal of Nanotechnology, <b>2019</b> , 10, 1332-1347	3	2
13	Reduction of Friction Using Electrospun Polymer Composite Microbeads Emulsified in Mineral Oil. <i>Procedia Manufacturing</i> , <b>2017</b> , 10, 339-350	1.5	2
12	The Role of Plastic Deformation in Nanometer-Scale Wear. <i>Advances in Science and Technology</i> , <b>2010</b> , 64, 25-32	0.1	2
11	Nano-meter scale plasticity in KBr studied by nanoindenter and force microscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1185, 90		2
10	Tribo-corrosion inhibition of AISI 4715 steel pipe carrying hydraulic fracturing fluid. <i>Tribology International</i> , <b>2021</b> , 161, 107066	4.9	2
9	Quantitative determination of the interaction potential between two surfaces using frequency-modulated atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , <b>2020</b> , 11, 729-739	3	1

8	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> , <b>2019</b> , 554, 305-314	9.3	1
7	A Novel Tribometer Designed to Evaluate Geological Sliding Contacts Lubricated by Drilling Muds. <i>Journal of Testing and Evaluation</i> , <b>2019</b> , 47, 20170468	1	1
6	Insights into dynamic sliding contacts from conductive atomic force microscopy. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4117-4124	5.1	1
5	Influence of heating on the measured friction behavior of graphene evaluated under ultra-high vacuum conditions. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 063102	3.4	1
4	Prediction of Optimal Process Parameters in Tribocorrosion Inhibition of Steel Pipes Using Response Surface Methodology. <i>Tribology Letters</i> , <b>2021</b> , 69, 1	2.8	0
3	Mesoscale Compositionally Modulated Nanocrystalline Ni-Fe Electrodeposits for Nanopatterning Applications. <i>Journal of Nanomaterials</i> , <b>2008</b> , 2008, 1-8	3.2	
2	Layer dependent out-of-plane elastic modulus of graphene. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 263101	3.4	
T	Atomic-Scale Friction 2018, 40-54		