

# Ashlie Martini

## List of Publications by Citations

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152  
papers

8,577  
citations

35  
h-index

91  
g-index

168  
ext. papers

10,369  
ext. citations

5.2  
avg, IF

6.47  
L-index

#	Paper	IF	Citations
152	Cellulose nanomaterials review: structure, properties and nanocomposites. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 3941-94	58.5	4087
151	Processing bulk natural wood into a high-performance structural material. <i>Nature</i> , <b>2018</b> , 554, 224-228	50.4	558
150	A radiative cooling structural material. <i>Science</i> , <b>2019</b> , 364, 760-763	33.3	419
149	Speed dependence of atomic stick-slip friction in optimally matched experiments and molecular dynamics simulations. <i>Physical Review Letters</i> , <b>2011</b> , 106, 126101	7.4	138
148	Solid Lubrication with MoS <sub>2</sub> : A Review. <i>Lubricants</i> , <b>2019</b> , 7, 57	3.1	132
147	Thermal expansion of self-organized and shear-oriented cellulose nanocrystal films. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2900-8	6.9	119
146	Molecular dynamics simulation of atomic friction: A review and guide. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 030801	2.9	109
145	Lubricious oxide coatings for extreme temperature applications: A review. <i>Surface and Coatings Technology</i> , <b>2014</b> , 257, 266-277	4.4	107
144	Synergetic effects of surface texturing and solid lubricants to tailor friction and wear [A review]. <i>Tribology International</i> , <b>2021</b> , 155, 106792	4.9	99
143	Slip at high shear rates. <i>Physical Review Letters</i> , <b>2008</b> , 100, 206001	7.4	97
142	Thermal conductivity in nanostructured films: from single cellulose nanocrystals to bulk films. <i>Biomacromolecules</i> , <b>2014</b> , 15, 4096-101	6.9	89
141	Crystalline cellulose elastic modulus predicted by atomistic models of uniform deformation and nanoscale indentation. <i>Cellulose</i> , <b>2013</b> , 20, 43-55	5.5	88
140	Tensile strength of crystalline cellulose predicted by molecular dynamics simulation. <i>Cellulose</i> , <b>2014</b> , 21, 2233-2245	5.5	82
139	Molecular mechanisms of liquid slip. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 600, 257-269	3.7	81
138	Atomic roughness enhanced friction on hydrogenated graphene. <i>Nanotechnology</i> , <b>2013</b> , 24, 375701	3.4	77
137	Adaptive NbN/Ag coatings for high temperature tribological applications. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 4316-4321	4.4	74
136	Emerging superlubricity: A review of the state of the art and perspectives on future research. <i>Applied Physics Reviews</i> , <b>2018</b> , 5, 041102	17.3	73

135	Mechanochemistry at Solid Surfaces: Polymerization of Adsorbed Molecules by Mechanical Shear at Tribological Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3142-3148	9.5	67
134	Analytical Models for Atomic Friction. <i>Tribology Letters</i> , <b>2011</b> , 44, 367-386	2.8	63
133	Review of Viscosity Modifier Lubricant Additives. <i>Tribology Letters</i> , <b>2018</b> , 66, 1	2.8	60
132	Environmental dependence of atomic-scale friction at graphite surface steps. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	58
131	Simulation of Sliding Wear in Mixed Lubrication. <i>Journal of Tribology</i> , <b>2007</b> , 129, 544-552	1.8	58
130	Origin of Nanoscale Friction Contrast between Supported Graphene, MoS, and a Graphene/MoS Heterostructure. <i>Nano Letters</i> , <b>2019</b> , 19, 5496-5505	11.5	55
129	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
128	Liquid slip in nanoscale channels as a rate process. <i>Physical Review Letters</i> , <b>2007</b> , 98, 226001	7.4	53
127	Surface amorphization of NiTi alloy induced by Ultrasonic Nanocrystal Surface Modification for improved mechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2016</b> , 53, 455-462	4.1	50
126	Shear-Induced Mechanochemistry: Pushing Molecules Around. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 7115-7123	3.8	48
125	Load-Dependent Friction Hysteresis on Graphene. <i>ACS Nano</i> , <b>2016</b> , 10, 5161-8	16.7	46
124	Measuring and Understanding Contact Area at the Nanoscale: A Review. <i>Applied Mechanics Reviews</i> , <b>2017</b> , 69,	8.6	45
123	Poly(alkyl methacrylate) Brush-Grafted Silica Nanoparticles as Oil Lubricant Additives: Effects of Alkyl Pendant Groups on Oil Dispersibility, Stability, and Lubrication Property. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25038-25048	9.5	45
122	Carbon Nanotube Chirality Determines Efficiency of Electron Transfer to Fullerene in All-Carbon Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2914-2918	6.4	43
121	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
120	Friction Reduction in Mixed Lubrication. <i>Tribology Letters</i> , <b>2007</b> , 28, 139-147	2.8	42
119	A systematic study of mechanical properties, corrosion behavior and biocompatibility of AZ31B Mg alloy after ultrasonic nanocrystal surface modification. <i>Materials Science and Engineering C</i> , <b>2017</b> , 78, 1061-1071	8.3	37
118	Chemical and physical origins of friction on surfaces with atomic steps. <i>Science Advances</i> , <b>2019</b> , 5, eaaw0513	5.1	32

117	Rolling Contact Fatigue Performance of Vibro-Mechanical Textured Surfaces. <i>Tribology Transactions</i> , <b>2010</b> , 53, 610-620	1.8	31
116	Low-Speed Atomistic Simulation of Stick-Slip Friction using Parallel Replica Dynamics. <i>Tribology Letters</i> , <b>2009</b> , 36, 63-68	2.8	31
115	Effects of substrate surface roughness and nano/micro particle additive size on friction and wear in lubricated sliding. <i>Tribology International</i> , <b>2018</b> , 119, 88-98	4.9	30
114	Rate theory description of atomic stick-slip friction. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	30
113	Mechanochemical Association Reaction of Interfacial Molecules Driven by Shear. <i>Langmuir</i> , <b>2018</b> , 34, 5971-5977	4	29
112	Effect of tip shape on atomic-friction at graphite step edges. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 081601	3.4	29
111	Effect of roughness on the layer-dependent friction of few-layer graphene. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	29
110	Atomic friction at exposed and buried graphite step edges: Experiments and simulations. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 231603	3.4	27
109	A Multilevel Model for Elastic-Plastic Contact Between a Sphere and a Flat Rough Surface. <i>Journal of Tribology</i> , <b>2009</b> , 131,	1.8	26
108	Tribochemistry: A Review of Reactive Molecular Dynamics Simulations. <i>Lubricants</i> , <b>2020</b> , 8, 44	3.1	26
107	(Ag,Cu)-Ta-O ternaries as high-temperature solid-lubricant coatings. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 15422-9	9.5	25
106	Atomistic simulation of the load dependence of nanoscale friction on suspended and supported graphene. <i>Langmuir</i> , <b>2014</b> , 30, 14707-11	4	23
105	Atomistic simulation of the effect of roughness on nanoscale wear. <i>Computational Materials Science</i> , <b>2015</b> , 102, 208-212	3.2	21
104	In Situ Measurements of Boundary Film Formation Pathways and Kinetics: Dimethyl and Diethyl Disulfide on Copper. <i>Tribology Letters</i> , <b>2016</b> , 62, 1	2.8	20
103	The Roles of Statics and Dynamics in Determining Transitions Between Atomic Friction Regimes. <i>Tribology Letters</i> , <b>2011</b> , 42, 99-107	2.8	18
102	Thermal activation in atomic friction: revisiting the theoretical analysis. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 265001	1.8	18
101	Evaluation of reactive force fields for prediction of the thermo-mechanical properties of cellulose. <i>Computational Materials Science</i> , <b>2015</b> , 109, 330-340	3.2	17
100	Atomic Friction Modulation on the Reconstructed Au(111) Surface. <i>Tribology Letters</i> , <b>2011</b> , 43, 369-378	2.8	17

99	Experiments and simulations of the humidity dependence of friction between nanoasperities and graphite: The role of interfacial contact quality. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	17
98	Oscillatory motion in layered materials: graphene, boron nitride, and molybdenum disulfide. <i>Nanotechnology</i> , <b>2015</b> , 26, 165701	3.4	16
97	Effect of molecular structure on liquid slip. <i>Physical Review E</i> , <b>2011</b> , 84, 066311	2.4	16
96	Friction, slip and structural inhomogeneity of the buried interface. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2011</b> , 19, 065003	2	16
95	Highly Oriented MoS <sub>2</sub> Coatings: Tribology and Environmental Stability. <i>Tribology Letters</i> , <b>2016</b> , 64, 1	2.8	16
94	Amorphization-assisted nanoscale wear during the running-in process. <i>Wear</i> , <b>2017</b> , 370-371, 46-50	3.5	15
93	Hierarchical structures on nickel-titanium fabricated by ultrasonic nanocrystal surface modification. <i>Materials Science and Engineering C</i> , <b>2018</b> , 93, 12-20	8.3	15
92	The role of fragility in EHL entrapment. <i>Tribology International</i> , <b>2010</b> , 43, 277-282	4.9	15
91	Friction Anisotropy of MoS: Effect of Tip-Sample Contact Quality. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 6900-6906	6.4	15
90	Low molecular weight polymethacrylates as multi-functional lubricant additives. <i>European Polymer Journal</i> , <b>2018</b> , 104, 39-44	5.2	14
89	Development of a ReaxFF Force Field for Cu/S/C/H and Reactive MD Simulations of Methyl Thiolate Decomposition on Cu (100). <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 888-896	3.4	14
88	Chemical Basis of the Tribological Properties of AgTaO <sub>3</sub> Crystal Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 17577-17584	3.8	14
87	Compressibility of Thin Film Lubricants Characterized Using Atomistic Simulation. <i>Tribology Letters</i> , <b>2010</b> , 38, 33-38	2.8	14
86	Prediction of subsurface stress in elastic perfectly plastic rough components. <i>Tribology Letters</i> , <b>2006</b> , 23, 243-251	2.8	14
85	Atomistic Simulation of Frictional Sliding Between Cellulose Nanocrystals. <i>Tribology Letters</i> , <b>2013</b> , 52, 395-405	2.8	13
84	Substrate effect on electrical conductance at a nanoasperity-graphene contact. <i>Carbon</i> , <b>2018</b> , 137, 118-124	2.4	13
83	Influence of Potential Shape on Constant-Force Atomic-Scale Sliding Friction Models. <i>Tribology Letters</i> , <b>2015</b> , 60, 1	2.8	12
82	Structure-stability relationships for graphene-wrapped fullerene-coated carbon nanotubes. <i>Carbon</i> , <b>2013</b> , 61, 458-466	10.4	12

81	Effect of Molecular-Scale Features on the Polymer Coil Size of Model Viscosity Index Improvers. <i>Tribology Letters</i> , <b>2016</b> , 62, 1	2.8	12
80	Predicting Pressure-Viscosity Behavior from Ambient Viscosity and Compressibility: Challenges and Opportunities. <i>Tribology Letters</i> , <b>2015</b> , 57, 1	2.8	11
79	Decomposition Mechanisms of Anti-wear Lubricant Additive Tricresyl Phosphate on Iron Surfaces Using DFT and Atomistic Thermodynamic Studies. <i>Tribology Letters</i> , <b>2018</b> , 66, 1	2.8	11
78	Transient Three-Dimensional Solution for Thermoelastic Displacement Due to Surface Heating and Convective Cooling. <i>Journal of Tribology</i> , <b>2005</b> , 127, 750-755	1.8	11
77	Nanoscale Friction Behavior of Transition-Metal Dichalcogenides: Role of the Chalcogenide. <i>ACS Nano</i> , <b>2020</b> , 14, 16013-16021	16.7	11
76	Trends in Thermoresponsive Behavior of Lipophilic Polymers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 12983-12990	3.9	11
75	Quantitative measurement of contact area and electron transport across platinum nanocontacts for scanning probe microscopy and electrical nanodevices. <i>Nanotechnology</i> , <b>2019</b> , 30, 045705	3.4	11
74	Correlating Molecular Structure to the Behavior of Linear Styrene-Butadiene Viscosity Modifiers. <i>Tribology Letters</i> , <b>2017</b> , 65, 1	2.8	10
73	Mechanical characterization of diesel soot nanoparticles: in situ compression in a transmission electron microscope and simulations. <i>Nanotechnology</i> , <b>2018</b> , 29, 085703	3.4	10
72	Effect of Atomic Corrugation on Adhesion and Friction: A Model Study with Graphene Step Edges. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6455-6461	6.4	10
71	Size and load dependence of nanoscale electric contact resistance. <i>Tribology International</i> , <b>2014</b> , 71, 109-113	4.9	10
70	Molecular dynamics simulation of amplitude modulation atomic force microscopy. <i>Nanotechnology</i> , <b>2015</b> , 26, 235705	3.4	10
69	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
68	Structural and Chemical Evolution of the Near-Apex Region of an Atomic Force Microscope Tip Subject to Sliding. <i>Tribology Letters</i> , <b>2014</b> , 53, 181-187	2.8	10
67	Model predictions of shear strain-induced ridge defects in graphene. <i>Carbon</i> , <b>2011</b> , 49, 3571-3578	10.4	10
66	Atomistic simulations of contact area and conductance at nanoscale interfaces. <i>Nanoscale</i> , <b>2017</b> , 9, 16852-16857	7.1	10
65	Measurement of electrical contact resistance at nanoscale gold-graphite interfaces. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 091602	3.4	9
64	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 823-829	4.9	9

63	Substituent Effects on the Thermal Decomposition of Phosphate Esters on Ferrous Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 9852-9865	3.8	9
62	Combined Experimental and Simulation Study of Amplitude Modulation Atomic Force Microscopy Measurements of Self-Assembled Monolayers in Water. <i>Langmuir</i> , <b>2018</b> , 34, 9627-9633	4	9
61	Effect of Substrate Support on Dynamic Graphene/Metal Electrical Contacts. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	9
60	Matching Atomistic Simulations and In Situ Experiments to Investigate the Mechanics of Nanoscale Contact. <i>Tribology Letters</i> , <b>2019</b> , 67, 1	2.8	9
59	Lubricant Chemistry and Rheology Effects on Hydraulic Motor Starting Efficiency. <i>Tribology Transactions</i> , <b>2012</b> , 55, 549-557	1.8	9
58	Nano-scale roughness effects on hysteresis in micro-scale adhesive contact. <i>Tribology International</i> , <b>2013</b> , 58, 40-46	4.9	9
57	Origin of High Friction at Graphene Step Edges on Graphite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 1895-1902	9.5	9
56	Heat-, Load-, and Shear-Driven Reactions of Di-tert-butyl Disulfide on Fe(100). <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 19688-19692	3.8	8
55	Suppression of atomic friction under cryogenic conditions: The role of athermal instability in AFM measurements. <i>Europhysics Letters</i> , <b>2012</b> , 98, 16002	1.6	8
54	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
53	Synergistic effect of nanodiamonds on the adsorption of tricresyl phosphate on iron oxide surfaces. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 171602	3.4	7
52	Statistical Analysis of Tri-Cresyl Phosphate Conversion on an Iron Oxide Surface Using Reactive Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , <b>2019</b> ,	3.8	7
51	Calculation of single chain cellulose elasticity using fully atomistic modeling. <i>Tappi Journal</i> , <b>2011</b> , 10, 37-42	0.5	7
50	Activation Volume in Shear-Driven Chemical Reactions. <i>Tribology Letters</i> , <b>2021</b> , 69, 1	2.8	7
49	Recent progress on phosphonium-based room temperature ionic liquids: Synthesis, properties, tribological performances and applications. <i>Tribology International</i> , <b>2021</b> , 167, 107331	4.9	7
48	Effects of laser shock peening on the corrosion behavior and biocompatibility of a nickel-titanium alloy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2019</b> , 107, 1854-1863	3.5	7
47	Thickening Mechanisms of Polyisobutylene in Polyalphaolefin. <i>Tribology Letters</i> , <b>2018</b> , 66, 1	2.8	7
46	Formation of MoS <sub>2</sub> from elemental Mo and S using reactive molecular dynamics simulations. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 022201	2.9	6

45	Stability and Structure of Nanometer-Thin Perfluoropolyether Films Using Molecular Simulations. <i>Tribology Letters</i> , <b>2014</b> , 54, 119-127	2.8	6
44	Confined fluid compressibility predicted using molecular dynamics simulation. <i>Tribology International</i> , <b>2011</b> , 44, 330-335	4.9	6
43	Ni-Doped MoS <sub>2</sub> Dry Film Lubricant Life. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2001109	4.6	6
42	Critical Shear Rate of Polymer-Enhanced Hydraulic Fluids. <i>Lubricants</i> , <b>2020</b> , 8, 102	3.1	6
41	Understanding contact between platinum nanocontacts at low loads: The effect of reversible plasticity. <i>Nanotechnology</i> , <b>2019</b> , 30, 035704	3.4	6
40	Reactive Molecular Dynamics Simulations of Thermal Film Growth from Di-tert-butyl Disulfide on an Fe(100) surface. <i>Langmuir</i> , <b>2018</b> , 34, 15681-15688	4	6
39	Atomistic simulation of frictional anisotropy on quasicrystal approximant surfaces. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	5
38	Filtration Effects on Foam Inhibitors and Optically Detected Oil Cleanliness. <i>Tribology Transactions</i> , <b>2017</b> , 60, 1159-1164	1.8	5
37	Measured and Predicted Static Friction for Real Rough Surfaces in Point Contact. <i>Journal of Tribology</i> , <b>2012</b> , 134,	1.8	5
36	Ambient and Nitrogen Environment Friction Data for Various Materials & Surface Treatments for Space Applications. <i>Tribology Letters</i> , <b>2021</b> , 69, 1	2.8	5
35	Effect of Ambient Chemistry on Friction at the Basal Plane of Graphite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40800-40807	9.5	4
34	Simulations of the effect of an oxide on contact area measurements from conductive atomic force microscopy. <i>Nanoscale</i> , <b>2019</b> , 11, 1029-1036	7.7	4
33	Identifying Physical and Chemical Contributions to Friction: A Comparative Study of Chemically Inert and Active Graphene Step Edges. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 30007-30015	9.5	4
32	Temporary and Permanent Viscosity Loss Correlated to Hydraulic System Performance. <i>Tribology Transactions</i> , <b>2018</b> , 61, 901-910	1.8	4
31	Effect of Temperature and Surface Roughness on the Tribological Behavior of Electric Motor Greases for Hybrid Bearing Materials. <i>Lubricants</i> , <b>2021</b> , 9, 59	3.1	4
30	Thermal Decomposition of Tricresyl Phosphate on Ferrous Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 5076-5087	3.8	4
29	Atomistic description of coupled thermal-mechanical stresses on a gold/HOPG nanocontact. <i>Computational Materials Science</i> , <b>2017</b> , 130, 165-171	3.2	3
28	Protein high-force pulling simulations yield low-force results. <i>PLoS ONE</i> , <b>2012</b> , 7, e34781	3.7	3



27	Evaluation of Force Fields for Molecular Dynamics Simulations of Platinum in Bulk and Nanoparticle Forms. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 4486-4498	6.4	3
26	Friction Dependence on Surface Roughness for Castor Oil Lubricated NiTi Alloy Sliding on Steel. <i>Tribology Transactions</i> , <b>2018</b> , 61, 1162-1166	1.8	3
25	Bifurcation of nanoscale thermolubric friction behavior for sliding on MoS <sub>2</sub> . <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	3
24	Molecular Dynamics Simulation of the Stress-Strain Behavior of Polyamide Crystals. <i>Macromolecules</i> , <b>2021</b> , 54, 8289-8302	5.5	3
23	Simulation of Subnanometer Contrast in Dynamic Atomic Force Microscopy of Hydrophilic Alkanethiol Self-Assembled Monolayers in Water. <i>Langmuir</i> , <b>2020</b> , 36, 2240-2246	4	2
22	The role of roughness-induced damping in the oscillatory motion of bilayer graphene. <i>Nanotechnology</i> , <b>2014</b> , 25, 425703	3.4	2
21	Enhancement of a simplified model for maximum stress prediction. <i>Tribology Letters</i> , <b>2007</b> , 27, 61-67	2.8	2
20	Improving the reliability of conductive atomic force microscopy-based electrical contact resistance measurements. <i>Nano Express</i> , <b>2020</b> , 1, 030023	2	2
19	Flexible all-carbon photovoltaics with improved thermal stability. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 224, 94-101	3.3	1
18	Limiting Domain Size of MoS <sub>2</sub> : Effects of Stoichiometry and Oxygen. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 27571-27579	3.8	1
17	Quantifying the pressure-dependence of work of adhesion in silicon-diamond contacts. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 051602	3.4	1
16	Identification of the Shear Plane During Sliding of Solid Boundary Films: Potassium Chloride Films on Iron. <i>Tribology Letters</i> , <b>2016</b> , 62, 1	2.8	1
15	Comment on A Note on the Two-Spring Tomlinson Model. <i>Tribology Letters</i> , <b>2012</b> , 45, 225-226	2.8	1
14	Progress in Tribology Through Integrated Simulations and Experiments. <i>Tribology Letters</i> , <b>2013</b> , 50, 1-1	2.8	1
13	Closure to Discussion of Measuring and Understanding Contact Area at the Nanoscale: A Review (Jacobs, T. D. B., and Ashlie Martini, A., 2017, ASME Appl. Mech. Rev., 69(6), p. 060802). <i>Applied Mechanics Reviews</i> , <b>2017</b> , 69,	8.6	1
12	Viscosity Dependence of Static Friction in Lubricated Metallic Line Contacts. <i>Tribology Transactions</i> , <b>2011</b> , 54, 333-340	1.8	1
11	Thermal decomposition of phosphonium salicylate and phosphonium benzoate ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 352, 118700	6	1
10	Insights into dynamic sliding contacts from conductive atomic force microscopy. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4117-4124	5.1	1

9	Time-Dependent Electrical Contact Resistance at the Nanoscale. <i>Tribology Letters</i> , <b>2021</b> , 69, 1	2.8	1
8	Quantifying Varnish Removal Using Chemical Flushes. <i>Tribology Transactions</i> , <b>2018</b> , 61, 1067-1073	1.8	1
7	Review of Molecular Dynamics Simulations of Phosphonium Ionic Liquid Lubricants. <i>Tribology Letters</i> , <b>2022</b> , 70, 1	2.8	1
6	Nanoscale Friction of Hydrophilic and Hydrophobic Self-Assembled Monolayers in Water. <i>Tribology Letters</i> , <b>2020</b> , 68, 1	2.8	0
5	Publishing Science in Tribology: The Past, Present and Future of Tribology Letters. <i>Tribology Letters</i> , <b>2021</b> , 69, 1	2.8	0
4	Reactive molecular dynamics simulations of thermal and shear-driven oligomerization. <i>Applied Surface Science</i> , <b>2022</b> , 591, 153209	6.7	0
3	In situ Mechanical Testing of Contacts Between Nanoscale Bodies: Measuring the Load-dependence of Contact Area.. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 746-747	0.5	
2	Platinum nanoparticle compression: Combining in situ TEM and atomistic modeling. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 013101	3.4	
1	Effect of polymer structure and chemistry on viscosity index, thickening efficiency, and traction coefficient of lubricants. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 359, 119215	6	