Michael Urbakh

List of Publications by Year
in descending order

181	8,748	36203 51	48187 88
papers	citations	h-index	g-index

183	183	183	5862
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The nonlinear nature of friction. Nature, 2004, 430, 525-528.	13.7	610
2	<i>Colloquium</i>: Modeling friction: From nanoscale to mesoscale. Reviews of Modern Physics, 2013, 85, 529-552.	16.4	436
3	Structural superlubricity and ultralow friction across the length scales. Nature, 2018, 563, 485-492.	13.7	382
4	Robust microscale superlubricity in graphite/hexagonal boron nitride layered heterojunctions. Nature Materials, 2018, 17, 894-899.	13.3	292
5	Interfacial ferroelectricity by van der Waals sliding. Science, 2021, 372, 1462-1466.	6.0	262
6	Beyond the conventional description of dynamic force spectroscopy of adhesion bonds. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11378-11381.	3.3	251
7	Role of substrate unbinding in Michaelisâ€“Menten enzymatic reactions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4391-4396.	3.3	205
8	Friction through Dynamical Formation and Rupture of Molecular Bonds. Physical Review Letters, 2004, 92, 135503.	2.9	198
9	Torque and Twist against Superlubricity. Physical Review Letters, 2008, 100, 046102.	2.9	190
10	Influence of Roughness on the Admittance of the Quartz Crystal Microbalance Immersed in Liquids. Analytical Chemistry, 2002, 74, 554-561.	3.2	157
11	Water transport inside carbon nanotubes mediated by phonon-induced oscillating friction. Nature Nanotechnology, 2015, 10, 692-695.	15.6	142
12	Multibond Dynamics of Nanoscale Friction: The Role of Temperature. Physical Review Letters, 2010, 104, 066104.	2.9	136
13	Observation of High-Speed Microscale Superlubricity in Graphite. Physical Review Letters, 2013, 110, 255504.	2.9	131
14	Statistical Mechanics of Static and Low-Velocity Kinetic Friction. Advances in Chemical Physics, 2003, , 187-272.	0.3	127
15	Dynamics of Transition from Static to Kinetic Friction. Physical Review Letters, 2009, 103, 194301.	2.9	123
16	Atomic Scale Engines: Cars and Wheels. Physical Review Letters, 2000, 84, 6058-6061.	2.9	120
17	Self-Assembly of Nanoparticle Arrays for Use as Mirrors, Sensors, and Antennas. ACS Nano, 2013, 7, 9526-9532.	7.3	120
18	Stick-Slip Motion and Force Fluctuations in a Driven Two-Wave Potential. Physical Review Letters, 1996, 77, 683-686.	2.9	117

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19	Michaelis-Menten reaction scheme as a unified approach towards the optimal restart problem. Physical Review E, 2015, 92, 060101.	0.8	116
20	Influence of the Surface Morphology on the Quartz Crystal Microbalance Response in a Fluid. Langmuir, 1994, 10, 2836-2841.	1.6	110
21	Sliding friction of graphene/hexagonal â€"boron nitride heterojunctions: a route to robust superlubricity. Scientific Reports, 2017, 7, 10851.	1.6	108
22	Effect of Surface Film Structure on the Quartz Crystal Microbalance Response in Liquids. Langmuir, 1996, 12, 6354-6360.	1.6	104
23	Nanoserpents: Graphene Nanoribbon Motion on Two-Dimensional Hexagonal Materials. Nano Letters, 2018, 18, 6009-6016.	4.5	104
24	Roughness effect on the frequency of a quartz-crystal resonator in contact with a liquid. Physical Review B, 1994, 49, 4866-4870.	1.1	102
25	Fundamentals and applications of self-assembled plasmonic nanoparticles at interfaces. Chemical Society Reviews, 2016, 45, 1581-1596.	18.7	99
26	Dynamic force spectroscopy: a Fokkerâ€"Planck approach. Chemical Physics Letters, 2002, 352, 499-504.	1.2	91
27	Double-layer capacitance on a rough metal surface. Physical Review E, 1996, 53, 6192-6199.	0.8	90
28	Dynamical Heat Channels. Physical Review Letters, 2003, 91, 194301.	2.9	87
29	Electrotunable Lubricity with Ionic Liquid Nanoscale Films. Scientific Reports, 2015, 5, 7698.	1.6	87
30	Electrotunable Friction with Ionic Liquid Lubricants: How Important Is the Molecular Structure of the Ions?. Journal of Physical Chemistry Letters, 2015, 6, 3998-4004.	2.1	87
31	Modifying Friction by Manipulating Normal Response to Lateral Motion. Physical Review Letters, 1999, 82, 4823-4826.	2.9	85
32	A Model of Electrowetting, Reversed Electrowetting, and Contact Angle Saturation. Langmuir, 2011, 27, 6031-6041.	1.6	80
33	Collapse Dynamics of Single Proteins Extended by Force. Biophysical Journal, 2010, 98, 2692-2701.	0.2	79
34	Probing static disorder in Arrhenius kinetics by single-molecule force spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11336-11340.	3.3	65
35	Double layer capacitance on a rough metal surface: Surface roughness measured by â€œDebye rulerâ€. Electrochimica Acta, 1997, 42, 2853-2860.	2.6	64
36	Single-molecule theory of enzymatic inhibition. Nature Communications, 2018, 9, 779.	5.8	64

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37	Negative Friction Coefficients in Superlubric Graphiteâ€“Hexagonal Boron Nitride Heterojunctions. Physical Review Letters, 2019, 122, 076102.	2.9	63
38	Observation of normal-force-independent superlubricity in mesoscopic graphite contacts. Physical Review B, 2016, 94, .	1.1	62
39	Structural lubricity in soft and hard matter systems. Nature Communications, 2020, 11, 4657.	5.8	62
40	Temperature-Induced Enhancement of Nanoscale Friction. Physical Review Letters, 2009, 102, 136102.	2.9	59
41	Origin of stick-slip motion in a driven two-wave potential. Physical Review E, 1996, 54, 6485-6494.	0.8	58
42	Controlling chaotic frictional forces. Physical Review E, 1998, 57, 7340-7343.	0.8	56
43	Nonlinear Poissonâ€“Boltzmann theory of a double layer at a rough metal/electrolyte interface: A new look at the capacitance data on solid electrodes. Journal of Chemical Physics, 1998, 108, 1715-1723.	1.2	56
44	Slow Cracklike Dynamics at the Onset of Frictional Sliding. Physical Review Letters, 2011, 107, 235501.	2.9	56
45	Stick-slip dynamics as a probe of frictional forces. Europhysics Letters, 1997, 39, 183-188.	0.7	54
46	Free and Bound States of Ions in Ionic Liquids, Conductivity, and Underscreening Paradox. Physical Review X, 2019, 9, .	2.8	54
47	Atomic Scale Friction and Different Phases of Motion of Embedded Molecular Systems. Journal of Physical Chemistry B, 1998, 102, 7924-7930.	1.2	53
48	Electrowetting with Electrolytes. Physical Review Letters, 2006, 97, 136102.	2.9	53
49	Friction on a Microstructured Elastomer Surface. Tribology Letters, 2013, 50, 3-15.	1.2	53
50	Water in Ionic Liquid Lubricants: Friend and Foe. ACS Nano, 2017, 11, 6825-6831.	7.3	53
51	Slippage at adsorbateâ€“electrolyte interface. Response of electrochemical quartz crystal microbalance to adsorption. Electrochimica Acta, 2000, 45, 3615-3621.	2.6	52
52	Molecular Motor that Never Steps Backwards. Physical Review Letters, 2000, 85, 491-494.	2.9	52
53	Critical Length Limiting Superlow Friction. Physical Review Letters, 2015, 114, 055501.	2.9	51
54	Controllable Thermal Conductivity in Twisted Homogeneous Interfaces of Graphene and Hexagonal Boron Nitride. Nano Letters, 2020, 20, 7513-7518.	4.5	50

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55	Stabilizing Stick-Slip Friction. Physical Review Letters, 2011, 107, 024301.	2.9	46
56	Static friction and the dynamics of interfacial rupture. Physical Review B, 2012, 86, .	1.1	46
57	Hopping around an entropic barrier created by force. Biochemical and Biophysical Research Communications, 2010, 403, 133-137.	1.0	45
58	Origin of Friction in Superlubric Graphite Contacts. Physical Review Letters, 2020, 125, 126102.	2.9	44
59	Theory of second-harmonic generation at the metal-electrolyte interface. Physical Review B, 1992, 45, 9339-9346.	1.1	43
60	DC currents in Hamiltonian systems by LÃ©vy flights. Physica D: Nonlinear Phenomena, 2002, 170, 131-142.	1.3	43
61	Electrovariable Nanoplasmonics and Self-Assembling Smart Mirrors. Journal of Physical Chemistry C, 2010, 114, 1735-1747.	1.5	43
62	Temperature Dependence of Friction at the Nanoscale: When the Unexpected Turns Normal. Tribology Letters, 2010, 39, 311-319.	1.2	43
63	Ultra-Low-Voltage Electrowetting. Journal of Physical Chemistry C, 2010, 114, 14885-14890.	1.5	43
64	Behavior of Quartz Crystal Microbalance in Nonadsorbed Gases at High Pressures. Langmuir, 1995, 11, 674-678.	1.6	40
65	Single-Molecule Tribology: Force Microscopy Manipulation of a Porphyrin Derivative on a Copper Surface. ACS Nano, 2016, 10, 713-722.	7.3	40
66	Atomic Scale Friction: What can be Deduced from the Response to a Harmonic Drive?. Physical Review Letters, 1998, 81, 1227-1230.	2.9	39
67	Frictional Properties of Nanojunctions Including Atomically Thin Sheets. Nano Letters, 2016, 16, 1878-1883.	4.5	39
68	Mechanical and Tribological Properties of Layered Materials under High Pressure: Assessing the Importance of Many-Body Dispersion Effects. Journal of Chemical Theory and Computation, 2020, 16, 666-676.	2.3	39
69	Low friction and rotational dynamics of crystalline flakes in solid lubrication. Europhysics Letters, 2011, 95, 66002.	0.7	38
70	Coupled ionâ€“interface dynamics and ion transfer across the interface of two immiscible liquids. Journal of Chemical Physics, 2002, 117, 6766-6779.	1.2	37
71	Dynamics of confined liquids under shear. Physical Review E, 1995, 51, 2137-2141.	0.8	32
72	Electronic distribution and second-harmonic generation at the metal-electrolyte interface. Physical Review B, 1993, 47, 6644-6650.	1.1	29

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73	Giant Stark effect in quantum dots at liquid/liquid interfaces: A new option for tunable optical filters. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18212-18214.	3.3	29
74	Reflection of light by metal nanoparticles at electrodes. Physical Chemistry Chemical Physics, 2012, 14, 1850.	1.3	28
75	Towards macroscale superlubricity. Nature Nanotechnology, 2013, 8, 893-894.	15.6	28
76	Roughness effect on the frictional force in boundary lubrication. Physical Review E, 1994, 49, 1424-1429.	0.8	27
77	Confined Molecules under Shear: From a Microscopic Description to Phenomenology. Physical Review Letters, 2001, 87, 275506.	2.9	27
78	Slip Sequences in Laboratory Experiments Resulting from Inhomogeneous Shear as Analogs of Earthquakes Associated with a Fault Edge. Pure and Applied Geophysics, 2011, 168, 2151-2166.	0.8	27
79	Temperature and velocity dependent friction of a microscale graphite-DLC heterostructure. Friction, 2020, 8, 462-470.	3.4	27
80	Electrotunable Lubrication with Ionic Liquids: the Effects of Cation Chain Length and Substrate Polarity. ACS Applied Materials & Interfaces, 2020, 12, 4105-4113.	4.0	27
81	Atomic-scale sliding friction on a contaminated surface. Nanoscale, 2018, 10, 6375-6381.	2.8	26
82	Load and Velocity Dependence of Friction Mediated by Dynamics of Interfacial Contacts. Physical Review Letters, 2019, 123, 116102.	2.9	26
83	Lateral Ordering in Nanoscale Ionic Liquid Films between Charged Surfaces Enhances Lubricity. ACS Nano, 2020, 14, 13256-13267.	7.3	26
84	Two-Fluid Model for the Interpretation of Quartz Crystal Microbalance Response: Tuning Properties of Polymer Brushes with Solvent Mixtures. Journal of Physical Chemistry C, 2013, 117, 4533-4543.	1.5	25
85	Mechanisms of Electrotunable Friction in Friction Force Microscopy Experiments with Ionic Liquids. Journal of Physical Chemistry C, 2018, 122, 5004-5012.	1.5	25
86	Principles of electrowetting with two immiscible electrolytic solutions. Journal of Physics Condensed Matter, 2006, 18, 2837-2869.	0.7	23
87	Single-Molecule Pulling Experiments: When the Stiffness of the Pulling Device Matters. Biophysical Journal, 2008, 95, L42-L44.	0.2	23
88	Accurate Quantification of Diffusion and Binding Kinetics of Nonâ€integral Membrane Proteins by FRAP. Traffic, 2011, 12, 1648-1657.	1.3	23
89	Formation and rupture of capillary bridges in atomic scale friction. Journal of Chemical Physics, 2012, 137, 164706.	1.2	23
90	The Princess and the Nanoscale Pea: Long-Range Penetration of Surface Distortions into Layered Materials Stacks. ACS Nano, 2019, 13, 7603-7609.	7.3	23

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91	Sheared liquids in the nanoscale range. Journal of Chemical Physics, 1995, 103, 10707-10713.	1.2	22
92	Structural Forces in Ionic Liquids: The Role of Ionic Size Asymmetry. Journal of Physical Chemistry B, 2022, 126, 1242-1253.	1.2	21
93	The Quartz Crystal Microbalance as a Tool for the Study of a â€œLiquidlike Layerâ€•at the Ice/Metal Interface. Journal of Physical Chemistry B, 2003, 107, 12485-12491.	1.2	20
94	Manipulating Single Enzymes by an External Harmonic Force. Physical Review Letters, 2007, 98, 168302.	2.9	20
95	Mesoscale Engines by Nonlinear Friction. Nano Letters, 2007, 7, 837-842.	4.5	20
96	Electrotunable lubricity with ionic liquids: the influence of nanoscale roughness. Faraday Discussions, 2017, 199, 279-297.	1.6	20
97	Stickâ€“slip dynamics of interfacial friction. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 184-189.	1.2	19
98	Effect of tip flexibility on stickâ€“slip motion in friction force microscopy experiments. Journal of Physics Condensed Matter, 2008, 20, 354002.	0.7	19
99	Electrowetting Dynamics Facilitated by Pulsing. Journal of Physical Chemistry C, 2010, 114, 22558-22565.	1.5	18
100	Unravelling the optical responses of nanoplasmonic mirror-on-mirror metamaterials. Physical Chemistry Chemical Physics, 2016, 18, 20486-20498.	1.3	18
101	Dependence of the Enzymatic Velocity on the Substrate Dissociation Rate. Journal of Physical Chemistry B, 2017, 121, 3437-3442.	1.2	18
102	Molecular motor with a built-in escapement device. Europhysics Letters, 2004, 68, 26-32.	0.7	17
103	Optical Properties of Ordered Self-Assembled Nanoparticle Arrays at Interfaces. Journal of Physical Chemistry C, 2014, 118, 23264-23273.	1.5	17
104	The breakdown of superlubricity by driving-induced commensurate dislocations. Scientific Reports, 2015, 5, 16134.	1.6	17
105	Random search with resetting as a strategy for optimal pollination. Physical Review E, 2019, 99, 052119.	0.8	17
106	Parity-Dependent MoirÃ© Superlattices in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Graphene</mml:mi><mml:mo>/</mml:mo><mml:mi>h</mml:mi><mml:mtext>â^’</mml:mtext> Heterostructures: A Route to Mechanomutable Metamaterials. Physical Review Letters, 2021, 126, 216101.	2.9	17
107	Nanoparticles at electrified liquidâ€“liquid interfaces: new options for electro-optics. Faraday Discussions, 2009, 143, 109.	1.6	16
108	Probing and tuning frictional aging at the nanoscale. Scientific Reports, 2013, 3, 1896.	1.6	16

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109	Nanoscopic Friction under Electrochemical Control. Physical Review Letters, 2014, 112, 055502.	2.9	16
110	Load-velocity-temperature relationship in frictional response of microscopic contacts. Journal of the Mechanics and Physics of Solids, 2020, 137, 103880.	2.3	16
111	Mechanisms of frictional energy dissipation at graphene grain boundaries. Physical Review B, 2021, 103, .	1.1	16
112	Inverted stickâ€“slip friction: What is the mechanism?. Journal of Chemical Physics, 2002, 116, 6871-6874.	1.2	15
113	Electrotunable Friction in Diluted Room Temperature Ionic Liquids: Implications for Nanotribology. ACS Applied Nano Materials, 2020, 3, 10708-10719.	2.4	15
114	Macroscopic versus microscopic description of friction: from Tomlinson model to shearons. Tribology Letters, 2000, 9, 45-54.	1.2	14
115	Diffusion through Bifurcations in Oscillating Nano- and Microscale Contacts: Fundamentals and Applications. Physical Review X, 2015, 5, .	2.8	14
116	Load-induced dynamical transitions at graphene interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12618-12623.	3.3	14
117	Superlubric polycrystalline graphene interfaces. Nature Communications, 2021, 12, 5694.	5.8	14
118	Chemical Control of Friction: Mixed Lubricant Monolayers. Tribology Letters, 2002, 12, 217-227.	1.2	12
119	Surface tension and ion transfer across the interface of two immiscible electrolytes. Electrochemistry Communications, 2004, 6, 693-699.	2.3	12
120	Anisotropic Interlayer Force Field for Transition Metal Dichalcogenides: The Case of Molybdenum Disulfide. Journal of Chemical Theory and Computation, 2021, 17, 7237-7245.	2.3	12
121	Catalytic Growth of Ultralong Graphene Nanoribbons on Insulating Substrates. Advanced Materials, 2022, 34, e2200956.	11.1	12
122	Velocity Profiles and the Brinkman Equation in Nanoscale Confined Liquids. Europhysics Letters, 1995, 32, 125-130.	0.7	11
123	Frictional forces in an electrolytic environment. Physical Review E, 1999, 59, 1921-1931.	0.8	11
124	Analyzing friction forces with the Jarzynski equality. Journal of Physics Condensed Matter, 2008, 20, 354008.	0.7	11
125	Voltage-dependent capacitance of metallic nanoparticles at a liquid/liquid interface. Physical Chemistry Chemical Physics, 2012, 14, 1371-1380.	1.3	11
126	Friction and adhesion mediated by supramolecular hostâ€“guest complexes. Physical Chemistry Chemical Physics, 2016, 18, 9248-9254.	1.3	11

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127	Structural Forces in Mixtures of Ionic Liquids with Organic Solvents. Langmuir, 2019, 35, 15410-15420.	1.6	11
128	Effect of capillary waves on the double layer capacitance of the interface between two immiscible electrolytes. Electrochimica Acta, 1999, 45, 685-690.	2.6	10
129	Embedded systems under shear: Relationship between shear-induced modes and frictional behavior. Europhysics Letters, 2000, 50, 326-332.	0.7	10
130	The distinctive electrowetting properties of ITIES. Journal of Physics Condensed Matter, 2007, 19, 375113.	0.7	10
131	The effect of electric field on capillary waves at the interface of two immiscible electrolytes. Chemical Physics Letters, 1999, 309, 137-142.	1.2	9
132	ITIES fluctuations induced by easily transferable ions. Chemical Physics, 2005, 319, 253-260.	0.9	9
133	Multivalent Adhesion and Friction Dynamics Depend on Attachment Flexibility. Journal of Physical Chemistry C, 2017, 121, 15888-15896.	1.5	9
134	Model for Bundling of Keratin Intermediate Filaments. Biophysical Journal, 2020, 119, 65-74.	0.2	9
135	Directional anisotropy of friction in microscale superlubric graphite/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>h</mml:mi><mml:mi>BN</mml:mi></mml:mrow></mm heterojunctions. Physical Review Materials, 2021, 5, .	0.9	9
136	Electron tunneling through a dielectric barrier. Journal of Chemical Physics, 1994, 101, 8224-8237.	1.2	8
137	The effect of lateral vibrations on transport and friction in nanoscale contacts. Tribology International, 2007, 40, 967-972.	3.0	8
138	Structural effects in nanotribology of nanoscale films of ionic liquids confined between metallic surfaces. Physical Chemistry Chemical Physics, 2021, 23, 22174-22183.	1.3	8
139	Saltatory drift in a randomly driven two-wave potential. Journal of Physics Condensed Matter, 2005, 17, S3697-S3707.	0.7	7
140	Effects of molecule anchoring and dispersion on nanoscopic friction under electrochemical control. Journal of Physics Condensed Matter, 2016, 28, 105001.	0.7	7
141	Flatlands in the Holy Land: The Evolution of Layered Materials Research in Israel. Advanced Materials, 2018, 30, e1706581.	11.1	7
142	Direct Measurement of Adhesions of Liquids on Graphite. Journal of Physical Chemistry C, 2019, 123, 11671-11676.	1.5	7
143	Static friction boost in edge-driven incommensurate contacts. Physical Review Materials, 2018, 2, .	0.9	7
144	Control of friction by shear induced phase transitions. Physical Review B, 2002, 66, .	1.1	6

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145	Manipulations of Individual Molecules by Scanning Probes. Nano Letters, 2003, 3, 795-798.	4.5	6
146	Light-driven molecular machine at ITIES. Journal of Physics Condensed Matter, 2007, 19, 375111.	0.7	6
147	Registry-Dependent Peeling of Layered Material Interfaces: The Case of Graphene Nanoribbons on Hexagonal Boron Nitride. ACS Applied Materials & Interfaces, 2021, 13, 43533-43539.	4.0	6
148	Looking at Friction through â€œShearonsâ€â€. Journal of Physical Chemistry B, 2000, 104, 3791-3794.	1.2	5
149	Direct energy transfer at electrified liquidâ€"liquid interfaces: a way to study interface morphology on mesoscopic scales. Electrochemistry Communications, 2004, 6, 703-707.	2.3	5
150	Some new aspects of LÃ©vy walks and flights: directed transport, manipulation through flights and population exchange. Physica D: Nonlinear Phenomena, 2004, 187, 89-99.	1.3	5
151	Ion emission from ferroelectric media. Journal of Applied Physics, 1992, 72, 1952-1954.	1.1	4
152	Deducing energy dissipation from rheological response. Journal of Chemical Physics, 1999, 110, 1263-1266.	1.2	4
153	Thermal Friction Enhancement in Zwitterionic Monolayers. Journal of Physical Chemistry C, 2022, 126, 2797-2805.	1.5	4
154	The escape of a particle from a driven harmonic potential to an attractive surface. Journal of Chemical Physics, 2006, 125, 204705.	1.2	3
155	Friction through reversible jumps of surface atoms. Journal of Physics Condensed Matter, 2014, 26, 315005.	0.7	3
156	Negative tension controls stability and structure of intermediate filament networks. Scientific Reports, 2022, 12, 16.	1.6	3
157	Interlayer Registry Index of Layered Transition Metal Dichalcogenides. Journal of Physical Chemistry Letters, 2022, 13, 3353-3359.	2.1	3
158	Microscopic mechanisms of frictional aging. Journal of the Mechanics and Physics of Solids, 2022, 166, 104944.	2.3	3
159	Dynamics of molecules near interfaces. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 102, 29-33.	2.0	2
160	Following Single Molecules by Force Spectroscopy. Israel Journal of Chemistry, 2004, 44, 363-372.	1.0	2
161	Actin-based motility: cooperative symmetry-breaking and phases of motion. Journal of Physics Condensed Matter, 2005, 17, S3929-S3944.	0.7	2
162	Functionalized Liquidâ€"Liquid Interfaces. Journal of Physics Condensed Matter, 2007, 19, 370301.	0.7	2

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163	Electrotunable wetting, and micro- and nanofluidics: general discussion. Faraday Discussions, 2017, 199, 195-237.	1.6	2
164	Life time of catch bond clusters. Physica A: Statistical Mechanics and Its Applications, 2018, 507, 398-405.	1.2	2
165	Theoretical demonstration of a capacitive rotor for generation of alternating current from mechanical motion. Nature Communications, 2021, 12, 3678.	5.8	2
166	Sliding on the edge. Nature Materials, 2022, 21, 12-14.	13.3	2
167	Frictional Forces in Thin Liquid Films. Materials Research Society Symposia Proceedings, 1994, 366, 129.	0.1	1
168	Atomic scale friction: from basic characteristics to control. Physica A: Statistical Mechanics and Its Applications, 1999, 266, 272-279.	1.2	1
169	Surface Polaron Effect on the Ion Transfer across the Interface of Two Immiscible Electrolytes. Russian Journal of Electrochemistry, 2003, 39, 119-125.	0.3	1
170	Friction at the nanoscale. Journal of Physics Condensed Matter, 2008, 20, 350301.	0.7	1
171	New Trends in Nanotribology. Tribology Letters, 2010, 39, 227-227.	1.2	1
172	Electrovariable nanoplasmonics: general discussion. Faraday Discussions, 2017, 199, 603-613.	1.6	1
173	Dielectric Friction in Restricted Geometries. Materials Research Society Symposia Proceedings, 1991, 248, 513.	0.1	0
174	Optical Response of Rough Metal Surfaces and Island Films. Materials Research Society Symposia Proceedings, 1991, 253, 451.	0.1	0
175	Interface Effect on Dipole-Dipole Interaction. Materials Research Society Symposia Proceedings, 1992, 290, 209.	0.1	0
176	Chaos and Force Fluctuations in Frictional Dynamics. Materials Research Society Symposia Proceedings, 1996, 464, 53.	0.1	0
177	Extended Tomlinson Model for Rheological Response. Materials Research Society Symposia Proceedings, 1998, 543, 69.	0.1	0
178	Molecular pumping and separation in a symmetric channel. Materials Research Society Symposia Proceedings, 2003, 790, 1.	0.1	0
179	Dynamic Force Spectroscopy: Effect of Thermal Fluctuations on Friction and Adhesion. ACS Symposium Series, 2004, , 29-40.	0.5	0
180	Nanotribology and voltage-controlled friction: general discussion. Faraday Discussions, 2017, 199, 349-376.	1.6	0

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181	Reply to 'On phonons and water flow enhancement in carbon nanotubes'. Nature Nanotechnology, 2017, 12, 1108-1108.	15.6	0