

Bo N J Persson

List of Publications by Year in descending order

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405
papers

26,433
citations

5430

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147
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414
all docs

414
docs citations

414
times ranked

12888
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Stability of Spinning Asteroids. Tribology Letters, 2022, 70, 1.	1.2	14
2	Air, Helium and Water Leakage in Rubber O-ring Seals with Application to Syringes. Tribology Letters, 2022, 70, 1.	1.2	6
3	Fluid Leakage in Static Rubber Seals. Tribology Letters, 2022, 70, 1.	1.2	9
4	Air leakage in seals with application to syringes. Applied Surface Science Advances, 2022, 8, 100222.	2.9	1
5	Dependency of sliding friction for two-dimensional systems on electronegativity. Physical Review B, 2022, 105, .	1.1	3
6	Comments on the Theory of Fluid Flow Between Solids with Anisotropic Roughness. Tribology Letters, 2021, 69, 1.	1.2	5
7	Cylinder-Flat Contact Mechanics with Surface Roughness. Tribology Letters, 2021, 69, 1.	1.2	8
8	A simple model for viscoelastic crack propagation. European Physical Journal E, 2021, 44, 3.	0.7	13
9	Rubber Wear and the Role of Transfer Films on Rubber Friction on Hard Rough Substrates. Tribology Letters, 2021, 69, 1.	1.2	6
10	Rubber Adhesion and Friction: Role of Surface Energy and Contamination Films. Frontiers in Mechanical Engineering, 2021, 6, .	0.8	8
11	Side-leakage of face mask. European Physical Journal E, 2021, 44, 75.	0.7	5
12	General theory of electroadhesion. Journal of Physics Condensed Matter, 2021, 33, 435001.	0.7	6
13	On Opening Crack Propagation in Viscoelastic Solids. Tribology Letters, 2021, 69, 1.	1.2	12
14	Conveyor Belt Drive Physics. Tribology Letters, 2020, 68, 1.	1.2	9
15	Fluid Leakage in Metallic Seals. Tribology Letters, 2020, 68, 1.	1.2	19
16	Plastic Deformation of Rough Metallic Surfaces. Tribology Letters, 2020, 68, 1.	1.2	24
17	Interfacial fluid flow for systems with anisotropic roughness. European Physical Journal E, 2020, 43, 25.	0.7	10
18	Sphere and cylinder contact mechanics during slip. Journal of the Mechanics and Physics of Solids, 2020, 143, 104094.	2.3	13

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19	Adhesion paradox: Why adhesion is usually not observed for macroscopic solids. <i>Physical Review E</i> , 2020, 102, 042803.	0.8	26
20	Cylinderâ€“flat-surface contact mechanics during sliding. <i>Physical Review E</i> , 2020, 102, 043002.	0.8	3
21	Lubricated sliding friction: Role of interfacial fluid slip and surface roughness. <i>European Physical Journal E</i> , 2020, 43, 9.	0.7	8
22	Comment on â€œOn the Origin of Frictional Energy Dissipationâ€•. <i>Tribology Letters</i> , 2020, 68, 1.	1.2	3
23	Viscoelastic Crack Propagation: Review of Theories and Applications. <i>Advances in Polymer Science</i> , 2020, , 377-420.	0.4	9
24	Electric field effect in heat transfer in 2D devices. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 255301.	0.7	9
25	Contact Mechanics for Solids with Randomly Rough Surfaces and Plasticity. <i>Lubricants</i> , 2019, 7, 90.	1.2	9
26	Electroadhesion with application to touchscreens. <i>Soft Matter</i> , 2019, 15, 1758-1775.	1.2	29
27	Adhesion and Friction for Three Tire Tread Compounds. <i>Lubricants</i> , 2019, 7, 20.	1.2	29
28	Linear and Nonlinear Viscoelastic Modulus of Rubber. <i>Lubricants</i> , 2019, 7, 22.	1.2	14
29	Surface topography and water contact angle of sandblasted and thermally annealed glass surfaces. <i>Journal of Chemical Physics</i> , 2019, 150, 054701.	1.2	4
30	Electroadhesion for soft adhesive pads and robotics: theory and numerical results. <i>Soft Matter</i> , 2019, 15, 8032-8039.	1.2	12
31	Physics of suction cups. <i>Soft Matter</i> , 2019, 15, 9482-9499.	1.2	33
32	Rolling friction of elastomers: role of strain softening. <i>Soft Matter</i> , 2019, 15, 9233-9243.	1.2	5
33	The dependency of adhesion and friction on electrostatic attraction. <i>Journal of Chemical Physics</i> , 2018, 148, 144701.	1.2	34
34	Adhesion, friction and viscoelastic properties for non-aged and aged Styrene Butadiene rubber. <i>Tribology International</i> , 2018, 121, 78-83.	3.0	13
35	Some Comments on Hydrogel and Cartilage Contact Mechanics and Friction. <i>Tribology Letters</i> , 2018, 66, 1.	1.2	13
36	On the load dependence of friction: Role of the long-range elastic coupling. <i>Tribology International</i> , 2018, 123, 209-215.	3.0	4

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37	Contact mechanics for polydimethylsiloxane: from liquid to solid. <i>Soft Matter</i> , 2018, 14, 1142-1148.	1.2	11
38	Influence of anisotropic surface roughness on lubricated rubber friction: Extended theory and an application to hydraulic seals. <i>Wear</i> , 2018, 410-411, 43-62.	1.5	25
39	Contact mechanics between the human finger and a touchscreen under electroadhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12668-12673.	3.3	64
40	Ice friction: Glacier sliding on hard randomly rough bed surface. <i>Journal of Chemical Physics</i> , 2018, 149, 234701.	1.2	9
41	On the Use of Silicon Rubber Replica for Surface Topography Studies. <i>Tribology Letters</i> , 2018, 66, 1.	1.2	13
42	Atomistic modeling of tribological properties of Pd and Al nanoparticles on a graphene surface. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1239-1246.	1.5	7
43	Elastic Contact Mechanics of Randomly Rough Surfaces: An Assessment of Advanced Asperity Models and Persson's Theory. <i>Tribology Letters</i> , 2018, 66, 1.	1.2	68
44	Adhesion between rubber and glass in dry and lubricated condition. <i>Journal of Chemical Physics</i> , 2018, 148, 234702.	1.2	14
45	Rubber friction: The contribution from the area of real contact. <i>Journal of Chemical Physics</i> , 2018, 148, 224701.	1.2	31
46	Adhesion and friction between glass and rubber in the dry state and in water: role of contact hydrophobicity. <i>Soft Matter</i> , 2018, 14, 5428-5441.	1.2	13
47	Interfacial leakage of elastomer seals at low temperatures. <i>International Journal of Pressure Vessels and Piping</i> , 2018, 160, 14-23.	1.2	23
48	The effect of surface roughness and viscoelasticity on rubber adhesion. <i>Soft Matter</i> , 2017, 13, 3602-3621.	1.2	89
49	Elastohydrodynamics for Soft Solids with Surface Roughness: Transient Effects. <i>Tribology Letters</i> , 2017, 65, 1.	1.2	4
50	Meeting the Contact-Mechanics Challenge. <i>Tribology Letters</i> , 2017, 65, 1.	1.2	232
51	Crack propagation in finite-sized viscoelastic solids with application to adhesion. <i>Europhysics Letters</i> , 2017, 119, 18002.	0.7	23
52	Simple contact mechanics model of the vertebrate cartilage. <i>Soft Matter</i> , 2017, 13, 6349-6362.	1.2	5
53	Rubber contact mechanics: adhesion, friction and leakage of seals. <i>Soft Matter</i> , 2017, 13, 9103-9121.	1.2	47
54	Role of Preload in Adhesion of Rough Surfaces. <i>Physical Review Letters</i> , 2017, 118, 238001.	2.9	36

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55	Dependency of Rubber Friction on Normal Force or Load: Theory and Experiment. Tire Science and Technology, 2017, 45, 25-54.	0.3	21
56	Fundamentals of Adhesion. , 2016, , .		1
57	Soft matter dynamics: Accelerated fluid squeeze-out during slip. Journal of Chemical Physics, 2016, 144, 124903.	1.2	18
58	Rubber friction directional asymmetry. Europhysics Letters, 2016, 116, 66002.	0.7	8
59	Contact mechanics for poroelastic, fluid-filled media, with application to cartilage. Journal of Chemical Physics, 2016, 145, 234703.	1.2	7
60	Silicone Rubber Adhesion and Sliding Friction. Tribology Letters, 2016, 62, 1.	1.2	19
61	The effect of surface nano-corrugation on the squeeze-out of molecular thin hydrocarbon films between curved surfaces with long range elasticity. Nanotechnology, 2016, 27, 445401.	1.3	8
62	Leakage of Metallic Seals: Role of Plastic Deformations. Tribology Letters, 2016, 63, 1.	1.2	25
63	Multiscale Contact Mechanics with Application to Seals and Rubber Friction on Dry and Lubricated Surfaces. Advances in Polymer Science, 2016, , 103-156.	0.4	11
64	Quantum Vavilov-Cherenkov radiation from shearing two transparent dielectric plates. Physical Review B, 2016, 93, .	1.1	3
65	The effect of finite roughness size and bulk thickness on the prediction of rubber friction and contact mechanics. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 1398-1409.	1.1	8
66	Rubber Friction on Ice: Experiments and Modeling. Tribology Letters, 2016, 62, 1.	1.2	40
67	On the dependency of friction on load: Theory and experiment. Europhysics Letters, 2016, 113, 56002.	0.7	17
68	Shearing Nanometer-Thick Confined Hydrocarbon Films: Friction and Adhesion. Tribology Letters, 2016, 62, 1.	1.2	6
69	General contact mechanics theory for randomly rough surfaces with application to rubber friction. Journal of Chemical Physics, 2015, 143, 224111.	1.2	28
70	Fluid contact angle on solid surfaces: Role of multiscale surface roughness. Journal of Chemical Physics, 2015, 143, 134705.	1.2	27
71	General theory of frictional heating with application to rubber friction. Journal of Physics Condensed Matter, 2015, 27, 175008.	0.7	21
72	Ice friction: Role of non-uniform frictional heating and ice premelting. Journal of Chemical Physics, 2015, 143, 224701.	1.2	42

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73	Author Response to the Comment by Popov on "Contact Mechanics for Randomly Rough Surfaces: On the Validity of the Method of Reduction of Dimensionality". Tribology Letters, 2015, 60, 1.	1.2	2
74	Friction and universal contact area law for randomly rough viscoelastic contacts. Journal of Physics Condensed Matter, 2015, 27, 105102.	0.7	44
75	Contact Mechanics for Randomly Rough Surfaces: On the Validity of the Method of Reduction of Dimensionality. Tribology Letters, 2015, 58, 1.	1.2	10
76	Rubber friction on road surfaces: Experiment and theory for low sliding speeds. Journal of Chemical Physics, 2015, 142, 194701.	1.2	94
77	Surface topography and contact mechanics of dry and wet human skin. Beilstein Journal of Nanotechnology, 2014, 5, 1341-1348.	1.5	36
78	Tire "Road Contact Stiffness. Tribology Letters, 2014, 56, 397-402.	1.2	30
79	Role of Frictional Heating in Rubber Friction. Tribology Letters, 2014, 56, 77-92.	1.2	24
80	Comment on "Fully covariant radiation force on a polarizable particle". New Journal of Physics, 2014, 16, 118001.	1.2	12
81	Thermal interface resistance: cross-over from nanoscale to macroscale. Journal of Physics Condensed Matter, 2014, 26, 015009.	0.7	8
82	Theory of adhesion: Role of surface roughness. Journal of Chemical Physics, 2014, 141, 124701.	1.2	162
83	On the Fractal Dimension of Rough Surfaces. Tribology Letters, 2014, 54, 99-106.	1.2	229
84	Rolling Friction: Comparison of Analytical Theory with Exact Numerical Results. Tribology Letters, 2014, 55, 15-21.	1.2	20
85	Role of hydrophobicity on interfacial fluid flow: Theory and some applications. European Physical Journal E, 2014, 37, 12.	0.7	17
86	Theory of viscoelastic lubrication. Tribology International, 2014, 72, 118-130.	3.0	53
87	Master curve of viscoelastic solid: Using causality to determine the optimal shifting procedure, and to test the accuracy of measured data. Polymer, 2014, 55, 565-571.	1.8	46
88	Finite-size scaling in the interfacial stiffness of rough elastic contacts. Physical Review E, 2013, 87, 062809.	0.8	87
89	Contact Mechanics and Friction on Dry and Wet Human Skin. Tribology Letters, 2013, 50, 17-30.	1.2	56
90	Comment on "Friction Between a Viscoelastic Body and a Rigid Surface with Random Self-Affine Roughness". Physical Review Letters, 2013, 111, 189401.	2.9	13

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91	On the Validity of the Method of Reduction of Dimensionality: Area of Contact, Average Interfacial Separation and Contact Stiffness. Tribology Letters, 2013, 52, 223-229.	1.2	13
92	Adhesion of cellulose fibers in paper. Journal of Physics Condensed Matter, 2013, 25, 045002.	0.7	42
93	Rubber friction for tire tread compound on road surfaces. Journal of Physics Condensed Matter, 2013, 25, 095007.	0.7	46
94	Adhesion: role of bulk viscoelasticity and surface roughness. Journal of Physics Condensed Matter, 2013, 25, 225004.	0.7	49
95	Contact electrification and the work of adhesion. Europhysics Letters, 2013, 103, 36003.	0.7	15
96	Static or breakloose friction for lubricated contacts: the role of surface roughness and dewetting. Journal of Physics Condensed Matter, 2013, 25, 445013.	0.7	29
97	On the origin of why static or breakloose friction is larger than kinetic friction, and how to reduce it: the role of aging, elasticity and sequential interfacial slip. Journal of Physics Condensed Matter, 2012, 24, 225008.	0.7	20
98	Self-Affine Elastic Contacts: Percolation and Leakage. Physical Review Letters, 2012, 108, 244301.	2.9	138
99	Time-Dependent Fluid Squeeze-Out Between Soft Elastic Solids with Randomly Rough Surfaces. Tribology Letters, 2012, 47, 409-416.	1.2	24
100	Effective Viscosity of Confined Hydrocarbons. Physical Review Letters, 2012, 108, 036102.	2.9	44
101	Contact mechanics for layered materials with randomly rough surfaces. Journal of Physics Condensed Matter, 2012, 24, 095008.	0.7	25
102	Elastic contact mechanics: Percolation of the contact area and fluid squeeze-out. European Physical Journal E, 2012, 35, 5.	0.7	49
103	Reply to the "Discussion of the Paper by Krick et al.: Optical In Situ Micro Tribometer for Analysis of Real Contact Area for Contact Mechanics, Adhesion, and Sliding Experiments". Tribology Letters, 2012, 46, 207-209.	1.2	2
104	Optical In Situ Micro Tribometer for Analysis of Real Contact Area for Contact Mechanics, Adhesion, and Sliding Experiments. Tribology Letters, 2012, 45, 185-194.	1.2	170
105	Lubrication in soft rough contacts: A novel homogenized approach. Part I - Theory. Soft Matter, 2011, 7, 10395.	1.2	61
106	Phononic heat transfer across an interface: thermal boundary resistance. Journal of Physics Condensed Matter, 2011, 23, 045009.	0.7	59
107	Quantum Friction. Physical Review Letters, 2011, 106, 094502.	2.9	104
108	Transverse and normal interfacial stiffness of solids with randomly rough surfaces. Journal of Physics Condensed Matter, 2011, 23, 085001.	0.7	115

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109	Near-field radiative heat transfer and van der Waals friction between closely spaced graphene and amorphous SiO ₂ . Journal of Physics: Conference Series, 2011, 291, 012018.	0.3	2
110	Interfacial separation between elastic solids with randomly rough surfaces: Comparison between theory and numerical techniques. Journal of the Mechanics and Physics of Solids, 2011, 59, 2355-2369.	2.3	126
111	Lubricated sliding dynamics: Flow factors and Stribeck curve. European Physical Journal E, 2011, 34, 113.	0.7	37
112	Rubber friction: Comparison of theory with experiment. European Physical Journal E, 2011, 34, 1-11.	0.7	75
113	Comment on "No quantum friction between uniformly moving plates". New Journal of Physics, 2011, 13, 068001.	1.2	19
114	Fluid squeeze-out between rough surfaces: comparison of theory with experiment. Journal of Physics Condensed Matter, 2011, 23, 355005.	0.7	10
115	Adhesion between elastic solids with randomly rough surfaces: Comparison of analytical theory with molecular-dynamics simulations. Europhysics Letters, 2011, 96, 66003.	0.7	38
116	Near-field radiative heat transfer between closely spaced graphene and amorphous SiO ₂ . Physical Review B, 2011, 83, .	1.1	67
117	Rubber friction and tire dynamics. Journal of Physics Condensed Matter, 2011, 23, 015003.	0.7	49
118	Heat transfer between elastic solids with randomly rough surfaces. European Physical Journal E, 2010, 31, 3-24.	0.7	78
119	Leak rate of seals: Effective-medium theory and comparison with experiment. European Physical Journal E, 2010, 31, 159-167.	0.7	100
120	Time-dependent fluid squeeze-out between solids with rough surfaces. European Physical Journal E, 2010, 32, 281-290.	0.7	33
121	Rolling friction for hard cylinder and sphere on viscoelastic solid. European Physical Journal E, 2010, 33, 327-333.	0.7	74
122	Heat transfer between graphene and amorphous SiO ₂ . Journal of Physics Condensed Matter, 2010, 22, 462201.	0.7	39
123	Lateral hopping of CO on Cu(111) induced by femtosecond laser pulses. Physical Review B, 2010, 82, .	1.1	3
124	Comment on "Diffusion and Dimer Formation of CO Molecules Induced by Femtosecond Laser Pulses". Physical Review Letters, 2010, 104, 239601.	2.9	0
125	Surface roughness of peeled adhesive tape: A mystery?. Europhysics Letters, 2010, 92, 46001.	0.7	25
126	Fluid dynamics at the interface between contacting elastic solids with randomly rough surfaces. Journal of Physics Condensed Matter, 2010, 22, 265004.	0.7	39

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127	Heat transfer between weakly coupled systems: Graphene on a-SiO ₂ . Europhysics Letters, 2010, 91, 56001.	0.7	39
128	On the dependence of the leak rate of seals on the skewness of the surface height probability distribution. Europhysics Letters, 2010, 90, 38002.	0.7	20
129	Velocity Dependence of Friction of Confined Hydrocarbons. Langmuir, 2010, 26, 8721-8728.	1.6	35
130	Surface-roughness-induced electric-field enhancement and triboluminescence. Europhysics Letters, 2010, 91, 46003.	0.7	27
131	Lateral hopping of CO molecules on Pt(111) surface by femtosecond laser pulses. Physical Review B, 2009, 80, .	1.1	6
132	Numerical and Experimental Investigation on O-Ring-Seals in Dynamic Applications. International Journal of Fluid Power, 2009, 10, 51-59.	0.7	11
133	Leak rate of seals: Comparison of theory with experiment. Europhysics Letters, 2009, 86, 44006.	0.7	70
134	On the transition from boundary lubrication to hydrodynamic lubrication in soft contacts. Journal of Physics Condensed Matter, 2009, 21, 185002.	0.7	53
135	Theory of powdery rubber wear. Journal of Physics Condensed Matter, 2009, 21, 485001.	0.7	26
136	Interfacial separation between elastic solids with randomly rough surfaces: comparison of experiment with theory. Journal of Physics Condensed Matter, 2009, 21, 015003.	0.7	40
137	Contact mechanics and rubber friction for randomly rough surfaces with anisotropic statistical properties. European Physical Journal E, 2009, 29, 275-284.	0.7	131
138	Influence of frozen capillary waves on contact mechanics. Wear, 2008, 264, 746-749.	1.5	11
139	Nanodroplets on rough hydrophilic and hydrophobic surfaces. European Physical Journal E, 2008, 25, 139-152.	0.7	56
140	Frictional properties of confined polymers. European Physical Journal E, 2008, 27, 37-46.	0.7	33
141	On Pattern Transfer in Replica Molding. Langmuir, 2008, 24, 6636-6639.	1.6	30
142	Theory of the interaction forces and the radiative heat transfer between moving bodies. Physical Review B, 2008, 78, .	1.1	79
143	On the origin of Amontons's friction law. Journal of Physics Condensed Matter, 2008, 20, 395006.	0.7	59
144	Contact mechanics: contact area and interfacial separation from small contact to full contact. Journal of Physics Condensed Matter, 2008, 20, 215214.	0.7	152

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145	Rubber friction on (apparently) smooth lubricated surfaces. Journal of Physics Condensed Matter, 2008, 20, 085223.	0.7	30
146	Capillary adhesion between elastic solids with randomly rough surfaces. Journal of Physics Condensed Matter, 2008, 20, 315007.	0.7	71
147	On the elastic energy and stress correlation in the contact between elastic solids with randomly rough surfaces. Journal of Physics Condensed Matter, 2008, 20, 312001.	0.7	58
148	Heat transfer between adsorbate and laser-heated hot electrons. Journal of Physics Condensed Matter, 2008, 20, 224016.	0.7	8
149	Contact mechanics with adhesion: Interfacial separation and contact area. Europhysics Letters, 2008, 84, 46004.	0.7	28
150	Adsorbate hopping via vibrational-mode coupling induced by femtosecond laser pulses. Physical Review B, 2008, 78, .	1.1	9
151	Molecular Dynamics Study of Contact Mechanics: Contact Area and Interfacial Separation from Small to Full Contact. Physical Review Letters, 2008, 100, 024303.	2.9	69
152	Theory of the leak-rate of seals. Journal of Physics Condensed Matter, 2008, 20, 315011.	0.7	117
153	van der Waals frictional drag induced by liquid flow in low-dimensional systems. Physical Review B, 2008, 77, .	1.1	5
154	Heating of adsorbate by vibrational-mode coupling. Physical Review B, 2008, 77, .	1.1	19
155	Title is missing!. Physics-Uspexhi, 2007, 50, 879.	0.8	30
156	Heat transfer at surfaces exposed to short-pulsed laser fields. Physical Review B, 2007, 76, .	1.1	16
157	Effect of Surface Roughness and Adsorbates on Superlubricity. , 2007, , 131-146.		2
158	Action spectroscopy for single-molecule motion induced by vibrational excitation with a scanning tunneling microscope. Physical Review B, 2007, 75, .	1.1	34
159	Vibrational heating of molecules adsorbed on insulating surfaces using localized photon tunneling. Physical Review B, 2007, 75, .	1.1	5
160	Biological Adhesion for Locomotion on Rough Surfaces: Basic Principles and A Theorist's View. MRS Bulletin, 2007, 32, 486-490.	1.7	54
161	Wet adhesion with application to tree frog adhesive toe pads and tires. Journal of Physics Condensed Matter, 2007, 19, 376110.	0.7	124
162	Near-field radiative heat transfer and noncontact friction. Reviews of Modern Physics, 2007, 79, 1291-1329.	16.4	613

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163	Biological adhesion for locomotion: basic principles. Journal of Adhesion Science and Technology, 2007, 21, 1145-1173.	1.4	62
164	Relation between Interfacial Separation and Load: A General Theory of Contact Mechanics. Physical Review Letters, 2007, 99, 125502.	2.9	213
165	Giant enhancement of noncontact friction between closely spaced bodies by dielectric films and two-dimensional systems. Journal of Experimental and Theoretical Physics, 2007, 104, 96-110.	0.2	15
166	Contact Mechanics, Friction and Adhesion with Application to Quasicrystals. Nanoscience and Technology, 2007, , 269-306.	1.5	2
167	Theory of Noncontact Friction. Nanoscience and Technology, 2007, , 393-438.	1.5	0
168	A Multiscale Molecular Dynamics Approach to Contact Mechanics and Friction: From Continuum Mechanics to Molecular Dynamics. Nanoscience and Technology, 2007, , 307-343.	1.5	1
169	A multiscale molecular dynamics approach to contact mechanics. European Physical Journal E, 2006, 19, 47-58.	0.7	103
170	Influence of Surface Roughness on Superhydrophobicity. Physical Review Letters, 2006, 97, 116103.	2.9	285
171	Contact mechanics for randomly rough surfaces. Surface Science Reports, 2006, 61, 201-227.	3.8	582
172	Rubber friction on smooth surfaces. European Physical Journal E, 2006, 21, 69-80.	0.7	95
173	Role of surface roughness in superlubricity. Journal of Physics Condensed Matter, 2006, 18, 4143-4160.	0.7	25
174	How do liquids confined at the nanoscale influence adhesion?. Journal of Physics Condensed Matter, 2006, 18, 11521-11530.	0.7	7
175	Impact of molecular structure on the lubricant squeeze-out between curved surfaces with long range elasticity. Journal of Chemical Physics, 2006, 125, 014704.	1.2	33
176	Rubber friction: role of the flash temperature. Journal of Physics Condensed Matter, 2006, 18, 7789-7823.	0.7	151
177	Chemical Contribution to Surface-Enhanced Raman Scattering. Physical Review Letters, 2006, 96, 207401.	2.9	181
178	Enhancement of noncontact friction between closely spaced bodies by two-dimensional systems. Physical Review B, 2006, 73, .	1.1	30
179	Persson, Zhao, and Zhang Reply:. Physical Review Letters, 2006, 97, .	2.9	2
180	Quantum field theory of van der Waals friction. Physical Review B, 2006, 74, .	1.1	31

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181	Adsorbate vibrational mode enhancement of radiative heat transfer and van der Waals friction. <i>Surface Science</i> , 2005, 587, 88-101.	0.8	4
182	Crack motion in viscoelastic solids: The role of the flash temperature. <i>European Physical Journal E</i> , 2005, 17, 261-281.	0.7	59
183	Rubber friction on wet and dry road surfaces: The sealing effect. <i>Physical Review B</i> , 2005, 71, .	1.1	92
184	Adsorbate motions induced by inelastic-tunneling current: Theoretical scenarios of two-electron processes. <i>Journal of Chemical Physics</i> , 2005, 123, 084707.	1.2	45
185	Adsorbate-Induced Enhancement of Electrostatic Noncontact Friction. <i>Physical Review Letters</i> , 2005, 94, 086104.	2.9	54
186	Influence of Surface Roughness on Adhesion between Elastic Bodies. <i>Physical Review Letters</i> , 2005, 95, 124301.	2.9	112
187	Crack propagation in viscoelastic solids. <i>Physical Review E</i> , 2005, 71, 036123.	0.8	214
188	Hot Cracks in Rubber: Origin of the Giant Toughness of Rubberlike Materials. <i>Physical Review Letters</i> , 2005, 95, 114301.	2.9	45
189	On the nature of surface roughness with application to contact mechanics, sealing, rubber friction and adhesion. <i>Journal of Physics Condensed Matter</i> , 2005, 17, R1-R62.	0.7	748
190	Crack propagation in rubber-like materials. <i>Journal of Physics Condensed Matter</i> , 2005, 17, R1071-R1142.	0.7	205
191	Contact area between a viscoelastic solid and a hard, randomly rough, substrate. <i>Journal of Chemical Physics</i> , 2004, 120, 8779-8793.	1.2	122
192	Squeezing wetting and nonwetting liquids. <i>Journal of Chemical Physics</i> , 2004, 120, 1997-2004.	1.2	8
193	The effect of surface roughness on the adhesion of solid surfaces for systems with and without liquid lubricant. <i>Journal of Chemical Physics</i> , 2004, 121, 9639-9647.	1.2	19
194	Dewetting at soft viscoelastic interfaces. <i>Journal of Chemical Physics</i> , 2004, 121, 2246-2252.	1.2	23
195	Adhesion between a thin elastic plate and a hard randomly rough substrate. <i>Physical Review B</i> , 2004, 70, .	1.1	55
196	Squeeze-out and wear: fundamental principles and applications. <i>Journal of Physics Condensed Matter</i> , 2004, 16, R295-R355.	0.7	73
197	Sealing is at the origin of rubber slipping on wet roads. <i>Nature Materials</i> , 2004, 3, 882-885.	13.3	37
198	Squeezing Molecularly Thin Alkane Lubrication Films: Layering Transitions and Wear. <i>Tribology Letters</i> , 2004, 16, 195-200.	1.2	5

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199	Theoretical state-of-the art in adsorbate motions and reactions induced by inelastic tunneling current with STM. <i>Surface Science</i> , 2004, 566-568, 1-12.	0.8	27
200	Electronic friction and liquid-flow-induced voltage in nanotubes. <i>Physical Review B</i> , 2004, 69, .	1.1	90
201	Resonant photon tunneling enhancement of the radiative heat transfer. <i>Physical Review B</i> , 2004, 69, .	1.1	137
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