

Bo N J Persson

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.

407
papers

22,854
citations

80
h-index

136
g-index

414
ext. papers

24,661
ext. citations

3.3
avg, IF

7.56
L-index

#	Paper	IF	Citations
407	On the Stability of Spinning Asteroids. <i>Tribology Letters</i> , 2022 , 70, 1	2.8	2
406	Air, Helium and Water Leakage in Rubber O-ring Seals with Application to Syringes. <i>Tribology Letters</i> , 2022 , 70, 1	2.8	0
405	Fluid Leakage in Static Rubber Seals. <i>Tribology Letters</i> , 2022 , 70, 1	2.8	0
404	Air leakage in seals with application to syringes. <i>Applied Surface Science Advances</i> , 2022 , 8, 100222	2.6	
403	Rubber Wear and the Role of Transfer Films on Rubber Friction on Hard Rough Substrates. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	3
402	Rubber Adhesion and Friction: Role of Surface Energy and Contamination Films. <i>Frontiers in Mechanical Engineering</i> , 2021 , 6,	2.6	2
401	Side-leakage of face mask. <i>European Physical Journal E</i> , 2021 , 44, 75	1.5	2
400	Comments on the Theory of Fluid Flow Between Solids with Anisotropic Roughness. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	3
399	Cylinder-Flat Contact Mechanics with Surface Roughness. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	4
398	A simple model for viscoelastic crack propagation. <i>European Physical Journal E</i> , 2021 , 44, 3	1.5	4
397	General theory of electroadhesion. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	2
396	On Opening Crack Propagation in Viscoelastic Solids. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	4
395	Physics of Suction Cups in Air and in Water. <i>Biologically-inspired Systems</i> , 2021 , 187-209	0.7	2
394	Lubricated sliding friction: Role of interfacial fluid slip and surface roughness. <i>European Physical Journal E</i> , 2020 , 43, 9	1.5	5
393	Comment on "On the Origin of Frictional Energy Dissipation" <i>Tribology Letters</i> , 2020 , 68, 1	2.8	1
392	Electric field effect in heat transfer in 2D devices. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 255301	1.8	5
391	Conveyor Belt Drive Physics. <i>Tribology Letters</i> , 2020 , 68, 1	2.8	4

390	Fluid Leakage in Metallic Seals. <i>Tribology Letters</i> , 2020 , 68, 1	2.8	5
389	Plastic Deformation of Rough Metallic Surfaces. <i>Tribology Letters</i> , 2020 , 68, 1	2.8	6
388	Interfacial fluid flow for systems with anisotropic roughness. <i>European Physical Journal E</i> , 2020 , 43, 25	1.5	5
387	Sphere and cylinder contact mechanics during slip. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 143, 104094	5	11
386	Adhesion paradox: Why adhesion is usually not observed for macroscopic solids. <i>Physical Review E</i> , 2020 , 102, 042803	2.4	8
385	Cylinder-flat-surface contact mechanics during sliding. <i>Physical Review E</i> , 2020 , 102, 043002	2.4	1
384	Viscoelastic Crack Propagation: Review of Theories and Applications. <i>Advances in Polymer Science</i> , 2020 , 377-420	1.3	6
383	Electroadhesion with application to touchscreens. <i>Soft Matter</i> , 2019 , 15, 1758-1775	3.6	20
382	Adhesion and Friction for Three Tire Tread Compounds. <i>Lubricants</i> , 2019 , 7, 20	3.1	14
381	Linear and Nonlinear Viscoelastic Modulus of Rubber. <i>Lubricants</i> , 2019 , 7, 22	3.1	7
380	Surface topography and water contact angle of sandblasted and thermally annealed glass surfaces. <i>Journal of Chemical Physics</i> , 2019 , 150, 054701	3.9	2
379	Contact Mechanics for Solids with Randomly Rough Surfaces and Plasticity. <i>Lubricants</i> , 2019 , 7, 90	3.1	4
378	Electroadhesion for soft adhesive pads and robotics: theory and numerical results. <i>Soft Matter</i> , 2019 , 15, 8032-8039	3.6	10
377	Physics of suction cups. <i>Soft Matter</i> , 2019 , 15, 9482-9499	3.6	11
376	Rolling friction of elastomers: role of strain softening. <i>Soft Matter</i> , 2019 , 15, 9233-9243	3.6	4
375	The dependency of adhesion and friction on electrostatic attraction. <i>Journal of Chemical Physics</i> , 2018 , 148, 144701	3.9	19
374	Adhesion, friction and viscoelastic properties for non-aged and aged Styrene Butadiene rubber. <i>Tribology International</i> , 2018 , 121, 78-83	4.9	9
373	Some Comments on Hydrogel and Cartilage Contact Mechanics and Friction. <i>Tribology Letters</i> , 2018 , 66, 1	2.8	8

372	On the load dependence of friction: Role of the long-range elastic coupling. <i>Tribology International</i> , 2018 , 123, 209-215	4.9	3
371	Contact mechanics for polydimethylsiloxane: from liquid to solid. <i>Soft Matter</i> , 2018 , 14, 1142-1148	3.6	10
370	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	3.5	15
369	Adhesion between rubber and glass in dry and lubricated condition. <i>Journal of Chemical Physics</i> , 2018 , 148, 234702	3.9	8
368	Rubber friction: The contribution from the area of real contact. <i>Journal of Chemical Physics</i> , 2018 , 148, 224701	3.9	19
367	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	3.6	7
366	Interfacial leakage of elastomer seals at low temperatures. <i>International Journal of Pressure Vessels and Piping</i> , 2018 , 160, 14-23	2.4	12
365	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 ^{11.5}	11.5	42
364	Ice friction: Glacier sliding on hard randomly rough bed surface. <i>Journal of Chemical Physics</i> , 2018 , 149, 234701	3.9	5
363	On the Use of Silicon Rubber Replica for Surface Topography Studies. <i>Tribology Letters</i> , 2018 , 66, 1	2.8	12
362	Atomistic modeling of tribological properties of Pd and Al nanoparticles on a graphene surface. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1239-1246	3	4
361	Elastic Contact Mechanics of Randomly Rough Surfaces: An Assessment of Advanced Asperity Models and Persson's Theory. <i>Tribology Letters</i> , 2018 , 66, 1	2.8	48
360	The effect of surface roughness and viscoelasticity on rubber adhesion. <i>Soft Matter</i> , 2017 , 13, 3602-3621	3.6	58
359	Elastohydrodynamics for Soft Solids with Surface Roughness: Transient Effects. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	3
358	Meeting the Contact-Mechanics Challenge. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	163
357	Crack propagation in finite-sized viscoelastic solids with application to adhesion. <i>Europhysics Letters</i> , 2017 , 119, 18002	1.6	12
356	Simple contact mechanics model of the vertebrate cartilage. <i>Soft Matter</i> , 2017 , 13, 6349-6362	3.6	4
355	Rubber contact mechanics: adhesion, friction and leakage of seals. <i>Soft Matter</i> , 2017 , 13, 9103-9121	3.6	37

354	Role of Preload in Adhesion of Rough Surfaces. <i>Physical Review Letters</i> , 2017 , 118, 238001	7.4	23
353	Dependency of Rubber Friction on Normal Force or Load: Theory and Experiment. <i>Tire Science and Technology</i> , 2017 , 45, 25-54	0.7	15
352	Multiscale Contact Mechanics with Application to Seals and Rubber Friction on Dry and Lubricated Surfaces. <i>Advances in Polymer Science</i> , 2016 , 103-156	1.3	7
351	Quantum Vavilov-Cherenkov radiation from shearing two transparent dielectric plates. <i>Physical Review B</i> , 2016 , 93,	3.3	3
350	The effect of finite roughness size and bulk thickness on the prediction of rubber friction and contact mechanics. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016 , 230, 1398-1409	1.3	6
349	Rubber Friction on Ice: Experiments and Modeling. <i>Tribology Letters</i> , 2016 , 62, 1	2.8	26
348	On the dependency of friction on load: Theory and experiment. <i>Europhysics Letters</i> , 2016 , 113, 56002	1.6	15
347	Shearing Nanometer-Thick Confined Hydrocarbon Films: Friction and Adhesion. <i>Tribology Letters</i> , 2016 , 62, 1	2.8	5
346	Fundamentals of Adhesion 2016 ,		1
345	Soft matter dynamics: Accelerated fluid squeeze-out during slip. <i>Journal of Chemical Physics</i> , 2016 , 144, 124903	3.9	15
344	Rubber friction directional asymmetry. <i>Europhysics Letters</i> , 2016 , 116, 66002	1.6	7
343	Contact mechanics for poroelastic, fluid-filled media, with application to cartilage. <i>Journal of Chemical Physics</i> , 2016 , 145, 234703	3.9	4
342	Silicone Rubber Adhesion and Sliding Friction. <i>Tribology Letters</i> , 2016 , 62, 1	2.8	15
341	The effect of surface nano-corrugation on the squeeze-out of molecular thin hydrocarbon films between curved surfaces with long range elasticity. <i>Nanotechnology</i> , 2016 , 27, 445401	3.4	6
340	Leakage of Metallic Seals: Role of Plastic Deformations. <i>Tribology Letters</i> , 2016 , 63, 1	2.8	16
339	Contact Mechanics for Randomly Rough Surfaces: On the Validity of the Method of Reduction of Dimensionality. <i>Tribology Letters</i> , 2015 , 58, 1	2.8	8
338	Rubber friction on road surfaces: Experiment and theory for low sliding speeds. <i>Journal of Chemical Physics</i> , 2015 , 142, 194701	3.9	69
337	General contact mechanics theory for randomly rough surfaces with application to rubber friction. <i>Journal of Chemical Physics</i> , 2015 , 143, 224111	3.9	20

336	Fluid contact angle on solid surfaces: Role of multiscale surface roughness. <i>Journal of Chemical Physics</i> , 2015 , 143, 134705	3.9	20
335	General theory of frictional heating with application to rubber friction. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 175008	1.8	17
334	Ice friction: Role of non-uniform frictional heating and ice premelting. <i>Journal of Chemical Physics</i> , 2015 , 143, 224701	3.9	25
333	Author Response to the Comment by Popov on "Contact Mechanics for Randomly Rough Surfaces: On the Validity of the Method of Reduction of Dimensionality" <i>Tribology Letters</i> , 2015 , 60, 1	2.8	1
332	Friction and universal contact area law for randomly rough viscoelastic contacts. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 105102	1.8	34
331	On the Fractal Dimension of Rough Surfaces. <i>Tribology Letters</i> , 2014 , 54, 99-106	2.8	173
330	Rolling Friction: Comparison of Analytical Theory with Exact Numerical Results. <i>Tribology Letters</i> , 2014 , 55, 15-21	2.8	16
329	Role of hydrophobicity on interfacial fluid flow: theory and some applications. <i>European Physical Journal E</i> , 2014 , 37, 12	1.5	13
328	Theory of viscoelastic lubrication. <i>Tribology International</i> , 2014 , 72, 118-130	4.9	43
327	Master curve of viscoelastic solid: Using causality to determine the optimal shifting procedure, and to test the accuracy of measured data. <i>Polymer</i> , 2014 , 55, 565-571	3.9	38
326	Surface topography and contact mechanics of dry and wet human skin. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1341-8	3	28
325	Tire/Road Contact Stiffness. <i>Tribology Letters</i> , 2014 , 56, 397-402	2.8	23
324	Role of Frictional Heating in Rubber Friction. <i>Tribology Letters</i> , 2014 , 56, 77-92	2.8	18
323	Comment on "Dipole covariant radiation force on a polarizable particle" <i>New Journal of Physics</i> , 2014 , 16, 118001	2.9	10
322	Thermal interface resistance: crossover from nanoscale to macroscale. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 015009	1.8	8
321	Theory of adhesion: role of surface roughness. <i>Journal of Chemical Physics</i> , 2014 , 141, 124701	3.9	126
320	Finite-size scaling in the interfacial stiffness of rough elastic contacts. <i>Physical Review E</i> , 2013 , 87, 062802	4.4	74
319	Contact Mechanics and Friction on Dry and Wet Human Skin. <i>Tribology Letters</i> , 2013 , 50, 17-30	2.8	46

318	Comment on "Friction between a viscoelastic body and a rigid surface with random self-affine roughness". <i>Physical Review Letters</i> , 2013 , 111, 189401	7.4	13
317	On the Validity of the Method of Reduction of Dimensionality: Area of Contact, Average Interfacial Separation and Contact Stiffness. <i>Tribology Letters</i> , 2013 , 52, 223-229	2.8	11
316	Effect of the electric current on the Casimir force between graphene sheets. <i>JETP Letters</i> , 2013 , 98, 143-149	1	
315	Adhesion of cellulose fibers in paper. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 045002	1.8	35
314	Rubber friction for tire tread compound on road surfaces. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 095007	1.8	36
313	Adhesion: role of bulk viscoelasticity and surface roughness. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 225004	1.8	40
312	Contact electrification and the work of adhesion. <i>Europhysics Letters</i> , 2013 , 103, 36003	1.6	14
311	Static or breakloose friction for lubricated contacts: the role of surface roughness and dewetting. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 445013	1.8	22
310	Optical In Situ Micro Tribometer for Analysis of Real Contact Area for Contact Mechanics, Adhesion, and Sliding Experiments. <i>Tribology Letters</i> , 2012 , 45, 185-194	2.8	140
309	Time-Dependent Fluid Squeeze-Out Between Soft Elastic Solids with Randomly Rough Surfaces. <i>Tribology Letters</i> , 2012 , 47, 409-416	2.8	20
308	Effective viscosity of confined hydrocarbons. <i>Physical Review Letters</i> , 2012 , 108, 036102	7.4	41
307	Contact mechanics for layered materials with randomly rough surfaces. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 095008	1.8	20
306	Elastic contact mechanics: percolation of the contact area and fluid squeeze-out. <i>European Physical Journal E</i> , 2012 , 35, 5	1.5	40
305	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. <i>Tribology Letters</i> , 2012 , 46, 207-209	2.8	1
304	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. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 225008	1.8	17
303	Self-affine elastic contacts: percolation and leakage. <i>Physical Review Letters</i> , 2012 , 108, 244301	7.4	113
302	Quantum friction. <i>Physical Review Letters</i> , 2011 , 106, 094502	7.4	80
301	Transverse and normal interfacial stiffness of solids with randomly rough surfaces. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 085001	1.8	97

300	Near-field radiative heat transfer and van der Waals friction between closely spaced graphene and amorphous SiO ₂ . <i>Journal of Physics: Conference Series</i> , 2011 , 291, 012018	0.3	2
299	Interfacial separation between elastic solids with randomly rough surfaces: Comparison between theory and numerical techniques. <i>Journal of the Mechanics and Physics of Solids</i> , 2011 , 59, 2355-2369	5	106
298	Lubricated sliding dynamics: flow factors and Stribeck curve. <i>European Physical Journal E</i> , 2011 , 34, 113	1.5	31
297	Rubber friction: comparison of theory with experiment. <i>European Physical Journal E</i> , 2011 , 34, 1-11	1.5	55
296	Lubrication in soft rough contacts: A novel homogenized approach. Part I - Theory. <i>Soft Matter</i> , 2011 , 7, 10395	3.6	57
295	Phononic heat transfer across an interface: thermal boundary resistance. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 045009	1.8	47
294	Comment on "No quantum friction between uniformly moving plates" <i>New Journal of Physics</i> , 2011 , 13, 068001	2.9	15
293	Fluid squeeze-out between rough surfaces: comparison of theory with experiment. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 355005	1.8	9
292	Adhesion between elastic solids with randomly rough surfaces: Comparison of analytical theory with molecular-dynamics simulations. <i>Europhysics Letters</i> , 2011 , 96, 66003	1.6	32
291	Near-field radiative heat transfer between closely spaced graphene and amorphous SiO ₂ . <i>Physical Review B</i> , 2011 , 83,	3.3	64
290	Rubber friction and tire dynamics. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 015003	1.8	37
289	Heat transfer between graphene and amorphous SiO ₂ . <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 462201	1.8	35
288	Lateral hopping of CO on Cu(111) induced by femtosecond laser pulses. <i>Physical Review B</i> , 2010 , 82,	3.3	3
287	Comment on "Diffusion and dimer formation of CO molecules induced by femtosecond laser pulses". <i>Physical Review Letters</i> , 2010 , 104, 239601	7.4	
286	Surface roughness of peeled adhesive tape: A mystery?. <i>Europhysics Letters</i> , 2010 , 92, 46001	1.6	22
285	Fluid dynamics at the interface between contacting elastic solids with randomly rough surfaces. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 265004	1.8	34
284	Heat transfer between weakly coupled systems: Graphene on a-SiO ₂ . <i>Europhysics Letters</i> , 2010 , 91, 560016	1.6	37
283	On the dependence of the leak rate of seals on the skewness of the surface height probability distribution. <i>Europhysics Letters</i> , 2010 , 90, 38002	1.6	19

282	Velocity dependence of friction of confined hydrocarbons. <i>Langmuir</i> , 2010 , 26, 8721-8	4	32
281	Surface-roughness-induced electric-field enhancement and triboluminescence. <i>Europhysics Letters</i> , 2010 , 91, 46003	1.6	24
280	Heat transfer between elastic solids with randomly rough surfaces. <i>European Physical Journal E</i> , 2010 , 31, 3-24	1.5	64
279	Leak rate of seals: Effective-medium theory and comparison with experiment. <i>European Physical Journal E</i> , 2010 , 31, 159-67	1.5	80
278	Time-dependent fluid squeeze-out between solids with rough surfaces. <i>European Physical Journal E</i> , 2010 , 32, 281-90	1.5	29
277	Rolling friction for hard cylinder and sphere on viscoelastic solid. <i>European Physical Journal E</i> , 2010 , 33, 327-33	1.5	65
276	Lateral hopping of CO molecules on Pt(111) surface by femtosecond laser pulses. <i>Physical Review B</i> , 2009 , 80,	3.3	5
275	Numerical and Experimental Investigation on O-Ring-Seals in Dynamic Applications. <i>International Journal of Fluid Power</i> , 2009 , 10, 51-59		7
274	Leak rate of seals: Comparison of theory with experiment. <i>Europhysics Letters</i> , 2009 , 86, 44006	1.6	56
273	On the transition from boundary lubrication to hydrodynamic lubrication in soft contacts. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 185002	1.8	39
272	Theory of powdery rubber wear. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 485001	1.8	22
271	Interfacial separation between elastic solids with randomly rough surfaces: comparison of experiment with theory. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 015003	1.8	33
270	Contact mechanics and rubber friction for randomly rough surfaces with anisotropic statistical properties. <i>European Physical Journal E</i> , 2009 , 29, 275-84	1.5	105
269	Theory of the interaction forces and the radiative heat transfer between moving bodies. <i>Physical Review B</i> , 2008 , 78,	3.3	71
268	On the origin of Amontons' friction law. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 395006	1.8	49
267	Contact mechanics: contact area and interfacial separation from small contact to full contact. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 215214	1.8	114
266	Rubber friction on (apparently) smooth lubricated surfaces. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 085223	1.8	27
265	Capillary adhesion between elastic solids with randomly rough surfaces. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 315007	1.8	59

264	On the elastic energy and stress correlation in the contact between elastic solids with randomly rough surfaces. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 312001	1.8	50
263	Heat transfer between adsorbate and laser-heated hot electrons. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 224016	1.8	7
262	Contact mechanics with adhesion: Interfacial separation and contact area. <i>Europhysics Letters</i> , 2008 , 84, 46004	1.6	24
261	Adsorbate hopping via vibrational-mode coupling induced by femtosecond laser pulses. <i>Physical Review B</i> , 2008 , 78,	3.3	8
260	Molecular dynamics study of contact mechanics: contact area and interfacial separation from small to full contact. <i>Physical Review Letters</i> , 2008 , 100, 024303	7.4	59
259	Theory of the leak-rate of seals. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 315011	1.8	90
258	van der Waals frictional drag induced by liquid flow in low-dimensional systems. <i>Physical Review B</i> , 2008 , 77,	3.3	4
257	Heating of adsorbate by vibrational-mode coupling. <i>Physical Review B</i> , 2008 , 77,	3.3	18
256	Influence of frozen capillary waves on contact mechanics. <i>Wear</i> , 2008 , 264, 746-749	3.5	8
255	Nanodroplets on rough hydrophilic and hydrophobic surfaces. <i>European Physical Journal E</i> , 2008 , 25, 139-52	1.5	52
254	Frictional properties of confined polymers. <i>European Physical Journal E</i> , 2008 , 27, 37-46	1.5	27
253	On pattern transfer in replica molding. <i>Langmuir</i> , 2008 , 24, 6636-9	4	27
252	Relation between interfacial separation and load: a general theory of contact mechanics. <i>Physical Review Letters</i> , 2007 , 99, 125502	7.4	166
251	Giant enhancement of noncontact friction between closely spaced bodies by dielectric films and two-dimensional systems. <i>Journal of Experimental and Theoretical Physics</i> , 2007 , 104, 96-110	1	13
250	. <i>Physics-Uspekhi</i> , 2007 , 50, 879	2.8	19
249	Heat transfer at surfaces exposed to short-pulsed laser fields. <i>Physical Review B</i> , 2007 , 76,	3.3	15
248	Effect of Surface Roughness and Adsorbates on Superlubricity 2007 , 131-146		2
247	Action spectroscopy for single-molecule motion induced by vibrational excitation with a scanning tunneling microscope. <i>Physical Review B</i> , 2007 , 75,	3.3	33

246	Vibrational heating of molecules adsorbed on insulating surfaces using localized photon tunneling. <i>Physical Review B</i> , 2007 , 75,	3.3	5
245	Biological Adhesion for Locomotion on Rough Surfaces: Basic Principles and A Theorist's View. <i>MRS Bulletin</i> , 2007 , 32, 486-490	3.2	51
244	Wet adhesion with application to tree frog adhesive toe pads and tires. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 376110	1.8	92
243	Near-field radiative heat transfer and noncontact friction. <i>Reviews of Modern Physics</i> , 2007 , 79, 1291-1328	40.5	474
242	Biological adhesion for locomotion: basic principles. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 1145-1173	2	56
241	Theory of Noncontact Friction. <i>Nanoscience and Technology</i> , 2007 , 393-438	0.6	
240	A Multiscale Molecular Dynamics Approach to Contact Mechanics and Friction: From Continuum Mechanics to Molecular Dynamics. <i>Nanoscience and Technology</i> , 2007 , 307-343	0.6	1
239	Contact Mechanics, Friction and Adhesion with Application to Quasicrystals. <i>Nanoscience and Technology</i> , 2007 , 269-306	0.6	2
238	Role of surface roughness in superlubricity. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 4143-60	1.8	21
237	How do liquids confined at the nanoscale influence adhesion?. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 11521-11530	1.8	6
236	Impact of molecular structure on the lubricant squeeze-out between curved surfaces with long range elasticity. <i>Journal of Chemical Physics</i> , 2006 , 125, 014704	3.9	30
235	Rubber friction: role of the flash temperature. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 7789-823	1.8	130
234	Chemical contribution to surface-enhanced Raman scattering. <i>Physical Review Letters</i> , 2006 , 96, 207401	7.4	156
233	Enhancement of noncontact friction between closely spaced bodies by two-dimensional systems. <i>Physical Review B</i> , 2006 , 73,	3.3	24
232	Persson, Zhao, and Zhang Reply:. <i>Physical Review Letters</i> , 2006 , 97,	7.4	2
231	Quantum field theory of van der Waals friction. <i>Physical Review B</i> , 2006 , 74,	3.3	27
230	A multiscale molecular dynamics approach to contact mechanics. <i>European Physical Journal E</i> , 2006 , 19, 47-58	1.5	97
229	Influence of surface roughness on superhydrophobicity. <i>Physical Review Letters</i> , 2006 , 97, 116103	7.4	226

228	Contact mechanics for randomly rough surfaces. <i>Surface Science Reports</i> , 2006 , 61, 201-227	12.9	477
227	Rubber friction on smooth surfaces. <i>European Physical Journal E</i> , 2006 , 21, 69-80	1.5	84
226	Hot cracks in rubber: origin of the giant toughness of rubberlike materials. <i>Physical Review Letters</i> , 2005 , 95, 114301	7.4	38
225	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	1.8	613
224	Crack propagation in rubber-like materials. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, R1071-R1142	1.8	178
223	Adsorbate vibrational mode enhancement of radiative heat transfer and van der Waals friction. <i>Surface Science</i> , 2005 , 587, 88-101	1.8	4
222	Crack motion in viscoelastic solids: the role of the flash temperature. <i>European Physical Journal E</i> , 2005 , 17, 261-81	1.5	51
221	Rubber friction on wet and dry road surfaces: The sealing effect. <i>Physical Review B</i> , 2005 , 71,	3.3	74
220	Adsorbate motions induced by inelastic-tunneling current: theoretical scenarios of two-electron processes. <i>Journal of Chemical Physics</i> , 2005 , 123, 084707	3.9	45
219	Adsorbate-induced enhancement of electrostatic noncontact friction. <i>Physical Review Letters</i> , 2005 , 94, 086104	7.4	50
218	Influence of surface roughness on adhesion between elastic bodies. <i>Physical Review Letters</i> , 2005 , 95, 124301	7.4	95
217	Crack propagation in viscoelastic solids. <i>Physical Review E</i> , 2005 , 71, 036123	2.4	156
216	Contact area between a viscoelastic solid and a hard, randomly rough, substrate. <i>Journal of Chemical Physics</i> , 2004 , 120, 8779-93	3.9	105
215	Squeezing wetting and nonwetting liquids. <i>Journal of Chemical Physics</i> , 2004 , 120, 1997-2004	3.9	8
214	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, 9639-47	3.9	17
213	Dewetting at soft viscoelastic interfaces. <i>Journal of Chemical Physics</i> , 2004 , 121, 2246-52	3.9	23
212	Adhesion between a thin elastic plate and a hard randomly rough substrate. <i>Physical Review B</i> , 2004 , 70,	3.3	47
211	Squeeze-out and wear: fundamental principles and applications. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, R295-R355	1.8	71

210	Sealing is at the origin of rubber slipping on wet roads. <i>Nature Materials</i> , 2004 , 3, 882-5	27	35
209	Squeezing Molecularly Thin Alkane Lubrication Films: Layering Transitions and Wear. <i>Tribology Letters</i> , 2004 , 16, 195-200	2.8	3
208	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	1.8	27
207	Electronic friction and liquid-flow-induced voltage in nanotubes. <i>Physical Review B</i> , 2004 , 69,	3.3	69
206	Resonant photon tunneling enhancement of the radiative heat transfer. <i>Physical Review B</i> , 2004 , 69,	3.3	97
205	Dimethyl Ether: New Advances in Wear Testing: Theoretical and Experimental Results 2003 ,		1
204	Role of the external pressure on the dewetting of soft interfaces. <i>European Physical Journal E</i> , 2003 , 11, 409-13	1.5	28
203	On the nature of the static friction, kinetic friction and creep. <i>Wear</i> , 2003 , 254, 835-851	3.5	94
202	Adsorbate vibrational mode enhancement of radiative heat transfer. <i>JETP Letters</i> , 2003 , 78, 457-460	1.2	15
201	Nanoadhesion. <i>Wear</i> , 2003 , 254, 832-834	3.5	45
200	The effect of surface roughness on the adhesion of elastic plates with application to biological systems. <i>Journal of Chemical Physics</i> , 2003 , 119, 11437-11444	3.9	327
199	Noncontact friction between nanostructures. <i>Physical Review B</i> , 2003 , 68,	3.3	56
198	On the mechanism of adhesion in biological systems. <i>Journal of Chemical Physics</i> , 2003 , 118, 7614	3.9	281
197	Dynamics of squeeze-out: Theory and experiments. <i>Journal of Chemical Physics</i> , 2003 , 118, 11160-11167	3.9	10
196	Squeezing molecular thin alkane lubrication films between curved solid surfaces with long-range elasticity: Layering transitions and wear. <i>Journal of Chemical Physics</i> , 2003 , 119, 2314-2321	3.9	34
195	Nanoadhesion of elastic bodies: Roughness and temperature effects. <i>Journal of Chemical Physics</i> , 2003 , 118, 6473-6480	3.9	20
194	Resonant photon tunneling enhancement of the van der Waals friction. <i>Physical Review Letters</i> , 2003 , 91, 106101	7.4	65
193	Adhesion between elastic bodies with rough surfaces. <i>Solid State Communications</i> , 2002 , 123, 173-177	1.6	33

192	Adhesion between an elastic body and a randomly rough hard surface. <i>European Physical Journal E</i> , 2002 , 8, 385-401	1.5	166
191	Phenomenology of squeezing and sliding of molecularly thin Xe, CH ₄ and C ₁₆ H ₃₄ lubrication films between smooth and rough curved solid surfaces with long-range elasticity. <i>Journal of Chemical Physics</i> , 2002 , 117, 3897-3914	3.9	24
190	Theory of rubber friction: Nonstationary sliding. <i>Physical Review B</i> , 2002 , 65,	3.3	23
189	Adhesion between elastic bodies with randomly rough surfaces. <i>Physical Review Letters</i> , 2002 , 89, 245502-4	7.4	74
188	Comment on "Nanoadhesion between rough surfaces". <i>Physical Review Letters</i> , 2002 , 88, 129601	7.4	3
187	Boundary lubrication: Squeeze-out dynamics of a compressible two-dimensional liquid. <i>Physical Review B</i> , 2002 , 66,	3.3	5
186	Dissipative van der Waals interaction between a small particle and a metal surface. <i>Physical Review B</i> , 2002 , 65,	3.3	65
185	Elastic contact between randomly rough surfaces: Comparison of theory with numerical results. <i>Physical Review B</i> , 2002 , 65,	3.3	164
184	Theory of inelastic tunneling induced motion of adsorbates on metal surfaces. <i>Surface Science</i> , 2002 , 502-503, 18-25	1.8	58
183	Lateral hopping of molecules induced by excitation of internal vibration mode. <i>Science</i> , 2002 , 295, 2055-83,3	3.3	317
182	The frictional drag force between quantum wells mediated by a fluctuating electromagnetic field. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 859-873	1.8	26
181	Theory and simulations of squeeze-out dynamics in boundary lubrication. <i>Journal of Chemical Physics</i> , 2001 , 115, 11268-11277	3.9	10
180	The effect of surface roughness on the adhesion of elastic solids. <i>Journal of Chemical Physics</i> , 2001 , 115, 5597-5610	3.9	224
179	Elastic instabilities at a sliding interface. <i>Physical Review B</i> , 2001 , 63,	3.3	16
178	Theory of rubber friction and contact mechanics. <i>Journal of Chemical Physics</i> , 2001 , 115, 3840-3861	3.9	932
177	Radiative heat transfer between nanostructures. <i>Physical Review B</i> , 2001 , 63,	3.3	194
176	Elastoplastic contact between randomly rough surfaces. <i>Physical Review Letters</i> , 2001 , 87, 116101	7.4	250
175	Boundary lubrication: dynamics of squeeze-out. <i>Physical Review E</i> , 2001 , 63, 055103	2.4	20

174	Thermodynamics and Kinetics of Shear Induced Melting of a thin Lubrication film Trapped between Solids. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 651, 1		1
173	Layering transition: dynamical instabilities during squeeze-out. <i>Chemical Physics Letters</i> , 2000 , 324, 231-239		10
172	On the origin of the transition from slip to stick. <i>Solid State Communications</i> , 2000 , 114, 261-266	1.6	15
171	Electronic friction on a superconductor surface. <i>Solid State Communications</i> , 2000 , 115, 145-148	1.6	17
170	Boundary lubrication: layering transition for curved solid surfaces with long-range elasticity. <i>Solid State Communications</i> , 2000 , 115, 599-604	1.6	11
169	Qualitative theory of rubber friction and wear. <i>Journal of Chemical Physics</i> , 2000 , 112, 2021-2029	3.9	46
168	Femtosecond surface vibrational spectroscopy of CO adsorbed on Ru(001) during desorption. <i>Physical Review Letters</i> , 2000 , 84, 4653-6	7.4	158
167	Comment on "Brownian motion of microscopic solids under the action of fluctuating electromagnetic fields". <i>Physical Review Letters</i> , 2000 , 84, 3504	7.4	40
166	Squeezing lubrication films: Layering transition for curved solid surfaces with long-range elasticity. <i>Journal of Chemical Physics</i> , 2000 , 112, 9524-9542	3.9	43
165	Sliding Friction. <i>Nanoscience and Technology</i> , 2000 ,	0.6	631
164	Dynamical interactions in sliding friction. <i>Surface Science</i> , 2000 , 457, 345-356	1.8	9
163	Friction dynamics for curved solid surfaces with long-range elasticity. <i>Journal of Chemical Physics</i> , 2000 , 113, 5477	3.9	8
162	Theory of time-dependent plastic deformation in disordered solids. <i>Physical Review B</i> , 2000 , 61, 5949-5966	3.9	25
161	Sliding of Adsorbate Layers. <i>Nanoscience and Technology</i> , 2000 , 171-311	0.6	
160	Novel Sliding Systems. <i>Nanoscience and Technology</i> , 2000 , 435-496	0.6	
159	Elastic Interactions and Instability Transitions. <i>Nanoscience and Technology</i> , 2000 , 335-362	0.6	
158	Modern Experimental Methods and Results. <i>Nanoscience and Technology</i> , 2000 , 17-36	0.6	
157	Stress Domains, Relaxation, and Creep. <i>Nanoscience and Technology</i> , 2000 , 363-393	0.6	2

156	Lubricated Friction Dynamics. <i>Nanoscience and Technology</i> , 2000 , 395-413	0.6	1
155	Area of Real Contact: Elastic and Plastic Deformations. <i>Nanoscience and Technology</i> , 2000 , 45-91	0.6	4
154	Sliding on Lubricated Surfaces. <i>Nanoscience and Technology</i> , 2000 , 101-170	0.6	4
153	Boundary Lubrication. <i>Nanoscience and Technology</i> , 2000 , 313-334	0.6	1
152	Low-frequency adsorbate vibrational relaxation and sliding friction. <i>Physical Review B</i> , 1999 , 59, 11777-11791	1.3	53
151	Theory of friction: elastic coherence length and earthquake dynamics. <i>Solid State Communications</i> , 1999 , 109, 739-744	1.6	30
150	Sliding friction. <i>Surface Science Reports</i> , 1999 , 33, 83-119	12.9	137
149	Theory of friction: the contribution from a fluctuating electromagnetic field. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 345-359	1.8	84
148	Fracture of polymers. <i>Journal of Chemical Physics</i> , 1999 , 110, 9713-9724	3.9	15
147	Friction of molecules at metallic surfaces: experimental approach using synchrotron infrared spectroscopy. <i>Surface Science</i> , 1999 , 433-435, 797-805	1.8	17
146	Adsorption of potassium and oxygen on graphite: A theoretical study. <i>Journal of Chemical Physics</i> , 1998 , 108, 3332-3341	3.9	121
145	On the theory of rubber friction. <i>Surface Science</i> , 1998 , 401, 445-454	1.8	174
144	The puzzling collapse of electronic sliding friction on a superconductor surface. <i>Surface Science</i> , 1998 , 411, L855-L857	1.8	24
143	Infrared spectroscopy of overtones and combination bands. <i>Journal of Chemical Physics</i> , 1998 , 109, 8641-8651	3.9	71
142	On the role of inertia and temperature in continuum and atomistic models of brittle fracture. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 10529-10538	1.8	6
141	Theory of friction: Coulomb drag between two closely spaced solids. <i>Physical Review B</i> , 1998 , 57, 7327-7334	3.3	43
140	Model Study of Brittle Fracture of Polymers. <i>Physical Review Letters</i> , 1998 , 81, 3439-3442	7.4	15
139	Sliding Friction. <i>Nanoscience and Technology</i> , 1998 ,	0.6	414

138	Novel Sliding Systems. <i>Nanoscience and Technology</i> , 1998 , 387-444	0.6	1
137	Sliding on Lubricated Surfaces. <i>Nanoscience and Technology</i> , 1998 , 97-154	0.6	2
136	Stress Domains, Relaxation, and Creep. <i>Nanoscience and Technology</i> , 1998 , 315-345	0.6	
135	Sliding of Adsorbate Layers. <i>Nanoscience and Technology</i> , 1998 , 155-268	0.6	
134	Modern Experimental Methods and Results. <i>Nanoscience and Technology</i> , 1998 , 17-35	0.6	
133	Lubricated Friction Dynamics. <i>Nanoscience and Technology</i> , 1998 , 347-365	0.6	
132	Elastic Interactions and Instability Transitions. <i>Nanoscience and Technology</i> , 1998 , 289-313	0.6	
131	Boundary Lubrication. <i>Nanoscience and Technology</i> , 1998 , 269-288	0.6	
130	Sliding friction: the contribution from defects. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 2869-2889	1.8	9
129	Probing the Surface Brillouin Zone by Infrared Absorption Spectroscopy: Asymmetric Line Shape of Vibrational Combination Band. <i>Physical Review Letters</i> , 1997 , 78, 3503-3506	7.4	21
128	Theory of friction: Friction dynamics for boundary lubricated surfaces. <i>Physical Review B</i> , 1997 , 55, 8004-8004	3.9	34
127	Dephasing of localized and delocalized vibrational modes: CO adsorbed on Ru(001). <i>Physical Review B</i> , 1997 , 56, 10644-10650	3.3	56
126	Local bond breaking via STM-induced excitations: the role of temperature. <i>Surface Science</i> , 1997 , 390, 45-54	1.8	110
125	Theory of Friction: Friction Dynamics for Boundary Lubricated Surfaces 1997 , 555-577		2
124	Linear sliding friction: on the origin of the microscopic friction for Xe on silver. <i>Surface Science</i> , 1996 , 367, 261-275	1.8	71
123	Theory of friction: on the origin of the stick-slip motion of lubricated surfaces. <i>Chemical Physics Letters</i> , 1996 , 254, 114-121	2.5	17
122	Theory of Friction: Elastic Coherence Length and Earthquake Dynamics 1996 , 179-189		5
121	Sliding Friction of Lubricated Surfaces 1996 , 69-91		3

120 Electronic and phononic friction **1996**, 253-264

119	Electronic friction of physisorbed molecules. <i>Journal of Chemical Physics</i> , 1995 , 103, 8679-8683	3.9	74
118	Theory of friction: Dynamical phase transitions in adsorbed layers. <i>Journal of Chemical Physics</i> , 1995 , 103, 3849-3860	3.9	54
117	Quantum theory of infrared-reflection spectroscopy from adsorbate-covered metal surfaces in the anomalous-skin-effect frequency region. <i>Physical Review B</i> , 1995 , 52, 2899-2906	3.3	29
116	Theory of friction: Stress domains, relaxation, and creep. <i>Physical Review B</i> , 1995 , 51, 13568-13585	3.3	111
115	The effects of the electric field in the STM on excitation localization. Implications for local bond breaking. <i>Chemical Physics Letters</i> , 1995 , 242, 483-489	2.5	41
114	Dynamics of atomic adsorbates: hydrogen on Cu(111). <i>Chemical Physics Letters</i> , 1995 , 243, 429-434	2.5	48
113	Theory of friction: The role of elasticity in boundary lubrication. <i>Physical Review B</i> , 1994 , 50, 4771-4786	3.3	92
112	Antiabsorption resonances in infrared reflectance spectroscopy of alkali-Cu(111) adsorbate systems: Is the ground state a surface charge density wave condensate?. <i>Physical Review Letters</i> , 1994 , 72, 1256-1259	7.4	24
111	Layering transition in confined molecular thin films: Nucleation and growth. <i>Physical Review B</i> , 1994 , 50, 5590-5599	3.3	95
110	Adsorbate vibrational dynamics in the anomalous skin effect frequency region. <i>Surface Science</i> , 1994 , 317, L1141-L1146	1.8	36
109	What can high-resolution electron energy loss spectroscopy tell about pre-melting of semiconductor surfaces at high temperatures?. <i>Surface Science</i> , 1994 , 312, 198-200	1.8	
108	Infrared reflection-absorption spectroscopy of dipole-forbidden adsorbate vibrations. <i>Surface Science</i> , 1994 , 310, 314-336	1.8	77
107	High temperature surface metallization of Ge(111) detected by electron energy loss spectroscopy. <i>Physical Review Letters</i> , 1994 , 73, 1951-1954	7.4	54
106	Polarizability of small spherical metal particles: influence of the matrix environment. <i>Surface Science</i> , 1993 , 281, 153-162	1.8	270
105	Theory and simulation of sliding friction. <i>Physical Review Letters</i> , 1993 , 71, 1212-1215	7.4	107
104	Theory of friction and boundary lubrication. <i>Physical Review B</i> , 1993 , 48, 18140-18158	3.3	90
103	Applications of surface resistivity to atomic scale friction, to the migration of Hot atoms, and to electrochemistry. <i>Journal of Chemical Physics</i> , 1993 , 98, 1659-1672	3.9	81

102	Reply to "Comment on 'Surface resistivity and vibrational damping in adsorbed layers' ". <i>Physical Review B</i> , 1993 , 48, 15471	3.3	8
101	FTIR overtone spectroscopy on surfaces. The CD mode in chemisorbed methoxy on Ni(111). <i>Chemical Physics Letters</i> , 1993 , 208, 414-419	2.5	44
100	Infrared reflection-absorption spectroscopy of dipole forbidden adsorbate vibrations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993 , 64-65, 23-38	1.7	11
99	On the theory of friction and boundary lubrication. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993 , 64-65, 403-412	1.7	7
98	Surface Resistivity and Atomic Scale Friction 1993 , 21-41		
97	Theory of photon emission in electron tunneling to metallic particles. <i>Physical Review Letters</i> , 1992 , 68, 3224-3227	7.4	172
96	Application of a boson Hubbard model to vibrational dynamics in adsorbate layers. <i>Physical Review B</i> , 1992 , 46, 12701-12716	3.3	31
95	Variation of the DC-resistance of smooth and atomically rough silver films during exposure to C ₂ H ₆ and C ₂ H ₄ . <i>Surface Science</i> , 1992 , 264, 327-340	1.8	31
94	Surface resistivity: theory and applications. <i>Surface Science</i> , 1992 , 269-270, 103-112	1.8	51
93	Ordered structures and phase transitions in adsorbed layers. <i>Surface Science Reports</i> , 1992 , 15, 1-135	12.9	180
92	Adsorbate-induced surface resistivity and nonlocal optics. <i>Chemical Physics Letters</i> , 1992 , 197, 7-11	2.5	29
91	On the origin of anti-absorption resonances in adsorbate vibrational spectroscopy. <i>Chemical Physics Letters</i> , 1991 , 185, 292-297	2.5	34
90	Surface resistivity and vibrational damping in adsorbed layers. <i>Chemical Physics Letters</i> , 1991 , 178, 204-212		58
89	Cubic anharmonicity and multiphonon vibrational relaxation of adsorbed molecules. <i>Chemical Physics Letters</i> , 1991 , 184, 301-304	2.5	4
88	Surface resistivity and vibrational damping in adsorbed layers. <i>Physical Review B</i> , 1991 , 44, 3277-3296	3.3	248
87	On the nature of adsorbate phase diagrams: beyond lattice gas models. <i>Surface Science</i> , 1991 , 258, 451-463		31
86	Vibrational dynamics at surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990 , 54-55, 81-101	1.7	18
85	Dipole-coupling-induced line narrowing in adsorbate vibrational spectroscopy. <i>Chemical Physics Letters</i> , 1990 , 174, 443-448	2.5	33

84	Surface and superconducting properties of cleaved high-temperature superconductors. <i>Physical Review Letters</i> , 1990 , 64, 603-606	7.4	78
83	High-resolution electron-energy-loss study of the surfaces and energy gaps of cleaved high-temperature superconductors. <i>Physical Review B</i> , 1990 , 42, 8057-8072	3.3	48
82	On the nature of dense CO adlayers. <i>Journal of Chemical Physics</i> , 1990 , 92, 5034-5046	3.9	142
81	Depolarization and metallization in alkali-metal overlayers. <i>Physical Review B</i> , 1990 , 42, 3171-3174	3.3	57
80	Work function, optical absorption, and second-harmonic generation from alkali-metal atoms adsorbed on metal surfaces. <i>Physical Review B</i> , 1989 , 39, 8220-8235	3.3	56
79	Vibrational line shapes of low-frequency adsorbate modes: CO on Pt(111). <i>Physical Review B</i> , 1989 , 40, 10273-10281	3.3	89
78	Inelastic scattering of electrons from accumulation and inversion layers. <i>Physical Review B</i> , 1989 , 40, 7819-7824	3.3	6
77	Monte-Carlo calculations of adsorbate structures. <i>Solid State Communications</i> , 1989 , 70, 211-214	1.6	17
76	On the role of the vibrational entropy in phase transitions at surfaces. <i>Solid State Communications</i> , 1989 , 70, 215-218	1.6	5
75	The potential energy surface, vibrational phase relaxation and the order-disorder transition in the adsorption system Pt{111}-CO. <i>Surface Science</i> , 1989 , 213, 49-89	1.8	289
74	Monte Carlo calculations of adsorbate structures and the role of the vibrational entropy in phase transitions at surfaces. <i>Physical Review B</i> , 1989 , 40, 7115-7123	3.3	30
73	Vibrational lineshapes for NO on Ni(111). <i>Surface Science</i> , 1989 , 218, 494-506	1.8	45
72	On the nature of the frustrated translations for CO on metal surfaces. <i>Chemical Physics Letters</i> , 1988 , 149, 278-283	2.5	25
71	Self-consistent dynamic image potential in tunneling. <i>Physical Review B</i> , 1988 , 38, 9616-9627	3.3	86
70	Vibrational phase relaxation at surfaces: The role of lateral interaction. <i>Journal of Chemical Physics</i> , 1988 , 88, 3349-3352	3.9	16
69	Inelastic vacuum tunneling. <i>Physica Scripta</i> , 1988 , 38, 282-290	2.6	58
68	Theory of the local tunneling spectrum of a vibrating adsorbate. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988 , 6, 331-335	2.9	54
67	Dynamic polarizability of small metal particles. <i>Physical Review B</i> , 1987 , 35, 596-606	3.3	57

66	Electron-energy-loss study of the space-charge region at semiconductor surfaces. <i>Physical Review B</i> , 1987 , 35, 9128-9134	3.3	30
65	Inelastic electron tunneling from a metal tip: The contribution from resonant processes. <i>Physical Review Letters</i> , 1987 , 59, 339-342	7.4	289
64	Vibrational energy relaxation at surfaces: O ₂ chemisorbed on Pt(111). <i>Chemical Physics Letters</i> , 1987 , 139, 457-462	2.5	32
63	The atomic force microscope: Can it be used to study biological molecules?. <i>Chemical Physics Letters</i> , 1987 , 141, 366-368	2.5	64
62	Vibrational phase relaxation at surfaces: The role of lateral interaction. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1987 , 45, 215-225	1.7	33
61	Optical absorption and exciton motion in the photosynthetic unit. <i>Chemical Physics Letters</i> , 1986 , 128, 107-112	2.5	8
60	On the nature of low-frequency vibrational modes in globular protein molecules immersed in water. <i>Chemical Physics Letters</i> , 1986 , 127, 428-431	2.5	8
59	Vibrational phase relaxation at surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1986 , 39, 79-82	1.7	
58	Inelastic electron scattering from ultrathin metallic films on Si(111). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1986 , 39, 83-88	1.7	0
57	Inelastic electron tunnelling from a metal tip. <i>Solid State Communications</i> , 1986 , 57, 769-772	1.6	104
56	Electronic conductivity of Si(111)-7 x 7. <i>Physical Review B</i> , 1986 , 34, 5916-5917	3.3	15
55	Vibrational dephasing of terminally bonded CO on Ru(001). <i>Physical Review B</i> , 1986 , 34, 4354-4357	3.3	37
54	Influence of exciton motion on the shape of optical absorption lines: Applications to vibrations at surfaces. <i>Physical Review B</i> , 1986 , 34, 2266-2283	3.3	154
53	Optical properties of orientationally disordered systems. <i>Physical Review B</i> , 1986 , 34, 8941-8943	3.3	10
52	Cluster study of the interaction of a Co molecule with an aluminium surface. <i>Surface Science</i> , 1986 , 171, 219-225	1.8	29
51	Vibrational Phase Relaxation at Surfaces. <i>Studies in Surface Science and Catalysis</i> , 1986 , 26, 79-82	1.8	
50	Inelastic Electron Scattering from Ultrathin Metallic Films on Si(111). <i>Studies in Surface Science and Catalysis</i> , 1986 , 83-88	1.8	
49	Properties of ultrathin metallic films on Si(111) determined by high-resolution electron energy loss spectroscopy. <i>Applications of Surface Science</i> , 1985 , 22-23, 415-425		

48	Novel microstructure and surface conductivity of ultra-thin metallic films on Si(111). <i>Solid State Communications</i> , 1985 , 54, 425-428	1.6	5
47	Determination of the surface conductivity of ultrathin metallic films on Si(111) by high-resolution electron-energy-loss spectroscopy. <i>Physical Review Letters</i> , 1985 , 54, 584-587	7.4	22
46	Brownian motion and vibrational phase relaxation at surfaces: CO on Ni(111). <i>Physical Review B</i> , 1985 , 32, 3586-3596	3.3	240
45	Vibrational dephasing by the exchange mechanism: Some new results. <i>Journal of Chemical Physics</i> , 1985 , 83, 5610-5618	3.9	32
44	Electron-hole pair production at metal surfaces. <i>Physical Review B</i> , 1985 , 31, 1863-1872	3.3	137
43	Vibrational phase relaxation at surfaces: CO on Ni(111). <i>Physical Review Letters</i> , 1985 , 54, 2119-2122	7.4	152
42	Quasielastic peak in electron scattering from metallic surfaces. <i>Physical Review Letters</i> , 1985 , 55, 2957-2959	3.3	5
41	Determination of the frequency-dependent resistivity of ultrathin metallic films on Si(111). <i>Physical Review B</i> , 1985 , 31, 1856-1862	3.3	26
40	High resolution electron energy loss studies of Fermi level states of clean and metallized Si(111) surfaces. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1984 , 2, 384		16
39	Vibrational energy and phase relaxation at surfaces. <i>Journal of Physics C: Solid State Physics</i> , 1984 , 17, 4741-4750		92
38	Long-Range Electron-Phonon Coupling at Metal Surfaces. <i>Physical Review Letters</i> , 1984 , 52, 2073-2076	7.4	42
37	Dynamical processes at surfaces: Excitation of electron-hole pairs. <i>Physical Review B</i> , 1984 , 29, 4382-4393	3.3	84
36	Inelastic electron scattering from thin metal films. <i>Solid State Communications</i> , 1984 , 52, 811-813	1.6	23
35	Reference-plane position for the atom-surface van der Waals interaction. <i>Physical Review B</i> , 1984 , 30, 5669-5679	3.3	114
34	Inelastic scattering of slow electrons from Si(111) surfaces. <i>Physical Review B</i> , 1984 , 30, 5968-5986	3.3	149
33	Excited states at metal surfaces and their non-radiative relaxation. <i>The Journal of Physical Chemistry</i> , 1984 , 88, 837-848		205
32	Dynamical Processes at Surfaces: Excitation of Electron-Hole Pairs and Phonons. <i>Jerusalem Symposia on Quantum Chemistry and Biochemistry</i> , 1984 , 257-269		
31	Lateral interactions and vibrational lifetimes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1983 , 29, 43-57	1.7	18

30	Optical properties of two-dimensional systems of randomly distributed particles. <i>Physical Review B</i> , 1983 , 28, 4247-4254	3.3	113
29	Optical properties of small metallic particles in a continuous dielectric medium. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, 5375-5391		75
28	Relation between Dynamical Processes at Surfaces and Electron-Energy-Loss Measurements. <i>Physical Review Letters</i> , 1983 , 50, 1089-1091	7.4	47
27	Long-Range Scattering of Electrons by Electron-Hole Pair Excitations at Metal Surfaces. <i>Physical Review Letters</i> , 1983 , 50, 2028-2031	7.4	42
26	Temperature-Dependent Surface States and Transitions of Si(111)-7 \times 7. <i>Physical Review Letters</i> , 1983 , 51, 2214-2217	7.4	150
25	Sum rules for surface response functions with application to the van der Waals interaction between an atom and a metal. <i>Physical Review B</i> , 1983 , 27, 6058-6065	3.3	69
24	On the nature and decay of electronically excited states at metal surfaces. <i>Journal of Chemical Physics</i> , 1983 , 79, 5156-5162	3.9	30
23	Lateral Interactions and Vibrational Lifetimes. <i>Studies in Surface Science and Catalysis</i> , 1983 , 43-57	1.8	
22	Vibrational Damping of Adsorbed Molecules: Methoxide on Cu(100). <i>Physical Review Letters</i> , 1982 , 48, 549-552	7.4	88
21	Indirect vibrational coupling between adsorbed molecules. <i>Surface Science</i> , 1982 , 116, 585-595	1.8	22
20	Electron-hole-pair quenching of excited states near a metal. <i>Physical Review B</i> , 1982 , 26, 5409-5415	3.3	296
19	Optical properties of inhomogeneous media. <i>Solid State Communications</i> , 1982 , 44, 1637-1640	1.6	61
18	Vibrational Lifetimes for Molecules Adsorbed on Metal Surfaces 1982 , 113-122		
17	Vibrational interaction between molecules adsorbed on a metal surface: The dipole-dipole interaction. <i>Physical Review B</i> , 1981 , 24, 6954-6970	3.3	509
16	Collective vibrational modes of isotopic mixtures of CO on Cu(111) and Cu(001). <i>Surface Science</i> , 1981 , 110, 356-368	1.8	79
15	Electronic damping of a vibrating dipole near a metal. <i>Journal of Physics C: Solid State Physics</i> , 1981 , 14, 5583-5589		20
14	On the theory of surface-enhanced Raman scattering. <i>Chemical Physics Letters</i> , 1981 , 82, 561-565	2.5	254
13	Collective vibrational modes in isotopic mixtures of CO adsorbed on Cu (100). <i>Solid State Communications</i> , 1980 , 36, 613-617	1.6	52

12	On the Debye-Waller factor in molecular beam scattering experiments. <i>Solid State Communications</i> , 1980 , 36, 271-273	1.6	4
11	Vibrational excitation cross-sections for adsorbed CO. <i>Solid State Communications</i> , 1980 , 34, 473-476	1.6	45
10	Vibrational lifetime for CO adsorbed on Cu(100). <i>Solid State Communications</i> , 1980 , 36, 175-179	1.6	328
9	On the mathematical structure of the Lindhard dielectric tensor. <i>Journal of Physics C: Solid State Physics</i> , 1980 , 13, 435-439		7
8	Inelastic Electron Scattering by a Collective Vibrational Mode of Adsorbed CO. <i>Physical Review Letters</i> , 1980 , 45, 1421-1424	7.4	94
7	Inelastic scattering of slow electrons from adsorbed molecules. <i>Surface Science</i> , 1980 , 92, 265-282	1.8	70
6	Inelastic scattering of slow electrons from adsorbed CO. <i>Surface Science</i> , 1980 , 99, 283-288	1.8	14
5	Damping of vibrations in molecules adsorbed on a metal surface. <i>Surface Science</i> , 1980 , 97, 609-624	1.8	113
4	Absorption of photons by molecules adsorbed on metal surfaces. <i>Solid State Communications</i> , 1979 , 30, 163-166	1.6	46
3	Damping of excited molecules located above a metal surface. <i>Solid State Communications</i> , 1978 , 27, 417-421	1.6	21
2	Theory of the damping of excited molecules located above a metal surface. <i>Journal of Physics C: Solid State Physics</i> , 1978 , 11, 4251-4269		126
1	Theory of inelastic scattering of slow electrons by molecules adsorbed on metal surfaces. <i>Solid State Communications</i> , 1977 , 24, 573-575	1.6	77