

Erio Tosatti

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.

353
papers

15,812
citations

67
h-index

111
g-index

367
ext. papers

16,736
ext. citations

6.5
avg, IF

6.32
L-index

#	Paper	IF	Citations
353	Understanding the rheology of nanocontacts.. <i>Nature Communications</i> , 2022 , 13, 2428	17.4	0
352	Ring population statistics in an ice lattice model.. <i>Journal of Chemical Physics</i> , 2021 , 155, 224502	3.9	
351	Proton strings and rings in atypical nucleation of ferroelectricity in ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
350	Peculiar Atomic Bond Nature in Platinum Monatomic Chains. <i>Nano Letters</i> , 2021 , 21, 3922-3928	11.5	3
349	Amplitude nanofriction spectroscopy. <i>Nanoscale</i> , 2021 , 13, 1955-1960	7.7	0
348	Electronically Driven 1D Cooperative Diffusion in a Simple Cubic Crystal. <i>Physical Review X</i> , 2021 , 11,	9.1	3
347	Pervasive orientational and directional locking at geometrically heterogeneous sliding interfaces. <i>Physical Review E</i> , 2021 , 103, 012606	2.4	1
346	Exotic helium compounds and new states under planetary conditions. <i>National Science Review</i> , 2020 , 7, 1520-1521	10.8	
345	Pile-up transmission and reflection of topological defects at grain boundaries in colloidal crystals. <i>Nature Communications</i> , 2020 , 11, 3079	17.4	2
344	Modeling nanoribbon peeling. <i>Nanoscale</i> , 2019 , 11, 17396-17400	7.7	4
343	Thermally assisted lubricity and negative work tails in sliding friction. <i>Physical Review B</i> , 2019 , 99,	3.3	6
342	Detachment Dynamics of Graphene Nanoribbons on Gold. <i>ACS Nano</i> , 2019 , 13, 689-697	16.7	9
341	Quantum and classical ripples in graphene. <i>Physical Review B</i> , 2018 , 97,	3.3	14
340	Lifted graphene nanoribbons on gold: from smooth sliding to multiple stick-slip regimes. <i>Nanoscale</i> , 2018 , 10, 2073-2080	7.7	11
339	Ultrahard carbon film from epitaxial two-layer graphene. <i>Nature Nanotechnology</i> , 2018 , 13, 133-138	28.7	124
338	Experimental Observation of the Aubry Transition in Two-Dimensional Colloidal Monolayers. <i>Physical Review X</i> , 2018 , 8,	9.1	22
337	Frictional lubricity enhanced by quantum mechanics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3547-3550	11.5	7

336	Cooling quasiparticles in A3C60 fullerides by excitonic mid-infrared absorption. <i>Nature Physics</i> , 2018 , 14, 154-159	16.2	28
335	Current trends in the physics of nanoscale friction. <i>Advances in Physics: X</i> , 2017 , 2, 569-590	5.1	22
334	Graphene on h-BN: to align or not to align?. <i>Nanoscale</i> , 2017 , 9, 8799-8804	7.7	15
333	A Markov state modeling analysis of sliding dynamics of a 2D model. <i>Journal of Chemical Physics</i> , 2017 , 147, 152721	3.9	1
332	Ballistic thermophoresis of adsorbates on free-standing graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7035-E7044	11.5	9
331	Graphene nanoribbons on gold: understanding superlubricity and edge effects. <i>2D Materials</i> , 2017 , 4, 045003	5.9	29
330	Smallest Archimedean Screw: Facet Dynamics and Friction in Multiwalled Nanotubes. <i>Nano Letters</i> , 2017 , 17, 5321-5328	11.5	11
329	Multiwalled nanotube faceting unravelled. <i>Nature Nanotechnology</i> , 2016 , 11, 1082-1086	28.7	35
328	Metallic, magnetic and molecular nanocontacts. <i>Nature Nanotechnology</i> , 2016 , 11, 499-508	28.7	42
327	Friction and nonlinear dynamics. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 293001	1.8	14
326	Subharmonic Shapiro steps of sliding colloidal monolayers in optical lattices. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 134006	1.8	9
325	Slider thickness promotes lubricity: from 2D islands to 3D clusters. <i>Nanoscale</i> , 2016 , 8, 11108-13	7.7	22
324	Nanoscale orbital excitations and the infrared spectrum of a molecular Mott insulator: A15-CsC. <i>Nanoscale</i> , 2016 , 8, 17483-17488	7.7	3
323	Friction boosted by equilibrium misalignment of incommensurate two-dimensional colloid monolayers. <i>Physical Review Letters</i> , 2015 , 114, 108302	7.4	22
322	Nanophysics: Microscopic friction emulators. <i>Nature</i> , 2015 , 526, 332-3	50.4	6
321	Static friction scaling of physisorbed islands: the key is in the edge. <i>Nanoscale</i> , 2015 , 7, 2093-101	7.7	39
320	Electrical charging effects on the sliding friction of a model nano-confined ionic liquid. <i>Journal of Chemical Physics</i> , 2015 , 143, 144703	3.9	23
319	Frictional transition from superlubric islands to pinned monolayers. <i>Nature Nanotechnology</i> , 2015 , 10, 714-8	28.7	27

318	Giant frictional dissipation peaks and charge-density-wave slips at the NbSe ₂ surface. <i>Nature Materials</i> , 2014 , 13, 173-7	27	39
317	Aftershocks in a frictional earthquake model. <i>Physical Review E</i> , 2014 , 90, 032403	2.4	11
316	Collective spin 1 singlet phase in high-pressure oxygen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10427-32	11.5	19
315	Does rotational melting make molecular crystal surfaces more slippery?. <i>Nanoscale</i> , 2014 , 6, 13163-8	7.7	3
314	Kondo conductance across the smallest spin 1/2 radical molecule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 69-74	11.5	29
313	Crystal structure search and electronic properties of alkali-doped phenanthrene and picene. <i>Physical Review B</i> , 2014 , 90,	3.3	18
312	Robust s _x superconductivity in a two-band Hubbard-Fröhlich model of alkali-doped organics. <i>Physical Review B</i> , 2014 , 90,	3.3	1
311	Dynamical phenomena in fast sliding nanotube models. <i>Philosophical Magazine</i> , 2013 , 93, 922-948	1.6	9
310	Colloquium: Modeling friction: From nanoscale to mesoscale. <i>Reviews of Modern Physics</i> , 2013 , 85, 529-552	10.5	325
309	Electron-doped organics: Charge-disproportionate insulators and Hubbard-Fröhlich metals. <i>Physical Review B</i> , 2013 , 88,	3.3	15
308	Kondo effect of magnetic impurities on nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1040-1044	3	4
307	Collective Effects at Frictional Interfaces. <i>Tribology Letters</i> , 2012 , 48, 11-25	2.8	14
306	Optimal Energy Dissipation in Sliding Friction Simulations. <i>Tribology Letters</i> , 2012 , 48, 41-49	2.8	13
305	Systematic improvement of classical nucleation theory. <i>Physical Review Letters</i> , 2012 , 108, 225701	7.4	77
304	Sliding on a nanotube: interplay of friction, deformations and structure. <i>Advanced Materials</i> , 2012 , 24, 2879-84	24	6
303	Rattler model of the boson peak at silica surfaces. <i>Journal of Chemical Physics</i> , 2012 , 137, 164702	3.9	
302	Static and dynamic friction in sliding colloidal monolayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16429-33	11.5	63
301	Finite temperature properties of clusters by replica exchange metadynamics: the water nonamer. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2535-40	16.4	9

300	Sliding over a phase transition. <i>Physical Review Letters</i> , 2011 , 106, 256102	7.4	17
299	Kinetics and dynamics of frictional stick-slip in mesoscopic boundary lubrication. <i>Philosophical Magazine</i> , 2011 , 91, 3253-3275	1.6	8
298	Ballistic nanofriction. <i>Nature Materials</i> , 2010 , 9, 634-7	27	83
297	Direct mapping of the solid-liquid adhesion energy with subnanometre resolution. <i>Nature Nanotechnology</i> , 2010 , 5, 401-5	28.7	146
296	Atomic spin-sensitive dissipation on magnetic surfaces. <i>Physical Review Letters</i> , 2010 , 105, 146103	7.4	4
295	Magnetism-induced ballistic conductance changes in palladium nanocontacts. <i>European Physical Journal B</i> , 2010 , 75, 57-64	1.2	8
294	Dynamical chiral symmetry breaking in sliding nanotubes. <i>Physical Review Letters</i> , 2009 , 102, 125502	7.4	15
293	Tribology of the lubricant quantized sliding state. <i>Journal of Chemical Physics</i> , 2009 , 131, 174711	3.9	12
292	Lack of Kondo screening at nanocontacts of nearly magnetic metals. <i>Europhysics Letters</i> , 2009 , 87, 27014	4.6	9
291	Physics. Fullerenes in a squeeze. <i>Science</i> , 2009 , 323, 1570-1	33.3	7
290	Kondo conductance in an atomic nanocontact from first principles. <i>Nature Materials</i> , 2009 , 8, 563-7	27	60
289	Hindered rolling and friction anisotropy in supported carbon nanotubes. <i>Nature Materials</i> , 2009 , 8, 876-81	17	58
288	High-pressure polymeric phases of carbon dioxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6077-81	11.5	96
287	Colloquium: Modeling the unconventional superconducting properties of expanded A3C60 fullerenes. <i>Reviews of Modern Physics</i> , 2009 , 81, 943-958	40.5	134
286	Magnetic tunnel junctions with ferroelectric barriers: prediction of four resistance States from first principles. <i>Nano Letters</i> , 2009 , 9, 427-32	11.5	267
285	Kinetics of stick-slip friction in boundary lubrication. <i>Europhysics Letters</i> , 2009 , 88, 48003	1.6	16
284	Colossal magnetic anisotropy of monatomic free and deposited platinum nanowires. <i>Nature Nanotechnology</i> , 2008 , 3, 22-5	28.7	80
283	Molecular rolling friction: the cogwheel model. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 354007	1.8	9

282	Rack-and-pinion effects in molecular rolling friction. <i>Philosophical Magazine Letters</i> , 2008 , 88, 509-517	1	4
281	C ₆₀ /corannulene on Cu(110): a surface-supported bistable buckybowl-buckyball host-guest system. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4767-71	16.4	103
280	Proton order in the ice crystal surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5969-74	11.5	78
279	Role of transverse displacements for a quantized-velocity state of a lubricant. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 354005	1.8	12
278	Nonlinear hysteretic behavior of a confined sliding layer. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 224020	1.8	8
277	Charging induced emission of neutral atoms from NaCl nanocube corners. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 325236	1.8	1
276	Two-level physics in a model metallic break junction. <i>Physical Review B</i> , 2008 , 78,	3.3	7
275	Alkali halide surfaces near melting: Wetting and nanofriction properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 495, 32-35	5.3	1
274	Spin-orbit modifications and splittings of deep surface states on clean Au(1 1 1). <i>Surface Science</i> , 2008 , 602, 893-905	1.8	30
273	Lubricated friction between incommensurate substrates. <i>Tribology International</i> , 2008 , 41, 920-925	4.9	8
272	Structure, vibrations and Raman modes in electron doped metal phthalocyanines. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 12570-6	2.8	10
271	Velocity plateaus and jumps in carbon nanotube sliding. <i>Surface Science</i> , 2007 , 601, 3693-3696	1.8	7
270	Kink plateau dynamics in finite-size lubricant chains. <i>Surface Science</i> , 2007 , 601, 3682-3686	1.8	13
269	Hysteresis from dynamically pinned sliding states. <i>Surface Science</i> , 2007 , 601, 3670-3675	1.8	10
268	Jahn-Teller effect in the magnesium phthalocyanine anion. <i>Journal of Molecular Structure</i> , 2007 , 838, 112-115	3.4	7
267	Peak effect versus skating in high-temperature nanofriction. <i>Nature Materials</i> , 2007 , 6, 230-4	27	24
266	Solitons and exact velocity quantization of incommensurate sliders. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 305016	1.8	12
265	Gold clusters sliding on graphite: a possible quartz crystal microbalance experiment?. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 305015	1.8	15

264	Static friction on the fly: velocity depinning transitions of lubricants in motion. <i>Physical Review Letters</i> , 2007 , 99, 206101	7.4	30
263	Physics and nanofriction of alkali halide solid surfaces at the melting point. <i>Surface Science</i> , 2006 , 600, 4395-4398	1.8	1
262	Monte Carlo studies of quantum and classical annealing on a double well. <i>Physical Review B</i> , 2006 , 73,	3.3	17
261	Raman tensor calculation for magnesium phthalocyanine. <i>Surface Science</i> , 2006 , 600, 3995-3998	1.8	8
260	Asymmetric frictional sliding between incommensurate surfaces. <i>Surface Science</i> , 2006 , 600, 2726-2729	1.8	28
259	Electron-stimulated emission of Na atoms from NaCl nanocube corners. <i>Surface Science</i> , 2006 , 600, 4315-4318	1.8	1
258	Physics of solid and liquid alkali halide surfaces near the melting point. <i>Journal of Chemical Physics</i> , 2005 , 123, 164701	3.9	28
257	Melting and nonmelting of solid surfaces and nanosystems. <i>Physics Reports</i> , 2005 , 411, 291-321	27.7	128
256	Nanowire formation at metal-metal contacts. <i>Solid State Communications</i> , 2005 , 135, 610-617	1.6	10
255	Dimerization of CO ₂ at high pressure and temperature. <i>ChemPhysChem</i> , 2005 , 6, 1752-6	3.2	20
254	Theoretical evidence for a reentrant phase diagram in ortho-para mixtures of solid H ₂ at high pressure. <i>Physical Review Letters</i> , 2005 , 94, 125503	7.4	12
253	Optimization by quantum annealing: Lessons from simple cases. <i>Physical Review B</i> , 2005 , 72,	3.3	41
252	Novel electronically driven surface phase predicted in C/Si(111). <i>Physical Review Letters</i> , 2005 , 95, 20680	7.4	12
251	Why are alkali halide surfaces not wetted by their own melt?. <i>Physical Review Letters</i> , 2005 , 94, 176105	7.4	39
250	One-dimensional multiband correlated conductors and Anderson impurity physics. <i>Physical Review Letters</i> , 2005 , 94, 106403	7.4	4
249	Exciton self-trapping in bulk polyethylene. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 4621-4627	1.8	23
248	Multiplet structures of charged fullerenes. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 2685-2698	1.3	11
247	The electronic structure of 4d transition-metal monatomic wires. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 8061-8074	1.8	28

246	Trapping of excitons at chemical defects in polyethylene. <i>Journal of Chemical Physics</i> , 2004 , 121, 6478-84	3.9	34
245	Sealing is at the origin of rubber slipping on wet roads. <i>Nature Materials</i> , 2004 , 3, 882-5	27	35
244	Strong correlations in electron doped phthalocyanine conductors near half filling. <i>Physical Review Letters</i> , 2004 , 93, 117002	7.4	70
243	Complex band structures and decay length in polyethylene chains. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 3731-3740	1.8	34
242	Theoretical study of conductance in stretched monatomic nanowires. <i>Surface Science</i> , 2003 , 547, 249-256	6.8	10
241	Jahn-Teller spectral fingerprint in molecular photoemission: c60. <i>Physical Review Letters</i> , 2003 , 91, 196402	4	15
240	Electron-phonon interaction at the Be(0001) surface. <i>Physical Review Letters</i> , 2003 , 91, 166803	7.4	44
239	Superconductivity from strong correlation: direct transition between a non-degenerate Mott insulator and a superconductor. <i>Journal of Physics and Chemistry of Solids</i> , 2002 , 63, 1555-1558	3.9	3
238	Self-trapping vs. non-trapping of electrons and holes in organic insulators: polyethylene. <i>Chemical Physics Letters</i> , 2002 , 360, 487-493	2.5	32
237	Disproportionation phenomena on free and strained Sn/Ge(111) and Sn/Si(111) surfaces. <i>Physical Review Letters</i> , 2002 , 89, 126803	7.4	35
236	Berry-phase calculation of magnetic screening and rotational g factor in molecules and solids. <i>Physical Review Letters</i> , 2002 , 89, 116402	7.4	9
235	Coulomb couplings in positively charged fullerene. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002 , 82, 1611-1647		18
234	Theory of quantum annealing of an Ising spin glass. <i>Science</i> , 2002 , 295, 2427-30	33.3	403
233	Ferroelectricity and isotope effects in hydrogen-bonded KDP crystals. <i>Physical Review Letters</i> , 2002 , 89, 187602	7.4	113
232	Strongly correlated superconductivity. <i>Science</i> , 2002 , 296, 2364-6	33.3	188
231	Kink-kink interactions and pre-roughening of vicinal surfaces. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001 , 81, 637-674		2
230	Explaining the uneven distribution of numbers in nature: the laws of Benford and Zipf. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 293, 297-304	3.3	158
229	String tension and stability of magic tip-suspended nanowires. <i>Science</i> , 2001 , 291, 288-90	33.3	241

228	Electron-vibration coupling constants in positively charged fullerene. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001 , 81, 793-812		61
227	Direct transition between a singlet Mott insulator and a superconductor. <i>Physical Review Letters</i> , 2001 , 86, 5361-4	7.4	34
226	The effect of surface roughness on the adhesion of elastic solids. <i>Journal of Chemical Physics</i> , 2001 , 115, 5597-5610	3.9	224
225	Surface charge density waves and the Mott insulators for 3B adlayers on (111) semiconductor surfaces. <i>Computational Materials Science</i> , 2001 , 20, 343-350	3.2	4
224	Dynamical and thermal properties of polyethylene by ab initio simulation. <i>Chemical Physics Letters</i> , 2000 , 331, 339-345	2.5	31
223	Physics of iron at Earth's core conditions. <i>Science</i> , 2000 , 287, 1027-30	33.3	316
222	Qualitative theory of rubber friction and wear. <i>Journal of Chemical Physics</i> , 2000 , 112, 2021-2029	3.9	46
221	Surface defreezing of glasses. <i>Europhysics Letters</i> , 2000 , 51, 648-654	1.6	4
220	(Meta)stable reconstructions of the diamond (111) surface: Interplay between diamond and graphitelike bonding. <i>Physical Review B</i> , 2000 , 61, R10590-R10593	3.3	19
219	Interplay of surface preroughening, roughening, and melting in three-dimensional lattice models. <i>Physical Review B</i> , 2000 , 62, 16146-16154	3.3	3
218	Theory of the metal-nonmagnetic Mott-Jahn-Teller insulator transition in A4C60. <i>Physical Review B</i> , 2000 , 62, 7619-7624	3.3	46
217	Interchain electron states in polyethylene. <i>Physical Review B</i> , 2000 , 62, 4389-4393	3.3	96
216	3B versus adatom-rest-atom phases on (111) semiconductor surfaces. <i>Physical Review B</i> , 2000 , 61, R13345-R13348	3.3	20
215	Reentrant layering in rare gas adsorption: preroughening or premelting?. <i>Physical Review Letters</i> , 2000 , 84, 2203-6	7.4	11
214	Reply to: The puzzling stability of monatomic gold wires is the result of small fluctuations. <i>Surface Science</i> , 2000 , 463, 213	1.8	1
213	Disordered flat phase separation of the Lennard-Jones fcc(111) surface. <i>Surface Science</i> , 2000 , 460, L503-L509	1.8	4
212	Shape changes in glasses due to surface flow. <i>Surface Science</i> , 2000 , 464, L686-L690	1.8	1
211	Noncolinear spin polarization from frustrated antiferromagnetism: A possible scenario for molecular oxygen at high pressure. <i>Physical Review B</i> , 2000 , 61, 6145-6149	3.3	29

210	MATERIALS SCIENCE: Weird Gold Nanowires. <i>Science</i> , 2000 , 289, 561-3	33.3	56
209	Two-membered silicon rings on the dehydroxylated surface of silica. <i>Physical Review Letters</i> , 2000 , 84, 3887-90	7.4	137
208	SiC(0001): A surface Mott-Hubbard insulator. <i>Physical Review B</i> , 2000 , 61, 1752-1755	3.3	30
207	Characterising the Metal-Insulator Transition in Two Dimensions. <i>Australian Journal of Physics</i> , 2000 , 53, 531		2
206	Variable-curvature-slab molecular dynamics as a method to determine surface stress. <i>Physical Review B</i> , 1999 , 59, 7687-7696	3.3	15
205	Spin-Liquid Ground State in a Two-Dimensional Nonfrustrated Spin Model. <i>Physical Review Letters</i> , 1999 , 83, 3065-3068	7.4	38
204	Variational theory of preroughening. <i>Physical Review B</i> , 1999 , 59, 3108-3124	3.3	9
203	Spin gap in low-dimensional Mott insulators with orbital degeneracy. <i>Journal of Applied Physics</i> , 1999 , 85, 5327-5329	2.5	1
202	Charge-density waves and surface Mott insulators for adlayer structures on semiconductors: Extended Hubbard modeling. <i>Physical Review B</i> , 1999 , 59, 1891-1901	3.3	74
201	Surface-Melting-Induced Preroughening. <i>Physical Review Letters</i> , 1999 , 83, 2753-2756	7.4	26
200	Dipole-Quadrupole Interactions and the Nature of Phase III of Compressed Hydrogen. <i>Physical Review Letters</i> , 1999 , 83, 4097-4100	7.4	38
199	Low-frequency adsorbate vibrational relaxation and sliding friction. <i>Physical Review B</i> , 1999 , 59, 11777-11791	3.3	53
198	Elasticity and mechanical instabilities of diamond at megabar stresses: Implications for diamond-anvil-cell research. <i>Applied Physics Letters</i> , 1999 , 75, 487-488	3.4	23
197	Theory of friction: elastic coherence length and earthquake dynamics. <i>Solid State Communications</i> , 1999 , 109, 739-744	1.6	30
196	Superionic and metallic states of water and ammonia at giant planet conditions. <i>Science</i> , 1999 , 283, 44-63	3.3	376
195	Pressure-induced solid carbonates from molecular CO ₂ by computer simulation. <i>Science</i> , 1999 , 284, 788-903	3.3	117
194	The puzzling stability of monatomic gold wires. <i>Surface Science</i> , 1999 , 426, L441-L446	1.8	109
193	Noncrystalline Structures of Ultrathin Unsupported Nanowires. <i>Physical Review Letters</i> , 1998 , 80, 3775-3778	7.4	253

- 192 Theory of the 2 x 2 and 3 x 3 reconstructions of the $\sqrt{3}\times\sqrt{3}$ -Sn(111) surface. *Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics*, **1998**, 20, 1013-1018
- 191 The puzzling collapse of electronic sliding friction on a superconductor surface. *Surface Science*, **1998**, 411, L855-L857 1.8 24
- 190 Interacting hard-core bosons and surface preroughening. *Physical Review B*, **1998**, 58, 13151-13162 3.3 1
- 189 Atomic and electronic structure of ideal and reconstructed $\sqrt{3}\times\sqrt{3}$ -Sn (100) surfaces. *Physical Review B*, **1998**, 58, 13698-13711 3.3 23
- 188 Pressure-Induced Magnetic Collapse and Metallization of Molecular Oxygen: The $\sqrt{2}\times\sqrt{2}$ Phase. *Physical Review Letters*, **1998**, 80, 5160-5163 7.4 75
- 187 Preroughening, fractional-layer occupancies, and phase separation at a disordered flat metal surface. *Physical Review B*, **1998**, 57, 10157-10165 3.3 5
- 186 Decomposition and Polymerization of Solid Carbon Monoxide under Pressure. *Physical Review Letters*, **1998**, 81, 2092-2095 7.4 63
- 185 Exact zero-point energy shift in the $e^-(nE)$, $t^-(nH)$ many-modes dynamic Jahn-Teller systems at strong coupling. *Physical Review B*, **1998**, 58, 782-790 3.3 24
- 184 Valence-bond states in dynamical Jahn-Teller molecular systems. *Physical Review B*, **1997**, 55, 16168-16175 7.5 12
- 183 Solid-State Polymerization of Acetylene under Pressure: Ab Initio Simulation. *Physical Review Letters*, **1997**, 78, 2008-2011 7.4 62
- 182 Solid Molecular Hydrogen: The Broken Symmetry Phase. *Physical Review Letters*, **1997**, 78, 2783-2786 7.4 77
- 181 Nonmagnetic molecular Jahn-Teller Mott insulators. *Physical Review B*, **1997**, 55, 13465-13472 3.3 91
- 180 Can Liquid Metal Surfaces Have Hexatic Order?. *Physical Review Letters*, **1997**, 78, 3153-3156 7.4 46
- 179 Dissociation of methane into hydrocarbons at extreme (planetary) pressure and temperature. *Science*, **1997**, 275, 1288-90 33.3 128
- 178 Transition from surface vibrations to liquidlike dynamics at an incompletely melted semiconductor surface. *Physical Review B*, **1997**, 55, 15405-15407 3.3 7
- 177 Enhanced Electron-Phonon Coupling at the Mo and W(110) Surfaces Induced by Adsorbed Hydrogen. *Zeitschrift Fur Physikalische Chemie*, **1996**, 197, 193-202 3.1 17
- 176 Role of layering oscillations at liquid metal surfaces in bulk recrystallization and surface melting. *Physical Review Letters*, **1996**, 76, 1118-1121 7.4 36
- 175 Stability of Diamond at Megabar Pressures. *Physica Status Solidi (B): Basic Research*, **1996**, 198, 447-453 1.3 9

174	Atomic and electronic structure of ideal and reconstructed alpha -Sn (111) surface. <i>Physical Review B</i> , 1996 , 54, 11769-11776	3-3	9
173	Surprises in the orbital magnetic moment and g factor of the dynamic Jahn-Teller ion C60-. <i>Physical Review B</i> , 1996 , 54, 17184-17190	3-3	32
172	Third-order dielectric susceptibility in a model quantum paraelectric. <i>Physical Review B</i> , 1996 , 54, 15714-15723	3-3	38
171	Interplay of orbital degeneracy and superconductivity in a molecular conductor. <i>Physical Review B</i> , 1996 , 53, 12086-12093	3-3	5
170	Anisotropic a-C:H from compression of polyacetylene. <i>Physical Review Letters</i> , 1996 , 76, 2081-2084	7-4	31
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