Salim Ciraci

List of Publications by Year in Descending Order

242 papers	21,120 citations	75 h-index	141 g-index
247 ext. papers	22,765 ext. citations	3.5 avg, IF	7.2 L-index

#	Paper	IF	Citations
242	Above Room Temperature Ferromagnetism in Gd2B2 Monolayer with High Magnetic Anisotropy. *Journal of Physical Chemistry C*, **2020**, 124, 12816-12823	3.8	12
241	Magnetic ground state in FeTe2,VS2, and NiTe2 monolayers: Antiparallel magnetic moments at chalcogen atoms. *Physical Review B*, **2020**, 101,	3.3	18
240	Temperature, strain and charge mediated multiple and dynamical phase changes of selenium and tellurium. *Nanoscale*, **2020**, 12, 3249-3258	7.7	4
239	Free-standing and supported phosphorene nanoflakes: Shape- and size-dependent properties. *Applied Surface Science*, **2020**, 506, 144756	6.7	5
238	Magnetic Heterostructures of Transition Metal Dichalcogenides: Antiparallel Magnetic Moments and Half-Metallic State. *Journal of Physical Chemistry C*, **2020**, 124, 23352-23360	3.8	1
237	Interactions of selected organic molecules with a blue phosphorene monolayer: self-assembly, solvent effect, enhanced binding and fixation through coadsorbed gold clusters. *Physical Chemistry Chemical Physics*, **2020**, 22, 26552-26561	3.6	5
236	Enhanced Interactions of Amino Acids and Nucleic Acid Bases with Bare Black Phosphorene Monolayer Mediated by Coadsorbed Species. *Journal of Physical Chemistry C*, **2019**, 123, 23691-23704	3.8	7
235	Deformed octagon-hexagon-square structure of group-IV and group-V elements and III-V compounds. *Physical Review B*, **2019**, 100,	3.3	3
234	Stable, one-dimensional suspended and supported monatomic chains of pnictogens: a metal-insulator framework. *Physical Chemistry Chemical Physics*, **2019**, 21, 14832-14845	3.6	4
233	Novel Metallic Clathrates of Group-IV Elements and Their Compounds in a Dense Hexagonal Lattice. *Journal of Physical Chemistry C*, **2019**, 123, 15330-15338	3.8	3
232	Two-dimensional pnictogens: A review of recent progresses and future research directions. *Applied Physics Reviews*, **2019**, 6, 021308	17.3	97
231	Structure dependent optoelectronic properties of monolayer antimonene, bismuthene and their binary compound. *Physical Chemistry Chemical Physics*, **2019**, 21, 7907-7917	3.6	26
230	Mechanical and Electrical Monitoring in the Dynamics of Twisted Phosphorene Nanoflakes on 2D Monolayers. *Journal of Physical Chemistry C*, **2019**, 123, 30704-30713	3.8	2
229	Glycine self-assembled on graphene enhances the solar absorbance performance. *Carbon*, **2019**, 143, 329-334	10.4	14
228	Fundamentals, progress, and future directions of nitride-based semiconductors and their composites in two-dimensional limit: A first-principles perspective to recent synthesis. *Applied Physics Reviews*, **2018**, 5, 011105	17.3	50
227	Lateral and Vertical Heterostructures of Transition Metal Dichalcogenides. *Journal of Physical Chemistry C*, **2018**, 122, 1547-1555	3.8	16
226	Metal□nsulator Transition and Heterostructure Formation by Glycines Self-Assembled on Defect-Patterned Graphene. *Journal of Physical Chemistry C*, **2018**, 122, 14598-14605	3.8	18

225	Onset of vertical bonds in new GaN multilayers: beyond van der Waals solids. *Nanoscale*, **2018**, 10, 21842-21850	7.7	8
224	Chemical and substitutional doping, and anti-site and vacancy formation in monolayer AlN and GaN. *Physical Chemistry Chemical Physics*, **2018**, 20, 16077-16091	3.6	24
223	Planar heterostructures of single-layer transition metal dichalcogenides: Composite structures, Schottky junctions, tunneling barriers, and half metals. *Physical Review B*, **2017**, 95,	3.3	16
222	Functionalization of Single-Layer Nitrogene by Vacancy, Adatoms, and Molecules. *Journal of Physical Chemistry C*, **2017**, 121, 6329-6338	3.8	11
221	Tunable dynamics of a flake on graphene: Libration frequency. *Physical Review B*, **2017**, 95,	3.3	6
220	In-plane commensurate GaN/AlN junctions: Single-layer composite structures, single and multiple quantum wells and quantum dots. *Physical Review B*, **2017**, 95,	3.3	15
219	Single layers and multilayers of GaN and AlN in square-octagon structure: Stability, electronic properties, and functionalization. *Physical Review B*, **2017**, 96,	3.3	13
218	Modification of electronic structure, magnetic structure, and topological phase of bismuthene by point defects. *Physical Review B*, **2017**, 96,	3.3	44
217	Lateral and Vertical Heterostructures of h-GaN/h-AlN: Electron Confinement, Band Lineup, and Quantum Structures. *Journal of Physical Chemistry C*, **2017**, 121, 27098-27110	3.8	15
216	GaN: From three- to two-dimensional single-layer crystal and its multilayer van der Waals solids. *Physical Review B*, **2016**, 93,	3.3	100
215	Single and bilayer bismuthene: Stability at high temperature and mechanical and electronic properties. *Physical Review B*, **2016**, 94,	3.3	224
214	Stability of single-layer and multilayer arsenene and their mechanical and electronic properties. *Physical Review B*, **2016**, 94,	3.3	82
213	Optical properties of single-layer and bilayer arsenene phases. *Physical Review B*, **2016**, 94,	3.3	53
212	Interaction of Adatoms and Molecules with Single-Layer Arsenene Phases. *Journal of Physical Chemistry C*, **2016**, 120, 14345-14355	3.8	88
211	Effects of Charging and Perpendicular Electric Field on Graphene Oxide. *Nanoscience and Technology*, **2016**, 261-290	0.6	4
210	Effects of adatoms and physisorbed molecules on the physical properties of antimonene. *Physical Review B*, **2016**, 93,	3.3	76
209	Stable single-layer structure of group-V elements. *Physical Review B*, **2016**, 94,	3.3	88
208	Single-layer crystalline phases of antimony: Antimonenes. *Physical Review B*, **2015**, 91,	3.3	224

207	Prediction of a two-dimensional crystalline structure of nitrogen atoms. *Physical Review B*, **2015**, 92,	3.3	99
206	Modulation of Electronic Properties in Laterally and Commensurately Repeating Graphene and Boron Nitride Composite Nanostructures. *Journal of Physical Chemistry C*, **2015**, 119, 13248-13256	3.8	21
205	High-performance planar nanoscale dielectric capacitors. *Physical Review B*, **2015**, 91,	3.3	18
204	Adsorption of Group IV Elements on Graphene, Silicene, Germanene, and Stanene: Dumbbell Formation. *Journal of Physical Chemistry C*, **2015**, 119, 845-853	3.8	41
203	Dissociative Adsorption of Molecules on Graphene and Silicene. *Journal of Physical Chemistry C*, **2014**, 118, 27574-27582	3.8	38
202	Silicite: The layered allotrope of silicon. *Physical Review B*, **2014**, 90,	3.3	53
201	New Phases of Germanene. *Journal of Physical Chemistry Letters*, **2014**, 5, 2694-9	6.4	52
200	Stable single-layer honeycomblike structure of silica. *Physical Review Letters*, **2014**, 112, 246803	7.4	70
199	Atomic structure of the 3□ phase of silicene on Ag(111). *Physical Review B*, **2014**, 90,	3.3	91
198	Nanoscale Dielectric Capacitors Composed of Graphene and Boron Nitride Layers: A First-Principles Study of High Capacitance at Nanoscale. *Journal of Physical Chemistry C*, **2013**, 117, 15327-15334	3.8	38
197	Effects of charging and perpendicular electric field on the properties of silicene and germanene. *Journal of Physics Condensed Matter*, **2013**, 25, 305007	1.8	32
196	Self-healing of vacancy defects in single-layer graphene and silicene. *Physical Review B*, **2013**, 88,	3.3	100
195	Superlubricity through graphene multilayers between Ni(111) surfaces. *Physical Review B*, **2013**, 87,	3.3	51
194	Effects of Charging and Electric Field on Graphene Oxide. *Journal of Physical Chemistry C*, **2013**, 117, 5943-5952	3.8	44
193	Half-Metallic and Magnetic Silicon Nanowires Functionalized by Transition-Metal Atoms. *Springer Series in Materials Science*, **2013**, 149-169	0.9	0
192	Size Dependence in the Stabilities and Electronic Properties of □Graphyne and Its Boron Nitride Analogue. *Journal of Physical Chemistry C*, **2013**, 117, 2175-2182	3.8	105
191	Effects of charging and electric field on graphene functionalized with titanium. *Journal of Physics Condensed Matter*, **2013**, 25, 275302	1.8	6
190	Local Reconstructions of Silicene Induced by Adatoms. *Journal of Physical Chemistry C*, **2013**, 117, 26305-26315	3.8	86

189	Functionalization of Graphene Nanoribbons. *Nanoscience and Technology*, **2013**, 69-92	0.6	1
188	Enhanced reduction of graphene oxide by means of charging and electric fields applied to hydroxyl groups. *Journal of Physics Condensed Matter*, **2013**, 25, 435304	1.8	13
187	Domain formation on oxidized graphene. *Physical Review B*, **2012**, 86,	3.3	33
186	Chlorine Adsorption on Graphene: Chlorographene. *Journal of Physical Chemistry C*, **2012**, 116, 24075-24083	4.8	118
185	Hydrogen-Saturated Silicon Nanowires Heavily Doped with Interstitial and Substitutional Transition Metals. *Journal of Physical Chemistry C*, **2012**, 116, 15713-15722	3.8	27
184	Frictional figures of merit for single layered nanostructures. *Physical Review Letters*, **2012**, 108, 126103	7.4	94
183	Self-assembly mechanisms of short atomic chains on single-layer graphene and boron nitride. *Physical Review B*, **2012**, 86,	3.3	23
182	Dissociation of H2O at the vacancies of single-layer MoS2. *Physical Review B*, **2012**, 85,	3.3	117
181	Stable, Single-Layer MX2 Transition-Metal Oxides and Dichalcogenides in a Honeycomb-Like Structure. *Journal of Physical Chemistry C*, **2012**, 116, 8983-8999	3.8	992
180	Graphene coatings: An efficient protection from oxidation. *Physical Review B*, **2012**, 85,	3.3	153
179	Effects of static charging and exfoliation of layered crystals. *Physical Review B*, **2012**, 85,	3.3	32
178	Epitaxial growth mechanisms of graphene and effects of substrates. *Physical Review B*, **2012**, 85,	3.3	37
177	Adsorption of carbon adatoms to graphene and its nanoribbons. *Journal of Applied Physics*, **2011**, 109, 013704	2.5	53
176	Functionalization of Single-Layer MoS2 Honeycomb Structures. *Journal of Physical Chemistry C*, **2011**, 115, 13303-13311	3.8	429
175	Structural, mechanical, and electronic properties of defect-patterned graphene nanomeshes from first principles. *Physical Review B*, **2011**, 84,	3.3	69
174	A Comparative Study of Lattice Dynamics of Three- and Two-Dimensional MoS2. *Journal of Physical Chemistry C*, **2011**, 115, 16354-16361	3.8	250
173	Mechanical and Electronic Properties of MoS2 Nanoribbons and Their Defects. *Journal of Physical Chemistry C*, **2011**, 115, 3934-3941	3.8	391
172	Structures of fluorinated graphene and their signatures. *Physical Review B*, **2011**, 83,	3.3	222

171	Perpendicular growth of carbon chains on graphene from first-principles. *Physical Review B*, **2011**, 83,	3.3	43
170	Two-dimensional C/BN core/shell structures. *Physical Review B*, **2011**, 83,	3.3	27
169	Static charging of graphene and graphite slabs. *Applied Physics Letters*, **2011**, 98, 131908	3.4	22
168	Armchair nanoribbons of silicon and germanium honeycomb structures. *Physical Review B*, **2010**, 81,	3.3	121
167	First-principles study of defects and adatoms in silicon carbide honeycomb structures. *Physical Review B*, **2010**, 81,	3.3	275
166	Functionalization of BN honeycomb structure by adsorption and substitution of foreign atoms. *Physical Review B*, **2010**, 82,	3.3	83
165	Elastic and plastic deformation of graphene, silicene, and boron nitride honeycomb nanoribbons under uniaxial tension: A first-principles density-functional theory study. *Physical Review B*, **2010**, 81,	3.3	200
164	Current-voltage (I𝕍) characteristics of armchair graphene nanoribbons under uniaxial strain. *Physical Review B*, **2010**, 81,	3.3	133
163	Effects of silicon and germanium adsorbed on graphene. *Applied Physics Letters*, **2010**, 96, 123112	3.4	55
162	Spintronic properties of zigzag-edged triangular graphene flakes. *Journal of Applied Physics*, **2010**, 108, 074301	2.5	61
161	Electronic and magnetic properties of graphane nanoribbons. *Physical Review B*, **2010**, 81,	3.3	122
160	The response of mechanical and electronic properties of graphane to the elastic strain. *Applied Physics Letters*, **2010**, 96, 091912	3.4	306
159	Long-range interactions in carbon atomic chains. *Physical Review B*, **2010**, 82,	3.3	82
158	Confinement of electrons in size-modulated silicon nanowires. *Physical Review B*, **2009**, 80,	3.3	7
157	First-principles study of the iron pnictide superconductor BaFe2As2. *Physical Review B*, **2009**, 79,	3.3	38
156	First-principles study of GaAs nanowires. *Physical Review B*, **2009**, 79,	3.3	54
155	Hydrogen storage of calcium atoms adsorbed on graphene: First-principles plane wave calculations. *Physical Review B*, **2009**, 79,	3.3	277
154	Monolayer honeycomb structures of group-IV elements and III-V binary compounds: First-principles calculations. *Physical Review B*, **2009**, 80,	3.3	1401

153	First-principles study of two- and one-dimensional honeycomb structures of boron nitride. *Physical Review B*, **2009**, 79,	3.3	503
152	Two- and one-dimensional honeycomb structures of silicon and germanium. *Physical Review Letters*, **2009**, 102, 236804	7.4	2380
151	First-principles study of zinc oxide honeycomb structures. *Physical Review B*, **2009**, 80,	3.3	252
150	Magnetization of graphane by dehydrogenation. *Applied Physics Letters*, **2009**, 95, 222510	3.4	105
149	Electronic and magnetic properties of 3d transition-metal atom adsorbed graphene and graphene nanoribbons. *Physical Review B*, **2008**, 77,	3.3	420
148	Structural, electronic, and magnetic properties of 3d transition metal monatomic chains: First-principles calculations. *Physical Review B*, **2008**, 77,	3.3	61
147	First-principles approach to monitoring the band gap and magnetic state of a graphene nanoribbon via its vacancies. *Physical Review B*, **2008**, 78,	3.3	108
146	High-capacity hydrogen storage by metallized graphene. *Applied Physics Letters*, **2008**, 93, 043123	3.4	356
145	Spin confinement in the superlattices of graphene ribbons. *Applied Physics Letters*, **2008**, 92, 173118	3.4	68
144	Functionalization of silicon nanowires with transition metal atoms. *Physical Review B*, **2008**, 78,	3.3	23
143	Superlattice structures of graphene-based armchair nanoribbons. *Physical Review B*, **2008**, 78,	3.3	133
142	Functionalization of carbon-based nanostructures with light transition-metal atoms for hydrogen storage. *Physical Review B*, **2008**, 77,	3.3	255
141	Hydrogen absorption properties of metal-ethylene complexes. *Physical Review B*, **2007**, 76,	3.3	76
140	Hydrogen storage capacity of Ti-doped boron-nitride and BBe-substituted carbon nanotubes. *Physical Review B*, **2007**, 76,	3.3	75
139	Oscillatory exchange coupling in magnetic molecules. *Journal of Physics Condensed Matter*, **2007**, 19, 216205	1.8	2
138	Ab-initio Atomic Scale Study of Nearly Frictionless Surfaces **2007**, 57-77		2
137	Confined states in multiple quantum well structures of SinGen nanowire superlattices. *Physical Review B*, **2007**, 76,	3.3	17
136	Half-metallic silicon nanowires: first-principles calculations. *Physical Review Letters*, **2007**, 99, 256806	7.4	66

135	?Dynamics of phononic dissipation at the atomic scale: Dependence on internal degrees of freedom. *Physical Review B*, **2007**, 76,	3.3	9
134	Atomic and electronic structures of doped silicon nanowires: A first-principles study. *Physical Review B*, **2007**, 76,	3.3	34
133	First-Principles Atomic-Scale Study of Superlow Friction. *Nanoscience and Technology*, **2007**, 201-217	0.6	
132	Nanospintronic properties of carbon-cobalt atomic chains. *Europhysics Letters*, **2006**, 73, 642-648	1.6	17
131	Size-dependent alternation of magnetoresistive properties in atomic chains. *Journal of Chemical Physics*, **2006**, 125, 121102	3.9	11
130	Transition-metal-ethylene complexes as high-capacity hydrogen-storage media. *Physical Review Letters*, **2006**, 97, 226102	7.4	271
129	Spin-dependent electronic structure of transition-metal atomic chains adsorbed on single-wall carbon nanotubes. *Physical Review B*, **2006**, 74,	3.3	40
128	Spintronic properties of carbon-based one-dimensional molecular structures. *Physical Review B*, **2006**, 74,	3.3	21
127	First principles study of electronic and mechanical properties of molybdenum selenide type nanowires. *Physical Review B*, **2006**, 74,	3.3	21
126	Hydrogen storage capacity of titanium met-cars. *Journal of Physics Condensed Matter*, **2006**, 18, 9509-9517	1.8	30
125	Adsorption and dissociation of hydrogen molecules on bare and functionalized carbon nanotubes. *Physical Review B*, **2005**, 72,	3.3	226
124	Atomic chains of group-IV elements and III-V and II-VI binary compounds studied by a first-principles pseudopotential method. *Physical Review B*, **2005**, 72,	3.3	66
123	Half-metallic properties of atomic chains of carbon□ransition-metal compounds. *Physical Review B*, **2005**, 72,	3.3	34
122	Carbon string structures: First-principles calculations of quantum conductance. *Physical Review B*, **2005**, 71,	3.3	17
121	Silicon and III-V compound nanotubes: Structural and electronic properties. *Physical Review B*, **2005**, 72,	3.3	232
120	Molecular and dissociative adsorption of multiple hydrogen molecules on transition metal decorated C60. *Physical Review B*, **2005**, 72,	3.3	204
119	Titanium-decorated carbon nanotubes as a potential high-capacity hydrogen storage medium. *Physical Review Letters*, **2005**, 94, 175501	7.4	786
118	Atomic and electronic structure of carbon strings. *Journal of Physics Condensed Matter*, **2005**, 17, 3823-36	1.8	29

117	Coverage and strain dependent magnetization of titanium-coated carbon nanotubes. *Physical Review B*, **2005**, 71,	3.3	13
116	First-Principles Study of Superlow Friction Between Hydrogenated Diamond Surfaces **2005**, 531		
115	Atomic scale study of superlow friction between hydrogenated diamond surfaces. *Physical Review B*, **2004**, 70,	3.3	70
114	Initial stages of Pt growth on Ge(001) studied by scanning tunneling microscopy and density functional theory. *Physical Review B*, **2004**, 70,	3.3	23
113	Theoretical study of Ga-based nanowires and the interaction of Ga with single-wall carbon nanotubes. *Physical Review B*, **2004**, 70,	3.3	10
112	Ab-initio electron transport calculations of carbon based string structures. *Physical Review Letters*, **2004**, 93, 136404	7.4	145
111	High-conducting magnetic nanowires obtained from uniform titanium-covered carbon nanotubes. *Physical Review B*, **2004**, 69,	3.3	48
110	Chiral single-wall gold nanotubes. *Physical Review Letters*, **2004**, 93, 196807	7.4	84
109	Functionalized carbon nanotubes and device applications. *Journal of Physics Condensed Matter*, **2004**, 16, R901-R960	1.8	90
108	Theoretical study of crossed and parallel carbon nanotube junctions and three-dimensional grid structures. *Physical Review B*, **2004**, 70,	3.3	33
107	Energetics and Electronic Structures of Individual Atoms Adsorbed on Carbon Nanotubes. *Journal of Physical Chemistry B*, **2004**, 108, 575-582	3.4	108
106	Atomic strings of group IV, III-V, and II-VI elements. *Applied Physics Letters*, **2004**, 85, 6179-6181	3.4	29
105	Systematic study of adsorption of single atoms on a carbon nanotube. *Physical Review B*, **2003**, 67,	3.3	284
104	A comparative study of O2 adsorbed carbon nanotubes. *Chemical Physics Letters*, **2003**, 380, 1-5	2.5	28
103	Atomic-scale study of friction and energy dissipation. *Wear*, **2003**, 254, 911-916	3.5	13
102	Oxygenation of carbon nanotubes: Atomic structure, energetics, and electronic structure. *Physical Review B*, **2003**, 67,	3.3	106
101	Electronic structure of the contact between carbon nanotube and metal electrodes. *Applied Physics Letters*, **2003**, 83, 3180-3182	3.4	52
100	Formation of quantum structures on a single nanotube by modulating hydrogen adsorption. *Physical Review B*, **2003**, 68,	3.3	29

99	Electronic structure of Te- and As-covered Si(211). *Physical Review B*, **2003**, 68,	3.3	12
98	Model study of a surfactant on the GaAs (100) surface. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2002**, 96, 141-144	3.1	4
97	Finite temperature studies of Te adsorption on Si(001). *Surface Science*, **2002**, 519, 79-89	1.8	18
96	Pentagonal nanowires: A first-principles study of the atomic and electronic structure. *Physical Review B*, **2002**, 65,	3.3	72
95	Systematic ab initio study of curvature effects in carbon nanotubes. *Physical Review B*, **2002**, 65,	3.3	202
94	Effects of hydrogen adsorption on single-wall carbon nanotubes: Metallic hydrogen decoration. *Physical Review B*, **2002**, 66,	3.3	99
93	Metal nanoring and tube formation on carbon nanotubes. *Physical Review B*, **2002**, 66,	3.3	31
92	Surfactant-mediated growth of semiconductor materials. *Modelling and Simulation in Materials Science and Engineering*, **2002**, 10, R61-R77	2	11
91	Reversible band-gap engineering in carbon nanotubes by radial deformation. *Physical Review B*, **2002**, 65,	3.3	116
90	Quantum transport through one-dimensional aluminum wires. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2002**, 20, 812		6
89	Quantum effects in electrical and thermal transport through nanowires. *Journal of Physics Condensed Matter*, **2001**, 13, R537-R568	1.8	56
88	Reaction path for Te during surfactant-mediated epitaxial growth of GaAs (100). *Physical Review B*, **2001**, 63,	3.3	5
87	Structure of aluminum atomic chains. *Physical Review B*, **2001**, 64,	3.3	58
86	Te covered Si(001): A variable surface reconstruction. *Physical Review B*, **2001**, 64,	3.3	6
85	Quantum effects of thermal conductance through atomic chains. *Physical Review B*, **2001**, 63,	3.3	73
84	Tunable adsorption on carbon nanotubes. *Physical Review Letters*, **2001**, 87, 116802	7.4	169
83	Exohydrogenated single-wall carbon nanotubes. *Physical Review B*, **2001**, 64,	3.3	94
82	Ab initio temperature dependent studies of the homoepitaxial growth on Si(001) surface. *Surface Science*, **2001**, 479, 109-120	1.8	1

81	Quantum heat transfer through an atomic wire. *Journal of Physics Condensed Matter*, **2000**, 12, 3349-3358	1.8	18
80	Variable and reversible quantum structures on a single carbon nanotube. *Physical Review B*, **2000**, 62, R16345-R16348	3.3	49
79	Pressure-induced interlinking of carbon nanotubes. *Physical Review B*, **2000**, 62, 12648-12651	3.3	104
78	Reduced density matrix approach to phononic dissipation in friction. *Physical Review B*, **2000**, 62, 10558-10564	3.3	6
77	First-principles investigation of structural and electronic properties of solid cubane and its doped derivatives. *Physical Review B*, **2000**, 62, 7625-7633	3.3	22
76	A First-Principles Study of the Structure and Dynamics of C8H8, Si8H8, and Ge8H8Molecules. *Journal of Physical Chemistry A*, **2000**, 104, 2724-2728	2.8	18
75	Atomic Structure, Quantized Electrical and Thermal Conductance of Nanowires **2000**, 79-94		
74	Thermal conduction through a molecule. *Europhysics Letters*, **1999**, 47, 208-212	1.6	40
73	Interpretation of long-range interatomic force. *Physical Review B*, **1999**, 59, 5120-5125	3.3	11
72	Model for phononic energy dissipation in friction. *Physical Review B*, **1999**, 59, 16042-16046	3.3	23
71	Theoretical study of boundary lubrication. *Physical Review B*, **1999**, 60, 1982-1988	3.3	9
70	Conductance through atomic contacts created by scanning tunneling microscopy. *Journal of Electron Spectroscopy and Related Phenomena*, **1999**, 98-99, 335-343	1.7	
69	Vibrations of the cubane molecule: inelastic neutron scattering study and theory. *Chemical Physics Letters*, **1999**, 309, 234-240	2.5	13
68	Quantum point contact on graphite surface. *Physical Review B*, **1998**, 58, 7872-7881	3.3	13
67	Conductance of ferromagnetic nanowires. *Physical Review B*, **1998**, 58, 9674-9676	3.3	3
66	Contact, nanoindentation, and sliding friction. *Physical Review B*, **1998**, 57, 2468-2476	3.3	72
65	An atomistic study on the stretching of nanowires. *Journal of Physics Condensed Matter*, **1997**, 9, 10843-10854	1.8	18
64	Interplay between stick-slip motion and structural phase transitions in dry sliding friction. *Physical Review B*, **1997**, 55, 12892-12895	3.3	9

63	Conductance through a single atom. *Physical Review B*, **1997**, 55, R1981-R1984	3.3	29
62	Atomic-scale study of dry sliding friction. *Physical Review B*, **1997**, 55, 2606-2611	3.3	49
61	Yielding and fracture mechanisms of nanowires. *Physical Review B*, **1997**, 56, 12632-12642	3.3	134
60	Conductance in Nanowires **1997**, 213-234		1
59	Microscopic Aspects of Friction **1997**, 339-353		
58	Controlled lateral and perpendicular motion of atoms on metal surfaces. *Physical Review B*, **1996**, 54, 2175-2183	3.3	30
57	Theory of Tip-Sample Interactions. *Springer Series in Surface Sciences*, **1996**, 179-206	0.4	1
56	Lateral translation of an Xe atom on metal surfaces. *Journal of Physics Condensed Matter*, **1995**, 7, 8487-8496	1.9	4
55	Forces in Scanning Probe Microscopy **1995**, 133-147		
54	Absence of metallicity in Cs-GaAs(110): A Hubbard-model study. *Physical Review B*, **1993**, 47, 16391-16394	3.3	16
53	Theory of Tip-Sample Interactions. *Springer Series in Surface Sciences*, **1993**, 179-206	0.4	2
52	Tip-Induced Modifications of Electronic and Atomic Structure **1993**, 111-119		
51	Bound-state formation on a spherical shell: A model for superconductivity of alkali-metal-doped C60. *Physical Review B*, **1992**, 45, 8213-8215	3.3	6
50	Potential oscillations near a barrier in the presence of phase-breaking scattering. *Physical Review B*, **1992**, 45, 1919-1922	3.3	2
49	Theoretical study of short- and long-range forces and atom transfer in scanning force microscopy. *Physical Review B*, **1992**, 46, 10411-10422	3.3	89
48	Electric-field effects on finite-length superlattices. *Physical Review B*, **1992**, 46, 7621-7626	3.3	5
47	Tunneling-induced superconductivity in layered systems. *Physical Review B*, **1992**, 46, 11157-11159	3.3	1
46	Atomic-scale tip-sample interactions and contact phenomena. *Ultramicroscopy*, **1992**, 42-44, 16-21	3.1	13

45	Adhesive energy, force and barrier height between simple metal surfaces. *Ultramicroscopy*, **1992**, 42-44, 163-168	3.1	15
44	Adsorption site of alkali metal overlayers on Si(001) 2 □1. *Ultramicroscopy*, **1992**, 42-44, 889-894	3.1	4
43	Theory of Schottky barrier and metallization. *Progress in Surface Science*, **1991**, 36, 289-361	6.6	26
42	From low to high-temperature superconductivity: A dimensional crossover phenomenon? A finite size effect?. *European Physical Journal B*, **1991**, 83, 313-321	1.2	17
41	Tip-structure effects on atomic force microscopy images. *Journal of Physics Condensed Matter*, **1991** , 3, 2613-2619	1.8	16
40	Transition Temperature of Superconductor-Insulator Superlattices. *Europhysics Letters*, **1991**, 14, 261-266	2.6	26
39	Electronic structure of a Si delta -layer embedded in Ge(001). *Semiconductor Science and Technology* , **1991**, 6, 1002-1005	1.8	1
38	Electronic structure of Ge-Si superlattices grown on Ge (001). *Semiconductor Science and Technology*, **1991**, 6, 638-641	1.8	1
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