

Salim Ciraci

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1448539/publications.pdf>

Version: 2024-02-01

244
papers

24,294
citations

7551

77
h-index

7333

152
g-index

247
all docs

247
docs citations

247
times ranked

15231
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and electronic properties of monolayer and multilayer structures of group-IV elements and compounds of complementary groups in biphenylene network. <i>Physical Review B</i> , 2022, 105, .	1.1	22
2	Functional Carbon and Silicon Monolayers in Biphenylene Network. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3056-3070.	2.0	9
3	Columnar antiferromagnetic order of a MBene monolayer. <i>Physical Review B</i> , 2021, 103, .	1.1	10
4	Magnetization of silicene via coverage with gadolinium: Effects of thickness, symmetry, strain, and coverage. <i>Physical Review B</i> , 2021, 104, .	1.1	5
5	Temperature, strain and charge mediated multiple and dynamical phase changes of selenium and tellurium. <i>Nanoscale</i> , 2020, 12, 3249-3258.	2.8	8
6	Free-standing and supported phosphorene nanoflakes: Shape- and size-dependent properties. <i>Applied Surface Science</i> , 2020, 506, 144756.	3.1	8
7	Magnetic Heterostructures of Transition Metal Dichalcogenides: Antiparallel Magnetic Moments and Half-Metallic State. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23352-23360.	1.5	3
8	Interactions of selected organic molecules with a blue phosphorene monolayer: self-assembly, solvent effect, enhanced binding and fixation through coadsorbed gold clusters. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26552-26561.	1.3	6
9	Above Room Temperature Ferromagnetism in Gd ₂ B ₂ Monolayer with High Magnetic Anisotropy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12816-12823.	1.5	25
10	Magnetic ground state in FeTe_2 and NiTe_2 monolayers: Antiparallel magnetic moments at chalcogen atoms. <i>Physical Review B</i> , 2020, 101, .	1.1	31
11	Enhanced Interactions of Amino Acids and Nucleic Acid Bases with Bare Black Phosphorene Monolayer Mediated by Coadsorbed Species. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23691-23704.	1.5	10
12	Deformed octagon-hexagon-square structure of group-IV and group-V elements and III-V compounds. <i>Physical Review B</i> , 2019, 100, .	1.1	7
13	Stable, one-dimensional suspended and supported monatomic chains of pnictogens: a metal-insulator framework. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14832-14845.	1.3	9
14	Novel Metallic Clathrates of Group-IV Elements and Their Compounds in a Dense Hexagonal Lattice. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15330-15338.	1.5	5
15	Two-dimensional pnictogens: A review of recent progresses and future research directions. <i>Applied Physics Reviews</i> , 2019, 6, .	5.5	143
16	Structure dependent optoelectronic properties of monolayer antimonene, bismuthene and their binary compound. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7907-7917.	1.3	40
17	Mechanical and Electrical Monitoring in the Dynamics of Twisted Phosphorene Nanoflakes on 2D Monolayers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30704-30713.	1.5	2
18	Glycine self-assembled on graphene enhances the solar absorbance performance. <i>Carbon</i> , 2019, 143, 329-334.	5.4	21

#	ARTICLE	IF	CITATIONS
19	Fundamentals, progress, and future directions of nitride-based semiconductors and their composites in two-dimensional limit: A first-principles perspective to recent synthesis. <i>Applied Physics Reviews</i> , 2018, 5, .	5.5	71
20	Lateral and Vertical Heterostructures of Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1547-1555.	1.5	26
21	Onset of vertical bonds in new GaN multilayers: beyond van der Waals solids. <i>Nanoscale</i> , 2018, 10, 21842-21850.	2.8	13
22	Chemical and substitutional doping, and anti-site and vacancy formation in monolayer AlN and GaN. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16077-16091.	1.3	45
23	Metal-Insulator Transition and Heterostructure Formation by Glycines Self-Assembled on Defect-Patterned Graphene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14598-14605.	1.5	28
24	Planar heterostructures of single-layer transition metal dichalcogenides: Composite structures, Schottky junctions, tunneling barriers, and half metals. <i>Physical Review B</i> , 2017, 95, .	1.1	20
25	Functionalization of Single-Layer Nitrogen by Vacancy, Adatoms, and Molecules. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6329-6338.	1.5	16
26	Tunable dynamics of a flake on graphene: Libration frequency. <i>Physical Review B</i> , 2017, 95, .	1.1	7
27	In-plane commensurate GaN/AlN junctions: Single-layer composite structures, single and multiple quantum wells and quantum dots. <i>Physical Review B</i> , 2017, 95, .	1.1	20
28	Single layers and multilayers of GaN and AlN in square-octagon structure: Stability, electronic properties, and functionalization. <i>Physical Review B</i> , 2017, 96, .	1.1	25
29	Modification of electronic structure, magnetic structure, and topological phase of bismuthene by point defects. <i>Physical Review B</i> , 2017, 96, .	1.1	54
30	Lateral and Vertical Heterostructures of h-GaN/h-AlN: Electron Confinement, Band Lineup, and Quantum Structures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27098-27110.	1.5	22
31	Stable single-layer structure of group-V elements. <i>Physical Review B</i> , 2016, 94, .	1.1	108
32	GaN: From three- to two-dimensional single-layer crystal and its multilayer van der Waals solids. <i>Physical Review B</i> , 2016, 93, .	1.1	139
33	Single and bilayer bismuthene: Stability at high temperature and mechanical and electronic properties. <i>Physical Review B</i> , 2016, 94, .	1.1	295
34	Stability of single-layer and multilayer arsenene and their mechanical and electronic properties. <i>Physical Review B</i> , 2016, 94, .	1.1	93
35	Optical properties of single-layer and bilayer arsenene phases. <i>Physical Review B</i> , 2016, 94, .	1.1	67
36	Interaction of Adatoms and Molecules with Single-Layer Arsenene Phases. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14345-14355.	1.5	98

#	ARTICLE	IF	CITATIONS
37	Effects of Charging and Perpendicular Electric Field on Graphene Oxide. Nanoscience and Technology, 2016, , 261-290.	1.5	4
38	Effects of adatoms and physisorbed molecules on the physical properties of antimonene. Physical Review B, 2016, 93, .	1.1	84
39	Single-layer crystalline phases of antimony: Antimonenes. Physical Review B, 2015, 91, .	1.1	261
40	Prediction of a two-dimensional crystalline structure of nitrogen atoms. Physical Review B, 2015, 92, .	1.1	109
41	Modulation of Electronic Properties in Laterally and Commensurately Repeating Graphene and Boron Nitride Composite Nanostructures. Journal of Physical Chemistry C, 2015, 119, 13248-13256.	1.5	21
42	High-performance planar nanoscale dielectric capacitors. Physical Review B, 2015, 91, .	1.1	19
43	Adsorption of Group IV Elements on Graphene, Silicene, Germanene, and Stanene: Dumbbell Formation. Journal of Physical Chemistry C, 2015, 119, 845-853.	1.5	45
44	Atomic structure of the $\sqrt{3} \times \sqrt{3}$ phase of silicene on Ag(111). Physical Review B, 2014, 90, .	1.1	107
45	Dissociative Adsorption of Molecules on Graphene and Silicene. Journal of Physical Chemistry C, 2014, 118, 27574-27582.	1.5	43
46	Silicite: The layered allotrope of silicon. Physical Review B, 2014, 90, .	1.1	59
47	New Phases of Germanene. Journal of Physical Chemistry Letters, 2014, 5, 2694-2699.	2.1	56
48	Stable Single-Layer Honeycomblike Structure of Silica. Physical Review Letters, 2014, 112, 246803.	2.9	83
49	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.	1.5	45
50	Effects of charging and perpendicular electric field on the properties of silicene and germanene. Journal of Physics Condensed Matter, 2013, 25, 305007.	0.7	45
51	Self-healing of vacancy defects in single-layer graphene and silicene. Physical Review B, 2013, 88, .	1.1	119
52	Superlubricity through graphene multilayers between Ni(111) surfaces. Physical Review B, 2013, 87, .	1.1	63
53	Effects of Charging and Electric Field on Graphene Oxide. Journal of Physical Chemistry C, 2013, 117, 5943-5952.	1.5	47
54	Half-Metallic and Magnetic Silicon Nanowires Functionalized by Transition-Metal Atoms. Springer Series in Materials Science, 2013, , 149-169.	0.4	1

#	ARTICLE	IF	CITATIONS
55	Size Dependence in the Stabilities and Electronic Properties of $\dot{\pm}$ -Graphyne and Its Boron Nitride Analogue. Journal of Physical Chemistry C, 2013, 117, 2175-2182.	1.5	117
56	Effects of charging and electric field on graphene functionalized with titanium. Journal of Physics Condensed Matter, 2013, 25, 275302.	0.7	6
57	Local Reconstructions of Silicene Induced by Adatoms. Journal of Physical Chemistry C, 2013, 117, 26305-26315.	1.5	91
58	Functionalization of Graphene Nanoribbons. Nanoscience and Technology, 2013, , 69-92.	1.5	1
59	Enhanced reduction of graphene oxide by means of charging and electric fields applied to hydroxyl groups. Journal of Physics Condensed Matter, 2013, 25, 435304.	0.7	13
60	Epitaxial growth mechanisms of graphene and effects of substrates. Physical Review B, 2012, 85, .	1.1	39
61	Domain formation on oxidized graphene. Physical Review B, 2012, 86, .	1.1	40
62	Chlorine Adsorption on Graphene: Chlorographene. Journal of Physical Chemistry C, 2012, 116, 24075-24083.	1.5	135
63	Hydrogen-Saturated Silicon Nanowires Heavily Doped with Interstitial and Substitutional Transition Metals. Journal of Physical Chemistry C, 2012, 116, 15713-15722.	1.5	30
64	Frictional Figures of Merit for Single Layered Nanostructures. Physical Review Letters, 2012, 108, 126103.	2.9	110
65	Self-assembly mechanisms of short atomic chains on single-layer graphene and boron nitride. Physical Review B, 2012, 86, .	1.1	24
66	Dissociation of H_2O at the vacancies of single-layer MoS ₂ . Physical Review B, 2012, 85, .	1.1	132
67	Stable, Single-Layer MX ₂ Transition-Metal Oxides and Dichalcogenides in a Honeycomb-Like Structure. Journal of Physical Chemistry C, 2012, 116, 8983-8999.	1.5	1,196
68	Graphene coatings: An efficient protection from oxidation. Physical Review B, 2012, 85, .	1.1	178
69	Effects of static charging and exfoliation of layered crystals. Physical Review B, 2012, 85, .	1.1	35
70	Perpendicular growth of carbon chains on graphene from first-principles. Physical Review B, 2011, 83, .	1.1	44
71	Adsorption of carbon adatoms to graphene and its nanoribbons. Journal of Applied Physics, 2011, 109, 013704.	1.1	59
72	Functionalization of Single-Layer MoS ₂ Honeycomb Structures. Journal of Physical Chemistry C, 2011, 115, 13303-13311.	1.5	484

#	ARTICLE	IF	CITATIONS
73	Structural, mechanical, and electronic properties of defect-patterned graphene nanomeshes from first principles. <i>Physical Review B</i> , 2011, 84, .	1.1	76
74	A Comparative Study of Lattice Dynamics of Three- and Two-Dimensional MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 16354-16361.	1.5	298
75	Mechanical and Electronic Properties of MoS ₂ Nanoribbons and Their Defects. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3934-3941.	1.5	427
76	Structures of fluorinated graphene and their signatures. <i>Physical Review B</i> , 2011, 83, .	1.1	254
77	Two-dimensional C/BN core/shell structures. <i>Physical Review B</i> , 2011, 83, .	1.1	27
78	Static charging of graphene and graphite slabs. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	23
79	Long-range interactions in carbon atomic chains. <i>Physical Review B</i> , 2010, 82, .	1.1	86
80	Armchair nanoribbons of silicon and germanium honeycomb structures. <i>Physical Review B</i> , 2010, 81, .	1.1	137
81	First-principles study of defects and adatoms in silicon carbide honeycomb structures. <i>Physical Review B</i> , 2010, 81, .	1.1	344
82	Functionalization of BN honeycomb structure by adsorption and substitution of foreign atoms. <i>Physical Review B</i> , 2010, 82, .	1.1	92
83	Elastic and plastic deformation of graphene, silicene, and boron nitride honeycomb nanoribbons under uniaxial tension: A first-principles density-functional theory study. <i>Physical Review B</i> , 2010, 81, .	1.1	219
84	Current-voltage characteristics of armchair graphene nanoribbons under uniaxial strain. <i>Physical Review B</i> , 2010, 81, .	1.1	149
85	Effects of silicon and germanium adsorbed on graphene. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	63
86	Spintronic properties of zigzag-edged triangular graphene flakes. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	65
87	Electronic and magnetic properties of graphane nanoribbons. <i>Physical Review B</i> , 2010, 81, .	1.1	136
88	The response of mechanical and electronic properties of graphane to the elastic strain. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	344
89	Confinement of electrons in size-modulated silicon nanowires. <i>Physical Review B</i> , 2009, 80, .	1.1	11
90	First-principles study of the iron pnictide superconductor BaFe ₂ As ₂ . <i>Physical Review B</i> , 2009, 79, .	1.1	43

#	ARTICLE	IF	CITATIONS
91	First-principles study of GaAs nanowires. Physical Review B, 2009, 79, .	1.1	58
92	Hydrogen storage of calcium atoms adsorbed on graphene: First-principles plane wave calculations. Physical Review B, 2009, 79, .	1.1	314
93	Monolayer honeycomb structures of group-IV elements and III-V binary compounds: First-principles calculations. Physical Review B, 2009, 80, .	1.1	1,769
94	First-principles study of two- and one-dimensional honeycomb structures of boron nitride. Physical Review B, 2009, 79, .	1.1	580
95	Two- and One-Dimensional Honeycomb Structures of Silicon and Germanium. Physical Review Letters, 2009, 102, 236804.	2.9	2,837
96	First-principles study of zinc oxide honeycomb structures. Physical Review B, 2009, 80, .	1.1	298
97	Magnetization of graphane by dehydrogenation. Applied Physics Letters, 2009, 95, .	1.5	110
98	Superlattice structures of graphene-based armchair nanoribbons. Physical Review B, 2008, 78, .	1.1	148
99	Functionalization of carbon-based nanostructures with light transition-metal atoms for hydrogen storage. Physical Review B, 2008, 77, .	1.1	315
100	Electronic and magnetic properties of $3d$ transition-metal atom adsorbed graphene and graphene nanoribbons. Physical Review B, 2008, 77, .		452
101	Structural, electronic, and magnetic properties of $3d$ transition metal monatomic chains: First-principles calculations. Physical Review B, 2008, 77, .	1.1	63
102	First-principles approach to monitoring the band gap and magnetic state of a graphene nanoribbon via its vacancies. Physical Review B, 2008, 78, .	1.1	120
103	High-capacity hydrogen storage by metallized graphene. Applied Physics Letters, 2008, 93, .	1.5	397
104	Spin confinement in the superlattices of graphene ribbons. Applied Physics Letters, 2008, 92, .	1.5	79
105	Functionalization of silicon nanowires with transition metal atoms. Physical Review B, 2008, 78, .	1.1	26
106	Oscillatory exchange coupling in magnetic molecules. Journal of Physics Condensed Matter, 2007, 19, 216205.	0.7	3
107	Ab-initio Atomic Scale Study of Nearly Frictionless Surfaces. , 2007, , 57-77.		2
108	Confined states in multiple quantum well structures of Si_nGe_m nanowire superlattices. Physical Review B, 2007, 76, .	1.1	18

#	ARTICLE	IF	CITATIONS
109	Half-Metallic Silicon Nanowires: First-Principles Calculations. Physical Review Letters, 2007, 99, 256806.	2.9	70
110	â€†Dynamics of phononic dissipation at the atomic scale: Dependence on internal degrees of freedom. Physical Review B, 2007, 76, .	1.1	11
111	Atomic and electronic structures of doped silicon nanowires: A first-principles study. Physical Review B, 2007, 76, .	1.1	39
112	Hydrogen absorption properties of metal-ethylene complexes. Physical Review B, 2007, 76, .	1.1	85
113	Hydrogen storage capacity of Ti-doped boron-nitride and B -substituted carbon nanotubes. Physical Review B, 2007, 76, .	1.1	86
114	First-Principles Atomic-Scale Study of Superlow Friction. Nanoscience and Technology, 2007, , 201-217.	1.5	0
115	Spintronic properties of carbon-based one-dimensional molecular structures. Physical Review B, 2006, 74, .	1.1	21
116	First principles study of electronic and mechanical properties of molybdenum selenide type nanowires. Physical Review B, 2006, 74, .	1.1	26
117	Hydrogen storage capacity of titanium met-cars. Journal of Physics Condensed Matter, 2006, 18, 9509-9517.	0.7	32
118	Nanospintronic properties of carbon-cobalt atomic chains. Europhysics Letters, 2006, 73, 642-648.	0.7	18
119	Size-dependent alternation of magnetoresistive properties in atomic chains. Journal of Chemical Physics, 2006, 125, 121102.	1.2	11
120	Transition-Metal-Ethylene Complexes as High-Capacity Hydrogen-Storage Media. Physical Review Letters, 2006, 97, 226102.	2.9	304
121	Spin-dependent electronic structure of transition-metal atomic chains adsorbed on single-wall carbon nanotubes. Physical Review B, 2006, 74, .	1.1	41
122	Molecular and dissociative adsorption of multiple hydrogen molecules on transition metal decorated C ₆₀ . Physical Review B, 2005, 72, .	1.1	234
123	Titanium-Decorated Carbon Nanotubes as a Potential High-Capacity Hydrogen Storage Medium. Physical Review Letters, 2005, 94, 175501.	2.9	888
124	Atomic and electronic structure of carbon strings. Journal of Physics Condensed Matter, 2005, 17, 3823-3836.	0.7	30
125	Coverage and strain dependent magnetization of titanium-coated carbon nanotubes. Physical Review B, 2005, 71, .	1.1	14
126	First-Principles Study of Superlow Friction Between Hydrogenated Diamond Surfaces. , 2005, , 531.		0

#	ARTICLE	IF	CITATIONS
127	Adsorption and dissociation of hydrogen molecules on bare and functionalized carbon nanotubes. Physical Review B, 2005, 72, .	1.1	255
128	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, .	1.1	70
129	Half-metallic properties of atomic chains of carbon-transition-metal compounds. Physical Review B, 2005, 72, .	1.1	35
130	Carbon string structures: First-principles calculations of quantum conductance. Physical Review B, 2005, 71, .	1.1	17
131	Silicon and III-V compound nanotubes: Structural and electronic properties. Physical Review B, 2005, 72, .	1.1	250
132	Atomic scale study of superlow friction between hydrogenated diamond surfaces. Physical Review B, 2004, 70, .	1.1	77
133	Initial stages of Pt growth on Ge(001) studied by scanning tunneling microscopy and density functional theory. Physical Review B, 2004, 70, .	1.1	26
134	Theoretical study of Ga-based nanowires and the interaction of Ga with single-wall carbon nanotubes. Physical Review B, 2004, 70, .	1.1	12
135	Ab-initio Electron Transport Calculations of Carbon Based String Structures. Physical Review Letters, 2004, 93, 136404.	2.9	151
136	High-conducting magnetic nanowires obtained from uniform titanium-covered carbon nanotubes. Physical Review B, 2004, 69, .	1.1	51
137	Chiral Single-Wall Gold Nanotubes. Physical Review Letters, 2004, 93, 196807.	2.9	89
138	Functionalized carbon nanotubes and device applications. Journal of Physics Condensed Matter, 2004, 16, R901-R960.	0.7	104
139	Theoretical study of crossed and parallel carbon nanotube junctions and three-dimensional grid structures. Physical Review B, 2004, 70, .	1.1	34
140	Energetics and Electronic Structures of Individual Atoms Adsorbed on Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 575-582.	1.2	116
141	Atomic strings of group IV, III-V, and II-VI elements. Applied Physics Letters, 2004, 85, 6179-6181.	1.5	30
142	Systematic study of adsorption of single atoms on a carbon nanotube. Physical Review B, 2003, 67, .	1.1	305
143	A comparative study of O ₂ adsorbed carbon nanotubes. Chemical Physics Letters, 2003, 380, 1-5.	1.2	30
144	Atomic-scale study of friction and energy dissipation. Wear, 2003, 254, 911-916.	1.5	18

#	ARTICLE	IF	CITATIONS
145	Oxygenation of carbon nanotubes: Atomic structure, energetics, and electronic structure. Physical Review B, 2003, 67, .	1.1	109
146	Electronic structure of the contact between carbon nanotube and metal electrodes. Applied Physics Letters, 2003, 83, 3180-3182.	1.5	61
147	Formation of quantum structures on a single nanotube by modulating hydrogen adsorption. Physical Review B, 2003, 68, .	1.1	29
148	Electronic structure of Te- and As-covered Si(211). Physical Review B, 2003, 68, .	1.1	12
149	Surfactant-mediated growth of semiconductor materials. Modelling and Simulation in Materials Science and Engineering, 2002, 10, R61-R77.	0.8	16
150	Reversible band-gap engineering in carbon nanotubes by radial deformation. Physical Review B, 2002, 65, .	1.1	121
151	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.	1.6	6
152	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.	1.7	4
153	Finite temperature studies of Te adsorption on. Surface Science, 2002, 519, 79-89.	0.8	18
154	Pentagonal nanowires: A first-principles study of the atomic and electronic structure. Physical Review B, 2002, 65, .	1.1	75
155	Systematic ab initio study of curvature effects in carbon nanotubes. Physical Review B, 2002, 65, .	1.1	235
156	Effects of hydrogen adsorption on single-wall carbon nanotubes: Metallic hydrogen decoration. Physical Review B, 2002, 66, .	1.1	104
157	Metal nanoring and tube formation on carbon nanotubes. Physical Review B, 2002, 66, .	1.1	33
158	Tunable Adsorption on Carbon Nanotubes. Physical Review Letters, 2001, 87, 116802.	2.9	184
159	Exohydrogenated single-wall carbon nanotubes. Physical Review B, 2001, 64, .	1.1	103
160	Ab initio temperature dependent studies of the homoepitaxial growth on Si(001) surface. Surface Science, 2001, 479, 109-120.	0.8	1
161	Quantum effects in electrical and thermal transport through nanowires. Journal of Physics Condensed Matter, 2001, 13, R537-R568.	0.7	59
162	Reaction path for Te during surfactant-mediated epitaxial growth of GaAs (100). Physical Review B, 2001, 63, .	1.1	5

#	ARTICLE	IF	CITATIONS
163	Structure of aluminum atomic chains. Physical Review B, 2001, 64, .	1.1	61
164	Te covered Si(001): A variable surface reconstruction. Physical Review B, 2001, 64, .	1.1	6
165	Quantum effects of thermal conductance through atomic chains. Physical Review B, 2001, 63, .	1.1	81
166	Quantum heat transfer through an atomic wire. Journal of Physics Condensed Matter, 2000, 12, 3349-3358.	0.7	19
167	Variable and reversible quantum structures on a single carbon nanotube. Physical Review B, 2000, 62, R16345-R16348.	1.1	50
168	Pressure-induced interlinking of carbon nanotubes. Physical Review B, 2000, 62, 12648-12651.	1.1	116
169	Reduced density matrix approach to phononic dissipation in friction. Physical Review B, 2000, 62, 10558-10564.	1.1	6
170	First-principles investigation of structural and electronic properties of solid cubane and its doped derivatives. Physical Review B, 2000, 62, 7625-7633.	1.1	23
171	A First-Principles Study of the Structure and Dynamics of C ₈ H ₈ , Si ₈ H ₈ , and Ge ₈ H ₈ Molecules. Journal of Physical Chemistry A, 2000, 104, 2724-2728.	1.1	21
172	Thermal conduction through a molecule. Europhysics Letters, 1999, 47, 208-212.	0.7	42
173	Interpretation of long-range interatomic force. Physical Review B, 1999, 59, 5120-5125.	1.1	13
174	Model for phononic energy dissipation in friction. Physical Review B, 1999, 59, 16042-16046.	1.1	30
175	Theoretical study of boundary lubrication. Physical Review B, 1999, 60, 1982-1988.	1.1	9
176	Conductance through atomic contacts created by scanning tunneling microscopy. Journal of Electron Spectroscopy and Related Phenomena, 1999, 98-99, 335-343.	0.8	0
177	Vibrations of the cubane molecule: inelastic neutron scattering study and theory. Chemical Physics Letters, 1999, 309, 234-240.	1.2	15
178	Quantum point contact on graphite surface. Physical Review B, 1998, 58, 7872-7881.	1.1	13
179	Conductance of ferromagnetic nanowires. Physical Review B, 1998, 58, 9674-9676.	1.1	3
180	Contact, nanoindentation, and sliding friction. Physical Review B, 1998, 57, 2468-2476.	1.1	79

#	ARTICLE	IF	CITATIONS
181	An atomistic study on the stretching of nanowires. Journal of Physics Condensed Matter, 1997, 9, 10843-10854.	0.7	22
182	Interplay between stick-slip motion and structural phase transitions in dry sliding friction. Physical Review B, 1997, 55, 12892-12895.	1.1	9
183	Conductance through a single atom. Physical Review B, 1997, 55, R1981-R1984.	1.1	30
184	Atomic-scale study of dry sliding friction. Physical Review B, 1997, 55, 2606-2611.	1.1	55
185	Yielding and fracture mechanisms of nanowires. Physical Review B, 1997, 56, 12632-12642.	1.1	142
186	Conductance in Nanowires. , 1997, , 213-234.		1
187	Microscopic Aspects of Friction. , 1997, , 339-353.		0
188	Controlled lateral and perpendicular motion of atoms on metal surfaces. Physical Review B, 1996, 54, 2175-2183.	1.1	31
189	Theory of Tip-Sample Interactions. Springer Series in Surface Sciences, 1996, , 179-206.	0.3	1
190	Lateral translation of an Xe atom on metal surfaces. Journal of Physics Condensed Matter, 1995, 7, 8487-8496.	0.7	5
191	Forces in Scanning Probe Microscopy. , 1995, , 133-147.		0
192	Absence of metallicity in Cs-GaAs(110): A Hubbard-model study. Physical Review B, 1993, 47, 16391-16394.	1.1	16
193	Theory of Tip-Sample Interactions. Springer Series in Surface Sciences, 1993, , 179-206.	0.3	3
194	Bound-state formation on a spherical shell: A model for superconductivity of alkali-metal-doped C ₆₀ . Physical Review B, 1992, 45, 8213-8215.	1.1	6
195	Potential oscillations near a barrier in the presence of phase-breaking scattering. Physical Review B, 1992, 45, 1919-1922.	1.1	2
196	Theoretical study of short- and long-range forces and atom transfer in scanning force microscopy. Physical Review B, 1992, 46, 10411-10422.	1.1	96
197	Electric-field effects on finite-length superlattices. Physical Review B, 1992, 46, 7621-7626.	1.1	6
198	Tunneling-induced superconductivity in layered systems. Physical Review B, 1992, 46, 11157-11159.	1.1	1

#	ARTICLE	IF	CITATIONS
199	Atomic-scale tip-sample interactions and contact phenomena. Ultramicroscopy, 1992, 42-44, 16-21.	0.8	14
200	Adhesive energy, force and barrier height between simple metal surfaces. Ultramicroscopy, 1992, 42-44, 163-168.	0.8	17
201	Adsorption site of alkali metal overlayers on Si(001) 2 \AA^{-1} . Ultramicroscopy, 1992, 42-44, 889-894.	0.8	4
202	Theory of Schottky barrier and metallization. Progress in Surface Science, 1991, 36, 289-361.	3.8	26
203	From low to high-temperature superconductivity: A dimensional crossover phenomenon? A finite size effect?. European Physical Journal B, 1991, 83, 313-321.	0.6	20
204	Tip-structure effects on atomic force microscopy images. Journal of Physics Condensed Matter, 1991, 3, 2613-2619.	0.7	19
205	Transition Temperature of Superconductor-Insulator Superlattices. Europhysics Letters, 1991, 14, 261-266.	0.7	28
206	Electronic structure of a Si delta -layer embedded in Ge(001). Semiconductor Science and Technology, 1991, 6, 1002-1005.	1.0	1
207	Electronic structure of Ge-Si superlattices grown on Ge (001). Semiconductor Science and Technology, 1991, 6, 638-641.	1.0	1
208	Theoretical study of transport through a quantum point contact. Physical Review B, 1991, 43, 7145-7169.	1.1	144
209	Fermi-level pinning in an Al-Ge metal-semiconductor junction. Physical Review B, 1991, 43, 7046-7052.	1.1	5
210	The field-induced phase transition of an electron-hole system in weakly coupled double quantum wells. Journal of Physics Condensed Matter, 1990, 2, 8985-8988.	0.7	3
211	Tip-sample interaction effects in scanning-tunneling and atomic-force microscopy. Physical Review B, 1990, 41, 2763-2775.	1.1	176
212	Site-dependent electronic effects, forces, and deformations in scanning tunneling microscopy of flat metal surfaces. Physical Review B, 1990, 42, 7618-7621.	1.1	94
213	Theory of anomalous corrugation of the Al(111) surface obtained from scanning tunneling microscopy. Physical Review B, 1990, 42, 1860-1863.	1.1	26
214	Theoretical study of focused field emission of electrons from a point source. Physical Review B, 1990, 42, 9221-9224.	1.1	14
215	Ballistic transport through a quantum point contact: Elastic scattering by impurities. Physical Review B, 1990, 42, 9098-9103.	1.1	76
216	Tip- Surface Interactions. , 1990, , 113-141.		5

#	ARTICLE	IF	CITATIONS
217	Effects of the constriction geometry on quasi-one-dimensional transport: Adiabatic evolution and resonant tunneling. <i>Physical Review B</i> , 1989, 40, 8559-8562.	1.1	41
218	Novel features of quantum conduction in a constriction. <i>Physical Review B</i> , 1989, 39, 8772-8775.	1.1	105
219	Theory of transition from the tunneling regime to point contact in scanning tunneling microscopy. <i>Physical Review B</i> , 1989, 40, 11969-11972.	1.1	81
220	Atomic theory of scanning tunneling microscopy. <i>Physical Review B</i> , 1989, 40, 10286-10293.	1.1	55
221	Electronic structure of strained Si/Ge(001) superlattices. <i>Solid State Communications</i> , 1988, 65, 1285-1290.	0.9	9
222	Strained Si/Ge superlattices: Structural stability, growth, and electronic properties. <i>Physical Review B</i> , 1988, 38, 1835-1848.	1.1	83
223	Ciraci and Batra reply. <i>Physical Review Letters</i> , 1988, 60, 547-547.	2.9	29
224	Adsorption of potassium on the ideal Si(111) surface. <i>Physical Review B</i> , 1988, 37, 8432-8435.	1.1	41
225	Surface metallization of silicon by potassium adsorption on Si(001)-(2 \times 1). <i>Physical Review B</i> , 1988, 37, 2955-2967.	1.1	94
226	Theoretical scanning tunneling microscopy and atomic force microscopy study of graphite including tip-surface interaction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 313-318.	0.9	129
227	Effect of tip profile on atomic-force microscope images: A model study. <i>Physical Review Letters</i> , 1988, 60, 1314-1317.	2.9	121
228	δ -doping in strained (Si)/(Ge) superlattices. <i>Physical Review B</i> , 1988, 38, 12728-12731.	1.1	3
229	Tip induced localized states in Scanning Tunneling Microscopy. <i>Physica Scripta</i> , 1988, 38, 486-490.	1.2	18
230	Metallization of Silicon upon Potassium Adsorption. <i>Physical Review Letters</i> , 1987, 58, 1982-1985.	2.9	72
231	Self-consistent study of confined states in thin GaAs-AlAs superlattices. <i>Physical Review B</i> , 1987, 36, 1225-1232.	1.1	37
232	Scanning-tunneling microscopy at small tip-to-surface distances. <i>Physical Review B</i> , 1987, 36, 6194-6197.	1.1	50
233	Long-Range Order and Segregation in Semiconductor Superlattices. <i>Physical Review Letters</i> , 1987, 58, 2114-2117.	2.9	53
234	A study of graphite surface with stm and electronic structure calculations. <i>Surface Science</i> , 1987, 181, 126-138.	0.8	167

#	ARTICLE	IF	CITATIONS
235	Theory of the quantum size effect in simple metals. <i>Physical Review B</i> , 1986, 33, 4294-4297.	1.1	83
236	Theory of transition from the dihydride to the monohydride phase on the Si(001) surface. <i>Surface Science</i> , 1986, 178, 80-89.	0.8	48
237	Novel electronic properties of a potassium overlayer on Si(001)-(2 \times 1). <i>Physical Review Letters</i> , 1986, 56, 877-880.	2.9	157
238	Dimensionality and size effects in simple metals. <i>Physical Review B</i> , 1986, 34, 8246-8257.	1.1	116
239	Ideal Al-Ge(001) interface: From chemisorption to metallization of the Al overlayer. <i>Physical Review B</i> , 1984, 29, 6419-6424.	1.1	17
240	Electronic-energy-structure calculations of silicon and silicon dioxide using the extended tight-binding method. <i>Physical Review B</i> , 1977, 15, 4923-4934.	1.1	69
241	Electronic structure of the (111) surface of semiconductors. <i>Physical Review B</i> , 1975, 12, 5811-5823.	1.1	46
242	Bond-orbital model for second-order susceptibilities. <i>IEEE Journal of Quantum Electronics</i> , 1975, 11, 40-45.	1.0	21
243	Bond-orbital model. II. <i>Physical Review B</i> , 1974, 10, 1516-1527.	1.1	267
244	Predictions of Single-Layer Honeycomb Structures from First Principles. , 0, , 472-484.		1