

Salim Ciraci

List of Publications by Citations

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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.

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	Two- and one-dimensional honeycomb structures of silicon and germanium. <i>Physical Review Letters</i> , 2009 , 102, 236804	7.4	2380
241	Monolayer honeycomb structures of group-IV elements and III-V binary compounds: First-principles calculations. <i>Physical Review B</i> , 2009 , 80,	3.3	1401
240	Stable, Single-Layer MX ₂ Transition-Metal Oxides and Dichalcogenides in a Honeycomb-Like Structure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8983-8999	3.8	992
239	Titanium-decorated carbon nanotubes as a potential high-capacity hydrogen storage medium. <i>Physical Review Letters</i> , 2005 , 94, 175501	7.4	786
238	First-principles study of two- and one-dimensional honeycomb structures of boron nitride. <i>Physical Review B</i> , 2009 , 79,	3.3	503
237	Functionalization of Single-Layer MoS ₂ Honeycomb Structures. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13303-13311	3.8	429
236	Electronic and magnetic properties of 3d transition-metal atom adsorbed graphene and graphene nanoribbons. <i>Physical Review B</i> , 2008 , 77,	3.3	420
235	Mechanical and Electronic Properties of MoS ₂ Nanoribbons and Their Defects. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3934-3941	3.8	391
234	High-capacity hydrogen storage by metallized graphene. <i>Applied Physics Letters</i> , 2008 , 93, 043123	3.4	356
233	The response of mechanical and electronic properties of graphene to the elastic strain. <i>Applied Physics Letters</i> , 2010 , 96, 091912	3.4	306
232	Systematic study of adsorption of single atoms on a carbon nanotube. <i>Physical Review B</i> , 2003 , 67,	3.3	284
231	Hydrogen storage of calcium atoms adsorbed on graphene: First-principles plane wave calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	277
230	First-principles study of defects and adatoms in silicon carbide honeycomb structures. <i>Physical Review B</i> , 2010 , 81,	3.3	275
229	Transition-metal-ethylene complexes as high-capacity hydrogen-storage media. <i>Physical Review Letters</i> , 2006 , 97, 226102	7.4	271
228	Functionalization of carbon-based nanostructures with light transition-metal atoms for hydrogen storage. <i>Physical Review B</i> , 2008 , 77,	3.3	255
227	Bond-orbital model. II. <i>Physical Review B</i> , 1974 , 10, 1516-1527	3.3	253
226	First-principles study of zinc oxide honeycomb structures. <i>Physical Review B</i> , 2009 , 80,	3.3	252

225	A Comparative Study of Lattice Dynamics of Three- and Two-Dimensional MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16354-16361	3.8	250
224	Silicon and III-V compound nanotubes: Structural and electronic properties. <i>Physical Review B</i> , 2005 , 72,	3.3	232
223	Adsorption and dissociation of hydrogen molecules on bare and functionalized carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	226
222	Single and bilayer bismuthene: Stability at high temperature and mechanical and electronic properties. <i>Physical Review B</i> , 2016 , 94,	3.3	224
221	Single-layer crystalline phases of antimony: Antimonenes. <i>Physical Review B</i> , 2015 , 91,	3.3	224
220	Structures of fluorinated graphene and their signatures. <i>Physical Review B</i> , 2011 , 83,	3.3	222
219	Molecular and dissociative adsorption of multiple hydrogen molecules on transition metal decorated C ₆₀ . <i>Physical Review B</i> , 2005 , 72,	3.3	204
218	Systematic ab initio study of curvature effects in carbon nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	202
217	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,	3.3	200
216	Tunable adsorption on carbon nanotubes. <i>Physical Review Letters</i> , 2001 , 87, 116802	7.4	169
215	Graphene coatings: An efficient protection from oxidation. <i>Physical Review B</i> , 2012 , 85,	3.3	153
214	Novel electronic properties of a potassium overlayer on Si(001)-(2 × 1). <i>Physical Review Letters</i> , 1986 , 56, 877-880	7.4	152
213	A study of graphite surface with stm and electronic structure calculations. <i>Surface Science</i> , 1987 , 181, 126-138	1.8	148
212	Ab-initio electron transport calculations of carbon based string structures. <i>Physical Review Letters</i> , 2004 , 93, 136404	7.4	145
211	Theoretical study of transport through a quantum point contact. <i>Physical Review B</i> , 1991 , 43, 7145-7169	3.3	142
210	Yielding and fracture mechanisms of nanowires. <i>Physical Review B</i> , 1997 , 56, 12632-12642	3.3	134
209	Current-voltage (I-V) characteristics of armchair graphene nanoribbons under uniaxial strain. <i>Physical Review B</i> , 2010 , 81,	3.3	133
208	Superlattice structures of graphene-based armchair nanoribbons. <i>Physical Review B</i> , 2008 , 78,	3.3	133

207	Tip-sample interaction effects in scanning-tunneling and atomic-force microscopy. <i>Physical Review B</i> , 1990 , 41, 2763-2775	3.3	132
206	Electronic and magnetic properties of graphane nanoribbons. <i>Physical Review B</i> , 2010 , 81,	3.3	122
205	Armchair nanoribbons of silicon and germanium honeycomb structures. <i>Physical Review B</i> , 2010 , 81,	3.3	121
204	Chlorine Adsorption on Graphene: Chlorographene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24075-24083	3.3	118
203	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	2.9	118
202	Dissociation of H ₂ O at the vacancies of single-layer MoS ₂ . <i>Physical Review B</i> , 2012 , 85,	3.3	117
201	Reversible band-gap engineering in carbon nanotubes by radial deformation. <i>Physical Review B</i> , 2002 , 65,	3.3	116
200	Dimensionality and size effects in simple metals. <i>Physical Review B</i> , 1986 , 34, 8246-8257	3.3	113
199	Effect of tip profile on atomic-force microscope images: A model study. <i>Physical Review Letters</i> , 1988 , 60, 1314-1317	7.4	113
198	First-principles approach to monitoring the band gap and magnetic state of a graphene nanoribbon via its vacancies. <i>Physical Review B</i> , 2008 , 78,	3.3	108
197	Energetics and Electronic Structures of Individual Atoms Adsorbed on Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 575-582	3.4	108
196	Oxygenation of carbon nanotubes: Atomic structure, energetics, and electronic structure. <i>Physical Review B</i> , 2003 , 67,	3.3	106
195	Size Dependence in the Stabilities and Electronic Properties of Graphyne and Its Boron Nitride Analogue. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2175-2182	3.8	105
194	Magnetization of graphane by dehydrogenation. <i>Applied Physics Letters</i> , 2009 , 95, 222510	3.4	105
193	Pressure-induced interlinking of carbon nanotubes. <i>Physical Review B</i> , 2000 , 62, 12648-12651	3.3	104
192	Novel features of quantum conduction in a constriction. <i>Physical Review B</i> , 1989 , 39, 8772-8775	3.3	103
191	GaN: From three- to two-dimensional single-layer crystal and its multilayer van der Waals solids. <i>Physical Review B</i> , 2016 , 93,	3.3	100
190	Self-healing of vacancy defects in single-layer graphene and silicene. <i>Physical Review B</i> , 2013 , 88,	3.3	100

189	Prediction of a two-dimensional crystalline structure of nitrogen atoms. <i>Physical Review B</i> , 2015 , 92,	3.3	99
188	Effects of hydrogen adsorption on single-wall carbon nanotubes: Metallic hydrogen decoration. <i>Physical Review B</i> , 2002 , 66,	3.3	99
187	Two-dimensional pnictogens: A review of recent progresses and future research directions. <i>Applied Physics Reviews</i> , 2019 , 6, 021308	17.3	97
186	Frictional figures of merit for single layered nanostructures. <i>Physical Review Letters</i> , 2012 , 108, 126103	7.4	94
185	Exohydrogenated single-wall carbon nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	94
184	Atomic structure of the 3 β phase of silicene on Ag(111). <i>Physical Review B</i> , 2014 , 90,	3.3	91
183	Functionalized carbon nanotubes and device applications. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, R901-R960	1.8	90
182	Surface metallization of silicon by potassium adsorption on Si(001)-(2 x 1). <i>Physical Review B</i> , 1988 , 37, 2955-2967	3.3	90
181	Theoretical study of short- and long-range forces and atom transfer in scanning force microscopy. <i>Physical Review B</i> , 1992 , 46, 10411-10422	3.3	89
180	Interaction of Adatoms and Molecules with Single-Layer Arsenene Phases. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14345-14355	3.8	88
179	Stable single-layer structure of group-V elements. <i>Physical Review B</i> , 2016 , 94,	3.3	88
178	Local Reconstructions of Silicene Induced by Adatoms. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26305-26315	3.8	86
177	Chiral single-wall gold nanotubes. <i>Physical Review Letters</i> , 2004 , 93, 196807	7.4	84
176	Functionalization of BN honeycomb structure by adsorption and substitution of foreign atoms. <i>Physical Review B</i> , 2010 , 82,	3.3	83
175	Stability of single-layer and multilayer arsenene and their mechanical and electronic properties. <i>Physical Review B</i> , 2016 , 94,	3.3	82
174	Long-range interactions in carbon atomic chains. <i>Physical Review B</i> , 2010 , 82,	3.3	82
173	Strained Si/Ge superlattices: Structural stability, growth, and electronic properties. <i>Physical Review B</i> , 1988 , 38, 1835-1848	3.3	82
172	Theory of transition from the tunneling regime to point contact in scanning tunneling microscopy. <i>Physical Review B</i> , 1989 , 40, 11969-11972	3.3	77

171	Theory of the quantum size effect in simple metals. <i>Physical Review B</i> , 1986 , 33, 4294-4297	3-3	77
170	Effects of adatoms and physisorbed molecules on the physical properties of antimonene. <i>Physical Review B</i> , 2016 , 93,	3-3	76
169	Hydrogen absorption properties of metal-ethylene complexes. <i>Physical Review B</i> , 2007 , 76,	3-3	76
168	Hydrogen storage capacity of Ti-doped boron-nitride and BBe-substituted carbon nanotubes. <i>Physical Review B</i> , 2007 , 76,	3-3	75
167	Quantum effects of thermal conductance through atomic chains. <i>Physical Review B</i> , 2001 , 63,	3-3	73
166	Ballistic transport through a quantum point contact: Elastic scattering by impurities. <i>Physical Review B</i> , 1990 , 42, 9098-9103	3-3	73
165	Pentagonal nanowires: A first-principles study of the atomic and electronic structure. <i>Physical Review B</i> , 2002 , 65,	3-3	72
164	Contact, nanoindentation, and sliding friction. <i>Physical Review B</i> , 1998 , 57, 2468-2476	3-3	72
163	Stable single-layer honeycomblike structure of silica. <i>Physical Review Letters</i> , 2014 , 112, 246803	7-4	70
162	Atomic scale study of superlow friction between hydrogenated diamond surfaces. <i>Physical Review B</i> , 2004 , 70,	3-3	70
161	Structural, mechanical, and electronic properties of defect-patterned graphene nanomeshes from first principles. <i>Physical Review B</i> , 2011 , 84,	3-3	69
160	Electronic-energy-structure calculations of silicon and silicon dioxide using the extended tight-binding method. <i>Physical Review B</i> , 1977 , 15, 4923-4934	3-3	69
159	Spin confinement in the superlattices of graphene ribbons. <i>Applied Physics Letters</i> , 2008 , 92, 173118	3-4	68
158	Metallization of silicon upon potassium adsorption. <i>Physical Review Letters</i> , 1987 , 58, 1982-1985	7-4	67
157	Half-metallic silicon nanowires: first-principles calculations. <i>Physical Review Letters</i> , 2007 , 99, 256806	7-4	66
156	Atomic chains of group-IV elements and III-V and II-VI binary compounds studied by a first-principles pseudopotential method. <i>Physical Review B</i> , 2005 , 72,	3-3	66
155	Spintronic properties of zigzag-edged triangular graphene flakes. <i>Journal of Applied Physics</i> , 2010 , 108, 074301	2-5	61
154	Structural, electronic, and magnetic properties of 3d transition metal monatomic chains: First-principles calculations. <i>Physical Review B</i> , 2008 , 77,	3-3	61

153	Site-dependent electronic effects, forces, and deformations in scanning tunneling microscopy of flat metal surfaces. <i>Physical Review B</i> , 1990 , 42, 7618-7621	3.3	61
152	Structure of aluminum atomic chains. <i>Physical Review B</i> , 2001 , 64,	3.3	58
151	Quantum effects in electrical and thermal transport through nanowires. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, R537-R568	1.8	56
150	Effects of silicon and germanium adsorbed on graphene. <i>Applied Physics Letters</i> , 2010 , 96, 123112	3.4	55
149	First-principles study of GaAs nanowires. <i>Physical Review B</i> , 2009 , 79,	3.3	54
148	Optical properties of single-layer and bilayer arsenene phases. <i>Physical Review B</i> , 2016 , 94,	3.3	53
147	Silicite: The layered allotrope of silicon. <i>Physical Review B</i> , 2014 , 90,	3.3	53
146	Adsorption of carbon adatoms to graphene and its nanoribbons. <i>Journal of Applied Physics</i> , 2011 , 109, 013704	2.5	53
145	New Phases of Germanene. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2694-9	6.4	52
144	Electronic structure of the contact between carbon nanotube and metal electrodes. <i>Applied Physics Letters</i> , 2003 , 83, 3180-3182	3.4	52
143	Superlubricity through graphene multilayers between Ni(111) surfaces. <i>Physical Review B</i> , 2013 , 87,	3.3	51
142	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, 011105	17.3	50
141	Long-range order and segregation in semiconductor superlattices. <i>Physical Review Letters</i> , 1987 , 58, 2114-2117	7.4	50
140	Atomic-scale study of dry sliding friction. <i>Physical Review B</i> , 1997 , 55, 2606-2611	3.3	49
139	Variable and reversible quantum structures on a single carbon nanotube. <i>Physical Review B</i> , 2000 , 62, R16345-R16348	3.3	49
138	Scanning-tunneling microscopy at small tip-to-surface distances. <i>Physical Review B</i> , 1987 , 36, 6194-6197	3.3	49
137	High-conducting magnetic nanowires obtained from uniform titanium-covered carbon nanotubes. <i>Physical Review B</i> , 2004 , 69,	3.3	48
136	Atomic theory of scanning tunneling microscopy. <i>Physical Review B</i> , 1989 , 40, 10286-10293	3.3	48

135	Theory of transition from the dihydride to the monohydride phase on the Si(001) surface. <i>Surface Science</i> , 1986 , 178, 80-89	1.8	47
134	Effects of Charging and Electric Field on Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5943-5952	3.8	44
133	Modification of electronic structure, magnetic structure, and topological phase of bismuthene by point defects. <i>Physical Review B</i> , 2017 , 96,	3.3	44
132	Electronic structure of the (111) surface of semiconductors. <i>Physical Review B</i> , 1975 , 12, 5811-5823	3.3	44
131	Perpendicular growth of carbon chains on graphene from first-principles. <i>Physical Review B</i> , 2011 , 83,	3.3	43
130	Adsorption of Group IV Elements on Graphene, Silicene, Germanene, and Stanene: Dumbbell Formation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 845-853	3.8	41
129	Effects of the constriction geometry on quasi-one-dimensional transport: Adiabatic evolution and resonant tunneling. <i>Physical Review B</i> , 1989 , 40, 8559-8562	3.3	41
128	Spin-dependent electronic structure of transition-metal atomic chains adsorbed on single-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	40
127	Thermal conduction through a molecule. <i>Europhysics Letters</i> , 1999 , 47, 208-212	1.6	40
126	Adsorption of potassium on the ideal Si(111) surface. <i>Physical Review B</i> , 1988 , 37, 8432-8435	3.3	40
125	Dissociative Adsorption of Molecules on Graphene and Silicene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27574-27582	3.8	38
124	Nanoscale Dielectric Capacitors Composed of Graphene and Boron Nitride Layers: A First-Principles Study of High Capacitance at Nanoscale. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15327-15334	3.8	38
123	First-principles study of the iron pnictide superconductor BaFe ₂ As ₂ . <i>Physical Review B</i> , 2009 , 79,	3.3	38
122	Epitaxial growth mechanisms of graphene and effects of substrates. <i>Physical Review B</i> , 2012 , 85,	3.3	37
121	Atomic and electronic structures of doped silicon nanowires: A first-principles study. <i>Physical Review B</i> , 2007 , 76,	3.3	34
120	Half-metallic properties of atomic chains of carbon-transition-metal compounds. <i>Physical Review B</i> , 2005 , 72,	3.3	34
119	Self-consistent study of confined states in thin GaAs-AlAs superlattices. <i>Physical Review B</i> , 1987 , 36, 1225-1234	3.3	34
118	Domain formation on oxidized graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	33

117	Theoretical study of crossed and parallel carbon nanotube junctions and three-dimensional grid structures. <i>Physical Review B</i> , 2004 , 70,	3.3	33
116	Effects of charging and perpendicular electric field on the properties of silicene and germanene. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 305007	1.8	32
115	Effects of static charging and exfoliation of layered crystals. <i>Physical Review B</i> , 2012 , 85,	3.3	32
114	Metal nanoring and tube formation on carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	31
113	Hydrogen storage capacity of titanium met-cars. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 9509-9517	3.8	30
112	Controlled lateral and perpendicular motion of atoms on metal surfaces. <i>Physical Review B</i> , 1996 , 54, 2175-2183	3.3	30
111	Conductance through a single atom. <i>Physical Review B</i> , 1997 , 55, R1981-R1984	3.3	29
110	Formation of quantum structures on a single nanotube by modulating hydrogen adsorption. <i>Physical Review B</i> , 2003 , 68,	3.3	29
109	Atomic strings of group IV, III $\sqrt{3}$, and II $\sqrt{3}$ elements. <i>Applied Physics Letters</i> , 2004 , 85, 6179-6181	3.4	29
108	Atomic and electronic structure of carbon strings. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 3823-36.8	3.8	29
107	A comparative study of O ₂ adsorbed carbon nanotubes. <i>Chemical Physics Letters</i> , 2003 , 380, 1-5	2.5	28
106	Hydrogen-Saturated Silicon Nanowires Heavily Doped with Interstitial and Substitutional Transition Metals. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15713-15722	3.8	27
105	Two-dimensional C/BN core/shell structures. <i>Physical Review B</i> , 2011 , 83,	3.3	27
104	Ciraci and Batra reply. <i>Physical Review Letters</i> , 1988 , 60, 547	7.4	27
103	Structure dependent optoelectronic properties of monolayer antimonene, bismuthene and their binary compound. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7907-7917	3.6	26
102	Theory of Schottky barrier and metallization. <i>Progress in Surface Science</i> , 1991 , 36, 289-361	6.6	26
101	Transition Temperature of Superconductor-Insulator Superlattices. <i>Europhysics Letters</i> , 1991 , 14, 261-266	6.6	26
100	Theory of anomalous corrugation of the Al(111) surface obtained from scanning tunneling microscopy. <i>Physical Review B</i> , 1990 , 42, 1860-1863	3.3	24

99	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	3.6	24
98	Self-assembly mechanisms of short atomic chains on single-layer graphene and boron nitride. <i>Physical Review B</i> , 2012 , 86,	3.3	23
97	Functionalization of silicon nanowires with transition metal atoms. <i>Physical Review B</i> , 2008 , 78,	3.3	23
96	Initial stages of Pt growth on Ge(001) studied by scanning tunneling microscopy and density functional theory. <i>Physical Review B</i> , 2004 , 70,	3.3	23
95	Model for phononic energy dissipation in friction. <i>Physical Review B</i> , 1999 , 59, 16042-16046	3.3	23
94	Static charging of graphene and graphite slabs. <i>Applied Physics Letters</i> , 2011 , 98, 131908	3.4	22
93	First-principles investigation of structural and electronic properties of solid cubane and its doped derivatives. <i>Physical Review B</i> , 2000 , 62, 7625-7633	3.3	22
92	Modulation of Electronic Properties in Laterally and Commensurately Repeating Graphene and Boron Nitride Composite Nanostructures. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13248-13256	3.8	21
91	Spintronic properties of carbon-based one-dimensional molecular structures. <i>Physical Review B</i> , 2006 , 74,	3.3	21
90	First principles study of electronic and mechanical properties of molybdenum selenide type nanowires. <i>Physical Review B</i> , 2006 , 74,	3.3	21
89	Bond-orbital model for second-order susceptibilities. <i>IEEE Journal of Quantum Electronics</i> , 1975 , 11, 40-45		21
88	Magnetic ground state in FeTe ₂ , VS ₂ , and NiTe ₂ monolayers: Antiparallel magnetic moments at chalcogen atoms. <i>Physical Review B</i> , 2020 , 101,	3.3	18
87	MetallInsulator Transition and Heterostructure Formation by Glycines Self-Assembled on Defect-Patterned Graphene. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14598-14605	3.8	18
86	High-performance planar nanoscale dielectric capacitors. <i>Physical Review B</i> , 2015 , 91,	3.3	18
85	An atomistic study on the stretching of nanowires. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 10843-10854	3.8	18
84	Finite temperature studies of Te adsorption on Si(001). <i>Surface Science</i> , 2002 , 519, 79-89	1.8	18
83	Quantum heat transfer through an atomic wire. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 3349-3358	3.8	18
82	A First-Principles Study of the Structure and Dynamics of C ₈ H ₈ , Si ₈ H ₈ , and Ge ₈ H ₈ Molecules. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 2724-2728	2.8	18

81	Tip induced localized states in Scanning Tunneling Microscopy. <i>Physica Scripta</i> , 1988 , 38, 486-490	2.6	18
80	Nanospintronic properties of carbon-cobalt atomic chains. <i>Europhysics Letters</i> , 2006 , 73, 642-648	1.6	17
79	Confined states in multiple quantum well structures of SinGen nanowire superlattices. <i>Physical Review B</i> , 2007 , 76,	3.3	17
78	Carbon string structures: First-principles calculations of quantum conductance. <i>Physical Review B</i> , 2005 , 71,	3.3	17
77	From low to high-temperature superconductivity: A dimensional crossover phenomenon? A finite size effect?. <i>European Physical Journal B</i> , 1991 , 83, 313-321	1.2	17
76	Ideal Al-Ge(001) interface: From chemisorption to metallization of the Al overlayer. <i>Physical Review B</i> , 1984 , 29, 6419-6424	3.3	17
75	Planar heterostructures of single-layer transition metal dichalcogenides: Composite structures, Schottky junctions, tunneling barriers, and half metals. <i>Physical Review B</i> , 2017 , 95,	3.3	16
74	Lateral and Vertical Heterostructures of Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1547-1555	3.8	16
73	Absence of metallicity in Cs-GaAs(110): A Hubbard-model study. <i>Physical Review B</i> , 1993 , 47, 16391-16394	3.3	16
72	Tip-structure effects on atomic force microscopy images. <i>Journal of Physics Condensed Matter</i> , 1991 , 3, 2613-2619	1.8	16
71	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,	3.3	15
70	Adhesive energy, force and barrier height between simple metal surfaces. <i>Ultramicroscopy</i> , 1992 , 42-44, 163-168	3.1	15
69	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	3.8	15
68	Theoretical study of focused field emission of electrons from a point source. <i>Physical Review B</i> , 1990 , 42, 9221-9224	3.3	14
67	Glycine self-assembled on graphene enhances the solar absorbance performance. <i>Carbon</i> , 2019 , 143, 329-334	10.4	14
66	Single layers and multilayers of GaN and AlN in square-octagon structure: Stability, electronic properties, and functionalization. <i>Physical Review B</i> , 2017 , 96,	3.3	13
65	Enhanced reduction of graphene oxide by means of charging and electric fields applied to hydroxyl groups. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 435304	1.8	13
64	Atomic-scale study of friction and energy dissipation. <i>Wear</i> , 2003 , 254, 911-916	3.5	13

63	Coverage and strain dependent magnetization of titanium-coated carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	13
62	Quantum point contact on graphite surface. <i>Physical Review B</i> , 1998 , 58, 7872-7881	3.3	13
61	Vibrations of the cubane molecule: inelastic neutron scattering study and theory. <i>Chemical Physics Letters</i> , 1999 , 309, 234-240	2.5	13
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