

# Marvin L Cohen

## 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.

160  
papers

20,542  
citations

65  
h-index

143  
g-index

175  
ext. papers

22,031  
ext. citations

8.3  
avg, IF

6.7  
L-index

#	Paper	IF	Citations
160	Ultranarrow TaS Nanoribbons. <i>Nano Letters</i> , <b>2021</b> , 21, 3211-3217	11.5	2
159	Anomalous behavior in high-pressure carbonaceous sulfur hydride. <i>Physica C: Superconductivity and Its Applications</i> , <b>2021</b> , 583, 1353851	1.3	17
158	Stabilization of NbTe, VTe, and TiTe via Nanotube Encapsulation. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 4563-4568	16.4	7
157	Emergence of Topologically Nontrivial Spin-Polarized States in a Segmented Linear Chain. <i>Physical Review Letters</i> , <b>2020</b> , 124, 206403	7.4	9
156	Comparison of GW band structure to semiempirical approach for an FeSe monolayer. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
155	Frustration and Atomic Ordering in a Monolayer Semiconductor Alloy. <i>Physical Review Letters</i> , <b>2020</b> , 124, 096101	7.4	10
154	Heavy boron doping in superconducting carbon materials. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	2
153	Observed metallization of hydrogen interpreted as a band structure effect. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 33, 03LT01	1.8	1
152	Magnetic multilayer edges in Bernal-stacked hexagonal boron nitride. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
151	High-Performance Atomically-Thin Room-Temperature NO Sensor. <i>Nano Letters</i> , <b>2020</b> , 20, 6120-6127	11.5	12
150	Electron beam-induced nanopores in Bernal-stacked hexagonal boron nitride. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 023102	3.4	2
149	Simulating the Nanomechanical Response of Cyclooctatetraene Molecules on a Graphene Device. <i>ACS Nano</i> , <b>2019</b> , 13, 1713-1718	16.7	4
148	Alternative stacking sequences in hexagonal boron nitride. <i>2D Materials</i> , <b>2019</b> , 6, 021006	5.9	43
147	Insulating titanium oxynitride for visible light photocatalysis. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	8
146	Geometry and electronic structure of iridium adsorbed on graphene. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	8
145	Metal-insulator transition in quasi-one-dimensional HfTe <sub>3</sub> in the few-chain limit. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	13
144	Role of atomic coordination on superconducting properties of boron-doped amorphous carbon. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	2

143	Simulating the effect of boron doping in superconducting carbon. <i>Physical Review B</i> , <b>2018</b> , 97,	3-3	13
142	A class of topological nodal rings and its realization in carbon networks. <i>Physical Review B</i> , <b>2018</b> , 97,	3-3	32
141	Torsional instability in the single-chain limit of a transition metal trichalcogenide. <i>Science</i> , <b>2018</b> , 361, 263-266	33-3	30
140	Magnetism in amorphous carbon. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3-2	7
139	Spontaneous twisting of a collapsed carbon nanotube. <i>Nano Research</i> , <b>2017</b> , 10, 1942-1949	10	10
138	Alternative structure of TiO <sub>2</sub> with higher energy valence band edge. <i>Physical Review B</i> , <b>2017</b> , 95,	3-3	7
137	Real-space study of the optical absorption in alternative phases of silicon. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3-2	2
136	Inhibiting Klein Tunneling in a Graphene p-n Junction without an External Magnetic Field. <i>Physical Review Letters</i> , <b>2016</b> , 117, 016804	7-4	12
135	Electrostatically Driven Nanoballoon Actuator. <i>Nano Letters</i> , <b>2016</b> , 16, 6787-6791	11-5	13
134	Molecular Self-Assembly in a Poorly Screened Environment: F4TCNQ on Graphene/BN. <i>ACS Nano</i> , <b>2015</b> , 9, 12168-73	16-7	42
133	Nanostructured Carbon Allotropes with Weyl-like Loops and Points. <i>Nano Letters</i> , <b>2015</b> , 15, 6974-8	11-5	248
132	Explaining and predicting the properties of materials using quantum theory. <i>MRS Bulletin</i> , <b>2015</b> , 40, 516-525	3-5	4
131	Electronic properties of B-C-N ternary kagome lattices. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	6
130	Superconductivity in modified semiconductors and the path to higher transition temperatures. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 043001	3-1	5
129	First-principles theory of electron-spin fluctuation coupling and superconducting instabilities in iron selenide. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	12
128	Electron-phonon coupling and superconductivity in Li-intercalated layered borocarbide compounds. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	14
127	Lattice matching and electronic structure of finite-layer graphene/h-BN thin films. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	18
126	Carbon kagome lattice and orbital-frustration-induced metal-insulator transition for optoelectronics. <i>Physical Review Letters</i> , <b>2014</b> , 113, 085501	7-4	38

125	Band offsets in c-Si/Si-XII heterojunctions. <i>Solid State Communications</i> , <b>2014</b> , 191, 6-9	1.6	
124	Controlled formation of metastable germanium polymorphs. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	36
123	Improved quasiparticle wave functions and mean field for G0W0 calculations: Initialization with the COHSEX operator. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	14
122	Effect of spin fluctuations on quasiparticle excitations: First-principles theory and application to sodium and lithium. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	6
121	Hexagonal germanium formed via a pressure-induced phase transformation of amorphous germanium under controlled nanoindentation. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2013</b> , 7, 355-359	2.5	14
120	Multiparticle Exciton Ionization in Shallow Doped Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 982-6	6.4	1
119	Coulomb-hole summations and energies for GW calculations with limited number of empty orbitals: A modified static remainder approach. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	119
118	Intermolecular interactions and substrate effects for an adamantane monolayer on a Au(111) surface. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	4
117	BerkeleyGW: A massively parallel computer package for the calculation of the quasiparticle and optical properties of materials and nanostructures. <i>Computer Physics Communications</i> , <b>2012</b> , 183, 1269-1289	4.2	53 <sup>o</sup>
116	Inelastic carrier lifetime in bilayer graphene. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 032106	3.4	4
115	Wave function engineering: Other phases of Si for photovoltaic applications. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 102402	2.5	15
114	Enhanced electron-phonon coupling near the lattice instability of superconducting NbC <sub>1-x</sub> N <sub>x</sub> from density-functional calculations. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	15
113	Multiply folded graphene. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	247
112	Fermi surfaces and quantum oscillations in the underdoped high-T <sub>c</sub> superconductors YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.5</sub> and YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	6
111	Electron-phonon induced pairing and its limits for superconducting systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2011</b> , 43, 657-660	3	4
110	Conceptual progress for explaining and predicting semiconductor properties. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 2815-2825	2.5	5
109	Ab initio calculations of pressure-induced structural phase transitions of GeTe. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	24
108	PREDICTING AND EXPLAINING T <sub>c</sub> AND OTHER PROPERTIES OF BCS SUPERCONDUCTORS. <i>Modern Physics Letters B</i> , <b>2010</b> , 24, 2755-2768	1.6	6

107	Selective functionalization of halogens on zigzag graphene nanoribbons: A route to the separation of zigzag graphene nanoribbons. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 233101	3.4	21
106	GW method with the self-consistent Sternheimer equation. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	98
105	Electron-phonon coupling in C60 using hybrid functionals. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	39
104	The physics of boron nitride nanotubes. <i>Physics Today</i> , <b>2010</b> , 63, 34-38	0.9	105
103	PREDICTING AND EXPLAINING T <sub>c</sub> AND OTHER PROPERTIES OF BCS SUPERCONDUCTORS <b>2010</b> , 375-389		
102	Theory of domain formation in inhomogeneous ferromagnetic dipolar condensates within the truncated Wigner approximation. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	30
101	Prediction of superconducting properties of CaB <sub>2</sub> using anisotropic Eliashberg theory. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	15
100	Role of fluorine in the iron pnictides: phonon softening and effective hole doping. <i>Physical Review Letters</i> , <b>2009</b> , 102, 147003	7.4	15
99	Amplification of fluctuations in a spinor Bose-Einstein condensate. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	97
98	Fifty years of pseudopotentials. <i>International Journal of Quantum Chemistry</i> , <b>2009</b> , 24, 583-595	2.1	
97	Calcium-decorated carbon nanotubes for high-capacity hydrogen storage: First-principles calculations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	135
96	Origin of superconductivity in boron-doped silicon carbide from first principles. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	26
95	Graphene at the edge: stability and dynamics. <i>Science</i> , <b>2009</b> , 323, 1705-8	33.3	1042
94	Anisotropic Eliashberg theory for superconductivity in compressed and doped MgB <sub>2</sub> . <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	13
93	Small phonon contribution to the photoemission kink in the copper oxide superconductors. <i>Nature</i> , <b>2008</b> , 452, 975-8	50.4	135
92	Anisotropic behaviours of massless Dirac fermions in graphene under periodic potentials. <i>Nature Physics</i> , <b>2008</b> , 4, 213-217	16.2	531
91	Ab initio survey of the electronic structure of tetrahedrally bonded phases of silicon. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	96
90	Ab initio study of the optical properties of Si-XII. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	51

89	Constraints on $T_c$ for superconductivity in heavily boron-doped diamond. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	79
88	GW quasiparticle corrections to the LDA+U/GGA+U electronic structure of bcc hydrogen. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	29
87	First-principles study of superconductivity and Fermi-surface nesting in ultrahard transition metal carbides. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	24
86	Van Hove singularity and apparent anisotropy in the electron-phonon interaction in graphene. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	46
85	Low-energy structures of K atoms in expanded K3C60 monolayers: Ab initio pseudopotential density-functional calculations. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	3
84	Using molecular fragments to estimate electron-phonon coupling and possible superconductivity in covalent materials. <i>Physical Review B</i> , <b>2008</b> , 78,	3-3	11
83	First-principles study of metal adatom adsorption on graphene. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	1104
82	Electron-Phonon-Induced Superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2007</b> , 19, 283-290	1.5	8
81	Electron-phonon interaction using Wannier functions. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	425
80	First-principles scattering-state approach for nonlinear electrical transport in nanostructures. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	50
79	Electronic Structure and Energetics of MgB2 Nanotube. <i>Journal of the Physical Society of Japan</i> , <b>2007</b> , 76, 043707	1.5	7
78	Electron-phonon interaction via electronic and lattice Wannier functions: superconductivity in boron-doped diamond reexamined. <i>Physical Review Letters</i> , <b>2007</b> , 98, 047005	7-4	122
77	Ab Initio calculations of phonon splitting in antiferromagnetic ZnCr2O4. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	14
76	Two bounds on the maximum phonon-mediated superconducting transition temperature. <i>Physical Review B</i> , <b>2006</b> , 74,	3-3	42
75	Anisotropic Eliashberg theory and the two-band model for the superconducting properties of MgB2. <i>Physical Review B</i> , <b>2006</b> , 73,	3-3	27
74	Hypothetical hard structures of carbon with cubic symmetry. <i>Physical Review B</i> , <b>2006</b> , 74,	3-3	55
73	Theory of sodium ordering in $NaxCoO_2$ . <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	98
72	Nanoscience: The quantum frontier. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2005</b> , 29, 447-453	3	4

71	Mechanism for bias-assisted indium mass transport on carbon nanotube surfaces. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	22
70	Structural and electronic properties of carbon in hybrid diamond-graphite structures. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	75
69	Observation of the giant stark effect in boron-nitride nanotubes. <i>Physical Review Letters</i> , <b>2005</b> , 94, 056804,	7.4	143
68	Temperature dependence of the band gap of semiconducting carbon nanotubes. <i>Physical Review Letters</i> , <b>2005</b> , 94, 036801	7.4	105
67	Reply to Comment on First-principles calculation of the superconducting transition in MgB <sub>2</sub> within the anisotropic Eliashberg formalism. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	17
66	Identifying defects in nanoscale materials. <i>Physical Review Letters</i> , <b>2004</b> , 93, 196803	7.4	71
65	Hydrostatic pressure effects on the structural and electronic properties of carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 3352-3359	1.3	82
64	Energetics and structural stability of Cs <sub>3</sub> C <sub>60</sub> . <i>Solid State Communications</i> , <b>2004</b> , 130, 335-339	1.6	12
63	Dynamic sliding friction between concentric carbon nanotubes. <i>Physical Review Letters</i> , <b>2004</b> , 93, 065503,	7.4	111
62	Structural and electronic properties of n-doped and p-doped SrTiO <sub>3</sub> . <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	118
61	Doping effects on the electronic and structural properties of CoO <sub>2</sub> : An LSDA+U study. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	73
60	A personal view of the physics of high pressure studies of solids. <i>Physica Status Solidi (B): Basic Research</i> , <b>2003</b> , 235, 221-224	1.3	3
59	The origin of the anomalous superconducting properties of MgB(2). <i>Nature</i> , <b>2002</b> , 418, 758-60	5.4	772
58	Ideal strength of bcc molybdenum and niobium. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	172
57	First-principles calculation of the superconducting transition in MgB <sub>2</sub> within the anisotropic Eliashberg formalism. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	295
56	Connecting atomistic and experimental estimates of ideal strength. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	119
55	Nanotubes, Nanoscience, and Nanotechnology. <i>Materials Science and Engineering C</i> , <b>2001</b> , 15, 1-11	8.3	69
54	Structural forms of cubic BC <sub>2</sub> N. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	146

53	Computational design of direct-bandgap semiconductors that lattice-match silicon. <i>Nature</i> , <b>2001</b> , 409, 69-71	50.4	99
52	Theory of metastable group-IV alloys formed from CVD precursors. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	11
51	Mechanical instability and ideal shear strength of transition metal carbides and nitrides. <i>Physical Review Letters</i> , <b>2001</b> , 87, 075503	7.4	111
50	Vacancy hardening and softening in transition metal carbides and nitrides. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3348-51	7.4	251
49	High accuracy many-body calculational approaches for excitations in molecules. <i>Physical Review Letters</i> , <b>2001</b> , 86, 472-5	7.4	160
48	Electronic properties of oxidized carbon nanotubes. <i>Physical Review Letters</i> , <b>2000</b> , 85, 1710-3	7.4	368
47	Observation of pressure-induced direct-to-indirect band gap transition in InP nanocrystals. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 2016-2020	3.9	19
46	The Theory of Real Materials. <i>Annual Review of Materials Research</i> , <b>2000</b> , 30, 1-26		44
45	Electronic mechanism of hardness enhancement in transition-metal carbonitrides. <i>Nature</i> , <b>1999</b> , 399, 132-134	50.4	556
44	Search for Superconductivity in Lithium. <i>Journal of Low Temperature Physics</i> , <b>1999</b> , 114, 445-454	1.3	16
43	Ideal Shear Strengths of fcc Aluminum and Copper. <i>Physical Review Letters</i> , <b>1999</b> , 82, 2713-2716	7.4	392
42	Broken symmetry and pseudogaps in ropes of carbon nanotubes. <i>Nature</i> , <b>1998</b> , 391, 466-468	50.4	312
41	Electron-Phonon Interactions in Solid C36. <i>Physical Review Letters</i> , <b>1998</b> , 81, 697-700	7.4	123
40	Tight-Binding Formalism for Ionic Fullerides and its Application to Alkali-C60 Polymers. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 491, 395		
39	In Situ Band Gap Engineering of Carbon Nanotubes. <i>Physical Review Letters</i> , <b>1997</b> , 79, 2093-2096	7.4	250
38	Ab initio study of silicon in the R8 phase. <i>Physical Review B</i> , <b>1997</b> , 56, 6662-6668	3.3	91
37	Pure carbon nanoscale devices: Nanotube heterojunctions. <i>Physical Review Letters</i> , <b>1996</b> , 76, 971-974	7.4	767
36	Phonon Softening and Superconductivity in Tellurium under Pressure. <i>Physical Review Letters</i> , <b>1996</b> , 77, 1151-1154	7.4	59



35	Fully collapsed carbon nanotubes. <i>Nature</i> , <b>1995</b> , 377, 135-138	50.4	419
34	Static conductivity and superconductivity of carbon nanotubes: Relations between tubes and sheets. <i>Physical Review B</i> , <b>1995</b> , 52, 14935-14940	3.3	106
33	Rubidium isotope effect in superconducting Rb3C60. <i>Physical Review Letters</i> , <b>1994</b> , 72, 3706-3709	7.4	41
32	Theory of graphitic boron nitride nanotubes. <i>Physical Review B</i> , <b>1994</b> , 49, 5081-5084	3.3	1383
31	Superconducting Properties of K3C60 and Rb3C60 Single Crystals in High Fields. <i>Molecular Crystals and Liquid Crystals</i> , <b>1994</b> , 245, 333-337		1
30	Superconductivity in C60 based solids. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1994</b> , 70, 627-636		2
29	Three-dimensional fluctuation conductivity in superconducting single crystal K3C60 and Rb3C60. <i>Nature</i> , <b>1993</b> , 361, 54-56	50.4	67
28	EXPERIMENTAL CONSTRAINTS ON BOSON-EXCHANGE MECHANISMS FOR HIGH Tc SUPERCONDUCTORS. <i>International Journal of Modern Physics B</i> , <b>1991</b> , 05, 1495-1505	1.1	4
27	Theoretical Study of a New Transition Sequence in III-V Compounds: High-Pressure Phases of InSb. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 193, 89		
26	Theoretical Study of High Pressure Metallic Hydrogen. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 193, 15		
25	Theory of Structural and Electronic Properties of Silicon Nitride and Carbon Nitride. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 193, 95		4
24	Iodine intercalation of a high-temperature superconducting oxide. <i>Nature</i> , <b>1990</b> , 348, 145-147	50.4	160
23	Experimental and theoretical equation of state of cubic boron nitride. <i>Nature</i> , <b>1989</b> , 337, 349-352	50.4	278
22	First-principles prediction of high-temperature superconductivity in metallic hydrogen. <i>Nature</i> , <b>1989</b> , 340, 369-371	50.4	66
21	Some Theories of High Temperature Superconductivity. <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 169, 13		1
20	Electronic Structure and Optical Properties of Semiconductors. <i>Springer Series in Solid-state Sciences</i> , <b>1989</b> ,	0.4	192
19	Magnon-Exchange Pairing and Superconductivity. <i>Science</i> , <b>1989</b> , 243, 547-547	33.3	3
18	Theory of bulk moduli of hard solids. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1988</b> , 105-106, 11-18	5.3	25

17	Complete absence of isotope effect in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> : Consequences for phonon-mediated superconductivity. <i>Physical Review B</i> , <b>1987</b> , 36, 3990-3993	3.3	87
16	Prediction of new materials and properties of solids. <i>International Journal of Quantum Chemistry</i> , <b>1986</b> , 29, 843-854	2.1	8
15	Pseudopotential Calculations of Structural Properties of Solids. <i>Materials Research Society Symposia Proceedings</i> , <b>1985</b> , 63, 107		
14	Calculation of bulk moduli of diamond and zinc-blende solids. <i>Physical Review B</i> , <b>1985</b> , 32, 7988-7991	3.3	922
13	Superconductivity in high-pressure metallic phases of Si. <i>Physical Review Letters</i> , <b>1985</b> , 54, 2375-2378	7.4	186
12	The Fermi atomic pseudopotential. <i>American Journal of Physics</i> , <b>1984</b> , 52, 695-703	0.7	9
11	Electronic structure of the E <sub>h</sub> bonded chain model and the nonbuckled antiferromagnetic insulator model for the Si(111) surface. <i>Journal of Vacuum Science and Technology</i> , <b>1982</b> , 21, 333-336		84
10	Pseudopotentials and Total Energy Calculations. <i>Physica Scripta</i> , <b>1982</b> , T1, 5-10	2.6	332
9	Microscopic Theory of the Phase Transformation and Lattice Dynamics of Si. <i>Physical Review Letters</i> , <b>1980</b> , 45, 1004-1007	7.4	465
8	Theory of semiconductor surface states and metal-semiconductor interfaces. <i>Journal of Vacuum Science and Technology</i> , <b>1976</b> , 13, 790-797		71
7	Self-Consistent Pseudopotential Calculation for a Metal-Semiconductor Interface. <i>Physical Review Letters</i> , <b>1975</b> , 35, 866-869	7.4	107
6	Self-consistent pseudopotential method for localized configurations: Molecules. <i>Physical Review B</i> , <b>1975</b> , 12, 5575-5579	3.3	145
5	Wave-Vector-Dependent Dielectric Function for Si, Ge, GaAs, and ZnSe. <i>Physical Review B</i> , <b>1970</b> , 2, 1821-1826	3.9	212
4	The Fitting of Pseudopotentials to Experimental Data and Their Subsequent Application. <i>Solid State Physics</i> , <b>1970</b> , 37-248	2	394
3	Band Structures and Pseudopotential Form Factors for Fourteen Semiconductors of the Diamond and Zinc-blende Structures. <i>Physical Review</i> , <b>1966</b> , 141, 789-796		1477
2	Superconductivity in Semiconducting SrTiO <sub>3</sub> . <i>Physical Review Letters</i> , <b>1964</b> , 12, 474-475	7.4	669
1	Superconductivity in Many-Valley Semiconductors and in Semimetals. <i>Physical Review</i> , <b>1964</b> , 134, A511-A521		219