Marvin L Cohen

List of Publications by Year
in descending order

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171 papers	23,506 citations	13827 67 h-index	7333 152 g-index
175 all docs	175 docs citations	175 times ranked	17471 citing authors

#	Article	IF	Citations
1	Prediction of high-temperature superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>C</mml:mi><mml:mn>2</mml:mn><mml:mtext>/</mml:mtext><mml solid hydrogen. Physical Review B, 2022, 105, .	1.1	4
2	High temperature superconductivity in the candidate phases of solid hydrogen. Journal of Physics Condensed Matter, 2022, 34, 15LT01.	0.7	3
3	Targeting One- and Two-Dimensional Taâ€“Te Structures via Nanotube Encapsulation. Nano Letters, 2022, 22, 2285-2292.	4.5	14
4	Role of carbon in modifying the properties of superconducting hydrogen sulfide. Physical Review Materials, 2022, 6, .	0.9	0
5	Stabilization of NbTe₃, VTe₃, and TiTe₃ via Nanotube Encapsulation. Journal of the American Chemical Society, 2021, 143, 4563-4568.	6.6	27
6	Ultranarrow TaS₂ Nanoribbons. Nano Letters, 2021, 21, 3211-3217.	4.5	16
7	Anomalous behavior in high-pressure carbonaceous sulfur hydride. Physica C: Superconductivity and Its Applications, 2021, 583, 1353851.	0.6	42
8	Observed metallization of hydrogen interpreted as a band structure effect. Journal of Physics Condensed Matter, 2021, 33, 03LT01.	0.7	7
9	Experimental and Theoretical Study of Possible Collective Electronic States in Exfoliable Re-Doped NbS₂. ACS Nano, 2021, 15, 18297-18304.	7.3	7
10	Magnetic multilayer edges in Bernal-stacked hexagonal boron nitride. Physical Review B, 2020, 102, .	1.1	4
11	High-Performance Atomically-Thin Room-Temperature NO₂ Sensor. Nano Letters, 2020, 20, 6120-6127.	4.5	34
12	Electron beam-induced nanopores in Bernal-stacked hexagonal boron nitride. Applied Physics Letters, 2020, 117, .	1.5	7
13	Emergence of Topologically Nontrivial Spin-Polarized States in a Segmented Linear Chain. Physical Review Letters, 2020, 124, 206403.	2.9	18
14	Comparison of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi><mml:mrow></mml:n band structure to semiempirical approach for an FeSe monolayer. Physical Review B, 2020, 101, .	1.1	6
15	Frustration and Atomic Ordering in a Monolayer Semiconductor Alloy. Physical Review Letters, 2020, 124, 096101.	2.9	19
16	Heavy boron doping in superconducting carbon materials. Physical Review Materials, 2020, 4, .	0.9	3
17	Metal-insulator transition in quasi-one-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>HfTe</mml:mi><mml:mn>3</mml:mn><mml:mn>1</mml:mn></mml:msub></ in the few-chain limit. Physical Review B, 2019, 100, .	1.1	25
18	Simulating the Nanomechanical Response of Cyclooctatetraene Molecules on a Graphene Device. ACS Nano, 2019, 13, 1713-1718.	7.3	6

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19	Alternative stacking sequences in hexagonal boron nitride. 2D Materials, 2019, 6, 021006.	2.0	78
20	Insulating titanium oxynitride for visible light photocatalysis. Physical Review B, 2019, 99, .	1.1	12
21	Geometry and electronic structure of iridium adsorbed on graphene. Physical Review B, 2019, 99, .	1.1	14
22	Role of atomic coordination on superconducting properties of boron-doped amorphous carbon. Physical Review Materials, 2019, 3, .	0.9	3
23	Simulating the effect of boron doping in superconducting carbon. Physical Review B, 2018, 97, .	1.1	17
24	A class of topological nodal rings and its realization in carbon networks. Physical Review B, 2018, 97, .	1.1	49
25	Torsional instability in the single-chain limit of a transition metal trichalcogenide. Science, 2018, 361, 263-266.	6.0	60
26	Magnetism in amorphous carbon. Physical Review Materials, 2018, 2, .	0.9	10
27	Spontaneous twisting of a collapsed carbon nanotube. Nano Research, 2017, 10, 1942-1949.	5.8	12
28	Alternative structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml with higher energy valence band edge. Physical Review B, 2017, 95, .	1.1	9
29	Real-space study of the optical absorption in alternative phases of silicon. Physical Review Materials, 2017, 1, .	0.9	2
30	Electrostatically Driven Nanoballoon Actuator. Nano Letters, 2016, 16, 6787-6791.	4.5	16
31	Inhibiting Klein Tunneling in a Graphene<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mtext>âˆ’</mml:mtext><mml:mi>n</mml:mi></mml:mrow></mml:math>Junc without an External Magnetic Field. Physical Review Letters, 2016, 117, 016804.	2.9	14
32	Explaining and predicting the properties of materials using quantum theory. MRS Bulletin, 2015, 40, 516-525.	1.7	5
33	Electronic properties of B-C-N ternary kagome lattices. Physical Review B, 2015, 91, .	1.1	6
34	Superconductivity in modified semiconductors and the path to higher transition temperatures. Superconductor Science and Technology, 2015, 28, 043001.	1.8	9
35	First-principles theory of electron-spin fluctuation coupling and superconducting instabilities in iron selenide. Physical Review B, 2015, 91, .	1.1	13
36	Molecular Self-Assembly in a Poorly Screened Environment: F₄TCNQ on Graphene/BN. ACS Nano, 2015, 9, 12168-12173.	7.3	45

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37	Nanostructured Carbon Allotropes with Weyl-like Loops and Points. Nano Letters, 2015, 15, 6974-6978.	4.5	302
38	Controlled formation of metastable germanium polymorphs. Physical Review B, 2014, 89, .	1.1	43
39	Improved quasiparticle wave functions and mean field for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>G</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:mrow></mml:math> Initialization with the COHSEX operator. Physical Review B, 2014, 90, .	1.1	14
40	Effect of spin fluctuations on quasiparticle excitations: First-principles theory and application to sodium and lithium. Physical Review B, 2014, 89, .	1.1	11
41	Electron-phonon coupling and superconductivity in Li-intercalated layered borocarbide compounds. Physical Review B, 2014, 89, .	1.1	19
42	Lattice matching and electronic structure of finite-layer graphene/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>h</mml:mi></mml:math>-BN thin films. Physical Review B, 2014, 89, .	1.1	21
43	Carbon Kagome Lattice and Orbital-Frustration-Induced Metal-Insulator Transition for Optoelectronics. Physical Review Letters, 2014, 113, 085501.	2.9	49
44	Band offsets in c-Si/Si-XII heterojunctions. Solid State Communications, 2014, 191, 6-9.	0.9	0
45	Hexagonal germanium formed via a pressureâ€induced phase transformation of amorphous germanium under controlled nanoindentation. Physica Status Solidi - Rapid Research Letters, 2013, 7, 355-359.	1.2	17
46	Multiparticle Exciton Ionization in Shallow Doped Carbon Nanotubes. Journal of Physical Chemistry Letters, 2013, 4, 982-986.	2.1	2
47	Coulomb-hole summations and energies for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:math>calculations with limited number of empty orbitals: A modified static remainder approach. Physical Review B, 2013, 87, .	1.1	149
48	Intermolecular interactions and substrate effects for an adamantane monolayer on a Au(111) surface. Physical Review B, 2013, 88, .	1.1	6
49	Inelastic carrier lifetime in bilayer graphene. Applied Physics Letters, 2012, 100, .	1.5	7
50	BerkeleyGW: A massively parallel computer package for the calculation of the quasiparticle and optical properties of materials and nanostructures. Computer Physics Communications, 2012, 183, 1269-1289.	3.0	706
51	Fermi surfaces and quantum oscillations in the underdoped high-Tcsuperconductors YBa2Cu3O6.5and YBa2Cu4O8. Physical Review B, 2011, 84, .	1.1	7
52	Wave function engineering: Other phases of Si for photovoltaic applications. Journal of Applied Physics, 2011, 109, 102402.	1.1	17
53	Enhanced electron-phonon coupling near the lattice instability of superconducting NbC<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>âˆ’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>from density-functional calculations. Physical Review B, 2011, 84, .	1.1	23
54	Multiply folded graphene. Physical Review B, 2011, 83, .	1.1	269

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55	Electronâ€“phonon induced pairing and its limits for superconducting systems. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 657-660.	1.3	5
56	Conceptual progress for explaining and predicting semiconductor properties. Journal of Materials Research, 2011, 26, 2815-2825.	1.2	5
57	The physics of boron nitride nanotubes. Physics Today, 2010, 63, 34-38.	0.3	119
58	PREDICTING AND EXPLAINING Tc AND OTHER PROPERTIES OF BCS SUPERCONDUCTORS. , 2010, , 375-389.		0
59	Ab initiocalculations of pressure-induced structural phase transitions of GeTe. Physical Review B, 2010, 82, .	1.1	27
60	PREDICTING AND EXPLAINING T_c AND OTHER PROPERTIES OF BCS SUPERCONDUCTORS. Modern Physics Letters B, 2010, 24, 2755-2768.	1.0	8
61	Selective functionalization of halogens on zigzag graphene nanoribbons: A route to the separation of zigzag graphene nanoribbons. Applied Physics Letters, 2010, 97, 233101.	1.5	23
62	GW method with the self-consistent Sternheimer equation. Physical Review B, 2010, 81, .	1.1	122
63	Electron-phonon coupling in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>C</mml:mtext><mml:mrow><mml:mn>60</mml:mn></mml:mrow></mml:msu hybrid functionals. Physical Review B, 2010, 81, .	1.1	43
64	Theory of domain formation in inhomogeneous ferromagnetic dipolar condensates within the truncated Wigner approximation. Physical Review A, 2009, 80, .	1.0	30
65	Prediction of superconducting properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaB</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml: anisotropic Eliashberg theory. Physical Review B, 2009, 80, .	1.1	35
66	Role of Fluorine in the Iron Pnictides: Phonon Softening and Effective Hole Doping. Physical Review Letters, 2009, 102, 147003.	2.9	15
67	Amplification of fluctuations in a spinor Bose-Einstein condensate. Physical Review A, 2009, 79, .	1.0	113
68	Fifty years of pseudopotentials. International Journal of Quantum Chemistry, 2009, 24, 583-595.	1.0	0
69	Calcium-decorated carbon nanotubes for high-capacity hydrogen storage: First-principles calculations. Physical Review B, 2009, 80, .	1.1	148
70	Origin of superconductivity in boron-doped silicon carbide from first principles. Physical Review B, 2009, 79, .	1.1	27
71	Graphene at the Edge: Stability and Dynamics. Science, 2009, 323, 1705-1708.	6.0	1,153
72	Anisotropic Eliashberg theory for superconductivity in compressed and doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>MgB</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml: Physical Review B, 2009, 79, .	1.1	17

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73	First-principles study of metal adatom adsorption on graphene. Physical Review B, 2008, 77, .	1.1	1,245
74	Small phonon contribution to the photoemission kink in the copper oxide superconductors. Nature, 2008, 452, 975-978.	13.7	157
75	Anisotropic behaviours of massless DiracÂfermions in graphene under periodicÂpotentials. Nature Physics, 2008, 4, 213-217.	6.5	609
76	Ab initiosurvey of the electronic structure of tetrahedrally bonded phases of silicon. Physical Review B, 2008, 78, .	1.1	112
77	Ab initiostudy of the optical properties of Si-XII. Physical Review B, 2008, 78, .	1.1	58
78	Constraints on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math>for superconductivity in heavily boron-doped diamond. Physical Review B, 2008, 77, .	1.1	87
79	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:math>quasiparticle corrections to the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>LDA</mml:mi><mml:mo>+</mml:mo><mml:mi>U</mml:mi><mml:mo>âˆ•</mml:mo><mml:m structure of bcc hydrogen. Physical Review B, 2008, 77, .	1.1	34
80	First-principles study of superconductivity and Fermi-surface nesting in ultrahard transition metal carbides. Physical Review B, 2008, 77, .	1.1	32
81	Van Hove singularity and apparent anisotropy in the electron-phonon interaction in graphene. Physical Review B, 2008, 77, .	1.1	50
82	Low-energy structures of K atoms in expandedK3C60monolayers:Ab initiopseudopotential density-functional calculations. Physical Review B, 2008, 77, .	1.1	3
83	Using molecular fragments to estimate electron-phonon coupling and possible superconductivity in covalent materials. Physical Review B, 2008, 78, .	1.1	13
84	Electron-phonon interaction using Wannier functions. Physical Review B, 2007, 76, .	1.1	625
85	First-principles scattering-state approach for nonlinear electrical transport in nanostructures. Physical Review B, 2007, 76, .	1.1	53
86	Electronic Structure and Energetics of MgB2 Nanotube. Journal of the Physical Society of Japan, 2007, 76, 043707.	0.7	7
87	Electron-Phonon Interaction via Electronic and Lattice Wannier Functions: Superconductivity in Boron-Doped Diamond Reexamined. Physical Review Letters, 2007, 98, 047005.	2.9	136
88	Ab Initiocalculations of phonon splitting in antiferromagneticZnCr2O4. Physical Review B, 2007, 75, .	1.1	15
89	Electronâ€"Phonon-Induced Superconductivity. Journal of Superconductivity and Novel Magnetism, 2007, 19, 283-290.	0.8	12
90	Hypothetical hard structures of carbon with cubic symmetry. Physical Review B, 2006, 74, .	1.1	66

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91	Two bounds on the maximum phonon-mediated superconducting transition temperature. Physical Review B, 2006, 74, .	1.1	51
92	Anisotropic Eliashberg theory and the two-band model for the superconducting properties ofMgB2. Physical Review B, 2006, 73, .	1.1	27
93	Nanoscience: The quantum frontier. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 447-453.	1.3	4
94	Temperature and Hydrostatic Pressure Effects on the Band Gap of Semiconducting Carbon Nanotubes. AIP Conference Proceedings, 2005, , .	0.3	0
95	Family Behavior of the Pressure and Temperature Dependences of the Band Gap of Semiconducting Carbon Nanotubes. AIP Conference Proceedings, 2005, , .	0.3	0
96	Mechanism for bias-assisted indium mass transport on carbon nanotube surfaces. Physical Review B, 2005, 72, .	1.1	22
97	Structural and electronic properties of carbon in hybrid diamond-graphite structures. Physical Review B, 2005, 72, .	1.1	77
98	Observation of the Giant Stark Effect in Boron-Nitride Nanotubes. Physical Review Letters, 2005, 94, 056804.	2.9	163
99	Temperature Dependence of the Band Gap of Semiconducting Carbon Nanotubes. Physical Review Letters, 2005, 94, 036801.	2.9	119
100	Theory of sodium ordering inNaxCoO2. Physical Review B, 2005, 71, .	1.1	102
101	Reply to â€œComment on â€˜First-principles calculation of the superconducting transition inMgB2within the anisotropic Eliashberg formalismâ€™ â€• Physical Review B, 2004, 69, .	1.1	19
102	Identifying Defects in Nanoscale Materials. Physical Review Letters, 2004, 93, 196803.	2.9	78
103	Hydrostatic pressure effects on the structural and electronic properties of carbon nanotubes. Physica Status Solidi (B): Basic Research, 2004, 241, 3352-3359.	0.7	88
104	Energetics and structural stability of Cs3C60. Solid State Communications, 2004, 130, 335-339.	0.9	12
105	Dynamic Sliding Friction between Concentric Carbon Nanotubes. Physical Review Letters, 2004, 93, 065503.	2.9	125
106	Structural and electronic properties ofn-doped andp-dopedSrTiO3. Physical Review B, 2004, 70, .	1.1	127
107	Doping effects on the electronic and structural properties ofCoO2: AnLSDA+Ustudy. Physical Review B, 2004, 70, .	1.1	77
108	A personal view of the physics of high pressure studies of solids. Physica Status Solidi (B): Basic Research, 2003, 235, 221-224.	0.7	3

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109	First-principles calculation of the superconducting transition inMgB2within the anisotropic Eliashberg formalism. Physical Review B, 2002, 66, .	1.1	323
110	Connecting atomistic and experimental estimates of ideal strength. Physical Review B, 2002, 65, .	1.1	127
111	The origin of the anomalous superconducting properties of MgB2. Nature, 2002, 418, 758-760.	13.7	867
112	Ideal strength of bcc molybdenum and niobium. Physical Review B, 2002, 66, .	1.1	195
113	Mechanical Instability and Ideal Shear Strength of Transition Metal Carbides and Nitrides. Physical Review Letters, 2001, 87, 075503.	2.9	122
114	Vacancy Hardening and Softening in Transition Metal Carbides and Nitrides. Physical Review Letters, 2001, 86, 3348-3351.	2.9	284
115	High Accuracy Many-Body Calculational Approaches for Excitations in Molecules. Physical Review Letters, 2001, 86, 472-475.	2.9	169
116	Nanotubes, Nanoscience, and Nanotechnology. Materials Science and Engineering C, 2001, 15, 1-11.	3.8	78
117	Structural forms of cubicBC2N. Physical Review B, 2001, 64, .	1.1	159
118	Computational design of direct-bandgap semiconductors that lattice-match silicon. Nature, 2001, 409, 69-71.	13.7	110
119	Theory of metastable group-IV alloys formed from CVD precursors. Physical Review B, 2001, 64, .	1.1	12
120	Electronic Properties of Oxidized Carbon Nanotubes. Physical Review Letters, 2000, 85, 1710-1713.	2.9	385
121	Observation of pressure-induced direct-to-indirect band gap transition in InP nanocrystals. Journal of Chemical Physics, 2000, 113, 2016-2020.	1.2	26
122	The Theory of Real Materials. Annual Review of Materials Research, 2000, 30, 1-26.	5.5	51
123	Electronic mechanism of hardness enhancement in transition-metal carbonitrides. Nature, 1999, 399, 132-134.	13.7	662
124	Search for Superconductivity in Lithium. Journal of Low Temperature Physics, 1999, 114, 445-454.	0.6	19
125	Ideal Shear Strengths of fcc Aluminum and Copper. Physical Review Letters, 1999, 82, 2713-2716.	2.9	442
126	Possibility of high temperature superconductivity in C[sub 36] and C[sub 24]N[sub 12] solids. , 1999, , .		1

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127	Broken symmetry and pseudogaps in ropes of carbon nanotubes. Nature, 1998, 391, 466-468.	13.7	348
128	Electron-Phonon Interactions in SolidC36. Physical Review Letters, 1998, 81, 697-700.	2.9	136
129	Tight-Binding Formalism for Ionic Fullerides and its Application to Alkali-C60 Polymers. Materials Research Society Symposia Proceedings, 1997, 491, 395.	0.1	0
130	In SituBand Gap Engineering of Carbon Nanotubes. Physical Review Letters, 1997, 79, 2093-2096.	2.9	273
131	Ab initiostudy of silicon in theR8phase. Physical Review B, 1997, 56, 6662-6668.	1.1	103
132	Pure Carbon Nanoscale Devices: Nanotube Heterojunctions. Physical Review Letters, 1996, 76, 971-974.	2.9	860
133	Phonon Softening and Superconductivity in Tellurium under Pressure. Physical Review Letters, 1996, 77, 1151-1154.	2.9	67
134	Fully collapsed carbon nanotubes. Nature, 1995, 377, 135-138.	13.7	466
135	Static conductivity and superconductivity of carbon nanotubes: Relations between tubes and sheets. Physical Review B, 1995, 52, 14935-14940.	1.1	116
136	Rubidium isotope effect in superconductingRb3C60. Physical Review Letters, 1994, 72, 3706-3709.	2.9	46
137	Theory of graphitic boron nitride nanotubes. Physical Review B, 1994, 49, 5081-5084.	1.1	1,564
138	Superconducting Properties of K3C60 and Rb3C60 Single Crystals in High Fields. Molecular Crystals and Liquid Crystals, 1994, 245, 333-337.	0.3	2
139	Superconductivity in C60 based solids. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 627-636.	0.6	3
140	Three-dimensional fluctuation conductivity in superconducting single crystal K3C60 and Rb3C60. Nature, 1993, 361, 54-56.	13.7	73
141	EXPERIMENTAL CONSTRAINTS ON BOSON-EXCHANGE MECHANISMS FOR HIGH Tc SUPERCONDUCTORS. International Journal of Modern Physics B, 1991, 05, 1495-1505.	1.0	4
142	Theoretical Study of a new Transition Sequence in III-V Compounds: High-Pressure Phases of InSb. Materials Research Society Symposia Proceedings, 1990, 193, 89.	0.1	0
143	Theoretical Study of High Pressure Metallic Hydrogen. Materials Research Society Symposia Proceedings, 1990, 193, 15.	0.1	0
144	Theory of Structural and Electronic Properties of Silicon Nitride and Carbon Nitride. Materials Research Society Symposia Proceedings, 1990, 193, 95.	0.1	5

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146	Experimental and theoretical equation of state of cubic boron nitride. Nature, 1989, 337, 349-352.	13.7	307
147	Novel materials from theory. Nature, 1989, 338, 291-292.	13.7	72
148	First-principles prediction of high-temperature superconductivity in metallic hydrogen. Nature, 1989, 340, 369-371.	13.7	80
149	Some Theories of High Temperature Superconductivity. Materials Research Society Symposia Proceedings, 1989, 169, 13.	0.1	1
150	Electronic Structure and Optical Properties of Semiconductors. Springer Series in Solid-state Sciences, 1989, , .	0.3	305
151	Magnon-Exchange Pairing and Superconductivity. Science, 1989, 243, 547-547.	6.0	3
152	Theory of bulk moduli of hard solids. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1988, 105-106, 11-18.	2.6	32
153	Complete absence of isotope effect in YBa2Cu3O7: Consequences for phonon-mediated superconductivity. Physical Review B, 1987, 36, 3990-3993.	1.1	89
154	Prediction of new materials and properties of solids. International Journal of Quantum Chemistry, 1986, 29, 843-854.	1.0	8
155	Pseudopotential Calculations of Structural Properties of Solids. Materials Research Society Symposia Proceedings, 1985, 63, 107.	0.1	0
156	Calculation of bulk moduli of diamond and zinc-blende solids. Physical Review B, 1985, 32, 7988-7991.	1.1	1,048
157	Superconductivity in High-Pressure Metallic Phases of Si. Physical Review Letters, 1985, 54, 2375-2378.	2.9	205
158	The Fermi atomic pseudopotential. American Journal of Physics, 1984, 52, 695-703.	0.3	11
159	Electronic structure of the Ïâ€bonded chain model and the nonbuckled antiferromagnetic insulator model for the Si(111) surface. Journal of Vacuum Science and Technology, 1982, 21, 333-336.	1.9	84
160	Pseudopotentials and Total Energy Calculations. Physica Scripta, 1982, T1, 5-10.	1.2	349
161	Microscopic Theory of the Phase Transformation and Lattice Dynamics of Si. Physical Review Letters, 1980, 45, 1004-1007.	2.9	496
162	Theory of semiconductor surface states and metalâ€“semiconductor interfaces. Journal of Vacuum Science and Technology, 1976, 13, 790-797.	1.9	74

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163	Self-Consistent Pseudopotential Calculation for a Metal-Semiconductor Interface. Physical Review Letters, 1975, 35, 866-869.	2.9	116
164	Self-consistent pseudopotential method for localized configurations: Molecules. Physical Review B, 1975, 12, 5575-5579.	1.1	160
165	Disorder and the Electronic Density of States of Amorphous Binary Compounds. , 1974, , .		1
166	Characterization of Amorphous Systems Using Local Configurations. , 1974, , .		0
167	Wave-Vector-Dependent Dielectric Function for Si, Ge, GaAs, and ZnSe. Physical Review B, 1970, 2, 1821-1826.	1.1	219
168	The Fitting of Pseudopotentials to Experimental Data and Their Subsequent Application. Solid State Physics, 1970, , 37-248.	1.3	425
169	Band Structures and Pseudopotential Form Factors for Fourteen Semiconductors of the Diamond and Zinc-blende Structures. Physical Review, 1966, 141, 789-796.	2.7	1,575
170	Superconductivity in Semiconducting SrTiO3. Physical Review Letters, 1964, 12, 474-475.	2.9	760
171	Superconductivity in Many-Valley Semiconductors and in Semimetals. Physical Review, 1964, 134, A511-A521.	2.7	233