

Stefano de Gironcoli

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.

149
papers

33,206
citations

49
h-index

155
g-index

155
ext. papers

39,013
ext. citations

4.9
avg, IF

6.77
L-index

#	Paper	IF	Citations
149	ActivationRelaxation Technique: An efficient way to find minima and saddle points of potential energy surfaces. <i>Computational Materials Science</i> , 2022 , 209, 111363	3.2	0
148	Data-driven simulation and characterisation of gold nanoparticle melting. <i>Nature Communications</i> , 2021 , 12, 6056	17.4	4
147	A systematic approach to generating accurate neural network potentials: the case of carbon. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	3
146	Compact atomic descriptors enable accurate predictions via linear models. <i>Journal of Chemical Physics</i> , 2021 , 154, 224112	3.9	5
145	Hubbard-corrected density functional perturbation theory with ultrasoft pseudopotentials. <i>Physical Review B</i> , 2020 , 101,	3.3	14
144	The CECAM electronic structure library and the modular software development paradigm. <i>Journal of Chemical Physics</i> , 2020 , 153, 024117	3.9	5
143	Collective dipole effects in ionic transport under electric fields. <i>Nature Communications</i> , 2020 , 11, 3330	17.4	3
142	Finding Reaction Pathways and Transition States: r-ARTn and d-ARTn as an Efficient and Versatile Alternative to String Approaches. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 6726-6734	6.4	9
141	Quantum ESPRESSO toward the exascale. <i>Journal of Chemical Physics</i> , 2020 , 152, 154105	3.9	227
140	v-PO micro-clustering in P-doped silica studied by a first-principles Raman investigation. <i>Scientific Reports</i> , 2019 , 9, 7126	4.9	2
139	Beyond the random phase approximation with a local exchange vertex. <i>Physical Review B</i> , 2018 , 98,	3.3	23
138	Lithium Adsorption on Graphene at Finite Temperature. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20806-20808	3.3	2
137	Photoactivated processes in optical fibers: generation and conversion mechanisms of twofold coordinated Si and Ge atoms. <i>Nanotechnology</i> , 2017 , 28, 195202	3.4	10
136	Advanced capabilities for materials modelling with Quantum ESPRESSO. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 465901	1.8	2275
135	A parallel orbital-updating based plane-wave basis method for electronic structure calculations. <i>Journal of Computational Physics</i> , 2017 , 348, 482-492	4.1	4
134	EGlycine: insight into the mechanism of a polymorphic phase transition. <i>IUCrJ</i> , 2017 , 4, 569-574	4.7	17
133	Molecular bonding with the RPAX: From weak dispersion forces to strong correlation. <i>Physical Review B</i> , 2016 , 93,	3.3	16

132	Phonons in nonlocal van der Waals density functional theory. <i>Physical Review B</i> , 2016 , 93,	3.3	11
131	Reproducibility in density functional theory calculations of solids. <i>Science</i> , 2016 , 351, aad3000	33.3	784
130	Isobaric first-principles molecular dynamics of liquid water with nonlocal van der Waals interactions. <i>Journal of Chemical Physics</i> , 2015 , 142, 034501	3.9	57
129	Nano-Scale Corrugations in Graphene: A Density Functional Theory Study of Structure, Electronic Properties and Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7900-7910	3.8	28
128	Nature of the Volume Isotope Effect in Ice. <i>Physical Review Letters</i> , 2015 , 115, 173005	7.4	17
127	Substrate doping: A strategy for enhancing reactivity on gold nanocatalysts by tuning sp bands. <i>Journal of Chemical Physics</i> , 2015 , 143, 144307	3.9	9
126	Hubbard-corrected DFT energy functionals: The LDA+U description of correlated systems. <i>International Journal of Quantum Chemistry</i> , 2014 , 114, 14-49	2.1	359
125	Ab initio self-consistent total-energy calculations within the EXX/RPA formalism. <i>Physical Review B</i> , 2014 , 90,	3.3	32
124	Structural and elastic properties of strained Mg _{1-x} Sr _x Se revealed. <i>Solid State Communications</i> , 2014 , 178, 46-49	1.6	1
123	Correlation energy within exact-exchange adiabatic connection fluctuation-dissipation theory: Systematic development and simple approximations. <i>Physical Review B</i> , 2014 , 90,	3.3	35
122	Ag-Cu catalysts for ethylene epoxidation: selectivity and activity descriptors. <i>Journal of Chemical Physics</i> , 2013 , 138, 184707	3.9	20
121	Structural models of activated γ -alumina surfaces revisited: Thermodynamics, NMR and IR spectroscopies from ab initio calculations. <i>Chemical Physics</i> , 2013 , 423, 62-72	2.3	23
120	Nonlocal van der Waals density functional made simple and efficient. <i>Physical Review B</i> , 2013 , 87,	3.3	373
119	Structural evolution of amino acid crystals under stress from a non-empirical density functional. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 424209	1.8	48
118	Complete ¹³ C NMR chemical shifts assignment for cholesterol crystals by combined CP-MAS spectral editing and ab initio GIPAW calculations with dispersion forces. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3765-9	2.8	27
117	Ab initio ²⁷ Al NMR chemical shifts and quadrupolar parameters for Al ₂ O ₃ phases and their precursors. <i>Physical Review B</i> , 2011 , 84,	3.3	42
116	Vibrational properties of MnO and NiO from DFT +U-based density functional perturbation theory. <i>Physical Review B</i> , 2011 , 84,	3.3	62
115	Stability of Intermediate States for Ethylene Epoxidation on Ag ₂ Cu Alloy Catalyst: A First-Principles Investigation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10073-10079	3.8	14

114	Tuning the morphology of gold clusters by substrate doping. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2801-3	16.4	51
113	Enhanced Chemical Reactivity of Under-Coordinated Atoms at PtRh Bimetallic Surfaces: A Spectroscopic Characterization. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3378-3384	3.8	23
112	Order-disorder phase boundary between ice VII and VIII obtained by first principles. <i>Chemical Physics Letters</i> , 2010 , 499, 236-240	2.5	30
111	Effective coordination as a predictor of adsorption energies: A model study of NO on Rh(100) and Rh/MgO(100) surfaces. <i>Physical Review B</i> , 2009 , 79,	3.3	9
110	Effective coordination number: A simple indicator of activation energies for NO dissociation on Rh(100) surfaces. <i>Physical Review B</i> , 2009 , 80,	3.3	5
109	Anomalous thermodynamic properties in ferropentacycline throughout its spin crossover. <i>Physical Review B</i> , 2009 , 80,	3.3	52
108	Publisher's Note: Anomalous thermodynamic properties in ferropentacycline throughout its spin crossover [Phys. Rev. B 80, 014409 (2009)]. <i>Physical Review B</i> , 2009 , 80,	3.3	2
107	QUANTUM ESPRESSO: a modular and open-source software project for quantum simulations of materials. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 395502	1.8	13251
106	Surface Core Level Shift: High Sensitive Probe to Oxygen-Induced Reconstruction of Rh(100). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13192-13198	3.8	12
105	Efficient calculation of exact exchange and RPA correlation energies in the adiabatic-connection fluctuation-dissipation theory. <i>Physical Review B</i> , 2009 , 79,	3.3	109
104	Van der Waals coefficients of atoms and molecules from a simple approximation for the polarizability. <i>Physical Review B</i> , 2009 , 79,	3.3	12
103	What determines the catalyst's selectivity in the ethylene epoxidation reaction. <i>Journal of Catalysis</i> , 2008 , 254, 304-309	7.3	57
102	Adsorption of chlorine on Ag(111): No subsurface Cl at low coverage. <i>Physical Review B</i> , 2008 , 78,	3.3	33
101	Toward an accurate and efficient theory of physisorption. I. Development of an augmented density-functional theory model. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 9993-1005	2.8	23
100	Activated Adsorption of Ethylene on Atomic-Oxygen-Covered Ag(100) and Ag(210): Formation of an Oxametallacycle. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1019-1027	3.8	17
99	CO/Pt(111): GGA density functional study of site preference for adsorption. <i>Physical Review B</i> , 2008 , 77,	3.3	34
98	Core level shifts of undercoordinated Pt atoms. <i>Journal of Chemical Physics</i> , 2008 , 128, 114706	3.9	37
97	Interplay between bonding and magnetism in the binding of NO to Rh clusters. <i>Journal of Chemical Physics</i> , 2008 , 128, 194708	3.9	23

96	The Ni3Al(111) surface structure: experiment and theory. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 195223	1.8	14
95	High-precision calculation of Hartree-Fock energy of crystals. <i>Journal of Computational Chemistry</i> , 2008 , 29, 2098-106	3.5	24
94	Experimental and Theoretical Surface Core Level Shift Study of the S-Rh(100) Local Environment. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4003-4013	3.8	6
93	Hydrogen and coordination bonding supramolecular structures of trimesic acid on Cu(110). <i>Journal of Physical Chemistry A</i> , 2007 , 111, 12589-603	2.8	107
92	Successful a priori modeling of CO adsorption on Pt(111) using periodic hybrid density functional theory. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10402-7	16.4	67
91	Direct Methane-to-Methanol Conversion: Insight from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17015-17019	3.8	5
90	SixC1 \times O2 alloys: A possible route to stabilize carbon-based silica-like solids?. <i>Solid State Communications</i> , 2007 , 144, 273-276	1.6	14
89	Subsurface Oxygen Stabilization by a Third Species: Carbonates on Ag(210). <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10923-10930	3.8	15
88	The (1 X 1) \rightarrow hexagonal structural transition on Pt(100) studied by high-energy resolution core level photoemission. <i>Journal of Chemical Physics</i> , 2007 , 127, 164702	3.9	12
87	Highly under-coordinated atoms at Rh surfaces: interplay of strain and coordination effects on core level shift. <i>New Journal of Physics</i> , 2007 , 9, 143-143	2.9	42
86	Analysis of methane-to-methanol conversion on clean and defective Rh surfaces. <i>Journal of Chemical Physics</i> , 2006 , 125, 44701	3.9	27
85	Methane dehydrogenation on Rh@Cu(111): a first-principles study of a model catalyst. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12448-54	16.4	48
84	Geometric and electronic structure of the NRh(100) system by core-level photoelectron spectroscopy: Experiment and theory. <i>Physical Review B</i> , 2006 , 74,	3.3	27
83	Interaction of hydrogen with cerium oxide surfaces: a quantum mechanical computational study. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19380-5	3.4	77
82	DFT study of a weakly pi-bonded C2H4 on oxygen-covered Ag(100). <i>Journal of Physical Chemistry B</i> , 2006 , 110, 367-76	3.4	18
81	Spin transition in magnesiow \ddot{u} stite in earth's lower mantle. <i>Physical Review Letters</i> , 2006 , 96, 198501	7.4	208
80	Pressure induced high spin to low spin transition in magnesiow \ddot{u} stite. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 2111-2116	1.3	17
79	Structure and dynamics of the missing-row reconstruction on O/Cu(001) and O/Ag(001). <i>Surface Science</i> , 2006 , 600, 5074-5079	1.8	15

78	Taming multiple valency with density functionals: A case study of defective ceria. <i>Physical Review B</i> , 2005 , 71,	3-3	347
77	First-principles codes for computational crystallography in the Quantum-ESPRESSO package. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005 , 220,	1	122
76	Linear response approach to the calculation of the effective interaction parameters in the LDA+U method. <i>Physical Review B</i> , 2005 , 71,	3-3	2134
75	Electronic and atomistic structures of clean and reduced ceria surfaces. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22860-7	3-4	314
74	Reply to 'Comment on 'Taming multiple valency with density functionals: A case study of defective ceria'' <i>Physical Review B</i> , 2005 , 72,	3-3	161
73	On-surface and sub-surface oxygen adsorption on Ag(210): Vibrational properties. <i>Surface Science</i> , 2005 , 587, 50-54	1.8	10
72	Templated growth of metal-organic coordination chains at surfaces. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6142-5	16.4	118
71	Anomalous pressure-induced transition(s) in ice XI. <i>Physical Review Letters</i> , 2004 , 92, 105502	7-4	35
70	Structure and dynamics of oxygen adsorbed on Ag(100) vicinal surfaces. <i>Physical Review B</i> , 2004 , 69,	3-3	29
69	Adsorption of ethylene on stepped Ag() surfaces. <i>Surface Science</i> , 2004 , 566-568, 1018-1023	1.8	15
68	On-surface and subsurface adsorption of oxygen on stepped Ag(210) and Ag(410) surfaces. <i>Surface Science</i> , 2004 , 566-568, 1107-1111	1.8	15
67	Thermoelastic properties of MgSiO(3)-perovskite: insights on the nature of the Earth's lower mantle. <i>Physical Review Letters</i> , 2004 , 92, 018501	7-4	179
66	Engineering the reactivity of metal catalysts: a model study of methane dehydrogenation on Rh(111). <i>Journal of the American Chemical Society</i> , 2004 , 126, 16732-3	16.4	63
65	Multilayer thermal expansion of Be(0001) determined from surface core level shifts. <i>Europhysics Letters</i> , 2003 , 64, 364-370	1.6	7
64	Exchange-correlation errors at harmonic and anharmonic orders: the case of bulk Cu. <i>Bulletin of Materials Science</i> , 2003 , 26, 75-78	1.7	0
63	Co-adsorption of ethylene and oxygen on the Ag(001) surface. <i>Surface Science</i> , 2003 , 532-535, 191-197	1.8	14
62	Structural, electronic, and magnetic properties of Fe ₂ SiO ₄ fayalite: Comparison of LDA and GGA results. <i>Physical Review B</i> , 2003 , 67,	3-3	65
61	NO adsorption on Rh(100). I. Structural characterization of the adlayers. <i>Journal of Chemical Physics</i> , 2003 , 119, 12525-12533	3-9	14

60	Electron-phonon interaction at the Be(0001) surface. <i>Physical Review Letters</i> , 2003 , 91, 166803	7.4	44
59	Disproportionation phenomena on free and strained Sn/Ge(111) and Sn/Si(111) surfaces. <i>Physical Review Letters</i> , 2002 , 89, 126803	7.4	35
58	Adsorption of ethylene on the Ag() surface. <i>Surface Science</i> , 2002 , 507-510, 62-68	1.8	20
57	First-principles study of the thermal expansion of Be(1010). <i>Physical Review B</i> , 2002 , 65,	3.3	47
56	Ab initio calculation of the thermal properties of Cu: Performance of the LDA and GGA. <i>Physical Review B</i> , 2002 , 65,	3.3	91
55	The Interaction of Ethylene with Perfect and Defective Ag(001) Surfaces. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 9839-9846	3.4	43
54	Adsorption of atomic oxygen on Ag(): a study based on density-functional theory. <i>Surface Science</i> , 2002 , 501, 182-190	1.8	42
53	Structure and Energetics of Vacancies in Body Centered Cubic Hafnium under Pressure: First-Principles Study. <i>Defect and Diffusion Forum</i> , 2001 , 194-199, 295-302	0.7	
52	Surface oscillatory thermal expansion: Mg(1010). <i>Physical Review B</i> , 2001 , 63,	3.3	10
51	Phonons and related crystal properties from density-functional perturbation theory. <i>Reviews of Modern Physics</i> , 2001 , 73, 515-562	40.5	5812
50	Role of defects in the electronic properties of amorphous/crystalline Si interface. <i>Physical Review B</i> , 2001 , 64,	3.3	10
49	First principles thermoelasticity of MgSiO ₃ -perovskite: Consequences for the inferred properties of the lower mantle. <i>Geophysical Research Letters</i> , 2001 , 28, 2699-2702	4.9	49
48	Coordination defects in amorphous silicon and hydrogenated amorphous silicon: a characterization from first-principles calculations. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000 , 80, 515-521		3
47	Ab initio lattice dynamics of MgSiO ₃ perovskite at high pressure. <i>Physical Review B</i> , 2000 , 62, 14750-14756		116
46	Ab initio study of phonons in wurtzite Al _x Ga _{1-x} N alloys. <i>Applied Physics Letters</i> , 2000 , 76, 2101-2103	3.4	18
45	Anisotropic thermal expansion in silicates: A density functional study of Eucryptite and related materials. <i>Physical Review B</i> , 2000 , 62, 11487-11493	3.3	43
44	Surface structure and core-level shifts in lead chalcogenide (001) surfaces. <i>Physical Review B</i> , 2000 , 63,	3.3	23
43	High-pressure lattice dynamics and thermoelasticity of MgO. <i>Physical Review B</i> , 2000 , 61, 8793-8800	3.3	229

42	The mechanism for the 3B distortion of Sn/Ge(111). <i>Surface Science</i> , 2000 , 454-456, 172-177	1.8	41
41	Ab initio study of Be surface dynamical properties. <i>Surface Science</i> , 2000 , 454-456, 442-446	1.8	17
40	Ab initio phonon dispersions of Fe and Ni. <i>Physical Review B</i> , 2000 , 62, 273-277	3.3	77
39	Floating bonds and gap states in a-Si and a-Si:H from first principles calculations. <i>Europhysics Letters</i> , 1999 , 47, 481-486	1.6	19
38	Thermodynamic properties and lattice dynamics of silver at high pressure: A first-principles study. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999 , 79, 911-919		15
37	Dipole-Quadrupole Interactions and the Nature of Phase III of Compressed Hydrogen. <i>Physical Review Letters</i> , 1999 , 83, 4097-4100	7.4	38
36	Effects of disorder on the optical gap of (Zn,Mg)(S,Se). <i>Applied Physics Letters</i> , 1999 , 75, 2746-2748	3.4	13
35	First-principles study of vacancy formation and migration energies in tantalum. <i>Physical Review B</i> , 1999 , 60, 7001-7005	3.3	31
34	High-pressure thermal expansion, bulk modulus, and phonon structure of diamond. <i>Physical Review B</i> , 1999 , 60, 9444-9449	3.3	70
33	First-principles determination of elastic anisotropy and wave velocities of MgO at lower mantle conditions. <i>Science</i> , 1999 , 286, 1705-7	33.3	218
32	Temperature-dependent surface relaxations of Ag(111). <i>Physical Review B</i> , 1999 , 59, 970-974	3.3	53
31	The reconstruction of nickel and rhodium (001) surfaces upon carbon, nitrogen or oxygen adsorptions. <i>Surface Science</i> , 1999 , 437, 18-28	1.8	36
30	First-principles calculation of the thermal properties of silver. <i>Physical Review B</i> , 1999 , 59, 965-969	3.3	109
29	Ab-initio dynamical properties of the Be(0001) surface. <i>Surface Science</i> , 1998 , 402-404, 715-718	1.8	26
28	The reconstruction of Rh(001) upon oxygen adsorption. <i>Surface Science</i> , 1998 , 410, 151-157	1.8	38
27	$\beta \rightarrow \alpha$ phase transition in tin: A theoretical study based on density-functional perturbation theory. <i>Physical Review B</i> , 1998 , 57, 10421-10423	3.3	86
26	Vacancy self-diffusion parameters in tungsten: Finite electron-temperature LDA calculations. <i>Physical Review B</i> , 1998 , 57, 11184-11192	3.3	69
25	Structural and Electronic Properties of a Wide-Gap Quaternary Solid Solution: (Zn, Mg) (S, Se). <i>Physical Review Letters</i> , 1998 , 80, 4939-4942	7.4	40

24	Ab Initio Study of Be (0001) Surface Thermal Expansion. <i>Physical Review Letters</i> , 1998 , 81, 2096-2099	7.4	44
23	Phonon Softening and Elastic Instabilities in the Cubic-to-Orthorhombic Structural Transition of CsH. <i>Physical Review Letters</i> , 1997 , 78, 4958-4961	7.4	10
22	Vacancy Properties In 5d Bcc Transition Metals: Ab Initio Study At Finite Electron Temperature. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 481, 189		1
21	Theory of the Anomalous Rayleigh Dispersion at H/W(110) Surfaces. <i>Physical Review Letters</i> , 1996 , 77, 2491-2494	7.4	50
20	Ab initio phonon calculations in solids. <i>Physica B: Condensed Matter</i> , 1996 , 219-220, 439-441	2.8	43
19	Phonon Softening and Superconductivity in Tellurium under Pressure. <i>Physical Review Letters</i> , 1996 , 77, 1151-1154	7.4	59
18	Lattice dynamics of metals from density-functional perturbation theory. <i>Physical Review B</i> , 1995 , 51, 6773-6776	3.3	232
17	In-plane Raman scattering of (001)-Si/Ge superlattices: Theory and experiment. <i>Physical Review B</i> , 1994 , 49, 5406-5414	3.3	70
16	Structure and phase stability of $GaxIn_{1-x}P$ solid solutions from computational alchemy. <i>Physical Review Letters</i> , 1994 , 72, 4001-4004	7.4	56
15	Optical phonon probes of the lateral scale of interface roughness: A theoretical investigation. <i>Solid-State Electronics</i> , 1994 , 37, 621-624	1.7	8
14	Vibrational properties of Si/Ge superlattices: Theory and in-plane Raman scattering experiments. <i>Solid-State Electronics</i> , 1994 , 37, 757-760	1.7	7
13	Ab Initio Calculation of Phonon Spectra in Semiconductors: from Pure Crystals to Alloys and Superlattices 1993 , 243-277		1
12	Ab initio calculation of phonon dispersions in II-VI semiconductors. <i>Physical Review B</i> , 1993 , 47, 3588-3592	3.3	196
11	Interface mode in Si/Ge superlattices: Theory and experiments. <i>Physical Review B</i> , 1993 , 48, 8959-8962	3.3	48
10	Effects of disorder on the Raman spectra of GaAs/AlAs superlattices. <i>Physical Review B</i> , 1992 , 45, 4280-4288	3.3	87
9	Effects of disorder on the vibrational properties of SiGe alloys: Failure of mean-field approximations. <i>Physical Review Letters</i> , 1992 , 69, 1959-1962	7.4	38
8	Phonons in Si-Ge systems: An ab initio interatomic-force-constant approach. <i>Physical Review B</i> , 1992 , 46, 2412-2419	3.3	77
7	Vibrational properties of isolated AlAs monolayers embedded in GaAs: a theoretical study of the effects of disorder. <i>Applied Surface Science</i> , 1992 , 56-58, 617-621	6.7	

6	Infrared reflectivity by transverse-optical phonons in (GaAs) _m /(AlAs) _n ultrathin-layer superlattices. <i>Physical Review B</i> , 1991 , 43, 14754-14757	3.3	37
5	Structure and thermodynamics of Si _x Ge _{1-x} alloys from ab initio Monte Carlo simulations. <i>Physical Review Letters</i> , 1991 , 66, 2116-2119	7.4	144
4	Ab initio calculation of phonon dispersions in semiconductors. <i>Physical Review B</i> , 1991 , 43, 7231-7242	3.3	1348
3	Phonon dispersions in Ga _x Al _{1-x} As alloys. <i>Physical Review Letters</i> , 1990 , 65, 84-87	7.4	104
2	Piezoelectricity in III-V and II-VI semiconductors: A systematic ab-initio calculation. <i>Ferroelectrics</i> , 1990 , 111, 19-22	0.6	20
1	Piezoelectric properties of III-V semiconductors from first-principles linear-response theory. <i>Physical Review Letters</i> , 1989 , 62, 2853-2856	7.4	161