

# Emilio Artacho

## List of Publications by Year in descending order

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192  
papers

25,708  
citations

25034

57  
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6131

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197  
all docs

197  
docs citations

197  
times ranked

17425  
citing authors

#	ARTICLE	IF	CITATIONS
1	Manifold curvature and Ehrenfest forces with a moving basis. <i>SciPost Physics</i> , 2022, 12, .	4.9	0
2	Bragg's additivity rule and core and bond model studied by real-time TDDFT electronic stopping simulations: The case of water vapor. <i>Radiation Physics and Chemistry</i> , 2022, 193, 109961.	2.8	2
3	Semi-empirical and linear-scaling DFT methods to characterize duplex DNA and G-quadruplexes in the presence of interacting small molecules. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11510-11519.	2.8	5
4	Inelastic scattering of electrons in water from first principles: cross sections and inelastic mean free path for use in Monte Carlo track-structure simulations of biological damage. <i>Royal Society Open Science</i> , 2022, 9, .	2.4	4
5	Local orbital formulation of the Floquet theory of projectile electronic stopping. <i>Physical Review B</i> , 2022, 105, .	3.2	1
6	Numerical integration of quantum time evolution in a curved manifold. <i>Physical Review Research</i> , 2021, 3, .	3.6	2
7	The CECAM electronic structure library and the modular software development paradigm. <i>Journal of Chemical Physics</i> , 2020, 153, 024117.	3.0	19
8	Efficient <i>ab initio</i> calculation of electronic stopping in disordered systems via geometry pre-sampling: Application to liquid water. <i>Journal of Chemical Physics</i> , 2020, 153, 034113.	3.0	7
9	Changing the paradigm for research publishing. <i>Physics Today</i> , 2020, 73, 10-10.	0.3	0
10	Sciesta: Recent developments and applications. <i>Journal of Chemical Physics</i> , 2020, 152, 204108.	3.0	229
11	Gap variability upon packing in organic photovoltaics. <i>PLoS ONE</i> , 2020, 15, e0234115.	2.5	0
12	Entropic bonding of the type 1 pilus from experiment and simulation. <i>Royal Society Open Science</i> , 2020, 7, 200183.	2.4	0
13	<i>Ab initio</i> electronic stopping power for protons in Ga <sub>0.5</sub> In <sub>0.5</sub> P/GaAs/Ge triple-junction solar cells for space applications. <i>Royal Society Open Science</i> , 2020, 7, 200925.	2.4	9
14	First-principles characterization of single-electron polaron in $WO_3$ . <i>Physical Review Research</i> , 2020, 2, .	3.6	15
15	Floquet theory for the electronic stopping of projectiles in solids. <i>Physical Review Research</i> , 2020, 2, .	3.6	4
16	Electrostatics and domains in ferroelectric superlattices. <i>Royal Society Open Science</i> , 2020, 7, 201270.	2.4	12
17	Electronic heat transport versus atomic heating in irradiated short metallic nanowires. <i>Physical Review B</i> , 2019, 100, .	3.2	6
18	Anisotropy of electronic stopping power in graphite. <i>Physical Review B</i> , 2019, 100, .	3.2	19



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37	Electronic stopping power in a narrow band gap semiconductor from first principles. Physical Review B, 2015, 91, .	3.2	57
38	Fermi surfaces and orbital polarization in superconducting $\text{CeO}_{0.5}\text{BiS}$ by angle-resolved photoemission spectroscopy. Physical Review B, 2015, 92, .		
39	Two-dimensional electron gas at the $\text{PbTiO}_3/\text{SrTiO}_3$ interface: An <i>ab initio</i> study. Physical Review B, 2015, 92, .		
40	Electronic structure predictions in Bi-O-S systems. Novel Superconducting Materials, 2015, 1, .	0.8	0
41	Model of two-dimensional electron gas formation at ferroelectric interfaces. Physical Review B, 2015, 92, .	3.2	30
42	Effects of stoichiometric doping in superconducting Bi-O-S compounds. Journal of Physics Condensed Matter, 2015, 27, 135501.	1.8	13
43	Species fractionation in atomic chains from mechanically stretched alloys. Journal of Physics Condensed Matter, 2014, 26, 435304.	1.8	0
44	The origin of two-dimensional electron gases at oxide interfaces: insights from theory. Journal of Physics Condensed Matter, 2014, 26, 143201.	1.8	140
45	Room temperature compressibility and diffusivity of liquid water from first principles. Journal of Chemical Physics, 2013, 139, 194502.	3.0	54
46	Knock-on damage in bilayer graphene: Indications for a catalytic pathway. Physical Review B, 2013, 88, .	3.2	19
47	Electronic stopping power of H and He in Al and LiF from first principles. Nuclear Instruments & Methods in Physics Research B, 2013, 303, 59-61.	1.4	32
48	One-dimensional half-metallic interfaces of two-dimensional honeycomb insulators. Physical Review B, 2013, 88, .	3.2	28
49	Optimal finite-range atomic basis sets for liquid water and ice. Journal of Physics Condensed Matter, 2013, 25, 435504.	1.8	25
50	Proposal of a One-Dimensional Electron Gas in the Steps at the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. Physical Review Letters, 2012, 108, 166802.	7.8	21
51	Electrochemical ferroelectric switching: Origin of polarization reversal in ultrathin films. Physical Review B, 2012, 85, .	3.2	37
52	Molecular and Electronic Structure of the Peptide Subunit of <i>Geobacter sulfurreducens</i> Conductive Pili from First Principles. Journal of Physical Chemistry A, 2012, 116, 8023-8030.	2.5	58
53	Probing Surface and Bulk Electrochemical Processes on the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. ACS Nano, 2012, 6, 3841-3852.	14.6	65
54	Critical assessment of classical potentials for $\text{MgSiO}_3$ perovskite with application to thermal conductivity calculations. Physics of the Earth and Planetary Interiors, 2012, 210-211, 75-89.	1.9	12

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55	Nonadiabatic Forces in Ion-Solid Interactions: The Initial Stages of Radiation Damage. Physical Review Letters, 2012, 108, 213201.	7.8	138
56	Electronic Stopping Power in Gold: The Role of $d$ Electrons and the $H$ Anomaly. Physical Review Letters, 2012, 108, 225504.	7.8	125
57	van der Waals interaction in magnetic bilayer graphene nanoribbons. Physical Review B, 2012, 85, .	3.2	41
58	Dispersion interactions in room-temperature ionic liquids: Results from a non-empirical density functional. Journal of Chemical Physics, 2011, 135, 154505.	3.0	18
59	Density, structure, and dynamics of water: The effect of van der Waals interactions. Journal of Chemical Physics, 2011, 134, 024516.	3.0	242
60	Characterization of electrodeposited zinc oxide/tetrasulphonatedcopper phthalocyanines (ZnO/Ts-CuPc) hybrid films and their photoelectrochemical properties. Journal of Electroanalytical Chemistry, 2011, 653, 86-92.	3.8	9
61	The net charge at interfaces between insulators. Journal of Physics Condensed Matter, 2011, 23, 081001.	1.8	18
62	Surface defects and conduction in polar oxide heterostructures. Physical Review B, 2011, 83, .	3.2	145
63	Comment on "Quantum Mechanics in Metric Space: Wave Functions and their Densities". Physical Review Letters, 2011, 107, 188901; discussion 188902.	7.8	4
64	The flexoelectricity of barium and strontium titanates from first principles. Journal of Physics Condensed Matter, 2010, 22, 112201.	1.8	130
65	Trapping of oxygen vacancies in the twin walls of perovskite. Physical Review B, 2010, 81, .	3.2	64
66	Topology of the polarization field in ferroelectric nanowires from first principles. Physical Review B, 2010, 81, .	3.2	73
67	Electronic structure computations of Newton Black Films. Journal of Materials Chemistry, 2010, 20, 10351.	6.7	11
68	Oxide superlattices with alternating $p$ and $n$ interfaces. Physical Review B, 2009, 80, .	3.2	65
69	The intrinsic elasticity of twin walls: Ferrielectric twin walls in ferroelastic CaTiO <sub>3</sub> . Applied Physics Letters, 2009, 94, 081903.	3.3	28
70	Heating electrons with ion irradiation: A first-principles approach. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 590-593.	1.4	4
71	Linear Scaling Calculations of Linear and Nonlinear Optical Properties of [60]fullerene Derivatives. , 2009, .		7
72	Atomistic and electronic structure of antisite defects in yttrium aluminum garnet: Density-functional study. Physical Review B, 2009, 80, .	3.2	45

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73	eScience for molecular-scale simulations and the <i>e</i> Minerals project. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 967-985.	3.4	8
74	Fixing hiring practices means asking the right question. Nature, 2008, 453, 720-720.	27.8	0
75	Chemistry on the computer. Physics Today, 2008, 61, 58-63.	0.3	56
76	The SIESTA method; developments and applicability. Journal of Physics Condensed Matter, 2008, 20, 064208.	1.8	522
77	Ices of CO <sub>2</sub> /H <sub>2</sub> O Mixtures. Reflection~Absorption IR Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry A, 2008, 112, 457-465.	2.5	21
78	First-principles molecular dynamics simulations of the interaction of ionic projectiles with liquid water and ice. , 2008, , .		8
79	Electrostatic versus polarization effects in the adsorption of aromatic molecules of varied polarity on an insulating hydrophobic surface. Journal of Physics Condensed Matter, 2008, 20, 035215.	1.8	16
80	First-principles calculations of structural changes in $B_2$ under pressure. Physical Review B, 2008, 78, .	3.2	22
81	Ferrielectric Twin Walls in $CaTiO_3$ . Physical Review Letters, 2008, 101, 097602.	7.8	148
82	Nature of the Structural Transformations in $B_2O_3$ Glass under High Pressure. Physical Review Letters, 2008, 101, 035702.	7.8	76
83	Problems with University Hiring in Spain. Science, 2007, 315, 460a-460a.	12.6	0
84	Ferrodistorive Instability at the (001) Surface of Half-Metallic Manganites. Physical Review Letters, 2007, 99, 226101.	7.8	40
85	Resistive and rectifying effects of pulling gold atoms at thiol-gold nanocontacts. Physical Review B, 2007, 75, .	3.2	22
86	Structure and Function of Biomolecules II. Journal of Physics Condensed Matter, 2007, 19, 280301.	1.8	0
87	Eckhard Salje. Journal of Physics Condensed Matter, 2007, 19, 270301.	1.8	0
88	Electronic Stopping Power in LiF from First Principles. Physical Review Letters, 2007, 99, 235501.	7.8	157
89	Transformation of spin information into large electrical signals using carbon nanotubes. Nature, 2007, 445, 410-413.	27.8	325
90	Electronic stopping in insulators: a simple model. Journal of Physics Condensed Matter, 2007, 19, 275211.	1.8	24

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91	Atomistic simulations of resistance to amorphization by radiation damage. <i>Physical Review B</i> , 2006, 73, .	3.2	68
92	Electrons and Hydrogen-Bond Connectivity in Liquid Water. <i>Physical Review Letters</i> , 2006, 96, 016404.	7.8	88
93	Novel Structural Features of CDK Inhibition Revealed by an ab Initio Computational Method Combined with Dynamic Simulations. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 5141-5153.	6.4	37
94	Density functionals and half-metallicity in La <sub>2</sub> /3Sr <sub>1</sub> /3MnO <sub>3</sub> . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1437-1441.	1.8	33
95	Preface: phys. stat. sol. (b) 243/5. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 971-972.	1.5	3
96	Reader-appeal should not outweigh merit of research. <i>Nature</i> , 2006, 439, 534-534.	27.8	6
97	Electronic Structure Calculations with Localized Orbitals: The Siesta Method. , 2005, , 77-91.		3
98	Neutral self-defects in a silica model: A first-principles study. <i>Physical Review B</i> , 2005, 71, .	3.2	55
99	Calculation of the effect of intrinsic point defects and volume swelling in the nuclear magnetic resonance spectra of ZrSiO <sub>4</sub> . <i>Molecular Simulation</i> , 2005, 31, 349-354.	2.0	10
100	Workflow issues in atomistic simulations. <i>Molecular Simulation</i> , 2005, 31, 323-328.	2.0	1
101	Energetics of intrinsic point defects in ZrSiO <sub>4</sub> . <i>Physical Review B</i> , 2005, 71, .	3.2	39
102	Two exchange-correlation functionals compared for first-principles liquid water. <i>Molecular Simulation</i> , 2005, 31, 361-366.	2.0	32
103	First-principles study of structural, elastic, and bonding properties of pyrochlores. <i>Physical Review B</i> , 2005, 72, .	3.2	119
104	How the nature of the chemical bond governs resistance to amorphization by radiation damage. <i>Physical Review B</i> , 2005, 71, .	3.2	104
105	Radiation damage in the bulk and at the surface. <i>Molecular Simulation</i> , 2005, 31, 355-359.	2.0	10
106	Short-range repulsive interatomic interactions in energetic processes in solids. <i>Physical Review B</i> , 2004, 70, .	3.2	12
107	Structural Relaxations in Electronically Excited Poly(para-phenylene). <i>Physical Review Letters</i> , 2004, 93, 116401.	7.8	49
108	Network equilibration and first-principles liquid water. <i>Journal of Chemical Physics</i> , 2004, 121, 11136.	3.0	155

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109	Radiation damage effects in the perovskite $\text{CaTiO}_3$ and resistance of materials to amorphization. <i>Physical Review B</i> , 2004, 70, .	3.2	35
110	Intrinsic point defects and volume swelling in $\text{ZrSiO}_4$ under irradiation. <i>Physical Review B</i> , 2004, 70, .	3.2	24
111	Density-functional study of charge doping in $\text{WO}_3$ . <i>Physical Review B</i> , 2004, 70, .	3.2	84
112	Simulations of minerals using density-functional theory based on atomic orbitals for linear scaling. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 12-21.	0.8	15
113	First-Principles Infrared Spectrum of Nitric Acid and Nitric Acid Monohydrate Crystals. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10535-10541.	2.5	41
114	Oxygen neutral defects in silica: Origin of the distribution of the formation energies. <i>Europhysics Letters</i> , 2004, 66, 680-686.	2.0	19
115	Small Polarons in Dry DNA. <i>Physical Review Letters</i> , 2003, 91, 108105.	7.8	94
116	Comparison between plane-wave and linear-scaling localized basis sets for structural calculations of microporous molecular sieves. <i>Physical Review B</i> , 2003, 68, .	3.2	12
117	Experimental and Theoretical Electron Density Studies in Large Molecules: $\hat{\text{A}}\text{NAD}^+$ , $\hat{\text{I}}^2\text{-Nicotinamide Adenine Dinucleotide}$ . <i>Journal of Physical Chemistry B</i> , 2003, 107, 9109-9121.	2.6	30
118	Structural changes on supercooling liquid silicon. <i>Applied Physics Letters</i> , 2003, 83, 4734-4736.	3.3	82
119	Electrons in dry DNA from density functional calculations. <i>Molecular Physics</i> , 2003, 101, 1587-1594.	1.7	87
120	Model Hessian for accelerating first-principles structure optimizations. <i>Physical Review B</i> , 2003, 67, .	3.2	19
121	Single adatom adsorption and diffusion on $\text{Si}(111)\hat{\text{A}}^{\sim}(7\hat{\text{A}}-7)$ surfaces: $\hat{\text{A}}\in\text{Scanning tunneling microscopy and first-principles calculations}$ . <i>Physical Review B</i> , 2003, 67, .	3.2	78
122	Radiation-induced structural changes, percolation effects and resistance to amorphization by radiation damage. <i>Materials Research Society Symposia Proceedings</i> , 2003, 792, 418.	0.1	0
123	Verissimo-Alves et al. Reply:. <i>Physical Review Letters</i> , 2002, 89, .	7.8	1
124	Ab initio calculations and scanning tunneling microscopy experiments of the $\text{Si}(111)\hat{\text{A}}^{\sim}(7\hat{\text{A}}-3)\hat{\text{A}}^{\sim}\text{Pb}$ surface. <i>Physical Review B</i> , 2002, 66, .	3.2	34
125	Quantum mechanical calculations of dioctahedral 2:1 phyllosilicates: Effect of octahedral cation distributions in pyrophyllite, illite, and smectite. <i>American Mineralogist</i> , 2002, 87, 958-965.	1.9	73
126	Structure and Stability of Aluminum Hydroxides: $\hat{\text{A}}$ A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5155-5162.	2.6	241



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127	Systematic generation of finite-range atomic basis sets for linear-scaling calculations. Physical Review B, 2002, 66, .	3.2	251
128	The SIESTA method for ab initio order-N materials simulation. Journal of Physics Condensed Matter, 2002, 14, 2745-2779.	1.8	9,150
129	Ab initio studies of electromechanical effects in carbon nanotubes. Brazilian Journal of Physics, 2002, 32, 427-429.	1.4	1
130	Numerical atomic orbitals for linear-scaling calculations. Physical Review B, 2001, 64, .	3.2	992
131	First principles study of the adsorption of C60 on Si(1 1 1). Surface Science, 2001, 482-485, 39-43.	1.9	14
132	Electron correlation in the Si(1 0 0) surface. Surface Science, 2001, 482-485, 458-463.	1.9	15
133	Surface layering and local structure in liquid surfaces. Surface Science, 2001, 482-485, 1314-1318.	1.9	10
134	Zigzag equilibrium structure in monatomic wires. Surface Science, 2001, 482-485, 1261-1265.	1.9	42
135	Polarons in Carbon Nanotubes. Physical Review Letters, 2001, 86, 3372-3375.	7.8	67
136	Interplay between theory and experiment in solid state inorganic chemistry. Journal of Materials Chemistry, 2001, 11, 1-10.	6.7	15
137	Linear Scaling DFT Calculations with Numerical Atomic Orbitals. Materials Research Society Symposia Proceedings, 2001, 677, 961.	0.1	77
138	Ab initio study of atomic oxygen adsorption on the Si surface. Physica B: Condensed Matter, 2001, 308-310, 329-332.	2.7	4
139	Hybrid DNA-gold nanostructured materials: an ab initio approach. Nanotechnology, 2001, 12, 126-131.	2.6	35
140	Tailoring Band Gap and Hardness by Intercalation: An ab initio Study of $\text{BaSi}_4$ and Related Doped Clathrates. Physical Review Letters, 2001, 87, 206405.	7.8	64
141	A computational exploration of cation locations in high-silica Ca-Chabazite. Studies in Surface Science and Catalysis, 2000, 128, 89-98.	1.5	5
142	Seeing molecular orbitals. Chemical Physics Letters, 2000, 321, 78-82.	2.6	117
143	Electron density in the peptide bonds of crambin. Solid State Communications, 2000, 116, 395-400.	1.9	34
144	The structure and dynamics of crystalline durene by neutron scattering and numerical modelling using density functional methods. Chemical Physics, 2000, 261, 189-203.	1.9	39

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145	Metallic bonding and cluster structure. <i>Physical Review B</i> , 2000, 61, 5771-5780.	3.2	163
146	Ab initio DFT Calculations on NAD <sup>+</sup> and NADP <sup>+</sup> . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2000, 56, s198-s198.	0.3	0
147	Comment on "Identifying Molecular Orientation of Individual C <sub>60</sub> on a Si(111)-(7 $\times$ 7) Surface". <i>Physical Review Letters</i> , 2000, 85, 2653-2653.	7.8	12
148	New Superhard Phases for Three-Dimensional C <sub>60</sub> -based Fullerites. <i>Physical Review Letters</i> , 2000, 85, 2328-2331.	7.8	85
149	Absence of dc-Conductivity in $\lambda$ -DNA. <i>Physical Review Letters</i> , 2000, 85, 4992-4995.	7.8	602
150	O isotope effects and vibration-rotation lines of interstitial oxygen in germanium. <i>Physical Review B</i> , 2000, 62, 10165-10172.	3.2	14
151	Do Thiols Merely Passivate Gold Nanoclusters?. <i>Physical Review Letters</i> , 2000, 85, 5250-5251.	7.8	158
152	Systematic ab initio study of the electronic and magnetic properties of different pure and mixed iron systems. <i>Physical Review B</i> , 2000, 61, 13639-13646.	3.2	98
153	Stiff Monatomic Gold Wires with a Spinning Zigzag Geometry. <i>Physical Review Letters</i> , 1999, 83, 3884-3887.	7.8	235
154	Bonding and diffusion of Ba on a Si(001) reconstructed surface. <i>Physical Review B</i> , 1999, 60, 4968-4971.	3.2	36
155	Metallic surface reconstruction driven by frustrated antiferromagnetism. <i>Physical Review B</i> , 1999, 59, R705-R708.	3.2	6
156	Application of local-spin-density approximation to $\alpha$ -Si and tetrahedral $\alpha$ -C. <i>Physical Review B</i> , 1999, 60, 10594-10597.	3.2	13
157	Energetics of the oxidation and opening of a carbon nanotube. <i>Physical Review B</i> , 1999, 60, R2208-R2211.	3.2	69
158	Structure and thermal stability of gold nanoclusters: The Au <sub>38</sub> case. <i>European Physical Journal D</i> , 1999, 9, 211-215.	1.3	52
159	Ab initio structural, elastic, and vibrational properties of carbon nanotubes. <i>Physical Review B</i> , 1999, 59, 12678-12688.	3.2	854
160	Linear-Scaling ab-initio Calculations for Large and Complex Systems. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 215, 809-817.	1.5	922
161	Electronic States in a Finite Carbon Nanotube: A One-Dimensional Quantum Box. <i>Physical Review Letters</i> , 1999, 82, 3520-3523.	7.8	173
162	Atomic layering at the liquid silicon surface: A first-principles simulation. <i>Physical Review B</i> , 1999, 60, R16283-R16286.	3.2	39

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163	Self-consistent density-functional calculations of the geometries, electronic structures, and magnetic moments of Ni-Al clusters. <i>Physical Review B</i> , 1999, 60, 2020-2024.	3.2	88
164	Linear-Scaling ab-initio Calculations for Large and Complex Systems. , 1999, 215, 809.		35
165	Structure and thermal stability of gold nanoclusters: The Au <sub>38</sub> case. , 1999, , 211-215.		4
166	Lowest Energy Structures of Gold Nanoclusters. <i>Physical Review Letters</i> , 1998, 81, 1600-1603.	7.8	356
167	Low-energy quantum dynamics of atoms at defects; interstitial oxygen in silicon. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 3107-3116.	1.8	11
168	Interstitial oxygen in germanium and silicon. <i>Physical Review B</i> , 1997, 56, 3820-3833.	3.2	55
169	Surface electronic structure of metastable FeSi(CsCl)(111) epitaxially grown on Si(111). <i>Physical Review B</i> , 1997, 55, R16065-R16068.	3.2	12
170	Matrix-Induced Isotope Shift of a Vibrational Mode of Interstitial Oxygen in Germanium. <i>Materials Science Forum</i> , 1997, 258-263, 41-46.	0.3	9
171	Density-functional method for very large systems with LCAO basis sets. <i>International Journal of Quantum Chemistry</i> , 1997, 65, 453-461.	2.0	1,426
172	Self-consistent order- $N$ density-functional calculations for very large systems. <i>Physical Review B</i> , 1996, 53, R10441-R10444.	3.2	2,422
173	Analysis of atomic orbital basis sets from the projection of plane-wave results. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 3859-3880.	1.8	161
174	Mixed Approach to Incorporate Self-Consistency into Order-N LCAO Methods. <i>Materials Research Society Symposia Proceedings</i> , 1995, 408, 85.	0.1	9
175	The phase diagram of annealed Ge(111)/Ga. <i>Physica Status Solidi A</i> , 1995, 148, 191-212.	1.7	6
176	Projection of plane-wave calculations into atomic orbitals. <i>Solid State Communications</i> , 1995, 95, 685-690.	1.9	415
177	Geometry and quantum delocalization of interstitial oxygen in silicon. <i>Physical Review B</i> , 1995, 51, 7862-7865.	3.2	28
178	Microscopic structure of the discommensurate phases in Ge(111)/Ga. II. Domain superstructure and discommensurations. <i>Physical Review B</i> , 1995, 51, 9965-9972.	3.2	29
179	Microscopic structure of the discommensurate phases in Ge(111)/Ga. I. Atomic structure within domains. <i>Physical Review B</i> , 1995, 51, 9952-9964.	3.2	20
180	Surface energy and stability of stress-driven discommensurate surface structures. <i>Physical Review B</i> , 1995, 52, 16373-16376.	3.2	13

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181	Interstitial O isotope effects in silicon. Journal of Physics Condensed Matter, 1995, 7, 7077-7085.	1.8	32
182	Theory of Interstitial Oxygen in Silicon and Germanium. Materials Science Forum, 1995, 196-201, 103-108.	0.3	4
183	Surface structures of Si(111)/Ga. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 731-745.	0.6	11
184	Open fermionic quantum systems. Physical Review B, 1993, 47, 1190-1198.	3.2	11
185	Spin vs Charge Asymmetry in the Dimers of the Si(100)-2 $\times$ 1 Surface. Springer Proceedings in Physics, 1992, , 73-82.	0.2	0
186	Nonorthogonal basis sets in quantum mechanics: Representations and second quantization. Physical Review A, 1991, 43, 5770-5777.	2.5	64
187	Nonparametrized tight-binding method for local and extended defects in homopolar semiconductors. Physical Review B, 1991, 44, 6169-6187.	3.2	24
188	Quasi-parity-conserving octahedral model for (H,Be) and (D,Be) tunneling complexes in silicon. Physical Review B, 1991, 43, 12507-12511.	3.2	10
189	Spin polarization and dimer buckling at the Si(100)-2 $\times$ 1 surface. Physical Review B, 1990, 42, 11310-11316.	3.2	30
190	Proposal for symmetric dimers at the Si(100)-2 $\times$ 1 surface. Physical Review Letters, 1989, 62, 2491-2494.	7.8	118
191	Atomic configuration of H-based complexes in silicon. Solid State Communications, 1989, 72, 393-396.	1.9	21
192	Weakening of bonds: Discussion of two different mechanisms. Solid State Communications, 1987, 62, 113-115.	1.9	1