

# Pablo Ordejon

## List of Publications by Year in descending order

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221  
papers

34,011  
citations

14614

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g-index

222  
all docs

222  
docs citations

222  
times ranked

21619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interference effects in one-dimensional moiré crystals. Carbon, 2022, 186, 416-422.	5.4	1
2	Unraveling Heat Transport and Dissipation in Suspended MoSe <sub>2</sub> from Bulk to Monolayer. Advanced Materials, 2022, 34, e2108352.	11.1	12
3	Magnetic properties of coordination clusters with {Mn <sup>4+</sup> } and {Co <sup>4+</sup> } antiferromagnetic cores. Physical Chemistry Chemical Physics, 2022, 24, 3780-3787.	1.3	3
4	The elphbolt ab initio solver for the coupled electron-phonon Boltzmann transport equations. Npj Computational Materials, 2022, 8, .	3.5	19
5	Competition between Ta-Ta and Te-Te bonding leading to the commensurate charge density wave in $\text{TaTe}_2$ . Physical Review B, 2022, 105, .	11.1	6
6	Atomically Sharp Lateral Superlattice Heterojunctions Built in Nitrogen-Doped Nanoporous Graphene. Advanced Materials, 2022, 34, e2110099.	11.1	14
7	Colossal phonon drag enhanced thermopower in lightly doped diamond. Materials Today Physics, 2022, 27, 100740.	2.9	5
8	Basic aspects of the charge density wave instability of transition metal trichalcogenides NbSe <sub>3</sub> and monoclinic-TaS <sub>3</sub> . Journal of Physics Condensed Matter, 2021, 33, 485401.	0.7	2
9	Validity of the on-site spin-orbit coupling approximation. Physical Review B, 2021, 104, .	1.1	9
10	Siesta: Recent developments and applications. Journal of Chemical Physics, 2020, 152, 204108.	1.2	229
11	Fermi surface electron-hole instability of the (TMTSF) <sub>2</sub> PF <sub>6</sub> Bechgaard salt revealed by the first-principles Lindhard response function. Journal of Physics Condensed Matter, 2020, 32, 345701.	0.7	4
12	Anion ordering transition and Fermi surface electron-hole instabilities in the (TMTSF) <sub>2</sub> ClO <sub>4</sub> and (TMTSF) <sub>2</sub> NO <sub>3</sub> Bechgaard salts analyzed through the first-principles Lindhard response function. Journal of Physics Condensed Matter, 2020, 33, 085705.	0.7	4
13	Coexistence of Elastic Modulations in the Charge Density Wave State of 2H-NbSe <sub>2</sub> . Nano Letters, 2019, 19, 3027-3032.	4.5	26
14	2 Å <sup>-1</sup> charge density wave in single-layer TiTe <sub>2</sub> . 2D Materials, 2019, 6, 015027.	2.0	20
15	Evidence for the weak coupling scenario of the Peierls transition in the blue bronze. Physical Review Materials, 2019, 3, .	0.9	15
16	Spin Proximity Effects in Graphene/Topological Insulator Heterostructures. Nano Letters, 2018, 18, 2033-2039.	4.5	86
17	First principles analysis of the CDW instability of single-layer 1T'-TiSe <sub>2</sub> and its evolution with charge carrier density. 2D Materials, 2018, 5, 025024.	2.0	20
18	Addressing the Environment Electrostatic Effect on Ballistic Electron Transport in Large Systems: A QM/MM-NEGF Approach. Journal of Physical Chemistry B, 2018, 122, 485-492.	1.2	21

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19	Implementation of non-collinear spin-constrained DFT calculations in SIESTA with a fully relativistic Hamiltonian. JPhys Materials, 2018, 1, 015010.	1.8	11
20	Spin-Crossover in an Exfoliated 2D Coordination Polymer and Its Implementation in ThermoChromic Films. ACS Applied Nano Materials, 2018, 1, 2662-2668.	2.4	22
21	Mechanisms behind the enhancement of thermal properties of graphene nanofluids. Nanoscale, 2018, 10, 15402-15409.	2.8	49
22	Optical and electronic properties of $2H-\text{MoS}_2$ under pressure: Revealing the spin-polarized nature of bulk electronic bands. Physical Review Materials, 2018, 2, .	0.9	19
23	Anisotropic features in the electronic structure of the two-dimensional transition metal trichalcogenide $\text{TiS}_3$ : electron doping and plasmons. 2D Materials, 2017, 4, 025085.	2.0	24
24	Growth of Twin-Free and Low-Doped Topological Insulators on $\text{BaF}_2(111)$ . Crystal Growth and Design, 2017, 17, 4655-4660.	1.4	34
25	<i>Ab initio</i> study of electron-phonon coupling in rubrene. Physical Review B, 2017, 96, .	1.1	23
26	Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. Advanced Functional Materials, 2017, 27, 1701904.	7.8	41
27	Thermal and transport properties of pristine single-layer hexagonal boron nitride: A first principles investigation. Physical Review Materials, 2017, 1, .	0.9	11
28	Nanotexturing To Enhance Photoluminescent Response of Atomically Thin Indium Selenide with Highly Tunable Band Gap. Nano Letters, 2016, 16, 3221-3229.	4.5	155
29	Electronic structure of $2H-\text{NbSe}_2$ single-layers in the CDW state. 2D Materials, 2016, 3, 035028.	2.0	50
30	How disorder affects topological surface states in the limit of ultrathin $\text{Bi}_2\text{Se}_3$ films. 2D Materials, 2016, 3, 045007.	2.0	2
31	Capacitive DNA Detection Driven by Electronic Charge Fluctuations in a Graphene Nanopore. Physical Review Applied, 2015, 3, .	1.5	60
32	Quasiparticle spectra of $2H-\text{NbSe}_2$ and $2H-\text{TaSe}_2$ single layers: $d$ -wave superconductivity and the role of tunneling selectivity. Physical Review B, 2015, 92, .	1.1	86
33	Tunneling and electronic structure of the two-gap superconductor $\text{MgB}_2$ . Physical Review B, 2015, 92, .	1.1	86
34	Momentum dependence of spin-orbit interaction effects in single-layer and multi-layer transition metal dichalcogenides. 2D Materials, 2014, 1, 034003.	2.0	85
35	Electronic properties of single-layer and multilayer transition metal dichalcogenides $\text{MX}_2$ ( $\text{M} = \text{Mo}, \text{W}$ and $\text{X} = \text{S}, \text{Se}$ ). Annalen Der Physik, 2014, 526, 347-357.	0.9	186
36	Manganese $\text{MnO}_3$ and $\text{MnO}_2$ superconductivity and the role of tunneling selectivity. Physical Review B, 2015, 92, .	1.1	7

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37	Tight-binding model and direct-gap/indirect-gap transition in single-layer and multilayer MoS <sub>2</sub> . Physical Review B, 2013, 88, .	1.1	351
38	Insulating behavior of an amorphous graphene membrane. Physical Review B, 2012, 86, .	1.1	38
39	Carbon nanotubes as substrates for molecular spiropyran-based switches. Journal of Physics Condensed Matter, 2012, 24, 394006.	0.7	19
40	Electroresistance Effect in Ferroelectric Tunnel Junctions with Symmetric Electrodes. ACS Nano, 2012, 6, 1473-1478.	7.3	48
41	Performance of local orbital basis sets in the self-consistent Sternheimer method for dielectric matrices of extended systems. European Physical Journal B, 2012, 85, 1.	0.6	7
42	Calculation of core level shifts within DFT using pseudopotentials and localized basis sets. European Physical Journal B, 2012, 85, 1.	0.6	44
43	Dielectric screening in extended systems using the self-consistent Sternheimer equation and localized basis sets. Physical Review B, 2012, 85, .	1.1	12
44	Y:BaZrO <sub>3</sub> Perovskite Compounds I: DFT Study on the Unprotonated and Protonated Local Structures. Chemistry - an Asian Journal, 2012, 7, 1827-1837.	1.7	14
45	Modulation of Surface Charge Transfer through Competing Long-Range Repulsive versus Short-Range Attractive Interactions. Journal of Physical Chemistry C, 2011, 115, 18640-18648.	1.5	49
46	Structural, Dynamical, and Electronic Transport Properties of Modified DNA Duplexes Containing Size-Expanded Nucleobases. Journal of Physical Chemistry A, 2011, 115, 11344-11354.	1.1	16
47	Oxygen Surface Functionalization of Graphene Nanoribbons for Transport Gap Engineering. ACS Nano, 2011, 5, 9271-9277.	7.3	53
48	Magnetoresistance and Magnetic Ordering Fingerprints in Hydrogenated Graphene. Physical Review Letters, 2011, 107, 016602.	2.9	132
49	Magnetism-Dependent Transport Phenomena in Hydrogenated Graphene: From Spin-Splitting to Localization Effects. ACS Nano, 2011, 5, 3987-3992.	7.3	47
50	An efficient implementation of a QM <sup>2</sup> MM method in SIESTA. Theoretical Chemistry Accounts, 2011, 128, 825-833.	0.5	29
51	Quantum transport in chemically modified two-dimensional graphene: From minimal conductivity to Anderson localization. Physical Review B, 2011, 84, .	1.1	84
52	Real-Time TD-DFT Simulations in Dye Sensitized Solar Cells: The Electronic Absorption Spectrum of Alizarin Supported on TiO <sub>2</sub> Nanoclusters. Journal of Chemical Theory and Computation, 2010, 6, 2856-2865.	2.3	170
53	Band selection and disentanglement using maximally localized Wannier functions: the cases of Co impurities in bulk copper and the Cu(111) surface. Journal of Physics Condensed Matter, 2010, 22, 385601.	0.7	11
54	Damaging Graphene with Ozone Treatment: A Chemically Tunable Metal <sup>2</sup> Insulator Transition. ACS Nano, 2010, 4, 4033-4038.	7.3	149

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55	Electronic Transport between Graphene Layers Covalently Connected by Carbon Nanotubes. ACS Nano, 2010, 4, 7596-7602.	7.3	133
56	Orbital Specific Chirality and Homochiral Self-Assembly of Achiral Molecules Induced by Charge Transfer and Spontaneous Symmetry Breaking. Physical Review Letters, 2010, 105, 115702.	2.9	116
57	Density-wave instability in $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2010, 82, .	2.4	24
58	Tunneling spectroscopy in core/shell structured Fe/MgO nanospheres. Applied Physics Letters, 2009, 94, 062507.	1.5	11
59	Optimal strictly localized basis sets for noble metal surfaces. Physical Review B, 2009, 79, .	1.1	100
60	Trends in Nanotechnology (TNT2007). Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1245-1248.	0.8	0
61	Band bending and quasi-2DEG in the metallized $\text{SiC}(001)$ surface. Physica Status Solidi - Rapid Research Letters, 2008, 2, 218-220.	1.2	9
62	The SIESTA method; developments and applicability. Journal of Physics Condensed Matter, 2008, 20, 064208.	0.7	522
63	Resistive and rectifying effects of pulling gold atoms at thiol-gold nanocontacts. Physical Review B, 2007, 75, .	1.1	22
64	Inhomogenities of the CDW vector at the (-201) surface of Quasi-1D blue bronze $\text{Rb}_{0.3}\text{MoO}_3$ . Journal of Physics: Conference Series, 2007, 61, 140-146.	0.3	2
65	Preface: phys. stat. sol. (a) 204/6. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1607-1610.	0.8	1
66	Transport measurements under pressure in III-IV layered semiconductors. Physica Status Solidi (B): Basic Research, 2007, 244, 162-168.	0.7	10
67	GaS and InSe equations of state from single crystal diffraction. Physica Status Solidi (B): Basic Research, 2007, 244, 169-173.	0.7	8
68	Interaction of copper organometallic precursors with barrier layers of Ti, Ta and W and their nitrides: a first-principles molecular dynamics study. Journal of Molecular Modeling, 2007, 13, 861-864.	0.8	10
69	Ab initio study of NOx compounds adsorption on SnO2 surface. Sensors and Actuators B: Chemical, 2007, 126, 62-67.	4.0	86
70	Analysis of scanning tunneling microscopy images of the charge-density-wave phase in quasi-one-dimensional $\text{Rb}_{0.3}\text{MoO}_3$ . Physical Review B, 2006, 74, .	1.1	7
71	Electronic Structure and Charge Transfer in the Ternary Intercalated Graphite $\text{I}^2\text{-KS}_{0.25}\text{C}_3$ . Inorganic Chemistry, 2006, 45, 9387-9393.	1.9	0
72	Editorial: Trends in Nanotechnology (TNT2005). Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1045-1046.	0.8	0

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73	Scientific Highlights from the $\Gamma$ -k Network: Towards Atomistic Materials Design. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2445-2445.	0.7	0
74	Simulation of the Growth of Copper Films for Micro and Nano-Electronics. <i>Advances in Science and Technology</i> , 2006, 51, 167-173.	0.2	0
75	Electron Transport via Local Polarons at Interface Atoms. <i>Physical Review Letters</i> , 2006, 97, 206801.	2.9	50
76	High-pressure, high-temperature phase diagram of InSe: A comprehensive study of the electronic and structural properties of the monoclinic phase of InSe under high pressure. <i>Physical Review B</i> , 2006, 73, .	1.1	37
77	FIRST PRINCIPLES SLAB RELAXATION STUDY OF THE TiFe(001) SURFACE. <i>Surface Review and Letters</i> , 2006, 13, 495-501.	0.5	1
78	Nanotubes and nanowires: the effect of impurities and defects on their electronic properties. <i>International Journal of Nanotechnology</i> , 2005, 2, 114.	0.1	10
79	Self-doped titanium oxide thin films for efficient visible light photocatalysis. <i>Sensors and Actuators B: Chemical</i> , 2005, 109, 52-56.	4.0	37
80	Theoretical study of O <sub>2</sub> and CO adsorption on Au <sub>n</sub> clusters (n=5-10). <i>Chemical Physics Letters</i> , 2005, 408, 252-257.	1.2	95
81	Electronic Structure Calculations with Localized Orbitals: The Siesta Method. , 2005, , 77-91.		3
82	Strength of radial breathing mode in single-walled carbon nanotubes. <i>Physical Review B</i> , 2005, 71, .	1.1	109
83	Composition-dependent structural properties in ScGaN alloy films: A combined experimental and theoretical study. <i>Journal of Applied Physics</i> , 2005, 98, 123501.	1.1	36
84	Comment on "Molecular Distortions and Chemical Bonding of a Large Conjugated Molecule on a Metal Surface". <i>Physical Review Letters</i> , 2005, 95, 209601; author reply 209602.	2.9	68
85	Scanning Tunneling Microscopy and Surface Simulation of Zinc-Blende GaN(001) Intrinsic 4 $\times$ 4 Reconstruction: Linear Gallium Tetramers?. <i>Physical Review Letters</i> , 2005, 95, 146102.	2.9	15
86	First-Principles Analyses and Predictions on the Reactivity of Barrier Layers of Ta and TaN toward Organometallic Precursors for Deposition of Copper Films. <i>Langmuir</i> , 2005, 21, 7608-7614.	1.6	31
87	First stages of the oxidation of the Si-rich 3 $\times$ 3 SiC(001) surface. <i>Computational Materials Science</i> , 2005, 33, 13-19.	1.4	9
88	Crystal symmetry and pressure effects on the valence band structure of $\beta$ -InSe and $\mu$ -GaSe: Transport measurements and electronic structure calculations. <i>Physical Review B</i> , 2005, 71, .	1.1	65
89	Phonon dispersion of graphite. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	1
90	Band structure of indium selenide investigated by intrinsic photoluminescence under high pressure. <i>Physical Review B</i> , 2004, 70, .	1.1	35

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91	Systematic study of electron localization in an amorphous semiconductor. <i>Physical Review B</i> , 2004, 69, .	1.1	34
92	Antisites as Possible Origin of Irradiation Induced Photoluminescence Centers in SiC: A Theoretical Study on Clusters of Antisites and Carbon Interstitials in 4H-SiC. <i>Materials Science Forum</i> , 2004, 457-460, 443-448.	0.3	1
93	First-Principles Study of O Adsorption at SiC Surface. <i>Materials Science Forum</i> , 2004, 457-460, 1293-1296.	0.3	3
94	Phonon Dispersion in Graphite. <i>Physical Review Letters</i> , 2004, 92, 075501.	2.9	460
95	Stability and Mobility of Mono- and Di-Interstitials in $\alpha$ -Fe. <i>Physical Review Letters</i> , 2004, 92, 175503.	2.9	403
96	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.	0.3	15
97	Self-passivation mechanisms in clusters of N dopants in SiC. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 274-277.	0.8	1
98	Concerning the origin of superstructures in hydrogen molybdenum bronzes $H_xMoO_3$ . <i>Solid State Ionics</i> , 2004, 168, 291-298.	1.3	7
99	First principles study of gold adsorption and diffusion on graphite. <i>Surface Science</i> , 2004, 564, 173-178.	0.8	63
100	Dynamical screening and absorption within a strictly localized basis implementation of time-dependent LDA: From small clusters and molecules to aza-fullerenes. <i>Physical Review B</i> , 2004, 69, .	1.1	33
101	First-principles studies of the diffusion of B impurities and vacancies in SiC. <i>Physical Review B</i> , 2004, 69, .	1.1	24
102	Computing the Properties of Materials from First Principles with SIESTA. <i>Structure and Bonding</i> , 2004, , 103-170.	1.0	101
103	Sampling the diffusion paths of a neutral vacancy in silicon with quantum mechanical calculations. <i>Physical Review B</i> , 2004, 70, .	1.1	80
104	The strength of the radial-breathing mode in single-walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	2
105	TranSIESTA: A Spice for Molecular Electronics. <i>Annals of the New York Academy of Sciences</i> , 2003, 1006, 212-226.	1.8	205
106	Modulation of the NO trans effect in heme proteins: implications for the activation of soluble guanylate cyclase. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 595-600.	1.1	39
107	Defects of the SiC/SiO <sub>2</sub> interface: energetics of the elementary steps of the oxidation reaction. <i>Physica B: Condensed Matter</i> , 2003, 340-342, 1069-1073.	1.3	17
108	Compressibility of CO adsorbed on Ni from $10^{-6}$ mbar to 1.2 bar ambient CO pressures investigated with X-ray diffraction. <i>Surface Science</i> , 2003, 522, 161-166.	0.8	27

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109	Specific features of the electronic structure of III-VI layered semiconductors: recent results on structural and optical measurements under pressure and electronic structure calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 235, 267-276.	0.7	26
110	Elastic properties and pressure-induced phase transitions of single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 235, 354-359.	0.7	44
111	A DFT-Based QM-MM Approach Designed for the Treatment of Large Molecular Systems: Application to Chorismate Mutase. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13728-13736.	1.2	116
112	First principles studies of neutral vacancies diffusion in SiC. <i>Computational Materials Science</i> , 2003, 27, 36-42.	1.4	18
113	Theoretical study of the nonlinear conductance of Di-thiol benzene coupled to Au(1 1 1) surfaces via thiol and thiolate bonds. <i>Computational Materials Science</i> , 2003, 27, 151-160.	1.4	463
114	Hexagonal diamond from single-walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	1
115	Electrons in dry DNA from density functional calculations. <i>Molecular Physics</i> , 2003, 101, 1587-1594.	0.8	87
116	A Cause for SiC/SiO <sub>2</sub> Interface States: the Site Selection of Oxygen in SiC. <i>Materials Science Forum</i> , 2003, 433-436, 535-538.	0.3	9
117	First-Principles Studies of N and P Dopant Interactions in SiC: Implications for Co-Doping. <i>Materials Science Forum</i> , 2003, 433-436, 649-652.	0.3	2
118	First-principles calculation of the band offset at BaO/BaTiO <sub>3</sub> and SrO/SrTiO <sub>3</sub> interfaces. <i>Physical Review B</i> , 2003, 67, .	1.1	121
119	Origin of current-induced forces in an atomic gold wire: A first-principles study. <i>Physical Review B</i> , 2003, 67, .	1.1	98
120	Aggregation of carbon interstitials in silicon carbide: A theoretical study. <i>Physical Review B</i> , 2003, 68, .	1.1	103
121	Characterization of the unoccupied and partially occupied states of TTF-TCNQ by XANES and first-principles calculations. <i>Physical Review B</i> , 2003, 68, .	1.1	54
122	First-principles characterization of the electronic structure of the molecular superconductor (BEDT-TTF) <sub>2</sub> Br <sub>2</sub> . <i>Physical Review B</i> , 2003, 67, .	1.1	18
123	First-principles study of n-type dopants and their clustering in SiC. <i>Applied Physics Letters</i> , 2003, 82, 4298-4300.	1.5	24
124	Density functional theory calculations of quantum electron transport: carbon nanotubes-gold contacts. <i>Advances in Quantum Chemistry</i> , 2003, , 299-314.	0.4	8
125	Vibrational properties of double-walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	5
126	Ab initio studies of electron-phonon coupling in single-walled nanotubes. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	0



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127	First-principles molecular dynamics study of the stretching frequencies of hydrogen molecules in carbon nanotubes. <i>New Journal of Physics</i> , 2003, 5, 124-124.	1.2	12
128	Molecular Dynamics Simulations of Nanotube Growth. , 2003, , 45-56.		1
129	Theoretical evidence for the kick-out mechanism for B diffusion in SiC. <i>Applied Physics Letters</i> , 2002, 81, 2989-2991.	1.5	26
130	First-principles study of the blue bronze $K_0.3MoO_3$ . <i>Physical Review B</i> , 2002, 65, .	1.1	39
131	First-principles study of the neutral molecular metal $Ni(tmdt)_2$ . <i>Physical Review B</i> , 2002, 65, .	1.1	60
132	SnO <sub>2</sub> : Bulk and Surface Simulations by an Ab Initio Numerical Local Orbitals Method. <i>Phase Transitions</i> , 2002, 75, 143-149.	0.6	13
133	Ab Initio Calculations of B Diffusion in SiC. <i>Materials Science Forum</i> , 2002, 389-393, 553-556.	0.3	1
134	Angle-resolved photoemission study and first-principles calculation of the electronic structure of GaTe. <i>Physical Review B</i> , 2002, 65, .	1.1	38
135	Electronic band structure of isolated and bundled carbon nanotubes. <i>Physical Review B</i> , 2002, 65, .	1.1	327
136	Tight-binding description of graphene. <i>Physical Review B</i> , 2002, 66, .	1.1	904
137	Simulations of quantum transport in nanoscale systems: application to atomic gold and silver wires. <i>Nanotechnology</i> , 2002, 13, 346-351.	1.3	39
138	Ab initio calculations of the optical properties of 4-Å...-diameter single-walled nanotubes. <i>Physical Review B</i> , 2002, 66, .	1.1	256
139	Density-functional method for nonequilibrium electron transport. <i>Physical Review B</i> , 2002, 65, .	1.1	4,752
140	Ab initio determination of the phonon deformation potentials of graphene. <i>Physical Review B</i> , 2002, 65, .	1.1	72
141	Elastic properties of carbon nanotubes under hydrostatic pressure. <i>Physical Review B</i> , 2002, 65, .	1.1	139
142	Solid phosphorus carbide?. <i>Chemical Communications</i> , 2002, , 2494-2495.	2.2	16
143	Ab initio local vibrational modes of light impurities in silicon. <i>Physical Review B</i> , 2002, 65, .	1.1	51
144	Band structure and optical properties of isolated and bundled nanotubes. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	1

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145	Designed Self-Doped Titanium Oxide Thin Films for Efficient Visible-Light Photocatalysis. <i>Advanced Materials</i> , 2002, 14, 1399-1402.	11.1	438
146	Environment effects on chemical reactivity of heme proteins. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 1505-1514.	1.0	23
147	The SIESTA method for ab initio order-N materials simulation. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 2745-2779.	0.7	9,150
148	Ab-Initio Calculations on the Structural and Electronic Properties of BaO/BaTiO <sub>3</sub> And SrO/SrTiO <sub>3</sub> Interfaces. , 2002, , 561-571.		0
149	Density-functional calculations of the structures, binding energies, and magnetic moments of Fe clusters with 2 to 17 atoms. <i>Physical Review B</i> , 2001, 63, .	1.1	189
150	Ab initio study of silicon-multisubstituted neutral and charged fullerenes. <i>Physical Review B</i> , 2001, 63, .	1.1	67
151	Fullerene growth and the role of nonclassical isomers. <i>Physical Review B</i> , 2001, 63, .	1.1	53
152	Experimental and theoretical study of band structure of InSe and In <sub>1-x</sub> Ga <sub>x</sub> Se (x < 0.2) under high pressure: Direct to indirect crossovers. <i>Physical Review B</i> , 2001, 63, .	1.1	73
153	Phonon eigenvectors of chiral nanotubes. <i>Physical Review B</i> , 2001, 64, .	1.1	53
154	Ring closure in dioxin formation process: An ab initio molecular dynamics study. <i>Journal of Chemical Physics</i> , 2001, 115, 6401-6405.	1.2	12
155	Surface electronic structure of metastable FeSi(CsCl)(1 1 1). <i>Surface Science</i> , 2001, 482-485, 625-631.	0.8	7
156	Interplay between theory and experiment in solid state inorganic chemistry. <i>Journal of Materials Chemistry</i> , 2001, 11, 1-10.	6.7	15
157	Structural and vibrational properties of single walled nanotubes under hydrostatic pressure. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	1
158	Linear Scaling DFT Calculations with Numerical Atomic Orbitals. <i>Materials Research Society Symposia Proceedings</i> , 2001, 677, 961.	0.1	77
159	The fascinating dynamics of defects in silicon. <i>Physica B: Condensed Matter</i> , 2001, 308-310, 1-7.	1.3	2
160	Vibrational properties of H-related defects in silicon. <i>Physica B: Condensed Matter</i> , 2001, 308-310, 147-150.	1.3	2
161	The strange behavior of interstitial H <sub>2</sub> molecules in Si and GaAs. <i>Physica B: Condensed Matter</i> , 2001, 308-310, 202-205.	1.3	10
162	Copper-Defect and Copper-Impurity Interactions in Silicon. <i>Solid State Phenomena</i> , 2001, 82-84, 341-348.	0.3	10

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163	Hybrid DNA-gold nanostructured materials: an ab initio approach. <i>Nanotechnology</i> , 2001, 12, 126-131.	1.3	35
164	Dynamics of interstitial hydrogen molecules in crystalline silicon. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 6271-6283.	0.7	38
165	Self-interstitial hydrogen complexes in Si. <i>Physical Review B</i> , 2001, 64, .	1.1	11
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