

Pablo Ordejon

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.

212
papers

29,562
citations

64
h-index

171
g-index

222
ext. papers

31,677
ext. citations

4.3
avg, IF

6.73
L-index

#	Paper	IF	Citations
212	Unraveling Heat Transport and Dissipation in Suspended MoSe from Bulk to Monolayer.. <i>Advanced Materials</i> , 2022 , e2108352	24	1
211	The elphbolt ab initio solver for the coupled electron-phonon Boltzmann transport equations. <i>Npj Computational Materials</i> , 2022 , 8,	10.9	2
210	Interference effects in one-dimensional moiré crystals. <i>Carbon</i> , 2022 , 186, 416-422	10.4	0
209	Atomically Sharp Lateral Superlattice Heterojunctions Built-in Nitrogen-doped Nanoporous Graphene.. <i>Advanced Materials</i> , 2022 , e2110099	24	1
208	Colossal phonon drag enhanced thermopower in lightly doped diamond. <i>Materials Today Physics</i> , 2022 , 100740	8	0
207	Validity of the on-site spin-orbit coupling approximation. <i>Physical Review B</i> , 2021 , 104,	3.3	1
206	Siesta: Recent developments and applications. <i>Journal of Chemical Physics</i> , 2020 , 152, 204108	3.9	69
205	Fermi surface electron-hole instability of the (TMTSF)PF Bechgaard salt revealed by the first-principles Lindhard response function. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 345701	1.8	1
204	Anion ordering transition and Fermi surface electron-hole instabilities in the (TMTSF)ClO and (TMTSF)NO Bechgaard salts analyzed through the first-principles Lindhard response function. <i>Journal of Physics Condensed Matter</i> , 2020 , 33, 085705	1.8	0
203	Coexistence of Elastic Modulations in the Charge Density Wave State of 2 H-NbSe. <i>Nano Letters</i> , 2019 , 19, 3027-3032	11.5	8
202	Evidence for the weak coupling scenario of the Peierls transition in the blue bronze. <i>Physical Review Materials</i> , 2019 , 3,	3.2	11
201	2D charge density wave in single-layer TiTe ₂ . <i>2D Materials</i> , 2019 , 6, 015027	5.9	10
200	Spin Proximity Effects in Graphene/Topological Insulator Heterostructures. <i>Nano Letters</i> , 2018 , 18, 2033-2039	10.39	65
199	First principles analysis of the CDW instability of single-layer 1T-TiSe ₂ and its evolution with charge carrier density. <i>2D Materials</i> , 2018 , 5, 025024	5.9	14
198	Addressing the Environment Electrostatic Effect on Ballistic Electron Transport in Large Systems: A QM/MM-NEGF Approach. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 485-492	3.4	14
197	Mechanisms behind the enhancement of thermal properties of graphene nanofluids. <i>Nanoscale</i> , 2018 , 10, 15402-15409	7.7	36
196	Optical and electronic properties of 2H-MoS ₂ under pressure: Revealing the spin-polarized nature of bulk electronic bands. <i>Physical Review Materials</i> , 2018 , 2,	3.2	14

195	Implementation of non-collinear spin-constrained DFT calculations in SIESTA with a fully relativistic Hamiltonian. <i>JPhys Materials</i> , 2018 , 1, 015010	4.2	7
194	Spin-Crossover in an Exfoliated 2D Coordination Polymer and Its Implementation in Thermochromic Films. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2662-2668	5.6	20
193	Anisotropic features in the electronic structure of the two-dimensional transition metal trichalcogenide TlS ₃ : electron doping and plasmons. <i>2D Materials</i> , 2017 , 4, 025085	5.9	20
192	Growth of Twin-Free and Low-Doped Topological Insulators on BaF ₂ (111). <i>Crystal Growth and Design</i> , 2017 , 17, 4655-4660	3.5	24
191	Ab initio study of electron-phonon coupling in rubrene. <i>Physical Review B</i> , 2017 , 96,	3.3	22
190	Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. <i>Advanced Functional Materials</i> , 2017 , 27, 1701904	15.6	31
189	Thermal and transport properties of pristine single-layer hexagonal boron nitride: A first principles investigation. <i>Physical Review Materials</i> , 2017 , 1,	3.2	10
188	Electronic structure of 2 H-NbSe ₂ single-layers in the CDW state. <i>2D Materials</i> , 2016 , 3, 035028	5.9	33
187	How disorder affects topological surface states in the limit of ultrathin Bi ₂ Se ₃ films. <i>2D Materials</i> , 2016 , 3, 045007	5.9	1
186	Nanotexturing To Enhance Photoluminescent Response of Atomically Thin Indium Selenide with Highly Tunable Band Gap. <i>Nano Letters</i> , 2016 , 16, 3221-9	11.5	119
185	Capacitive DNA Detection Driven by Electronic Charge Fluctuations in a Graphene Nanopore. <i>Physical Review Applied</i> , 2015 , 3,	4.3	54
184	Quasiparticle spectra of 2H-NbSe ₂ : Two-band superconductivity and the role of tunneling selectivity. <i>Physical Review B</i> , 2015 , 92,	3.3	32
183	Tunneling and electronic structure of the two-gap superconductor MgB ₂ . <i>Physical Review B</i> , 2015 , 92,	3.3	5
182	Electronic properties of single-layer and multilayer transition metal dichalcogenides MX ₂ (M = Mo, W and X = S, Se). <i>Annalen Der Physik</i> , 2014 , 526, 347-357	2.6	143
181	Momentum dependence of spin-orbit interaction effects in single-layer and multi-layer transition metal dichalcogenides. <i>2D Materials</i> , 2014 , 1, 034003	5.9	71
180	Manganese 3B and 3B-R30? structures and structural phase transition on w-GaN(0001) studied by scanning tunneling microscopy and first-principles theory. <i>Physical Review B</i> , 2013 , 87,	3.3	6
179	Tight-binding model and direct-gap/indirect-gap transition in single-layer and multilayer MoS ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	284
178	Insulating behavior of an amorphous graphene membrane. <i>Physical Review B</i> , 2012 , 86,	3.3	30

177	Carbon nanotubes as substrates for molecular spiropyran-based switches. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 394006	1.8	14
176	Electroresistance effect in ferroelectric tunnel junctions with symmetric electrodes. <i>ACS Nano</i> , 2012 , 6, 1473-8	16.7	42
175	Performance of local orbital basis sets in the self-consistent Sternheimer method for dielectric matrices of extended systems. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	6
174	Calculation of core level shifts within DFT using pseudopotentials and localized basis sets. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	37
173	Dielectric screening in extended systems using the self-consistent Sternheimer equation and localized basis sets. <i>Physical Review B</i> , 2012 , 85,	3.3	12
172	Y:BaZrO ₃ perovskite compounds I: DFT study on the unprotonated and protonated local structures. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 1827-37	4.5	10
171	Structural, dynamical, and electronic transport properties of modified DNA duplexes containing size-expanded nucleobases. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 11344-54	2.8	15
170	Oxygen surface functionalization of graphene nanoribbons for transport gap engineering. <i>ACS Nano</i> , 2011 , 5, 9271-7	16.7	36
169	Magnetoresistance and magnetic ordering fingerprints in hydrogenated graphene. <i>Physical Review Letters</i> , 2011 , 107, 016602	7.4	113
168	Magnetism-dependent transport phenomena in hydrogenated graphene: from spin-splitting to localization effects. <i>ACS Nano</i> , 2011 , 5, 3987-92	16.7	41
167	An efficient implementation of a QMMM method in SIESTA. <i>Theoretical Chemistry Accounts</i> , 2011 , 128, 825-833	1.9	24
166	Modulation of Surface Charge Transfer through Competing Long-Range Repulsive versus Short-Range Attractive Interactions. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18640-18648	3.8	46
165	Quantum transport in chemically modified two-dimensional graphene: From minimal conductivity to Anderson localization. <i>Physical Review B</i> , 2011 , 84,	3.3	66
164	Band selection and disentanglement using maximally localized Wannier functions: the cases of Co impurities in bulk copper and the Cu(111) surface. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 385601 ^{1.8}	1.8	11
163	Damaging graphene with ozone treatment: a chemically tunable metal-insulator transition. <i>ACS Nano</i> , 2010 , 4, 4033-8	16.7	126
162	Electronic transport between graphene layers covalently connected by carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 7596-602	16.7	109
161	Orbital specific chirality and homochiral self-assembly of achiral molecules induced by charge transfer and spontaneous symmetry breaking. <i>Physical Review Letters</i> , 2010 , 105, 115702	7.4	109
160	Density-wave instability in (BEDT-TTF) ₂ KHg(SCN) ₄ studied by x-ray diffuse scattering and by first-principles calculations. <i>Physical Review B</i> , 2010 , 82,	3.3	22

159	Real-Time TD-DFT Simulations in Dye Sensitized Solar Cells: The Electronic Absorption Spectrum of Alizarin Supported on TiO ₂ Nanoclusters. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 2856-65	6.4	142
158	Tunneling spectroscopy in core/shell structured Fe/MgO nanospheres. <i>Applied Physics Letters</i> , 2009 , 94, 062507	3.4	10
157	Optimal strictly localized basis sets for noble metal surfaces. <i>Physical Review B</i> , 2009 , 79,	3.3	90
156	The SIESTA method; developments and applicability. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 064208	4.8	364
155	Trends in Nanotechnology (TNT2007). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1245-1248	1.6	
154	Band bending and quasi-2DEG in the metallized SiC(001) surface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 218-220	2.5	9
153	Preface: phys. stat. sol. (a) 204/6. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1607-1610	1.6	1
152	Transport measurements under pressure in IIIIV layered semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 162-168	1.3	10
151	GaS and InSe equations of state from single crystal diffraction. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 169-173	1.3	7
150	Interaction of copper organometallic precursors with barrier layers of Ti, Ta and W and their nitrides: a first-principles molecular dynamics study. <i>Journal of Molecular Modeling</i> , 2007 , 13, 861-4	2	10
149	Ab initio study of NO _x compounds adsorption on SnO ₂ surface. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 62-67	8.5	82
148	Resistive and rectifying effects of pulling gold atoms at thiol-gold nanocontacts. <i>Physical Review B</i> , 2007 , 75,	3.3	17
147	Inhomogenities of the CDW vector at the (-201) surface of Quasi-1D blue bronze Rb _{0.3} MoO ₃ . <i>Journal of Physics: Conference Series</i> , 2007 , 61, 140-146	0.3	2
146	Simulation of the Growth of Copper Films for Micro and Nano-Electronics. <i>Advances in Science and Technology</i> , 2006 , 51, 167-173	0.1	
145	Electron transport via local polarons at interface atoms. <i>Physical Review Letters</i> , 2006 , 97, 206801	7.4	46
144	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,	3.3	32
143	FIRST PRINCIPLES SLAB RELAXATION STUDY OF THE TiFe(001) SURFACE. <i>Surface Review and Letters</i> , 2006 , 13, 495-501	1.1	1
142	Analysis of scanning tunneling microscopy images of the charge-density-wave phase in quasi-one-dimensional Rb _{0.3} MoO ₃ . <i>Physical Review B</i> , 2006 , 74,	3.3	6

141	Electronic structure and charge transfer in the ternary intercalated graphite beta-KS0.25C3. <i>Inorganic Chemistry</i> , 2006 , 45, 9387-93	5.1	
140	Scientific Highlights from the π Network: Towards Atomistic Materials Design. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 2445-2445	1.3	
139	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, 7608-14	4	31
138	First stages of the oxidation of the Si-rich 3C β C(0 0 1) surface. <i>Computational Materials Science</i> , 2005 , 33, 13-19	3.2	9
137	Crystal symmetry and pressure effects on the valence band structure of β -InSe and β -GaSe: Transport measurements and electronic structure calculations. <i>Physical Review B</i> , 2005 , 71,	3.3	54
136	Nanotubes and nanowires: the effect of impurities and defects on their electronic properties. <i>International Journal of Nanotechnology</i> , 2005 , 2, 114	1.5	10
135	Self-doped titanium oxide thin films for efficient visible light photocatalysis: An example: Nonylphenol photodegradation. <i>Sensors and Actuators B: Chemical</i> , 2005 , 109, 52-56	8.5	31
134	Theoretical study of O ₂ and CO adsorption on Au _n clusters (n=5-10). <i>Chemical Physics Letters</i> , 2005 , 408, 252-257	2.5	92
133	Electronic Structure Calculations with Localized Orbitals: The Siesta Method 2005 , 77-91		3
132	Strength of radial breathing mode in single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	104
131	Composition-dependent structural properties in ScGa _n alloy films: A combined experimental and theoretical study. <i>Journal of Applied Physics</i> , 2005 , 98, 123501	2.5	33
130	Comment on "Molecular distortions and chemical bonding of a large pi-conjugated molecule on a metal surface". <i>Physical Review Letters</i> , 2005 , 95, 209601; author reply 209602	7.4	66
129	Scanning tunneling microscopy and surface simulation of zinc-blende GaN(001) intrinsic 4x reconstruction: linear gallium tetramers?. <i>Physical Review Letters</i> , 2005 , 95, 146102	7.4	12
128	Band structure of indium selenide investigated by intrinsic photoluminescence under high pressure. <i>Physical Review B</i> , 2004 , 70,	3.3	28
127	Systematic study of electron localization in an amorphous semiconductor. <i>Physical Review B</i> , 2004 , 69,	3.3	31
126	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	0.4	1
125	First-Principles Study of O Adsorption at SiC Surface. <i>Materials Science Forum</i> , 2004 , 457-460, 1293-1296	0.4	2
124	Phonon dispersion in graphite. <i>Physical Review Letters</i> , 2004 , 92, 075501	7.4	410

123	Stability and mobility of mono- and di-interstitials in alpha-Fe. <i>Physical Review Letters</i> , 2004 , 92, 175503	7.4	369
122	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	1.6	14
121	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		1
120	Concerning the origin of superstructures in hydrogen molybdenum bronzes HxMoO3. <i>Solid State Ionics</i> , 2004 , 168, 291-298	3.3	6
119	First principles study of gold adsorption and diffusion on graphite. <i>Surface Science</i> , 2004 , 564, 173-178	1.8	58
118	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,	3.3	33
117	First-principles studies of the diffusion of B impurities and vacancies in SiC. <i>Physical Review B</i> , 2004 , 69,	3.3	23
116	Computing the Properties of Materials from First Principles with SIESTA. <i>Structure and Bonding</i> , 2004 , 103-170	0.9	96
115	Sampling the diffusion paths of a neutral vacancy in silicon with quantum mechanical calculations. <i>Physical Review B</i> , 2004 , 70,	3.3	70
114	Density functional theory calculations of quantum electron transport: carbon nanotubes-gold contacts. <i>Advances in Quantum Chemistry</i> , 2003 , 299-314	1.4	5
113	Vibrational properties of double-walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2003 ,	0	4
112	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	2.9	12
111	TransSIESTA: a spice for molecular electronics. <i>Annals of the New York Academy of Sciences</i> , 2003 , 1006, 212-26	6.5	175
110	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	3.7	39
109	Defects of the SiC/SiO2 interface: energetics of the elementary steps of the oxidation reaction. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 1069-1073	2.8	16
108	Compressibility of CO adsorbed on Ni from 10 ⁻⁸ mbar to 1.2 bar ambient CO pressures investigated with X-ray diffraction. <i>Surface Science</i> , 2003 , 522, 161-166	1.8	26
107	Specific features of the electronic structure of III-V 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	1.3	17
106	Elastic properties and pressure-induced phase transitions of single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 235, 354-359	1.3	41

105	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	3.4	110
104	First principles studies of neutral vacancies diffusion in SiC. <i>Computational Materials Science</i> , 2003 , 27, 36-42	3.2	18
103	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	3.2	425
102	Hexagonal diamond from single-walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2003 ,	0	1
101	Electrons in dry DNA from density functional calculations. <i>Molecular Physics</i> , 2003 , 101, 1587-1594	1.7	82
100	A Cause for SiC/SiO ₂ Interface States: the Site Selection of Oxygen in SiC. <i>Materials Science Forum</i> , 2003 , 433-436, 535-538	0.4	9
99	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	0.4	2
98	First-principles calculation of the band offset at BaO/BaTiO ₃ and SrO/SrTiO ₃ interfaces. <i>Physical Review B</i> , 2003 , 67,	3.3	111
97	Origin of current-induced forces in an atomic gold wire: A first-principles study. <i>Physical Review B</i> , 2003 , 67,	3.3	87
96	Aggregation of carbon interstitials in silicon carbide: A theoretical study. <i>Physical Review B</i> , 2003 , 68,	3.3	94
95	Characterization of the unoccupied and partially occupied states of TTF-TCNQ by XANES and first-principles calculations. <i>Physical Review B</i> , 2003 , 68,	3.3	50
94	First-principles characterization of the electronic structure of the molecular superconductor (BEDT-TF) ₂ IBr ₂ . <i>Physical Review B</i> , 2003 , 67,	3.3	17
93	First-principles study of n-type dopants and their clustering in SiC. <i>Applied Physics Letters</i> , 2003 , 82, 4298-4300	3.4	21
92	Molecular Dynamics Simulations of Nanotube Growth 2003 , 45-56		
91	Designed Self-Doped Titanium Oxide Thin Films for Efficient Visible-Light Photocatalysis. <i>Advanced Materials</i> , 2002 , 14, 1399-1402	2.4	412
90	Environment effects on chemical reactivity of heme proteins. <i>International Journal of Quantum Chemistry</i> , 2002 , 90, 1505-1514	2.1	23
89	The SIESTA method for ab initio order-N materials simulation. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 2745-2779	1.8	7828
88	Theoretical evidence for the kick-out mechanism for B diffusion in SiC. <i>Applied Physics Letters</i> , 2002 , 81, 2989-2991	3.4	22

87	First-principles study of the blue bronze $K_{0.3}MoO_3$. <i>Physical Review B</i> , 2002 , 65,	3.3	36
86	First-principles study of the neutral molecular metal $Ni(tmdt)_2$. <i>Physical Review B</i> , 2002 , 65,	3.3	55
85	SnO_2 : Bulk and Surface Simulations by an Ab Initio Numerical Local Orbitals Method. <i>Phase Transitions</i> , 2002 , 75, 143-149	1.3	12
84	Ab Initio Calculations of B Diffusion in SiC. <i>Materials Science Forum</i> , 2002 , 389-393, 553-556	0.4	1
83	Angle-resolved photoemission study and first-principles calculation of the electronic structure of GaTe. <i>Physical Review B</i> , 2002 , 65,	3.3	34
82	Electronic band structure of isolated and bundled carbon nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	297
81	Tight-binding description of graphene. <i>Physical Review B</i> , 2002 , 66,	3.3	761
80	Simulations of quantum transport in nanoscale systems: application to atomic gold and silver wires. <i>Nanotechnology</i> , 2002 , 13, 346-351	3.4	34
79	Ab initio calculations of the optical properties of 4- μ m diameter single-walled nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	219
78	Density-functional method for nonequilibrium electron transport. <i>Physical Review B</i> , 2002 , 65,	3.3	4039
77	Ab initio determination of the phonon deformation potentials of graphene. <i>Physical Review B</i> , 2002 , 65,	3.3	58
76	Elastic properties of carbon nanotubes under hydrostatic pressure. <i>Physical Review B</i> , 2002 , 65,	3.3	133
75	Solid phosphorus carbide?. <i>Chemical Communications</i> , 2002 , 2494-2495	5.8	15
74	Ab initio local vibrational modes of light impurities in silicon. <i>Physical Review B</i> , 2002 , 65,	3.3	50
73	Ab-Initio Calculations on the Structural and Electronic Properties of BaO/BaTiO ₃ And SrO/SrTiO ₃ Interfaces 2002 , 561-571		
72	The fascinating dynamics of defects in silicon. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 1-7	2.8	2
71	Vibrational properties of H-related defects in silicon. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 147-150	2.8	2
70	The strange behavior of interstitial H ₂ molecules in Si and GaAs. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 202-205	2.8	10

69	Copper-Defect and Copper-Impurity Interactions in Silicon. <i>Solid State Phenomena</i> , 2001 , 82-84, 341-348	0.4	10
68	Hybrid DNA-gold nanostructured materials: an ab initio approach. <i>Nanotechnology</i> , 2001 , 12, 126-131	3.4	33
67	Dynamics of interstitial hydrogen molecules in crystalline silicon. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 6271-6283	1.8	33
66	Self-interstitial hydrogen complexes in Si. <i>Physical Review B</i> , 2001 , 64,	3.3	11
65	First-principles study of the origin and nature of ferromagnetism in Ga _{1-x} Mn _x As. <i>Physical Review B</i> , 2001 , 63,	3.3	258
64	Unexpected dynamics for self-interstitial clusters in silicon. <i>Physical Review Letters</i> , 2001 , 86, 1247-50	7.4	82
63	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,	3.3	175
62	Ab initio study of silicon-multisubstituted neutral and charged fullerenes. <i>Physical Review B</i> , 2001 , 63,	3.3	61
61	Fullerene growth and the role of nonclassical isomers. <i>Physical Review B</i> , 2001 , 63,	3.3	52
60	Experimental and theoretical study of band structure of InSe and In _{1-x} Ga _x Se (x. <i>Physical Review B</i> , 2001 , 63,	3.3	64
59	Phonon eigenvectors of chiral nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	48
58	Ring closure in dioxin formation process: An ab initio molecular dynamics study. <i>Journal of Chemical Physics</i> , 2001 , 115, 6401-6405	3.9	10
57	Surface electronic structure of metastable FeSi(CsCl)(1 1 1). <i>Surface Science</i> , 2001 , 482-485, 625-631	1.8	7
56	Interplay between theory and experiment in solid state inorganic chemistry. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1-10		14
55	Linear Scaling DFT Calculations with Numerical Atomic Orbitals. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 677, 961		53
54	First Principles Electronic Structure Methods 2001 , 189-220		
53	Linear Scaling ab initio Calculations in Nanoscale Materials with SIESTA. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 217, 335-356	1.3	106
52	Seeing molecular orbitals. <i>Chemical Physics Letters</i> , 2000 , 321, 78-82	2.5	111

51	The structure and dynamics of crystalline durenene by neutron scattering and numerical modelling using density functional methods. <i>Chemical Physics</i> , 2000 , 261, 189-203	2-3	37
50	Metallic bonding and cluster structure. <i>Physical Review B</i> , 2000 , 61, 5771-5780	3-3	157
49	New Method For First Principles Modeling of Electron Transport through Nanoelectronic Devices. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 636, 9251		1
48	Tight binding molecular dynamics studies of boron assisted nanotube growth. <i>Journal of Chemical Physics</i> , 2000 , 113, 3814-3821	3-9	34
47	Electronic structure of the superconducting layered ternary nitrides CaTaN ₂ and CaNbN ₂ . <i>Physical Review B</i> , 2000 , 62, 1512-1515	3-3	11
46	Comment on "Identifying molecular orientation of individual C ₆₀ on a Si(111)-(7x7) Surface". <i>Physical Review Letters</i> , 2000 , 85, 2653	7-4	11
45	New superhard phases for three-dimensional C ₆₀ -based fullerites. <i>Physical Review Letters</i> , 2000 , 85, 2328-31	7-4	82
44	Absence of dc-conductivity in lambda-DNA. <i>Physical Review Letters</i> , 2000 , 85, 4992-5	7-4	531
43	Do thiols merely passivate gold nanoclusters?. <i>Physical Review Letters</i> , 2000 , 85, 5250-1	7-4	142
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