

Neil Allan

List of Publications by Year in descending order

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161
papers

5,556
citations

109321

35
h-index

91884

69
g-index

164
all docs

164
docs citations

164
times ranked

6069
citing authors

#	ARTICLE	IF	CITATIONS
1	Ab initio study of structural, elastic and thermodynamic properties of Fe ₃ S at high pressure: Implications for planetary cores. <i>American Mineralogist</i> , 2022, 107, 248-256.	1.9	0
2	Ab initio study of negative electron affinity on the scandium-terminated diamond (100) surface for electron emission devices. <i>Carbon</i> , 2022, 196, 176-185.	10.3	6
3	Hunting the elusive shallow n-type donor – An ab initio study of Li and N co-doped diamond. <i>Carbon</i> , 2021, 171, 857-868.	10.3	9
4	Multiple cascade radiation damage simulations of pyrochlore. <i>Molecular Simulation</i> , 2021, 47, 273-283.	2.0	2
5	Interatomic forces breaking carbon-carbon bonds. <i>Carbon</i> , 2021, 175, 420-428.	10.3	7
6	Improving Hydride Conductivity in Layered Perovskites via Crystal Engineering. <i>Chemistry of Materials</i> , 2021, 33, 177-185.	6.7	8
7	Fast-ion conduction and local environments in BIMEVOX. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200430.	3.4	5
8	Energy landscapes of perfect and defective solids: from structure prediction to ion conduction. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	1.4	5
9	Cooperative excitations in superionic PbF ₂ . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190455.	3.4	7
10	Lattice dynamics and thermodynamic properties of Y ₃ Al ₅ O ₁₂ (YAG). <i>Journal of Physics and Chemistry of Solids</i> , 2021, 162, 110512.	4.0	6
11	Predicted strong spin-phonon interactions in Li-doped diamond. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20612-20617.	2.8	5
12	GaP/ZnS Multilayer Films: Visible-Light Photoelectrodes by Interface Engineering. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3336-3342.	3.1	7
13	Lithium oxide: a quantum-corrected and classical Monte Carlo study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14964-14972.	2.8	3
14	Graphene and novel graphitic ZnO and ZnS nanofilms: the energy landscape, non-stoichiometry and water dissociation. <i>Nanoscale Advances</i> , 2019, 1, 1924-1935.	4.6	6
15	Ab initio study of negative electron affinity from light metals on the oxygen-terminated diamond (111) surface. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 295002.	1.8	10
16	Calcite/magnesite solid solutions: using genetic algorithms to understand non-ideality. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 193-202.	0.8	3
17	Mixing Thermodynamics and Photocatalytic Properties of GaP/ZnS solid solutions. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800146.	2.8	7
18	Negative electron affinity from aluminium on the diamond (100) surface: a theoretical study. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 235002.	1.8	15

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19	A theoretical study of substitutional boron-nitrogen clusters in diamond. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 425501.	1.8	10
20	Adventures in boron chemistry – the prediction of novel ultra-flexible boron oxide frameworks. <i>Faraday Discussions</i> , 2018, 211, 569-591.	3.2	5
21	Super stretchable hexagonal boron nitride Kirigami. <i>Thin Solid Films</i> , 2017, 632, 35-43.	1.8	19
22	Simulations of doped CeO ₂ at finite dopant concentrations. <i>Solid State Ionics</i> , 2017, 299, 32-37.	2.7	19
23	Piezoelectric effects in boron nitride nanotubes predicted by the atomistic finite element method and molecular mechanics. <i>Nanotechnology</i> , 2017, 28, 355705.	2.6	13
24	Perovskite solid solutions – a Monte Carlo study of the deep earth analogue (K, Na)MgF ₃ . <i>Journal of Structural Chemistry</i> , 2016, 57, 257-266.	1.0	3
25	Growth of nano-domains in Gd-CeO ₂ mixtures: hybrid Monte Carlo simulations. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4592-4602.	10.3	21
26	Light Metals on Oxygen-Terminated Diamond (100): Structure and Electronic Properties. <i>Chemistry of Materials</i> , 2015, 27, 1306-1315.	6.7	26
27	Multi-million atom Monte Carlo simulation of oxide materials and solid solutions. <i>Computational Materials Science</i> , 2015, 103, 244-249.	3.0	4
28	Three-dimensional kinetic Monte Carlo simulations of diamond chemical vapor deposition. <i>Journal of Chemical Physics</i> , 2015, 142, 214707.	3.0	26
29	Order parameter and connectivity topology analysis of crystalline ceramics for nuclear waste immobilization. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 485011.	1.8	6
30	Band Gap Modification of ZnO and ZnS through Solid Solution Formation for Applications in Photocatalysis. <i>Energy Procedia</i> , 2014, 60, 32-36.	1.8	15
31	Adaptive kinetic Monte Carlo simulation of solid oxide fuel cell components. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13407-13414.	10.3	18
32	Towards new binary compounds: Synthesis of amorphous phosphorus carbide by pulsed laser deposition. <i>Journal of Solid State Chemistry</i> , 2013, 198, 466-474.	2.9	53
33	Simulation Studies of the Phase Stability of the Ruddlesden-Popper Phases. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2316-2321.	3.8	14
34	Monte Carlo simulation and free energies of mixed oxide nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6219.	2.8	5
35	Ga-ZnS Solid Solutions: Semiconductors for Efficient Visible Light Absorption and Emission. <i>Advanced Materials</i> , 2013, 25, 2989-2993.	21.0	22
36	Ultra-Flexible Boron-Oxygen 3D Solid-State Networks. <i>Advanced Functional Materials</i> , 2013, 23, 5887-5892.	14.9	7

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37	Physisorption of molecular hydrogen in curved carbon nanomaterials: a computational study. WIT Transactions on Engineering Sciences, 2013, , .	0.0	2
38	The embedded many-body expansion for energetics of molecular crystals. Journal of Chemical Physics, 2012, 137, 164102.	3.0	102
39	Novel potentials for modelling defect formation and oxygen vacancy migration in Gd ₂ Ti ₂ O ₇ and Gd ₂ Zr ₂ O ₇ pyrochlores. Journal of Materials Chemistry, 2012, 22, 4675.	6.7	36
40	Interfacial storage of noble gases and other trace elements in magmatic systems. Earth and Planetary Science Letters, 2012, 319-320, 287-294.	4.4	21
41	Improving density functional theory for crystal polymorph energetics. Physical Chemistry Chemical Physics, 2012, 14, 7739.	2.8	32
42	Structure of Nanoclusters on Oxide Substratesâ€”Bi₂/O₃ on SrTiO₃. Nanoscience and Nanotechnology Letters, 2012, 4, 178-181.	0.4	2
43	Solvation of Ti(IV) in aqueous solution under ambient and supercritical conditions. Physical Chemistry Chemical Physics, 2011, 13, 7371.	2.8	10
44	Ternary silicon germanium nitrides: A class of tunable band gap materials. Physical Review B, 2011, 84, .	3.2	11
45	Simulations of chemical vapor deposition diamond film growth using a kinetic Monte Carlo model and two-dimensional models of microwave plasma and hot filament chemical vapor deposition reactors. Journal of Applied Physics, 2010, 108, .	2.5	20
46	Design of three-dimensional solid-state boron oxide networks: <i>ab initio</i> calculations using density functional theory. Physical Review B, 2010, 82, .	3.2	13
47	Simulations of chemical vapor deposition diamond film growth using a kinetic Monte Carlo model. Journal of Applied Physics, 2010, 108, .	2.5	33
48	Predicting crystal structures <i>ab initio</i> : group 14 nitrides and phosphides. Physical Chemistry Chemical Physics, 2010, 12, 8620.	2.8	12
49	Titanium in subduction zone fluids: First insights from <i>ab initio</i> molecular metadynamics simulations. Geochimica Et Cosmochimica Acta, 2010, 74, 2797-2810.	3.9	20
50	Oxide and halide nanoclusters on ionic substrates: heterofilm formation and lattice mismatch. Journal of Materials Chemistry, 2010, 20, 10403.	6.7	6
51	Bulk and surface energetics of crystalline lithium hydride: Benchmarks from quantum Monte Carlo and quantum chemistry. Physical Review B, 2010, 82, .	3.2	27
52	Carbon nitride: <i>ab initio</i> investigation of carbon-rich phases. Physical Review B, 2009, 80, .	3.2	48
53	Calculation of properties of crystalline lithium hydride using correlated wave function theory. Physical Review B, 2009, 80, .	3.2	66
54	Solid phases of phosphorus carbide: An <i>ab initio</i> study. Physical Review B, 2009, 79, .	3.2	37

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55	Simulations of CVD Diamond Film Growth Using a Simplified Monte Carlo Model. Materials Research Society Symposia Proceedings, 2009, 1203, 1.	0.1	1
56	QSAR using momentum-space and trivial feature count descriptors – An application to Tetrahymena pyriformis toxicity. Computational and Theoretical Chemistry, 2009, 901, 56-59.	1.5	3
57	Simplified Monte Carlo simulations of chemical vapour deposition diamond growth. Journal of Physics Condensed Matter, 2009, 21, 364203.	1.8	24
58	Molecular modelling of rare earth element complexation in subduction zone fluids. Geochimica Et Cosmochimica Acta, 2009, 73, 3934-3947.	3.9	16
59	Ultrathin oxide films and heterojunctions: CaO layers on BaO and SrO. Physical Chemistry Chemical Physics, 2009, 11, 3217.	2.8	4
60	Vibrational analysis of per-fluorinated-triamantane. Chemical Physics Letters, 2008, 460, 237-240.	2.6	2
61	Think locally – linking structure, thermodynamics and transport in grossly non-stoichiometric compounds and solid solutions. Journal of Materials Chemistry, 2008, 18, 4124.	6.7	7
62	Ultrathin oxide films: CaO layers on BaO and SrO. Materials Research Society Symposia Proceedings, 2008, 1148, 1.	0.1	1
63	A Theoretical Study of Ultra-Thin Films with the Wurtzite and Zinc Blende Structures. Materials Research Society Symposia Proceedings, 2007, 1035, 1.	0.1	0
64	Activity–composition relations in the system CaCO ₃ –MgCO ₃ predicted from static structure energy calculations and Monte Carlo simulations. Geochimica Et Cosmochimica Acta, 2007, 71, 974-983.	3.9	28
65	Modeling of Wetting: A Study of Nanowetting at Rough and Heterogeneous Surfaces. Langmuir, 2007, 23, 1187-1194.	3.5	110
66	Ba ₂ In ₂ O ₄ (OH) ₂ : Proton sites, disorder and vibrational properties. Journal of Solid State Chemistry, 2007, 180, 3388-3392.	2.9	20
67	Investigating the utility of momentum-space descriptors for predicting blood–brain barrier penetration. Journal of Molecular Graphics and Modelling, 2007, 26, 607-612.	2.4	15
68	Monte Carlo simulation of GaN/AlN and AlN/InN mixtures. Materials Chemistry and Physics, 2007, 105, 179-184.	4.0	9
69	Use of massively parallel molecular dynamics simulations for radiation damage in pyrochlores. Journal of Materials Science, 2007, 42, 1920-1930.	3.7	15
70	Graphitic Nanofilms as Precursors to Wurtzite Films: Theory. Physical Review Letters, 2006, 96, 066102.	7.8	514
71	Simulation of radiation damage in gadolinium pyrochlores. Journal of Physics Condensed Matter, 2006, 18, 2217-2234.	1.8	19
72	Raman spectroscopy of nanocrystalline diamond: Anab initioapproach. Physical Review B, 2006, 74, .	3.2	93

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73	Local cation environments in the pyrope-grossular $Mg_3Al_2Si_3O_{12}$ - $Ca_3Al_2Si_3O_{12}$ garnet solid solution. <i>Physical Review B</i> , 2006, 74, .	3.2	30
74	Simulation of thermodynamic mixing properties of garnet solid solutions at high temperatures and pressures. <i>Chemical Geology</i> , 2006, 225, 336-346.	3.3	17
75	Raman spectroscopy of diamondoids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 681-692.	3.9	64
76	Monte Carlo simulation of segregation in ceramic thin films: Comparison of the MgO/MnO {100} and {210} surfaces. <i>Journal of Crystal Growth</i> , 2006, 294, 130-136.	1.5	5
77	Thin films of wurtzite materials-AlN vs. AlP. <i>Journal of Crystal Growth</i> , 2006, 294, 111-117.	1.5	6
78	Sr and Ga substituted Ba ₂ In ₂ O ₅ : Linking ionic conductivity and the potential energy surface. <i>Solid State Ionics</i> , 2006, 177, 223-228.	2.7	16
79	Structural forms of fluorides in bone tissue of animals under chronic fluoride intoxication. <i>Journal of Structural Chemistry</i> , 2006, 47, 258-266.	1.0	12
80	Order in the disordered state: local structural entities in the fast ion conductor Ba ₂ In ₂ O ₅ . <i>Journal of Solid State Chemistry</i> , 2005, 178, 346-355.	2.9	42
81	The use of momentum-space descriptors for predicting octanol-water partition coefficients. <i>Computational and Theoretical Chemistry</i> , 2005, 727, 57-61.	1.5	14
82	Similarity in silicate chemistry: trace elements in garnet solid solutions. <i>Computational and Theoretical Chemistry</i> , 2005, 727, 199-204.	1.5	8
83	The quantitative use of momentum-space descriptors. <i>Chemical Physics Letters</i> , 2005, 416, 376-380.	2.6	6
84	Negative thermal expansion. <i>Journal of Physics Condensed Matter</i> , 2005, 17, R217-R252.	1.8	437
85	MgO addimer diffusion on MgO(100): A comparison of ab initio and empirical models. <i>Physical Review B</i> , 2005, 72, .	3.2	64
86	Topography of the Potential Energy Hypersurface and Criteria for Fast-Ion Conduction in Perovskite-Related A ₂ B ₂ O ₅ Oxides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12362-12365.	2.6	22
87	Surface diffusion and surface growth in nanofilms of mixed rocksalt oxides. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1839.	2.8	14
88	Monte Carlo simulation of segregation in ceramic thin films. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3601.	2.8	10
89	Size mismatch effects in oxide solid solutions using Monte Carlo and configurational averaging. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1127-1135.	2.8	15
90	Strikingly Long C-C Distances in 1,2-Disubstituted ortho-Carboranes and Their Dianions. <i>Journal of the American Chemical Society</i> , 2005, 127, 13538-13547.	13.7	178

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91	Monte Carlo simulation of GaN/InN mixtures. <i>Journal of Materials Chemistry</i> , 2005, 15, 785.	6.7	14
92	Growth of ZnO thin films—experiment and theory. <i>Journal of Materials Chemistry</i> , 2005, 15, 139-148.	6.7	364
93	Quasiharmonic free energy and derivatives for many-body interactions: The embedded atom method. <i>Physical Review B</i> , 2004, 69, .	3.2	6
94	Novel exchange mechanisms in the surface diffusion of oxides. <i>Journal of Physics Condensed Matter</i> , 2004, 16, L187-L192.	1.8	15
95	Collective ionic motion in oxide fast-ion-conductors. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 3052-3055.	2.8	28
96	Phosphorus carbides: theory and experiment. <i>Dalton Transactions</i> , 2004, , 3085.	3.3	75
97	Simulating surface diffusion and surface growth in ceramics. <i>Dalton Transactions</i> , 2004, , 3071.	3.3	4
98	Simulation of mineral solid solutions at zero and high pressure using lattice statics, lattice dynamics and Monte Carlo methods. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S2751-S2770.	1.8	41
99	Trace element incorporation into pyrope-grossular solid solutions: an atomistic simulation study. <i>Physics and Chemistry of Minerals</i> , 2003, 30, 217-229.	0.8	31
100	Classification of reaction pathways via momentum—space and quantum molecular similarity measures. <i>Chemical Physics Letters</i> , 2003, 367, 207-213.	2.6	12
101	Binary phosphorus-carbon compounds: The series P ₄ C ₃ +8n. <i>International Journal of Quantum Chemistry</i> , 2003, 95, 546-553.	2.0	16
102	The —zero charge™ partitioning behaviour of noble gases during mantle melting. <i>Nature</i> , 2003, 423, 738-741.	27.8	107
103	Atomistic simulation of mineral—melt trace-element partitioning. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 139, 93-111.	1.9	14
104	Atomistic simulations of trace element incorporation into the large site of MgSiO ₃ and CaSiO ₃ perovskites. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 139, 113-127.	1.9	24
105	Molecular Dynamics Study of Wetting of a Pillar Surface. <i>Langmuir</i> , 2003, 19, 7127-7129.	3.5	87
106	Structure—property relationships and momentum space quantities: Hammett — constants. <i>Molecular Physics</i> , 2003, 101, 3159-3162.	1.7	20
107	Dopant incorporation into garnet solid solutions—a breakdown of Goldschmidt's first rule Electronic supplementary information (ESI) available: (1) comparison between observed and calculated structural parameters of the end-members pyrope and grossular. (2) GULP input file for configuration 1. See http://www.rsc.org/suppdata/cc/b2/b211249c/ . <i>Chemical Communications</i> , 2003, , 786-787.	4.1	13
108	Beyond the point defect limit: solid solutions, phase diagrams and trace-element partitioning. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2190-2196.	2.8	12

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109	Order-disorder in grossly non-stoichiometric SrFeO _{2.50} a simulation study. Physical Chemistry Chemical Physics, 2003, 5, 2237-2243.	2.8	29
110	Ab initio predictions of ferroelectric ternary fluorides with the LiNbO ₃ structure. Chemical Communications, 2003, , 2440-2441.	4.1	8
111	Semigrand-canonical ensemble simulations of the phase diagrams of alloys. Modelling and Simulation in Materials Science and Engineering, 2003, 11, 115-126.	2.0	21
112	Solid phosphorus carbide?. Chemical Communications, 2002, , 2494-2495.	4.1	16
113	Displacement cascades in Gd ₂ Ti ₂ O ₇ and Gd ₂ Zr ₂ O ₇ : a molecular dynamics study. Journal of Materials Chemistry, 2002, 12, 2923-2926.	6.7	65
114	Wetting of Water and Water/Ethanol Droplets on a Non-Polar Surface: A Molecular Dynamics Study. Langmuir, 2002, 18, 10462-10466.	3.5	111
115	Ab initio calculation of phase diagrams of ceramics and minerals. Journal of Materials Chemistry, 2001, 11, 63-68.	6.7	48
116	Ab Initio Calculation of Phase Diagrams of Oxides. Journal of Physical Chemistry B, 2001, 105, 3594-3599.	2.6	39
117	Evaluation of Thermodynamic Properties of Solids by Quasiharmonic Lattice Dynamics. International Journal of Thermophysics, 2001, 22, 535-546.	2.1	11
118	Free energy of solid solutions and phase diagrams via quasiharmonic lattice dynamics. Physical Review B, 2001, 63, .	3.2	39
119	Sputtering of grains in C-type shocks. Monthly Notices of the Royal Astronomical Society, 2000, 318, 809-816.	4.4	66
120	Configurational lattice dynamics and hybrid Monte Carlo approaches to thermodynamic properties of solid solutions. Computational and Theoretical Chemistry, 2000, 506, 45-53.	1.5	4
121	Computer simulation of high-temperature, forsterite-melt partitioning. American Mineralogist, 2000, 85, 1087-1091.	1.9	29
122	Ionic solids at elevated temperatures and/or high pressures: lattice dynamics, molecular dynamics, Monte Carlo and ab initio studies. Physical Chemistry Chemical Physics, 2000, 2, 1099-1111.	2.8	26
123	Simple refinements of Brillouin zone integration. Journal of Physics Condensed Matter, 2000, 12, 549-558.	1.8	28
124	Computer simulation of water molecules at kaolinite and silica surfaces. Physical Chemistry Chemical Physics, 2000, 2, 3663-3668.	2.8	87
125	Change in the bulk modulus at the B ₁ -B ₂ phase transition. Physical Review B, 1999, 60, 2968-2971.	3.2	9
126	Thermodynamics of solid solutions VIA lattice dynamics and hybrid monte carlo simulations. Radiation Effects and Defects in Solids, 1999, 151, 197-202.	1.2	2

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127	Quasiharmonic free energy and derivatives for slabs: Oxide surfaces at elevated temperatures. <i>Physical Review B</i> , 1999, 59, 6742-6751.	3.2	35
128	Quasiharmonic free energy and derivatives for three-body interactions. <i>Physical Review B</i> , 1999, 59, 353-363.	3.2	12
129	Phase transitions in disordered solids via hybrid Monte Carlo: the orthorhombic to cubic phase transition in (Mg,Mn)SiO ₃ perovskite. <i>Chemical Communications</i> , 1999, , 707-708.	4.1	7
130	A study of the electronic, magnetic, structural and dynamic properties of low-dimensional NiO on MgO(100) surfaces. <i>Faraday Discussions</i> , 1999, 114, 105-127.	3.2	15
131	Quantum molecular similarity via momentum-space indices. <i>Journal of Mathematical Chemistry</i> , 1998, 23, 51-60.	1.5	17
132	Hybrid Monte Carlo and lattice dynamics simulations: the enthalpy of mixing of binary oxides. <i>Chemical Communications</i> , 1998, , 627-628.	4.1	15
133	Monte Carlo and Hybrid Monte Carlo/Molecular Dynamics Approaches to Order Disorder in Alloys, Oxides, and Silicates. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5202-5207.	2.6	51
134	Thermodynamics and mechanism of the B1-B2 phase transition in group-I halides and group-II oxides. <i>Physical Review B</i> , 1998, 57, 11164-11172.	3.2	87
135	Thermal expansion of polymers: Mechanisms in orthorhombic polyethylene. <i>Physical Review B</i> , 1998, 58, 8416-8427.	3.2	44
136	A first-principles Hartree-Fock description of MnO at high pressures. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1063-1075.	0.6	3
137	Ionic solids at elevated temperatures and high pressures: MgF ₂ . <i>Journal of Chemical Physics</i> , 1997, 107, 4337-4344.	3.0	41
138	Free-energy derivatives and structure optimization within quasiharmonic lattice dynamics. <i>Physical Review B</i> , 1997, 56, 14380-14390.	3.2	83
139	Impurity cations in the bulk and the {001} surface of muscovite: an atomistic simulation study. <i>Journal of Materials Chemistry</i> , 1997, 7, 1947-1951.	6.7	19
140	Free energy of formation of defects in polar solids. <i>Faraday Discussions</i> , 1997, 106, 377-387.	3.2	38
141	Potentials for B-metal compounds: The stannates ASn ₃ (A = Ca, Sr or Ba) and SnO ₂ . <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1996, 73, 33-39.	0.6	10
142	Momentum-space electron densities? localized orbitals in hydrocarbons, boranes, and transition metal complexes. <i>International Journal of Quantum Chemistry</i> , 1996, 60, 579-592.	2.0	4
143	The zero static internal stress approximation in lattice dynamics, and the calculation of isotope effects on molar volumes. <i>Journal of Chemical Physics</i> , 1996, 105, 8300-8303.	3.0	62
144	Momentum-space similarity. <i>Advances in Molecular Similarity</i> , 1996, , 61-87.	0.5	6

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145	Applications of momentum-space similarity. <i>Journal of Computer-Aided Molecular Design</i> , 1995, 9, 331-340.	2.9	20
146	Momentum-space electron densities and quantum molecular similarity. <i>Topics in Current Chemistry</i> , 1995, , 85-111.	4.0	25
147	Oxygen Interstitial Defects in High-Tc Oxides. <i>Molecular Simulation</i> , 1994, 12, 89-100.	2.0	9
148	Ab initio study of MnO and NiO. <i>Physical Review B</i> , 1994, 50, 5041-5054.	3.2	441
149	Density functional theory and interionic potentials. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 69, 871-878.	0.6	18
150	Ionic halides and oxides at high pressure: calculated Hugoniot, isotherms and thermal pressures. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 4369.	1.7	18
151	Molecular similarity of anti-HIV phospholipids. <i>Journal of the American Chemical Society</i> , 1993, 115, 12615-12616.	13.7	36
152	Differences Between High-T _c Oxides Containing Six-, Five-, Four- And Two-Fold Coordinated Copper. <i>Molecular Simulation</i> , 1992, 9, 115-128.	2.0	5
153	Polar Solids at High Pressure: NaF. <i>Molecular Simulation</i> , 1992, 9, 161-169.	2.0	10
154	Atomistic lattice simulations of the ternary fluorides AMF ₃ (A = Li, Na, K, Rb, Cs; M = Mg, Ca, Sr, Ba). <i>Journal of Materials Chemistry</i> , 1991, 1, 1035.	6.7	23
155	Oxygen ion migration in La ₂ CuO ₄ . <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991, 64, 1129-1132.	0.6	34
156	Ionic solids at high pressures and elevated temperatures: MgO (periclase). <i>Journal of Chemical Physics</i> , 1991, 95, 6792-6799.	3.0	26
157	Atomistic Simulation of High-Tc Oxides. <i>Journal of the American Ceramic Society</i> , 1990, 73, 3175-3184.	3.8	20
158	Theoretical studies of fluorocarbons. Part I. Small perfluoroalkane molecules. <i>Journal of Fluorine Chemistry</i> , 1990, 46, 317-337.	1.7	12
159	The Practical Calculation of Interionic Potentials in Solids using Electron Gas Theory. <i>Molecular Simulation</i> , 1990, 4, 269-283.	2.0	16
160	Momentum space studies of large polyenes. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1989, 85, 1519.	1.1	7
161	Momentum space properties and local density approximations in small molecules: A critical appraisal. <i>Journal of Chemical Physics</i> , 1986, 84, 5594-5605.	3.0	30