

# Stephen C Parker

## List of Publications by Year in descending order

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272  
papers

14,399  
citations

14644

66  
h-index

24961

109  
g-index

284  
all docs

284  
docs citations

284  
times ranked

13330  
citing authors

#	ARTICLE	IF	CITATIONS
1	The electronic structure of oxygen vacancy defects at the low index surfaces of ceria. <i>Surface Science</i> , 2005, 595, 223-232.	0.8	690
2	Density functional theory studies of the structure and electronic structure of pure and defective low index surfaces of ceria. <i>Surface Science</i> , 2005, 576, 217-229.	0.8	683
3	Surface Structure and Morphology of Calcium Carbonate Polymorphs Calcite, Aragonite, and Vaterite: An Atomistic Approach. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2914-2922.	1.2	492
4	Atomistic simulation of dislocations, surfaces and interfaces in MgO. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 433.	1.7	453
5	ELAM: A computer program for the analysis and representation of anisotropic elastic properties. <i>Computer Physics Communications</i> , 2010, 181, 2102-2115.	3.0	321
6	Atomistic simulation of the surface structure of the TiO <sub>2</sub> polymorphs rutile and anatase. <i>Journal of Materials Chemistry</i> , 1997, 7, 563-568.	6.7	294
7	Free Energy of Adsorption of Water and Metal Ions on the {101̄,4} Calcite Surface. <i>Journal of the American Chemical Society</i> , 2004, 126, 10152-10161.	6.6	276
8	Thermal physics of the lead chalcogenides PbS, PbSe, and PbTe from first principles. <i>Physical Review B</i> , 2014, 89, .	1.1	212
9	Modeling the Surface Structure and Stability of $\alpha$ -Quartz. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1270-1277.	1.2	211
10	Water Adsorption and Its Effect on the Stability of Low Index Stoichiometric and Reduced Surfaces of Ceria. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7073-7082.	1.5	204
11	Atomistic simulation of the effect of molecular adsorption of water on the surface structure and energies of calcite surfaces. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 467-475.	1.7	193
12	Molecular-dynamics simulation of MgO surfaces in liquid water using a shell-model potential for water. <i>Physical Review B</i> , 1998, 58, 13901-13908.	1.1	189
13	Lattice dynamics of the tin sulphides SnS <sub>2</sub> , SnS and Sn <sub>2</sub> S <sub>3</sub> : vibrational spectra and thermal transport. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12452-12465.	1.3	187
14	Rutile (̄ <sup>2</sup> -)MnO <sub>2</sub> Surfaces and Vacancy Formation for High Electrochemical and Catalytic Performance. <i>Journal of the American Chemical Society</i> , 2014, 136, 1418-1426.	6.6	186
15	: A force field database for cementitious materials including validations, applications and opportunities. <i>Cement and Concrete Research</i> , 2017, 102, 68-89.	4.6	186
16	Lithium Insertion and Transport in the TiO <sub>2</sub> Anode Material: A Computational Study. <i>Chemistry of Materials</i> , 2009, 21, 4778-4783.	3.2	169
17	Modelling of the thermal dependence of structural and elastic properties of calcite, CaCO <sub>3</sub> . <i>Physics and Chemistry of Minerals</i> , 1996, 23, 89.	0.3	166
18	Ab initio calculation of the origin of the distortion of $\alpha$ -PbO. <i>Physical Review B</i> , 1999, 59, 8481-8486.	1.1	160

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19	Oxidising CO to CO <sub>2</sub> using ceria nanoparticles. Physical Chemistry Chemical Physics, 2005, 7, 2936.	1.3	159
20	Origin of the Lone Pair of $\hat{\Gamma}_4^-$ -PbO from Density Functional Theory Calculations. Journal of Physical Chemistry B, 1999, 103, 1258-1262.	1.2	157
21	Atomistic Simulation of the Effect of Dissociative Adsorption of Water on the Surface Structure and Stability of Calcium and Magnesium Oxide. The Journal of Physical Chemistry, 1995, 99, 17219-17225.	2.9	152
22	Anharmonicity in the High-Temperature $C_2$ Phase of SnSe: Soft Modes and Three-Phonon Interactions. Physical Review Letters, 2016, 117, 075502.	1.4	47
23	Atomistic Simulation of the Dissociative Adsorption of Water on Calcite Surfaces. Journal of Physical Chemistry B, 2003, 107, 7676-7682.	1.2	141
24	Phase stability and transformations in the halide perovskite $CsSn_3$ . Physical Review B, 2015, 91, .	1.3	133
25	The lattice dynamics and thermodynamics of the Mg <sub>2</sub> SiO <sub>4</sub> polymorphs. Physics and Chemistry of Minerals, 1987, 15, 181-190.	0.3	125
26	The MD simulation of the equation of state of MgO: Application as a pressure calibration standard at high temperature and high pressure. American Mineralogist, 2000, 85, 312-316.	0.9	124
27	Surface properties of $\hat{\Gamma}_4^-$ -MnO <sub>2</sub> : relevance to catalytic and supercapacitor behaviour. Journal of Materials Chemistry A, 2014, 2, 15509-15518.	5.2	121
28	Ab initio morphology and surface thermodynamics of $\hat{\Gamma}_4^-$ -Al <sub>2</sub> O <sub>3</sub> . Physical Review B, 2004, 69, .	1.1	117
29	Reduction of NO <sub>2</sub> on Ceria Surfaces. Journal of Physical Chemistry B, 2006, 110, 2256-2262.	1.2	117
30	Computer simulations of the structural and physical properties of the olivine and spinel polymorphs of Mg <sub>2</sub> SiO <sub>4</sub> . Physics and Chemistry of Minerals, 1984, 10, 209-216.	0.3	114
31	Modelling the effect of water on the surface structure and stability of forsterite. Physics and Chemistry of Minerals, 2000, 27, 332-341.	0.3	110
32	Simulation studies of the structure and energetics of sorbed molecules in high-silica zeolites. 1. Hydrocarbons. The Journal of Physical Chemistry, 1991, 95, 4038-4044.	2.9	107
33	Surface oxygen vacancy formation on CeO <sub>2</sub> and its role in the oxidation of carbon monoxide. Journal of the Chemical Society Chemical Communications, 1992, , 977.	2.0	107
34	CeO <sub>2</sub> catalysed conversion of CO, NO <sub>2</sub> and NO from first principles energetics. Physical Chemistry Chemical Physics, 2006, 8, 216-218.	1.3	107
35	The Atomic-Level Structure of Cementitious Calcium Aluminate Silicate Hydrate. Journal of the American Chemical Society, 2020, 142, 11060-11071.	6.6	107
36	Lithium Coordination Sites in Li <sub>x</sub> TiO <sub>2</sub> (B): A Structural and Computational Study. Chemistry of Materials, 2010, 22, 6426-6432.	3.2	104

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37	Atomistic Simulation of the Surface Energy of Spinel $\text{MgAl}_2\text{O}_4$ . Journal of the American Ceramic Society, 2000, 83, 2082-2084.	1.9	101
38	Strain and Architecture-Tuned Reactivity in Ceria Nanostructures; Enhanced Catalytic Oxidation of CO to $\text{CO}_2$ . Chemistry of Materials, 2012, 24, 1811-1821.	3.2	100
39	Nanostructuring of $\text{MnO}_2$ : The Important Role of Surface to Bulk Ion Migration. Chemistry of Materials, 2013, 25, 536-541.	3.2	99
40	Structural, electronic and thermoelectric behaviour of $\text{CaMnO}_3$ and $\text{CaMnO}_3(\text{H}^+)$ . Journal of Materials Chemistry A, 2014, 2, 14109-14117.	5.2	98
41	Molecular dynamics simulations of the interactions between water and inorganic solids. Journal of Materials Chemistry, 2005, 15, 1454.	6.7	95
42	Tin Monoxide: Structural Prediction from First Principles Calculations with van der Waals Corrections. Journal of Physical Chemistry C, 2011, 115, 19916-19924.	1.5	95
43	Thermal Expansion Behavior of Zeolites and $\text{AlPO}_4$ s. The Journal of Physical Chemistry, 1995, 99, 10609-10615.	2.9	94
44	Molecular dynamics simulation of crystal dissolution from calcite steps. Physical Review B, 1999, 60, 13792-13799.	1.1	93
45	Modeling the Competitive Adsorption of Water and Methanoic Acid on Calcite and Fluorite Surfaces. Langmuir, 1998, 14, 5900-5906.	1.6	91
46	Structural characterization of amorphous alumina and its polymorphs from first-principles XPS and NMR calculations. Physical Review B, 2011, 83, .	1.1	90
47	Molecular-dynamics simulations of nickel oxide surfaces. Physical Review B, 1995, 52, 5323-5329.	1.1	86
48	Modelling the effect of water on cation exchange in zeolite A. Journal of Materials Chemistry, 2002, 12, 124-131.	6.7	84
49	Shape of $\text{CeO}_2$ nanoparticles using simulated amorphisation and recrystallisation. Chemical Communications, 2004, , 2438.	2.2	84
50	The lattice dynamics of forsterite. Mineralogical Magazine, 1987, 51, 157-170.	0.6	83
51	A rapidly-reversible absorptive and emissive vapochromic Pt(II) pincer-based chemical sensor. Nature Communications, 2017, 8, 1800.	5.8	83
52	Atomistic simulation of the surface structure of spinel. Journal of Materials Chemistry, 1994, 4, 813.	6.7	81
53	Influence of the exchange-correlation functional on the quasi-harmonic lattice dynamics of II-VI semiconductors. Journal of Chemical Physics, 2015, 143, 064710.	1.2	80
54	Particle Morphology and Lithium Segregation to Surfaces of the $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Solid Electrolyte. Chemistry of Materials, 2018, 30, 3019-3027.	3.2	80

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55	Surface-water interactions in the dolomite problem. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3217-3221.	1.3	79
56	An atomistic building block description of C-S-H - Towards a realistic C-S-H model. <i>Cement and Concrete Research</i> , 2018, 107, 221-235.	4.6	78
57	Computer simulation of the structure and stability of forsterite surfaces. <i>Physics and Chemistry of Minerals</i> , 1997, 25, 70-78.	0.3	74
58	Atomistic simulation of hydroxide ions in inorganic solids. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1996, 73, 49-58.	0.6	72
59	Modeling the Surface Structure and Reactivity of Pyrite: Introducing a Potential Model for FeS <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 2000, 104, 7969-7976.	1.2	72
60	Surface Structure of (101̄,0) and (112̄,0) Surfaces of ZnO with Density Functional Theory and Atomistic Simulation. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7985-7991.	1.2	71
61	Environment-mediated structure, surface redox activity and reactivity of ceria nanoparticles. <i>Nanoscale</i> , 2013, 5, 6063.	2.8	71
62	Computer simulation of the crystal morphology of NiO. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1993, 1, 755-760.	0.8	70
63	Simulation of the structure and stability of sphalerite (ZnS) surfaces. <i>American Mineralogist</i> , 1998, 83, 141-146.	0.9	69
64	Surface Segregation of Metal Ions in Cerium Dioxide. <i>The Journal of Physical Chemistry</i> , 1994, 98, 13625-13630.	2.9	68
65	Simulating silicate structures and the structural chemistry of pyroxenoids. <i>Nature</i> , 1982, 295, 658-662.	13.7	67
66	Free energy of adsorption of water and calcium on the {10 1? 4} calcite surface Electronic supplementary information (ESI) available: free energy calculations. See <a href="http://www.rsc.org/suppdata/cc/b3/b311928a/">http://www.rsc.org/suppdata/cc/b3/b311928a/</a> . <i>Chemical Communications</i> , 2004, , 52.	2.2	67
67	DL_MONTE: a general purpose program for parallel Monte Carlo simulation. <i>Molecular Simulation</i> , 2013, 39, 1240-1252.	0.9	66
68	Computer simulation of the surface structures of WO <sub>3</sub> . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 2049.	1.7	65
69	Effect of Chemisorption and Physisorption of Water on the Surface Structure and Stability of alpha-Alumina. <i>Journal of the American Ceramic Society</i> , 1999, 82, 3209-2316.	1.9	63
70	Growth modification of seeded calcite using carboxylic acids: Atomistic simulations. <i>Journal of Colloid and Interface Science</i> , 2010, 346, 226-231.	5.0	63
71	Atomistic simulation of oxide surfaces and their reactivity with water. <i>Faraday Discussions</i> , 1999, 114, 381-393.	1.6	62
72	Computer simulation of thin film heteroepitaxial ceramic interfaces using a near-coincidence-site lattice theory. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993, 68, 565-573.	0.7	61

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73	Particle shapes and surface structures of olivine $\text{NaFePO}_4$ in comparison to $\text{LiFePO}_4$ . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21788-21794.	1.3	61
74	Computer modelling of inorganic solids and surfaces. <i>Faraday Discussions</i> , 1993, 95, 75.	1.6	60
75	Molecular dynamics simulations of the interaction between the surfaces of polar solids and aqueous solutions. <i>Journal of Materials Chemistry</i> , 2006, 16, 1997.	6.7	60
76	Atomistic simulation of the free energies of dissolution of ions from flat and stepped calcite surfaces. <i>Journal of Crystal Growth</i> , 2006, 294, 103-110.	0.7	60
77	Atomistic simulation of adsorption of water on three-, four- and five-coordinated surface sites of magnesium oxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 2081.	1.7	58
78	Experimental verification of a predicted negative thermal expansivity of crystalline zeolites. <i>Journal of Physics Condensed Matter</i> , 1993, 5, L329-L332.	0.7	57
79	Electronic structure of the antiferromagnetic $B1$ -structured $\text{FeO}$ . <i>Physical Review B</i> , 2004, 70, .	1.1	57
80	Modeling absorption and segregation of magnesium and cadmium ions to calcite surfaces: Introducing $\text{MgCO}_3$ and $\text{CdCO}_3$ potential models. <i>Journal of Chemical Physics</i> , 2000, 112, 4326-4333.	1.2	55
81	Molecular Dynamics Simulations of Electrolyte Solutions at the (100) Goethite Surface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20491-20501.	1.2	54
82	Cationic Surface Reconstructions on Cerium Oxide Nanocrystals: An Aberration-Corrected HRTEM Study. <i>ACS Nano</i> , 2012, 6, 421-430.	7.3	53
83	Structure prediction of silicate minerals using energy-minimization techniques. <i>Acta Crystallographica Section B: Structural Science</i> , 1984, 40, 200-208.	1.8	49
84	Toward Modeling Clay Mineral Nanoparticles: The Edge Surfaces of Pyrophyllite and Their Interaction with Water. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27308-27317.	1.5	48
85	Atomistic investigation of the structure and transport properties of tilt grain boundaries of $\text{UO}_2$ . <i>Journal of Nuclear Materials</i> , 2015, 458, 45-55.	1.3	48
86	Water Adsorption on $\text{AnO}_2$ {111}, {110}, and {100} Surfaces (An = U and Pu): A Density Functional Theory + <i>U</i> Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1675-1682.	1.5	48
87	Vibrational properties of CO on ceria surfaces. <i>Surface Science</i> , 2006, 600, 175-178.	0.8	46
88	Sorptive Characteristics of Organomontmorillonite toward Organic Compounds: A Combined LFERs and Molecular Dynamics Simulation Study. <i>Environmental Science &amp; Technology</i> , 2011, 45, 6504-6510.	4.6	46
89	Ionic conductivity in nano-scale $\text{CeO}_2/\text{YSZ}$ heterolayers. <i>Journal of Materials Chemistry</i> , 2006, 16, 1067.	6.7	45
90	Elucidating the nature of grain boundary resistance in lithium lanthanum titanate. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6487-6498.	5.2	44

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91	Surface Structures and Oxygen Hole Formation on the La <sub>2</sub> O <sub>3</sub> Catalyst. A Computer Simulation Study. The Journal of Physical Chemistry, 1994, 98, 9637-9641.	2.9	43
92	Vacancy migration at the {410}/[001] symmetric tilt grain boundary of MgO: An atomistic simulation study. Physical Review B, 1997, 56, 11477-11484.	1.1	43
93	Proton-containing defects at forsterite {010} tilt grain boundaries and stepped surfaces. American Mineralogist, 2000, 85, 1143-1154.	0.9	43
94	Structure of Zeolite A (LTA) Surfaces and the Zeolite A/Water Interface. Journal of Physical Chemistry C, 2010, 114, 9739-9747.	1.5	43
95	Concurrent La and A-Site Vacancy Doping Modulates the Thermoelectric Response of SrTiO <sub>3</sub> : Experimental and Computational Evidence. ACS Applied Materials & Interfaces, 2017, 9, 41988-42000.	4.0	43
96	Predicting the influence of growth additives on the morphology of ionic crystals. Journal of the Chemical Society Chemical Communications, 1991, , 1494.	2.0	42
97	Free Energy Change of Aggregation of Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 14731-14736.	1.5	42
98	Mechanical properties of ceria nanorods and nanochains; the effect of dislocations, grain-boundaries and oriented attachment. Nanoscale, 2011, 3, 1823.	2.8	42
99	Ab Initio Investigation of the UO <sub>3</sub> Polymorphs: Structural Properties and Thermodynamic Stability. Inorganic Chemistry, 2014, 53, 12253-12264.	1.9	40
100	Free-energy calculations of thermodynamic, vibrational, elastic, and structural properties of $\hat{\pm}$ -quartz at variable pressures and temperatures. Physical Review B, 1996, 54, 826-835.	1.1	38
101	<sc>Group Status and Entrepreneurship</sc>. Journal of Economics and Management Strategy, 2010, 19, 919-945.	0.4	38
102	Impurity segregation to the surfaces of corundum-structured oxides. Journal of the Chemical Society, Faraday Transactions 2, 1989, 85, 555.	1.1	37
103	Crystal structure and thermoelectric properties of Sr <sup>2+</sup> Mo substituted CaMnO <sub>3</sub> : a combined experimental and computational study. Journal of Materials Chemistry C, 2015, 3, 12245-12259.	2.7	37
104	Computer simulation of defect clusters in UO <sub>2</sub> and their dependence on composition. Journal of Nuclear Materials, 2015, 456, 329-333.	1.3	37
105	Oxygen vacancy diffusion in alumina: New atomistic simulation methods applied to an old problem. Acta Materialia, 2009, 57, 4765-4772.	3.8	36
106	The Structure and Dynamics of Hydrated and Hydroxylated Magnesium Oxide Nanoparticles. Langmuir, 2011, 27, 1821-1829.	1.6	36
107	Dynamical instabilities in $\hat{\pm}$ -quartz and $\hat{\pm}$ -berlinite: A mechanism for amorphization. Physical Review B, 1995, 52, 13306-13309.	1.1	35
108	Density functional theory investigation of the layered uranium oxides U <sub>3</sub> O <sub>8</sub> and U <sub>2</sub> O <sub>5</sub> . Dalton Transactions, 2015, 44, 2613-2622.	1.6	35

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109	Ab Initio Surface Phase Diagram of the {101̄,4} Calcite Surface. Journal of Physical Chemistry B, 2005, 109, 18211-18213.	1.2	34
110	Atomistic simulation of the effect of temperature and pressure on the [001] symmetric tilt grain boundaries of MgO. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 74, 407-418.	0.7	33
111	Computer modelling of metal - oxide interfaces. Journal of Physics Condensed Matter, 1997, 9, 5709-5717.	0.7	33
112	Atomistic simulation of charged iron oxyhydroxide surfaces in contact with aqueous solution. Chemical Communications, 2005, , 3027.	2.2	33
113	Atomistic Modeling of Multilayered Ceria Nanotubes. Nano Letters, 2007, 7, 543-546.	4.5	33
114	A Raman spectroscopic study of uranyl minerals from Cornwall, UK. RSC Advances, 2014, 4, 59137-59149.	1.7	33
115	The Shape of TiO <sub>2</sub> -B Nanoparticles. Journal of the American Chemical Society, 2014, 136, 6306-6312.	6.6	33
116	Tuning Thermoelectric Properties of Misfit Layered Cobaltites by Chemically Induced Strain. Journal of Physical Chemistry C, 2015, 119, 21818-21827.	1.5	33
117	Atomistic simulation of the surface structure of electrolytic manganese dioxide. Surface Science, 2009, 603, 3184-3190.	0.8	32
118	Defect chemistry of Ti and Fe impurities and aggregates in Al <sub>2</sub> O <sub>3</sub> . Journal of Materials Chemistry A, 2014, 2, 6198-6208.	5.2	32
119	Atomistic simulation of screw dislocations in rock salt structured materials. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 527-536.	0.7	31
120	Negative compressibility in platinum sulfide using density-functional theory. Physical Review B, 2010, 81, .	1.1	31
121	Morphology and Surface Analysis of Pure and Doped Cuboidal Ceria Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 24561-24569.	1.5	31
122	Atomistic simulation of mineral surfaces: Studies of surface stability and growth. Phase Transitions, 1997, 61, 83-107.	0.6	30
123	Atomistic simulation of the effects of calcium and strontium defects on the surface structure and stability of BaSO <sub>4</sub> . Journal of the Chemical Society, Faraday Transactions, 1998, 94, 1947-1952.	1.7	30
124	Atomistic simulation studies of magnetite surface structures and adsorption behavior in the presence of molecular and dissociated water and formic acid. Journal of Colloid and Interface Science, 2006, 295, 364-373.	5.0	30
125	Atomistic Simulation of the Surface Carbonation of Calcium and Magnesium Oxide Surfaces. Journal of Physical Chemistry C, 2009, 113, 8320-8328.	1.5	30
126	Comparison of atomistic simulations and pseudopotential calculations of the MgO{100}/Ag{100} and MgO{110}/Ag{110} interfaces. Journal of Chemical Physics, 1999, 110, 8090-8097.	1.2	29



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127	Modelling inorganic solids and their interfaces: A combined approach of atomistic and electronic structure simulation techniques. <i>Faraday Discussions</i> , 2003, 124, 155.	1.6	29
128	Atomistic Simulation of Y <sup>3+</sup> -Doped $\gamma$ -Alumina Interfaces. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3643-3651.	1.9	29
129	A computer simulation of the structure and elastic properties of MgSiO <sub>3</sub> perovskite. <i>Mineralogical Magazine</i> , 1986, 50, 693-707.	0.6	28
130	Atomistic Modeling Study of Surface Segregation in Nd:YAG. <i>Journal of the American Ceramic Society</i> , 2006, 89, 3812-3816.	1.9	28
131	Living in the salt-cocrystal continuum: indecisive organic complexes with thermochromic behaviour. <i>CrystEngComm</i> , 2019, 21, 1626-1634.	1.3	28
132	Computer Simulation of Surface Segregation. <i>Molecular Simulation</i> , 1992, 9, 83-98.	0.9	27
133	The energetics of polytypic structures: a computer simulation of magnesium silicate spinelloids. <i>Acta Crystallographica Section B: Structural Science</i> , 1985, 41, 231-239.	1.8	26
134	Dopant control over the crystal morphology of ceramic materials. <i>Surface Science</i> , 2007, 601, 4793-4800.	0.8	26
135	Strongly Bound Surface Water Affects the Shape Evolution of Cerium Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3577-3588.	1.5	26
136	Molecular dynamics simulation of fluoride-perovskites. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 2097-2108.	0.7	25
137	Computer simulation of general grain boundaries in rocksalt oxides. <i>Physical Review B</i> , 1999, 60, 2740-2746.	1.1	25
138	Computer-Aided Design of Nanoceria Structures as Enzyme Mimetic Agents: The Role of Bodily Electrolytes on Maximizing Their Activity. <i>ACS Applied Bio Materials</i> , 2019, 2, 1098-1106.	2.3	25
139	Atomistic simulation methodologies for modelling the nucleation, growth and structure of interfaces. <i>Journal of Materials Chemistry</i> , 2000, 10, 1315-1324.	6.7	24
140	Atomistic simulation of the structure and segregation to the (0001) and surfaces of Fe <sub>2</sub> O <sub>3</sub> . <i>Physics and Chemistry of Minerals</i> , 2004, 31, 507-517.	0.3	24
141	Oxygen transport in unreduced, reduced and Rh(III)-doped CeO <sub>2</sub> nanocrystals. <i>Faraday Discussions</i> , 2007, 134, 377-397.	1.6	24
142	Modelling the effects of surfactant loading level on the sorption of organic contaminants on organoclays. <i>RSC Advances</i> , 2015, 5, 47022-47030.	1.7	24
143	Elastic and nonlinear acoustic properties of the terbium iron garnet Tb <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> in relation to those of other garnets. <i>Physical Review B</i> , 1992, 46, 8756-8767.	1.1	22
144	Atomistic simulation of the surface structure of wollastonite and adsorption phenomena relevant to flotation. <i>International Journal of Mineral Processing</i> , 2003, 72, 111-127.	2.6	22

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145	Computer aided design of nano-structured materials with tailored ionic conductivities. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 16.	1.3	22
146	Atomistic modelling of adsorption and segregation at inorganic solid interfaces. <i>Molecular Simulation</i> , 2009, 35, 584-608.	0.9	22
147	Atomistic Modeling of the Sorption Free Energy of Dioxins at Clay-Water Interfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24975-24984.	1.5	22
148	Role of Structure and Defect Chemistry in High-Performance Thermoelectric Bismuth Strontium Cobalt Oxides. <i>Chemistry of Materials</i> , 2016, 28, 7470-7478.	3.2	22
149	Industrial Applications of Simulation Studies in Solid State Chemistry. <i>Molecular Simulation</i> , 1989, 3, 49-69.	0.9	21
150	Quartz amorphization: A dynamical instability. <i>Philosophical Magazine Letters</i> , 1995, 71, 59-64.	0.5	21
151	Atomistic Simulation of Surface Selectivity on Carbonate Formation at Calcium and Magnesium Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13240-13251.	1.5	21
152	Study of surfaces and morphologies of proteic sol-gel derived barium aluminate nanopowders: An experimental and computational study. <i>Materials Chemistry and Physics</i> , 2012, 136, 1052-1059.	2.0	21
153	Microscopic origin of the optical processes in blue sapphire. <i>Chemical Communications</i> , 2013, 49, 5259.	2.2	21
154	Some Observations on the Role of Dopants in Phase Transitions in Zirconia from Atomistic Simulations. <i>Journal of the American Ceramic Society</i> , 1990, 73, 3220-3224.	1.9	20
155	Atomistic simulation of the surface structure of wollastonite. <i>Chemical Physics Letters</i> , 2003, 377, 81-92.	1.2	20
156	Simulation of the Adsorption and Transport of CO <sub>2</sub> on Faujasite Surfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21778-21787.	1.5	20
157	Effect of defects on the stability of heteroepitaxial ceramic interfaces studied by computer simulation. <i>Physical Review B</i> , 1994, 50, 14498-14505.	1.1	19
158	Atomistic Modeling of Gibbsite: $\text{Al}^{3+}$ Cation Incorporation. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5099-5105.	1.2	19
159	Application of molecular dynamics DL_POLY codes to interfaces of inorganic materials. <i>Molecular Simulation</i> , 2006, 32, 1079-1093.	0.9	19
160	Surface and Mirror Twin Grain Boundary Segregation in Nd:YAG: An Atomistic Simulation Study. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2698-2705.	1.9	19
161	Energy Minimization of Single-Walled Titanium Oxide Nanotubes. <i>ACS Nano</i> , 2009, 3, 3401-3412.	7.3	19
162	Lithium migration at low concentration in TiO <sub>2</sub> polymorphs. <i>Computational and Theoretical Chemistry</i> , 2015, 1072, 43-51.	1.1	19

#	ARTICLE	IF	CITATIONS
163	DL_MONTE: a multipurpose code for Monte Carlo simulation. <i>Molecular Simulation</i> , 2021, 47, 131-151.	0.9	19
164	Effect of Lattice Relaxation on Cation Exchange in Zeolite A Using Computer Simulation. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9964-9972.	1.2	18
165	Atomistic simulation of crystal growth at the $\sim 100\%$ screw dislocation terminating at the {100} surface of MgO. <i>Surface Science</i> , 2001, 474, L185-L190.	0.8	18
166	Computer Simulation of Dissociative Adsorption of Water on the Surfaces of Spinel $\text{MgAl}_2\text{O}_4$ . <i>Journal of the American Ceramic Society</i> , 2001, 84, 1553-1558.	1.9	17
167	Crystal morphology and surface structures of orthorhombic $\text{MgSiO}_3$ perovskite. <i>Physics and Chemistry of Minerals</i> , 2005, 31, 671-682.	0.3	17
168	Competitive Adsorption on Wollastonite: An Atomistic Simulation Approach. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11286-11295.	1.2	17
169	Hydride ion formation in stoichiometric $\text{UO}_2$ . <i>Chemical Communications</i> , 2015, 51, 16209-16212.	2.2	17
170	$\text{Ba}_6\text{Nd}_8\text{Ti}_{18}\text{O}_{54}$ Tungsten Bronze: A New High-Temperature n-Type Oxide Thermoelectric. <i>Journal of Electronic Materials</i> , 2016, 45, 1894-1899.	1.0	17
171	The critical role of hydrogen on the stability of oxy-hydroxyl defect clusters in uranium oxide. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11362-11369.	5.2	17
172	Accuracy of Hybrid Functionals with Non-Self-Consistent Kohn-Sham Orbitals for Predicting the Properties of Semiconductors. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3543-3557.	2.3	17
173	Information on catalyst surface structure from crystallite morphologies observed by scanning electron microscopy (SEM). <i>Catalysis Letters</i> , 1992, 15, 123-131.	1.4	16
174	High-temperature structure and dynamics of coesite ( $\text{SiO}_2$ ) from numerical simulations. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 569-579.	0.3	16
175	Electrostatic versus polarization effects in the adsorption of aromatic molecules of varied polarity on an insulating hydrophobic surface. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 035215.	0.7	16
176	Density functional theory calculations of defective $\text{UO}_2$ at $\text{U}_3\text{O}_7$ stoichiometry. <i>Journal of Nuclear Materials</i> , 2015, 467, 724-729.	1.3	16
177	Energetics, thermal isomerisation and photochemistry of the linkage-isomer system $[\text{Ni}(\text{Et}_4\text{dien})(\text{I}^{\text{sup}2}\text{-O,ON})(\text{I}^{\text{sup}1}\text{-NO}_2)]$ . <i>CrystEngComm</i> , 2015, 17, 383-394.	1.3	16
178	Nanostructuring perovskite oxides: the impact of $\text{SrTiO}_3$ nanocube 3D self-assembly on thermal conductivity. <i>RSC Advances</i> , 2016, 6, 114069-114077.	1.7	16
179	Carbonation of Hydrous Materials at the Molecular Level: A Time of Flight-Secondary Ion Mass Spectrometry, Raman and Density Functional Theory Study. <i>Crystal Growth and Design</i> , 2017, 17, 1036-1044.	1.4	16
180	Structure and Properties of Some Layered $\text{U}_2\text{O}_5$ Phases: A Density Functional Theory Study. <i>Inorganic Chemistry</i> , 2017, 56, 4468-4473.	1.9	16

#	ARTICLE	IF	CITATIONS
181	Atomistic simulation of the effect of temperature and pressure on point defect formation in MgSiO <sub>3</sub> perovskite and the stability of CaSiO <sub>3</sub> perovskite. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 8427-8438.	0.7	15
182	Synthesis, structure and ionic conductivity in nanopolycrystalline BaF <sub>2</sub> /CaF <sub>2</sub> heterolayers Electronic supplementary information (ESI) available: potential parameters and pertinent calculated physical properties for the perfect BaF <sub>2</sub> and CaF <sub>2</sub> . See <a href="http://www.rsc.org/suppdata/cc/b3/b305393h/">http://www.rsc.org/suppdata/cc/b3/b305393h/</a> . <i>Chemical Communications</i> , 2003, , 1804.	2.2	15
183	Modeling the Interaction of Nanoparticles with Mineral Surfaces: Adsorbed C <sub>60</sub> on Pyrophyllite. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6602-6611.	1.1	15
184	Quantifying the impact of disorder on Li-ion and Na-ion transport in perovskite titanate solid electrolytes for solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19603-19611.	5.2	15
185	Computer simulation of dissociative adsorption of water on CaO and MgO surfaces and the relation to dissolution. <i>Research on Chemical Intermediates</i> , 1999, 25, 195-211.	1.3	14
186	Atomistic Simulation of Mineral Surfaces. <i>Molecular Simulation</i> , 2000, 24, 71-86.	0.9	14
187	Calculating the vibrational thermodynamic properties of bulk oxides using lattice dynamics and molecular dynamics. <i>Physical Review B</i> , 2003, 67, .	1.1	14
188	Encapsulated Oxide Nanoparticles: The Influence of the Microstructure on Associated Impurities within a Material. <i>Journal of the American Chemical Society</i> , 2003, 125, 8581-8588.	6.6	14
189	High-Temperature Thermoelectric Properties of (1-x) SrTiO <sub>3</sub> -(x) La <sub>1/3</sub> NbO <sub>3</sub> Ceramic Solid Solution. <i>Journal of Electronic Materials</i> , 2015, 44, 1803-1808.	1.0	14
190	Structural, Electronic, and Transport Properties of Hybrid SrTiO <sub>3</sub> -Graphene and Carbon Nanoribbon Interfaces. <i>Chemistry of Materials</i> , 2017, 29, 7364-7370.	3.2	14
191	The impact of tilt grain boundaries on the thermal transport in perovskite SrTiO <sub>3</sub> layered nanostructures. A computational study. <i>Nanoscale</i> , 2018, 10, 15010-15022.	2.8	14
192	Unraveling the Impact of Graphene Addition to Thermoelectric SrTiO <sub>3</sub> and La-Doped SrTiO <sub>3</sub> Materials: A Density Functional Theory Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 41303-41314.	4.0	14
193	Comparative Study of Oxygen Diffusion in Polyethylene Terephthalate and Polyethylene Furanoate Using Molecular Modeling: Computational Insights into the Mechanism for Gas Transport in Bulk Polymer Systems. <i>Macromolecules</i> , 2022, 55, 498-510.	2.2	14
194	The effect of pressure on Schottky pair formation in MgO: A lattice dynamical approach. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991, 64, 1133-1144.	0.7	13
195	Computer simulation of pressure-induced structural transitions in MgO [001] tilt grain boundaries. <i>American Mineralogist</i> , 1999, 84, 138-143.	0.9	13
196	Atomistic simulation studies on the effect of pressure on diffusion at the MgO 410/[001] tilt grain boundary. <i>Physical Review B</i> , 2001, 64, .	1.1	13
197	Electron hopping rate measurements in ITO junctions: Charge diffusion in a layer-by-layer deposited ruthenium(II)-bis(benzimidazolyl)pyridine-phosphonate-TiO <sub>2</sub> film. <i>Journal of Electroanalytical Chemistry</i> , 2011, 657, 196-201.	1.9	13
198	Thermodynamic Evolution of Cerium Oxide Nanoparticle Morphology Using Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23210-23220.	1.5	13

#	ARTICLE	IF	CITATIONS
199	Accommodation of the misfit strain energy in the BaO(100)/MgO(100) heteroepitaxial ceramic interface using computer simulation techniques. <i>Journal of Materials Chemistry</i> , 1994, 4, 1883.	6.7	12
200	Molecular dynamics simulations of the incorporation of Mg <sup>2+</sup> , Cd <sup>2+</sup> and Sr <sup>2+</sup> at calcite growth steps: Introduction of a SrCO <sub>3</sub> potential model. <i>Molecular Simulation</i> , 2002, 28, 573-589.	0.9	12
201	Defect segregation facilitates oxygen transport at fluorite UO <sub>2</sub> grain boundaries. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190026.	1.6	12
202	The role of dopant segregation on the oxygen vacancy distribution and oxygen diffusion in CeO <sub>2</sub> grain boundaries*. <i>JPhys Energy</i> , 2019, 1, 042005.	2.3	12
203	The usefulness of molecular-dynamics simulations in clarifying the activation enthalpy of oxygen-vacancy migration in the perovskite oxide BaTiO <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5413-5417.	1.3	12
204	Temperature dependence of the acoustic-mode vibrational anharmonicity of quartz from 243 to 393 K. <i>Physical Review B</i> , 1992, 45, 10242-10254.	1.1	11
205	Self diffusion of argon in flexible, single wall, carbon nanotubes. <i>Molecular Simulation</i> , 2005, 31, 385-389.	0.9	11
206	A Giant Reconstruction of Î±-quartz (0001) Interpreted as Three Domains of Nano Dauphine Twins. <i>Scientific Reports</i> , 2015, 5, 14545.	1.6	11
207	Electronic excitations in molecular solids: bridging theory and experiment. <i>Faraday Discussions</i> , 2015, 177, 181-202.	1.6	11
208	Thermodynamics, Electronic Structure, and Vibrational Properties of Snn(S1â€“xSex)m Solid Solutions for Energy Applications. <i>Chemistry of Materials</i> , 2019, 31, 3672-3685.	3.2	11
209	Bacteriophage M13 Aggregation on a Microhole Poly(ethylene terephthalate) Substrate Produces an Anionic Current Rectifier: Sensitivity toward Anionic versus Cationic Guests. <i>ACS Applied Bio Materials</i> , 2020, 3, 512-521.	2.3	11
210	Use of Interplay between Aâ€“Site Nonâ€“Stoichiometry and Hydroxide Doping to Deliver Novel Protonâ€“Conducting Perovskite Oxides. <i>Advanced Energy Materials</i> , 2021, 11, 2101337.	10.2	11
211	The Computer Simulation of the Lattice Dynamics of Silicates. , 1988, , 591-618.		11
212	Interfacial Electron-Shuttling Processes across KolliphorEL Monolayer Grafted Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 15458-15465.	4.0	10
213	From HADES to PARADISEâ€“atomistic simulation of defects in minerals. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S2735-S2749.	0.7	9
214	Toward Knowledgeâ€“Based Grainâ€“Boundary Engineering of Transparent Alumina Combining Advanced <sc>TEM</sc> and Atomistic Modeling. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1959-1964.	1.9	9
215	Prospects for Engineering Thermoelectric Properties in La<sub>1/3</sub>NbO<sub>3</sub> Ceramics Revealed via Atomic-Level Characterization and Modeling. <i>Inorganic Chemistry</i> , 2018, 57, 45-55.	1.9	9
216	Assessing molecular simulation for the analysis of lipid monolayer reflectometry. <i>Journal of Physics Communications</i> , 2019, 3, 075001.	0.5	9

#	ARTICLE	IF	CITATIONS
217	Bayesian determination of the effect of a deep eutectic solvent on the structure of lipid monolayers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6133-6141.	1.3	9
218	Structural dynamics of Schottky and Frenkel defects in ThO <sub>2</sub> : a density-functional theory study. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1861-1875.	5.2	9
219	Alkaline Earth Impurity Segregation at the Basal {0001} and Prism {10 $\bar{1}$ 0} Surfaces of $\hat{\Gamma}$ -Al <sub>2</sub> O <sub>3</sub> . <i>Molecular Simulation</i> , 1989, 4, 175-185.	0.9	8
220	A Study of Thin Film YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.5</sub> /MgO Interfaces Using a Near Coincidence Site Lattice Theory with Atomistic Simulation. <i>Molecular Simulation</i> , 1994, 12, 127-139.	0.9	8
221	Low-energy surface phonons on $\hat{\Gamma}$ -quartz (0001). <i>Physical Review B</i> , 2008, 78, .	1.1	8
222	eScience for molecular-scale simulations and the <i>Minerals</i> project. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 967-985.	1.6	8
223	An experimental and computational study to resolve the composition of dolomitic lime. <i>RSC Advances</i> , 2016, 6, 16066-16072.	1.7	8
224	The energetics of carbonated PuO <sub>2</sub> surfaces affects nanoparticle morphology: a DFT+ <i>U</i> study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7728-7737.	1.3	8
225	Surface chemistry and porosity engineering through etching reveal ultrafast oxygen reduction kinetics below 400 $\hat{\text{A}}$ C in B-site exposed (La,Sr)(Co,Fe)O <sub>3</sub> thin-films. <i>Journal of Power Sources</i> , 2022, 523, 230983.	4.0	8
226	Calculated defect formation energies as a function of distance from the BaO/MgO interface compared with image theory predictions. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994, 69, 787-792.	0.7	7
227	Atomistic simulation of oxide dislocations and interfaces. <i>Radiation Effects and Defects in Solids</i> , 1999, 151, 185-195.	0.4	7
228	surfipy: A Surface Phase Diagram Generator. <i>Journal of Open Source Software</i> , 2019, 4, 1210.	2.0	7
229	Computer simulation of the oxygen mobility in CaMnO <sub>3-x</sub> . <i>Phase Transitions</i> , 1995, 55, 229-244.	0.6	6
230	Atomistic simulation of the effect of impurities on vacancy migration at the {4 1 0}/[0 0 1] tilt grain boundary of MgO. <i>Physics and Chemistry of Minerals</i> , 1999, 27, 133-137.	0.3	6
231	3. Application of Lattice Dynamics and Molecular Dynamics Techniques to Minerals and Their Surfaces. , 2001, , 63-82.		6
232	Crystal morphology and surface structures of orthorhombic MgSiO <sub>3</sub> in the presence of divalent impurity ions. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 379-387.	0.3	6
233	Observation of a re-entrant phase transition in the molecular complex tris(1 $\bar{4}$ -3,5-diisopropyl-1,2,4-triazolato- $\hat{\text{P}}$ <sup>2-</sup> <i>N</i> <sup>1-</sup> <sup>2-</sup> ) <i>rigold</i> ( $\hat{\text{P}}$ <sup>1-</sup> ) <sub>2</sub> under high pressure. <i>IUCr</i> , 2016, 3, 367-376.		6
234	Temperature dependence of the static dielectric constant of naturally occurring monocrystalline forsterite. <i>Journal of Materials Science Letters</i> , 1988, 7, 415-416.	0.5	5

#	ARTICLE	IF	CITATIONS
235	Application of Lattice Dynamics and Molecular Dynamics Techniques to Minerals and Their Surfaces. Reviews in Mineralogy and Geochemistry, 2001, 42, 63-82.	2.2	5
236	Metal oxide encapsulated nanoparticles. Journal of Materials Chemistry, 2003, 13, 2078.	6.7	5
237	Monte Carlo simulation and free energies of mixed oxide nanoparticles. Physical Chemistry Chemical Physics, 2013, 15, 6219.	1.3	5
238	Prediction of mineral structure by energy minimisation techniques. Journal of the Chemical Society Chemical Communications, 1983, , 936.	2.0	4
239	Protons in oxides. Radiation Effects and Defects in Solids, 1995, 134, 57-64.	0.4	4
240	TheeMinerals collaboratory: tools and experience. Molecular Simulation, 2005, 31, 329-337.	0.9	4
241	Simulating silicate structures and structural chemistry of pyroxenoids (reply). Nature, 1982, 300, 199-199.	13.7	3
242	Calculated surface properties of La <sub>2</sub> CuO <sub>4</sub> : implications for high-T <sub>c</sub> behavior. Journal of Physics Condensed Matter, 1989, 1, SB119-SB122.	0.7	3
243	Simulations of surfaces and interfaces in MgO. Radiation Effects and Defects in Solids, 1999, 151, 299-304.	0.4	3
244	Density functional theory calculations of proton-containing defects in forsterite. Radiation Effects and Defects in Solids, 2001, 154, 255-259.	0.4	3
245	Atomistic Simulation of the Surface Energy and Structure of the Clean and Hydrated Surfaces of Spinel MgAl <sub>2</sub> O <sub>4</sub> . Key Engineering Materials, 2001, 206-213, 543-546.	0.4	3
246	Mechanical properties of mesoporous ceria nanoarchitectures. Physical Chemistry Chemical Physics, 2014, 16, 24899-24912.	1.3	3
247	Combined EXAFS and ab initio study of copper complex geometries adsorbed on natural illite. Applied Clay Science, 2018, 152, 73-82.	2.6	3
248	Impact of Hydrogen on the Intermediate Oxygen Clusters and Diffusion in Fluorite Structured UO <sub>2+x</sub> . Inorganic Chemistry, 2019, 58, 3774-3779.	1.9	3
249	Molecular simulation of hydrogen storage and transport in cellulose. Molecular Simulation, 2021, 47, 170-179.	0.9	3
250	An introduction to classical molecular dynamics simulation for experimental scattering users. Journal of Applied Crystallography, 2019, 52, 665-668.	1.9	3
251	Modeling Dynamic Properties of Mineral Surfaces. ACS Symposium Series, 2001, , 97-112.	0.5	2
252	Molecular Simulation of Mineral Surfaces and the Role of Impurities on Surface Stability. AIP Conference Proceedings, 2007, , .	0.3	2

#	ARTICLE	IF	CITATIONS
253	Computer Modelling of the Structure and Thermodynamic Properties of Silicate Minerals. , 1990, , 405-429.		2
254	Atomistic Simulation of Mineral Surfaces and Interfaces. , 1999, , 629-653.		2
255	Recent Advances in Computational Studies of Zeolites. Topics in Inclusion Science, 1992, , 137-185.	0.5	2
256	pylj: A teaching tool for classical atomistic simulation. The Journal of Open Source Education, 2018, 1, 19.	0.2	2
257	Investigating Surface Properties and Lithium Diffusion in Brookite-TiO <sub>2</sub> . Journal of the Brazilian Chemical Society, 0, , .	0.6	2
258	Calculations of the radial seismic velocity/density ratio for MgO and MgSiO <sub>3</sub> perovskite at high pressure. Geophysical Research Letters, 1991, 18, 2185-2188.	1.5	1
259	Computer Modelling of Elastic Properties of LaF <sub>3</sub> Using Free Energy Minimisation Techniques. Molecular Simulation, 1992, 8, 345-350.	0.9	1
260	Lattice-dynamical study of the structure and elasticity of dodecasil-3Cat elevated temperatures. Physical Review B, 1996, 53, 14073-14079.	1.1	1
261	Computer Simulation of Interfaces in Ceramics. Materials Research Society Symposia Proceedings, 1997, 492, 85.	0.1	1
262	Structure and stability of iron oxide surfaces and their reactivity with water. Radiation Effects and Defects in Solids, 2001, 156, 75-79.	0.4	1
263	Modelling Inorganic Solids and Their Interfaces: A Combined Approach of Atomistic and Electronic Structure Simulation Techniques. ChemInform, 2004, 35, no.	0.1	1
264	Information Delivery in Computational Mineral Science: The eMinerals Data Handling System. , 2006, , .		1
265	Partially Anion-Ordered Cerium Niobium Oxynitride Perovskite Phase with a Small Band Gap. Chemistry of Materials, 2021, 33, 4045-4056.	3.2	1
266	Atomistic simulation of screw dislocations in rock salt structured materials. , 0, .		1
267	SurfinPy 2.0: A Phase Diagram Generator for Surfaces and Bulk Phases. Journal of Open Source Software, 2022, 7, 4014.	2.0	1
268	Atomic Structure of Low-Index CeO <sub>2</sub> Surfaces. , 0, , 237-240.		0
269	Computer simulations of the structural and physical properties of the polymorphs of Mg <sub>2</sub> SiO <sub>4</sub> . Acta Crystallographica Section A: Foundations and Advances, 1984, 40, C254-C254.	0.3	0
270	Computer Modelling of Oxygen Mobility at Ceria Surfaces and the Construction of Ceria Nanotube Models. Advances in Science and Technology, 2006, 46, 48.	0.2	0



#	ARTICLE	IF	CITATIONS
271	Atomic-scale characterization of thermoelectric oxides using high spatial and energy resolution STEM-EELS. <i>Microscopy and Microanalysis</i> , 2017, 23, 370-371.	0.2	0
272	Atomic-Level Characterization of Thermoelectric La <sub>1/3</sub> NbO <sub>3</sub> . <i>Microscopy and Microanalysis</i> , 2018, 24, 1534-1535.	0.2	0