

# Susan B Sinnott

## 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.

272  
papers

12,501  
citations

53  
h-index

103  
g-index

290  
ext. papers

13,574  
ext. citations

4.3  
avg, IF

6.44  
L-index

#	Paper	IF	Citations
272	Surface reconstruction of oxidized platinum nanoparticles using classical molecular dynamics simulations. <i>Computational Materials Science</i> , <b>2022</b> , 209, 111364	3.2	0
271	Single-Step Direct Laser Writing of Multimetal Oxygen Evolution Catalysts from Liquid Precursors. <i>ACS Nano</i> , <b>2021</b> , 15, 9796-9807	16.7	4
270	The influence of alloying on the stacking fault energy of gold from density functional theory calculations. <i>Computational Materials Science</i> , <b>2021</b> , 188, 110236	3.2	3
269	Optimized utilization of COMB3 reactive potentials in LAMMPS. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 224702	3.9	3
268	Multiscale computational understanding and growth of 2D materials: a review. <i>Npj Computational Materials</i> , <b>2020</b> , 6,	10.9	49
267	Influence of phase and interface properties on the stress state dependent fracture initiation behavior in DP steels through computational modeling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 776, 138981	5.3	5
266	Effects of surface charge and cluster size on the electrochemical dissolution of platinum nanoparticles using COMB3 and continuum electrolyte models. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 064102	3.9	1
265	Density Functional Theory Study of Epitaxially Strained Monolayer Transition Metal Chalcogenides for Piezoelectricity Generation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 384-390	5.6	7
264	Superconductivity enhancement in phase-engineered molybdenum carbide/disulfide vertical heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 19685-19693	11.5	4
263	Carbon doping of WS monolayers: Bandgap reduction and p-type doping transport. <i>Science Advances</i> , <b>2019</b> , 5, eaav5003	14.3	70
262	Large tetragonality and room temperature ferroelectricity in compressively strained CaTiO <sub>3</sub> thin films. <i>APL Materials</i> , <b>2019</b> , 7, 051104	5.7	5
261	Multi-Step Topochemical Pathway to Metastable MoAlB and Related Two-Dimensional Nanosheet Heterostructures. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10852-10861	16.4	43
260	Effects of water on the mechanical properties of silica glass using molecular dynamics. <i>Acta Materialia</i> , <b>2019</b> , 178, 36-44	8.4	12
259	Data-driven glass/ceramic science research: Insights from the glass and ceramic and data science/informatics communities. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 6385-6406	3.8	12
258	The structure of graphene on graphene/C/Cu interfaces: a molecular dynamics study. <i>Nanotechnology</i> , <b>2019</b> , 30, 505707	3.4	5
257	Dynamics of graphene/Al interfaces using COMB3 potentials. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	2
256	Predicting the Electrochemical Synthesis of 2D Materials from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 3180-3187	3.8	18

255	Charge Optimized Many Body (COMB) potentials for simulation of nuclear fuel and clad. <i>Computational Materials Science</i> , <b>2018</b> , 148, 231-241	3.2	14
254	Titanium-Carbide Formation at Defective Curved Graphene-Titanium Interfaces. <i>MRS Advances</i> , <b>2018</b> , 3, 457-462	0.7	4
253	Applied Potentials in Variable-Charge Reactive Force Fields for Electrochemical Systems. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 631-638	2.8	11
252	Strain effects on domain structures in ferroelectric thin films from phase-field simulations. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 4783-4790	3.8	6
251	Molecular Simulation of Capture of Sulfur-Containing Gases by Porous Aromatic Frameworks. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 18456-18467	3.8	15
250	Development of a ReaxFF Reactive Force Field for NaSiOx/Water Systems and Its Application to Sodium and Proton Self-Diffusion. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 19613-19624	3.8	41
249	High-throughput density functional calculations to optimize properties and interfacial chemistry of piezoelectric materials. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	1
248	Discovering chemical site occupancy- modulus correlations in Ni based intermetallics via statistical learning methods. <i>Computational Condensed Matter</i> , <b>2018</b> , 14, 8-14	1.7	1
247	Three-dimensional atomic scale electron density reconstruction of octahedral tilt epitaxy in functional perovskites. <i>Nature Communications</i> , <b>2018</b> , 9, 5220	17.4	18
246	Transformation of 2D group-III selenides to ultra-thin nitrides: enabling epitaxy on amorphous substrates. <i>Nanotechnology</i> , <b>2018</b> , 29, 47LT02	3.4	6
245	Nanoscale Structure and Dynamics of Water on Pt and Cu Surfaces from MD Simulations. <i>Langmuir</i> , <b>2018</b> , 34, 11905-11911	4	10
244	Nanoindentation of ZrO2 and ZrO2/Zr systems by molecular dynamics simulation. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 486, 250-266	3.3	15
243	Topology-Scaling Identification of Layered Solids and Stable Exfoliated 2D Materials. <i>Physical Review Letters</i> , <b>2017</b> , 118, 106101	7.4	193
242	Adhesion and diffusion at TiN/TiO2 interfaces: A first principles study. <i>Computational Materials Science</i> , <b>2017</b> , 130, 249-256	3.2	11
241	Charge optimized many body (COMB) potentials for Pt and Au. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 225901	1.8	9
240	On the Multiple Event Detection in Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 618-619	0.5	11
239	Computational Study of Low Interlayer Friction in TiC (n = 1, 2, and 3) MXene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34467-34479	9.5	62
238	Graphene-Titanium Interfaces from Molecular Dynamics Simulations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33288-33297	9.5	27

237	Two-Dimensional Intrinsic Half-Metals With Large Spin Gaps. <i>Nano Letters</i> , <b>2017</b> , 17, 5251-5257	11.5	111
236	A third-generation charge optimized many body (COMB3) potential for nitrogen-containing organic molecules. <i>Computational Materials Science</i> , <b>2017</b> , 139, 153-161	3.2	7
235	Computer Simulations of Nanometer-Scale Indentation and Friction. <i>Springer Handbooks</i> , <b>2017</b> , 1013-1067		
234	Computational investigation on CO <sub>2</sub> adsorption in titanium carbide-derived carbons with residual titanium. <i>Carbon</i> , <b>2017</b> , 111, 741-751	10.4	9
233	Computer Simulations of Nanometer-Scale Indentation and Friction <b>2017</b> , 301-370		1
232	Computational discovery of stable M <sub>2</sub> AX phases. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	50
231	MPInterfaces: A Materials Project based Python tool for high-throughput computational screening of interfacial systems. <i>Computational Materials Science</i> , <b>2016</b> , 122, 183-190	3.2	72
230	Behavior of molecules and molecular ions near a field emitter. <i>New Journal of Physics</i> , <b>2016</b> , 18, 033031	2.9	104
229	Dynamical properties of AlN nanostructures and heterogeneous interfaces predicted using COMB potentials. <i>Computational Materials Science</i> , <b>2016</b> , 113, 80-87	3.2	13
228	Probing the accuracy of reactive and non-reactive force fields to describe physical and chemical properties of graphene-oxide. <i>Computational Materials Science</i> , <b>2016</b> , 114, 236-243	3.2	19
227	Lattice expansion by intrinsic defects in uranium by molecular dynamics simulation. <i>Journal of Nuclear Materials</i> , <b>2016</b> , 475, 6-18	3.3	8
226	Potential Optimization Software for Materials (POSMat). <i>Computer Physics Communications</i> , <b>2016</b> , 203, 201-211	4.2	11
225	Predicted Surface Composition and Thermodynamic Stability of MXenes in Solution. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 3550-3556	3.8	143
224	Nanoindentation of gold and gold alloys by molecular dynamics simulation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 651, 346-357	5.3	39
223	Thermal transport at (001) twist grain boundaries in UO <sub>2</sub> . <i>Journal of Nuclear Materials</i> , <b>2016</b> , 479, 167-173	3.3	5
222	Role of composition and structure on the properties of metal/multifunctional ceramic interfaces. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 045310	2.5	6
221	Computational characterization of lightweight multilayer MXene Li-ion battery anodes. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 023901	3.4	66
220	Computational discovery and characterization of polymorphic two-dimensional IV-V materials. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 192103	3.4	41

219	Diffusion Across M/Pb(Zr,Ti)O <sub>3</sub> Interfaces (M=Pt3Pb or Pt) Under Different System Conditions. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 356-362	3.8	2
218	Properties of Ti/TiC Interfaces from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 12530-12538	3.8	21
217	Effect of Surface Chemistry on Water Interaction with Cu(111). <i>Langmuir</i> , <b>2016</b> , 32, 8061-70	4	13
216	Charge optimized many-body (COMB) potential for dynamical simulation of Ni-Al phases. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 336302	1.8	4
215	Charge optimized many-body (COMB) potential for Al <sub>2</sub> O <sub>3</sub> materials, interfaces, and nanostructures. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 305004	1.8	7
214	Effect of Temperature on the Friction and Wear of PTFE by Atomic-Level Simulation. <i>Tribology Letters</i> , <b>2015</b> , 58, 1	2.8	23
213	Deformation processes in polycrystalline Zr by molecular dynamics simulations. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 462, 147-159	3.3	21
212	Nanoindentation of Zr by molecular dynamics simulation. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 467, 742-753	3.3	22
211	Anisotropy in oxidation of zirconium surfaces from density functional theory calculations. <i>Computational Materials Science</i> , <b>2015</b> , 98, 112-116	3.2	13
210	Effect of pores and He bubbles on the thermal transport properties of UO <sub>2</sub> by molecular dynamics simulation. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 456, 253-259	3.3	23
209	Mapping Chemical Selection Pathways for Designing Multicomponent Alloys: an informatics framework for materials design. <i>Scientific Reports</i> , <b>2015</b> , 5, 17960	4.9	20
208	Direct Observation of Chemical Pressure in Intermetallic Alloys by Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1519-1520	0.5	
207	Computational discovery of lanthanide doped and Co-doped Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> for optoelectronic applications. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 112109	3.4	9
206	Combined Experimental and Computational Methods Reveal the Evolution of Buried Interfaces during Synthesis of Ferroelectric Thin Films. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1500181	4.6	11
205	Charge optimized many-body potential for aluminum. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 015003	1.8	5
204	An ab initio investigation of the effect of alloying elements on the elastic properties and magnetic behavior of Ni <sub>3</sub> Al. <i>Computational Materials Science</i> , <b>2015</b> , 101, 39-46	3.2	22
203	Molecular dynamics simulations of CO <sub>2</sub> reduction on Cu(111) and Cu/ZnO(10 10) using charge optimized many body potentials. <i>Catalysis Communications</i> , <b>2014</b> , 52, 84-87	3.2	21
202	Cu cluster deposition on ZnO(1010): Morphology and growth mode predicted from molecular dynamics simulations. <i>Surface Science</i> , <b>2014</b> , 621, 109-116	1.8	16

201	A charge optimized many-body potential for titanium nitride (TiN). <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 265004	1.8	8
200	Synthesis, Characterization, and Computation of Catalysts at the Center for Atomic-Level Catalyst Design. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 20043-20069	3.8	17
199	Defect Engineering of BiI3 Single Crystals: Enhanced Electrical and Radiation Performance for Room Temperature Gamma-Ray Detection. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3244-3250	3.8	59
198	A Mechanism for TiO2 Formation on Stepped TiN(001) from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 384-388	3.8	7
197	A charge optimized many-body (COMB) potential for titanium and titania. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 315007	1.8	20
196	Interaction between voids and grain boundaries in UO2 by molecular-dynamics simulation. <i>Journal of Nuclear Materials</i> , <b>2014</b> , 448, 53-61	3.3	7
195	Mechanisms of Zr surface corrosion determined via molecular dynamics simulations with charge-optimized many-body (COMB) potentials. <i>Journal of Nuclear Materials</i> , <b>2014</b> , 452, 285-295	3.3	22
194	Direct Lattice Parameter Measurements Using HAADF-STEM. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1050-1051	0.5	
193	Role of cyberinfrastructure in educating the next generation of computational materials scientists. <i>Integrating Materials and Manufacturing Innovation</i> , <b>2014</b> , 3, 85-89	2.9	
192	Classical atomistic simulations of surfaces and heterogeneous interfaces with the charge-optimized many body (COMB) potentials. <i>Materials Science and Engineering Reports</i> , <b>2013</b> , 74, 255-279	30.9	167
191	Growth and Structure of Cu and Au on the Nonpolar ZnO(101 0) Surface: STM, XPS, and DFT Studies. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 18386-18397	3.8	24
190	Surface diffusion on SrTiO3 (100): A temperature accelerated dynamics and first principles study. <i>Surface Science</i> , <b>2013</b> , 617, 237-241	1.8	9
189	Fitting empirical potentials: Challenges and methodologies. <i>Current Opinion in Solid State and Materials Science</i> , <b>2013</b> , 17, 263-270	12	39
188	Mechanisms for hyperthermal polyatomic hydrocarbon modification of PMMA surfaces from molecular dynamics simulations. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 061403	2.9	
187	NSF cyberinfrastructures: A new paradigm for advancing materials simulation. <i>Current Opinion in Solid State and Materials Science</i> , <b>2013</b> , 17, 298-304	12	25
186	Effects of edge dislocations on thermal transport in UO2. <i>Journal of Nuclear Materials</i> , <b>2013</b> , 434, 203-209	3.3	38
185	Charge-optimized many-body (COMB) potential for zirconium. <i>Journal of Nuclear Materials</i> , <b>2013</b> , 441, 274-279	3.3	20
184	Role of electronic effects on the incorporation of Cr at a $\Sigma$ grain boundary in UO2. <i>Computational Materials Science</i> , <b>2013</b> , 78, 29-33	3.2	2

183	Segregation of ruthenium to edge dislocations in uranium dioxide. <i>Journal of Nuclear Materials</i> , <b>2013</b> , 441, 96-102	3.3	8
182	Atomic-Scale Quantification of the Chemical Modification of Polystyrene through S, SC, and SH Deposition from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 12103-12110	3.8	1
181	Reactive Potentials for Advanced Atomistic Simulations. <i>Annual Review of Materials Research</i> , <b>2013</b> , 43, 109-129	12.8	147
180	A charge-optimized many-body potential for the U-UO <sub>2</sub> -O <sub>2</sub> system. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 505401	1.8	15
179	Structural effects on mechanical response of MoS <sub>2</sub> nanostructures during compression. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 034308	2.5	7
178	The role of charge and ionic radius on fission product segregation to a model UO <sub>2</sub> grain boundary. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 134902	2.5	19
177	Material design and discovery with computational materials science. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 050812	2.9	12
176	Computational investigation of the mechanical and tribological responses of amorphous carbon nanoparticles. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 073509	2.5	4
175	Design of Low Wear Polymer Composites. <i>Tribology Letters</i> , <b>2012</b> , 45, 79-87	2.8	7
174	Variable charge many-body interatomic potentials. <i>MRS Bulletin</i> , <b>2012</b> , 37, 504-512	3.2	48
173	Primary radiation defect production in polyethylene and cellulose. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 13932-8	3.4	18
172	Acetylene Ion Enhanced Bonding of PbS Nanoparticles to Quaterthiophene in Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21693-21698	3.8	3
171	Variable charge reactive potential for hydrocarbons to simulate organic-copper interactions. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 7976-91	2.8	76
170	Atomistic simulations of the adsorption and migration barriers of Cu adatoms on ZnO surfaces using COMB potentials. <i>Surface Science</i> , <b>2012</b> , 606, 1280-1288	1.8	26
169	Critical assessment of UO <sub>2</sub> classical potentials for thermal conductivity calculations. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 7693-7702	4.3	46
168	Molecular dynamics investigation of the lubrication mechanism of carbon nano-onions. <i>Computational Materials Science</i> , <b>2012</b> , 54, 91-96	3.2	33
167	Three decades of many-body potentials in materials research. <i>MRS Bulletin</i> , <b>2012</b> , 37, 469-473	3.2	39
166	Mechanical behavior of MoS <sub>2</sub> nanotubes under compression, tension, and torsion from molecular dynamics simulations. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 123510	2.5	36

165	Lubrication mechanisms of hollow-core inorganic fullerene-like nanoparticles: coupling experimental and computational works. <i>Nanotechnology</i> , <b>2012</b> , 23, 375701	3.4	38
164	Solubility and clustering of ruthenium fission products in uranium dioxide as determined by density functional theory. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	13
163	Hyperthermal Atomic Oxygen and Argon Modification of Polymer Surfaces Investigated by Molecular Dynamics Simulations. <i>Plasma Processes and Polymers</i> , <b>2012</b> , 9, 690-700	3.4	8
162	Classical interatomic potential for orthorhombic uranium. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 235403	1.8	14
161	Friction and Wear of Pyrophyllite on the Atomic Scale. <i>Tribology Letters</i> , <b>2012</b> , 46, 159-165	2.8	7
160	Data-Driven Model for Estimation of Friction Coefficient Via Informatics Methods. <i>Tribology Letters</i> , <b>2012</b> , 47, 211-221	2.8	23
159	Predicted mechanical properties of a coiled carbon nanotube. <i>Carbon</i> , <b>2012</b> , 50, 968-976	10.4	35
158	Computer Simulations of Nanometer-Scale Indentation and Friction <b>2011</b> , 439-525		4
157	Molecular dynamics study of the adhesion of Cu/SiO <sub>2</sub> interfaces using a variable-charge interatomic potential. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	42
156	Stoichiometry of the LaFeO <sub>3</sub> (010) surface determined from first-principles and thermodynamic calculations. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	29
155	Segregation of xenon to dislocations and grain boundaries in uranium dioxide. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	46
154	Atomistic simulations of copper oxidation and Cu/Cu <sub>2</sub> O interfaces using charge-optimized many-body potentials. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	59
153	Grain Boundaries in Uranium Dioxide: Scanning Electron Microscopy Experiments and Atomistic Simulations. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1893-1900	3.8	66
152	Stabilization Mechanisms of LaFeO <sub>3</sub> (010) Surfaces Determined with First Principles Calculations. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1931-1939	3.8	13
151	Reparameterization of the REBO-CHO potential for graphene oxide molecular dynamics simulations. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	29
150	Effect of inversion on thermoelastic and thermal transport properties of MgAl <sub>2</sub> O <sub>4</sub> spinel by atomistic simulation. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 55-62	4.3	21
149	Influence of the Molecular Level Structure of Polyethylene and Polytetrafluoroethylene on Their Tribological Response. <i>Tribology Letters</i> , <b>2011</b> , 42, 193-201	2.8	20
148	Mechanisms of Ion-Beam Modification of Terthiophene Oligomers from Atomistic Simulations. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 23936-23945	3.8	5



147	Effect of fluorocarbon molecules confined between sliding self-mated PTFE surfaces. <i>Langmuir</i> , <b>2011</b> , 27, 9910-9	4	7
146	Energetics of Oxidation in MoS <sub>2</sub> Nanoparticles by Density Functional Theory. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 10606-10616	3.8	42
145	Modeling reaction pathways of low energy particle deposition on polymer surfaces via first principle calculations. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 4976-87	2.8	1
144	Modeling reaction pathways of low energy particle deposition on thiophene via ab initio calculations. <i>Chemical Physics Letters</i> , <b>2011</b> , 510, 197-201	2.5	2
143	Structure and energetics of 180° domain walls in PbTiO <sub>3</sub> by density functional theory. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 175902	1.8	37
142	Zhao et al. Reply:. <i>Physical Review Letters</i> , <b>2010</b> , 105,	7.4	1
141	Molecular dynamics simulations of SrTiO <sub>3</sub> thin-film growth from cluster deposition. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 045001	1.8	4
140	Multilevel Computational Analysis of Fluorocarbon Polyatomic Deposition on Diamond. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 12535-12544	3.8	2
139	Publisher's Note: Second-generation charge-optimized many-body potential for Si/SiO <sub>2</sub> and amorphous silica [Phys. Rev. B 82, 235302 (2010)]. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	3
138	Intrinsic electrostatic effects in nanostructured ceramics. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	20
137	Charge-optimized many-body potential for the hafnium/hafnium oxide system. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	109
136	Second-generation charge-optimized many-body potential for Si/SiO <sub>2</sub> and amorphous silica. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	79
135	Structure and diffusion of intrinsic defect complexes in LiNbO <sub>3</sub> from density functional theory calculations. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 135002	1.8	30
134	Computer Simulations of Nanometer-Scale Indentation and Friction <b>2010</b> , 955-1011		2
133	Stability and charge transfer levels of extrinsic defects in LiNbO <sub>3</sub> . <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	38
132	Interactions of Defects and Domain Walls in LiNbO <sub>3</sub> —Insights from Simulations. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2010</b> , 15, 012003	0.4	2
131	Effect of ionic polarizability on oxygen diffusion in Bi <sub>2</sub> O <sub>3</sub> from atomistic simulation. <i>Ionics</i> , <b>2010</b> , 16, 297-303	2.7	19
130	Friction Properties of Carbon Nano-Onions from Experiment and Computer Simulations. <i>Tribology Letters</i> , <b>2010</b> , 37, 75-81	2.8	64

129	Nanoindentation of surfactant aggregates. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 349, 196-204	9.3	3
128	Amorphization of $\beta$ -quartz and comparative study of defects in amorphized quartz and Si nanocrystals embedded in amorphous silica. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2010</b> , 268, 3095-3098	1.2	1
127	A critical assessment of interatomic potentials for ceria with application to its elastic properties. <i>Solid State Ionics</i> , <b>2010</b> , 181, 551-556	3.3	39
126	Unique buckling responses of multi-walled carbon nanotubes incorporated as torsion springs. <i>Carbon</i> , <b>2010</b> , 48, 1697-1701	10.4	16
125	Atomic-Scale Simulations of the Mechanical Behavior of Carbon Nanotube Systems. <i>Challenges and Advances in Computational Chemistry and Physics</i> , <b>2010</b> , 255-295	0.7	2
124	A torsional parametric oscillator based on carbon nanotubes. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 083112	3.4	9
123	Structure and energetics of Er defects in LiNbO <sub>3</sub> from first-principles and thermodynamic calculations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	33
122	Transition from thermal to athermal friction under cryogenic conditions. <i>Physical Review Letters</i> , <b>2009</b> , 102, 186102	7.4	58
121	Publisher's Note: Mixed Bloch-Néel-Ising character of 180° ferroelectric domain walls [Phys. Rev. B 80, 060102 (2009)]. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	14
120	Mixed Bloch-Néel-Ising character of 180° ferroelectric domain walls. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	121
119	A computational study of SrTiO <sub>3</sub> thin film deposition: Morphology and growth modes. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 1994-2000	2.5	2
118	Computational and experimental studies of phase separation in pentacene:C <sub>60</sub> mixtures. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2009</b> , 27, 169		19
117	The effect of normal load on polytetrafluoroethylene tribology. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 144201	1.8	25
116	Piecewise-stationary bandit problems with side observations <b>2009</b> ,		18
115	Morphology and growth modes of metal-oxides deposited on SrTiO <sub>3</sub> . <i>Surface Science</i> , <b>2009</b> , 603, 873-880	0.8	11
114	Thermal Transport in Off-Stoichiometric Uranium Dioxide by Atomic Level Simulation. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 850-856	3.8	47
113	Modification of poly(methyl methacrylate) by keV Ar deposition. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 2525-2531	1.2	9
112	Energetics of intrinsic point defects in uranium dioxide from electronic-structure calculations. <i>Journal of Nuclear Materials</i> , <b>2009</b> , 384, 61-69	3.3	118

111	Structure of Bi <sub>2</sub> O <sub>3</sub> from density functional theory: A systematic crystallographic analysis. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 1222-1228	3.3	14
110	Energetics of charged point defects in rutile TiO <sub>2</sub> by density functional theory. <i>Acta Materialia</i> , <b>2009</b> , 57, 5882-5891	8.4	29
109	Chemical Modification of Polypropylene and Polystyrene through Fluorocarbon Ion Beam Deposition. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17860-17865	3.8	2
108	Parametrization of a reactive many-body potential for MoB systems. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	198
107	Thermodynamics of fission products in UO <sub>2-x</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 435602	1.8	45
106	Materials science. Simulating multifunctional structures. <i>Science</i> , <b>2009</b> , 325, 1634-5	33.3	32
105	Computational investigation of the mechanical properties of nanomaterials. <i>Diamond and Related Materials</i> , <b>2009</b> , 18, 438-442	3.5	6
104	Toward an Atomistically Informed Fuel Performance Code: Thermal Properties Using FRAPCON and Molecular Dynamics Simulation. <i>Nuclear Technology</i> , <b>2009</b> , 165, 308-312	1.4	6
103	Stability of intrinsic defects and defect clusters in LiNbO <sub>3</sub> from density functional theory calculations. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	96
102	Coupling of surface relaxation and polarization in PbTiO <sub>3</sub> from atomistic simulation. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 395004	1.8	11
101	Integrating experimental and simulation length and time scales in mechanistic studies of friction. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 354012	1.8	7
100	Tuning the torsional properties of carbon nanotube systems with axial prestress. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 253114	3.4	20
99	First-principles determination of static potential energy surfaces for atomic friction in MoS <sub>2</sub> and MoO <sub>3</sub> . <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	89
98	Effect of the sliding orientation on the tribological properties of polyethylene in molecular dynamics simulations. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 083502	2.5	29
97	Thermal transport properties of uranium dioxide by molecular dynamics simulations. <i>Journal of Nuclear Materials</i> , <b>2008</b> , 375, 388-396	3.3	81
96	Ar beam modification of nanotube based composites using molecular dynamics simulations. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 2049-2055	8.6	22
95	Vacancy-Ordered Structure of Cubic Bismuth Oxide from Simulation and Crystallographic Analysis. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 2349-2356	3.8	36
94	Computer Simulations of Nanometer-Scale Indentation and Friction <b>2008</b> , 655-740		

93	Effect of molecular interactions on carbon nanotube friction. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 064307	2.2	22
92	Ab initio molecular dynamics study of methanol adsorption on copper clusters. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 441-9	2.8	25
91	Charge optimized many-body potential for the Si/SiO <sub>2</sub> system. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	132
90	Multiscale-failure criteria of carbon nanotube systems under biaxial tension/torsion. <i>Nanotechnology</i> , <b>2007</b> , 18, 485715	3.4	11
89	Mechanistic Studies of Surface Polymerization by Ion-Assisted Deposition. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 4199-4208	3.8	12
88	Investigation of the influence of thermostat configurations on the mechanical properties of carbon nanotubes in molecular dynamics simulations. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 1518-24	1.3	26
87	Prediction of high-temperature point defect formation in TiO <sub>2</sub> from combined ab initio and thermodynamic calculations. <i>Acta Materialia</i> , <b>2007</b> , 55, 4325-4337	8.4	101
86	Combined computational and experimental study of Ar beam induced defect formation in graphite. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 262, 240-248	1.2	30
85	Computational study of steric effects on the optical properties of oligomers. <i>Journal of Luminescence</i> , <b>2007</b> , 126, 278-288	3.8	3
84	Effect of simulation conditions on friction in polytetrafluoroethylene (PTFE). <i>Journal of Computer-Aided Materials Design</i> , <b>2007</b> , 14, 239-246		10
83	Tensile mechanical behavior of hollow and filled carbon nanotubes under tension or combined tension-torsion. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 023102	3.4	70
82	Elastic torsional responses of carbon nanotube systems. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 084309	2.5	70
81	Sliding orientation effects on the tribological properties of polytetrafluoroethylene. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 123509	2.5	43
80	Interatomic potential for the structure and energetics of tetrahedrally coordinated silica polymorphs. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	9
79	Chemical modification of the poly(vinylidene fluoride-trifluoroethylene) copolymer surface through fluorocarbon ion beam deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2007</b> , 25, 1084-1092	2.9	4
78	Atomic-Level Simulation of Ferroelectricity in Oxides: Current Status and Opportunities. <i>Annual Review of Materials Research</i> , <b>2007</b> , 37, 239-270	12.8	27
77	Torsional stiffening of carbon nanotube systems. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 093102	3.4	36
76	Computer Simulations of Nanometer-Scale Indentation and Friction <b>2007</b> , 1051-1106		7

75	Comparison of morphology and mechanical properties of surfactant aggregates at water-silica and water-graphite interfaces from molecular dynamics simulations. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 296, 342-9	9.3	28
74	Charged Defect Formation Energies in TiO <sub>2</sub> Using the Supercell Approximation. <i>Advances in Science and Technology</i> , <b>2006</b> , 45, 1-8	0.1	6
73	Morphology of Polythiophene Films Produced via Surface Polymerization by Ion-Assisted Deposition: A Combined Experimental and Computational Study. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 937, 1		1
72	Carbon nanotubes as nanoelectromechanical systems components <b>2006</b> , 361-488		1
71	Relative stabilities of Ag multilayers on GaAs and GaSb determined from ab initio calculations. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	1
70	Ion separation using a Y-junction carbon nanotube. <i>Nanotechnology</i> , <b>2006</b> , 17, 895-900	3.4	91
69	Molecular dynamics simulations of electron and ion beam irradiation of multiwalled carbon nanotubes: The effects on failure by inner tube sliding. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	47
68	Computational Investigation of the Chemical Modification of Polystyrene through Fluorocarbon and Hydrocarbon Ion Beam Deposition. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 914-921	9.6	12
67	Ion deposition induced modification of carbon nanopeapods: A computational study. <i>Chemical Physics Letters</i> , <b>2006</b> , 422, 137-141	2.5	7
66	Equilibrium and nonequilibrium transport of oxygen in carbon nanotubes. <i>Nano Letters</i> , <b>2005</b> , 5, 793-8	11.5	36
65	Deflection of nanotubes in response to external atomic collisions. <i>Nano Letters</i> , <b>2005</b> , 5, 263-8	11.5	15
64	Morphology and mechanical properties of surfactant aggregates at water-silica interfaces: molecular dynamics simulations. <i>Langmuir</i> , <b>2005</b> , 21, 5337-42	4	30
63	Ab Initio Calculations of Intrinsic Defects in Rutile TiO <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 737-741	3.8	30
62	Frictional anisotropy of oriented carbon nanotube surfaces. <i>Tribology Letters</i> , <b>2005</b> , 18, 59-62	2.8	124
61	Effect of filling on the compressibility of carbon nanotubes: predictions from molecular dynamics simulations. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 536-41	1.3	27
60	Comparison of CH <sub>4</sub> and 2 Transport Through Opened Carbon Nanotubes: Predictions from Molecular Dynamics Simulations. <i>International Journal for Multiscale Computational Engineering</i> , <b>2005</b> , 3, 379-391	2.4	2
59	Computational Modeling of Nanometer-Scale Tribology <b>2005</b> , 623-691		8
58	Localization and quantization in covalently bonded carbon nanotube junctions. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	13

57	Building a better unit cell: application to the Ag(111)/GaAs(110) system. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 4661-4676	1.8	2
56	A reactive empirical bond order (REBO) potential for hydrocarbon-oxygen interactions. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 7261-7275	1.8	83
55	Constant temperature molecular dynamics simulations of energetic particle-solid collisions: comparison of temperature control methods. <i>Journal of Computational Physics</i> , <b>2004</b> , 200, 251-266	4.1	35
54	Interaction of functionalized benzene molecules with carbon nanopores. <i>Chemical Physics Letters</i> , <b>2004</b> , 389, 96-100	2.5	14
53	Molecular dynamics simulations of polyatomic-ion beam deposition-induced chemical modification of carbon nanotube/polymer composites. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 719		29
52	Dependence of plasma-induced modification of polymer surfaces on polyatomic ion chemistry. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5118-5120	3.4	10
51	Computational Studies of Non-Equilibrium Molecular Transport through Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9861-9870	3.4	32
50	Nanostructure of Fluorocarbon Films Deposited on Polystyrene from Hyperthermal C <sub>3</sub> F <sub>5</sub> <sup>+</sup> Ions. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9656-9664	3.4	28
49	Molecular Dynamics Simulations of the Chemical Modification of Polystyrene through C <sub>x</sub> F <sub>y</sub> <sup>+</sup> Beam Deposition. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 18993-19001	3.4	32
48	Molecular Dynamics Simulation Study of Carbon Nanotube Welding under Electron Beam Irradiation. <i>Nano Letters</i> , <b>2004</b> , 4, 109-114	11.5	96
47	Ceramic/metal interface structures and their relationship to atomic- and meso-scale properties. <i>Materials Science and Engineering Reports</i> , <b>2003</b> , 43, 1-59	30.9	134
46	A molecular dynamics study of thin-film formation via molecular cluster beam deposition: effect of incident species. <i>Surface Science</i> , <b>2003</b> , 526, 230-242	1.8	12
45	Modification of carbon nanotube-polystyrene matrix composites through polyatomic-ion beam deposition predictions from molecular dynamics simulations. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 1663-1669	8.6	37
44	Quantum Dots from Carbon Nanotube Junctions. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 789, 217		1
43	Molecular dynamics simulation of thin film nucleation through molecular cluster beam deposition: Effect of incident angle. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 195, 329-338	1.2	6
42	Ab Initio Calculations of Pristine and Doped Zirconia $\beta$ (310)/[001] Tilt Grain Boundaries. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 1594-1600	3.8	33
41	Compression of carbon nanotubes filled with C <sub>60</sub> , CH <sub>4</sub> , or Ne: predictions from molecular dynamics simulations. <i>Physical Review Letters</i> , <b>2002</b> , 88, 205505	7.4	190
40	A second-generation reactive empirical bond order (REBO) potential energy expression for hydrocarbons. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 783-802	1.8	2450

39	Predictions of a spiral diffusion path for nonspherical organic molecules in carbon nanotubes. <i>Physical Review Letters</i> , <b>2002</b> , 89, 278301	7.4	49
38	Study of C <sub>3</sub> H <sub>5</sub> <sup>+</sup> ion deposition on polystyrene and polyethylene surfaces using molecular dynamics simulations. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 3363-3367	2.5	15
37	Study of angular influence of C <sub>3</sub> H <sub>5</sub> <sup>+</sup> ion deposition on polystyrene surfaces using molecular dynamics simulations. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2002</b> , 20, 564-568	2.9	13
36	Chemical functionalization of carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2002</b> , 2, 113-23	1.3	208
35	Thin-film nucleation through molecular cluster beam deposition: Comparison of tight-binding and many-body empirical potential molecular dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 6738-6744	3.9	11
34	The growth and modification of materials via ion surface processing. <i>Surface Science</i> , <b>2002</b> , 500, 500-522	1.8	97
33	Comparison of growth of hydrocarbon thin films by molecular-beam and cluster-beam deposition: atomistic simulations. <i>Thin Solid Films</i> , <b>2001</b> , 381, 73-83	2.2	7
32	Hydrocarbon thin films produced from adamantane diamond surface deposition: Molecular dynamics simulations. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2001</b> , 19, 262-266	2.9	9
31	Carbon Nanotubes: Synthesis, Properties, and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2001</b> , 26, 145-249	10.1	337
30	Tribological properties of carbon nanotube bundles predicted from atomistic simulations. <i>Surface Science</i> , <b>2001</b> , 487, 87-96	1.8	97
29	Sorption of Butane on Carbon Multiwall Nanotubes at Room Temperature. <i>Langmuir</i> , <b>2001</b> , 17, 7540-7544	1.4	78
28	A Combined Computational and Experimental Study of Ion-Beam Modification of Carbon Nanotube Bundles. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 12719-12725	3.4	100
27	Separation of Organic Molecular Mixtures in Carbon Nanotubes and Bundles: Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 6916-6924	3.4	139
26	Mechanical and Tribological Properties of Carbon Nanotubes Investigated with Atomistic Simulations. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 633, 1731		
25	Preferred crystallographic orientation relationships of nickel films deposited on (100) cubic-zirconia substrates. <i>Thin Solid Films</i> , <b>2000</b> , 372, 37-44	2.2	19
24	Effects of unique ion chemistry on thin-film growth by plasma-surface interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 23-7	11.5	56
23	Quantum Size Effects in Metallic Overlayer Epitaxy. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, 4302-4306	1.6	3
22	Chemical functionalization of carbon nanotubes through energetic radical collisions. <i>Physical Review B</i> , <b>2000</b> , 61, R16343-R16346	3.3	74

21	Effect of polyatomic ion structure on thin-film growth: Experiments and molecular dynamics simulations. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 5004-5016	2.5	75
20	Ab initio calculations of rigid-body displacements at the B (210) tilt grain boundary in TiO <sub>2</sub> . <i>Physical Review B</i> , <b>2000</b> , 61, 15645-15648	3.3	23
19	A Computational Study of Molecular Diffusion and Dynamic Flow through Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 4618-4624	3.4	189
18	Model of carbon nanotube growth through chemical vapor deposition. <i>Chemical Physics Letters</i> , <b>1999</b> , 315, 25-30	2.5	460
17	Molecular dynamics of carbon nanotubule proximal probe tip-surface contacts. <i>Physical Review B</i> , <b>1999</b> , 60, 13786-13791	3.3	38
16	Effect of surface reactivity on the nucleation of hydrocarbon thin films through molecular-cluster beam deposition. <i>Surface Science</i> , <b>1999</b> , 426, 83-91	1.8	15
15	Molecular dynamics simulations of the filling and decorating of carbon nanotubules. <i>Nanotechnology</i> , <b>1999</b> , 10, 273-277	3.4	156
14	Mechanical properties of nanotubule fibers and composites determined from theoretical calculations and simulations. <i>Carbon</i> , <b>1998</b> , 36, 1-9	10.4	166
13	Effect of chemical functionalization on the mechanical properties of carbon nanotubes. <i>Chemical Physics Letters</i> , <b>1998</b> , 295, 273-278	2.5	287
12	Interactions of Carbon-Nanotubule Proximal Probe Tips with Diamond and Graphene. <i>Physical Review Letters</i> , <b>1998</b> , 81, 2260-2263	7.4	123
11	Effect of cluster size on the reactivity of organic molecular clusters: Atomistic simulations. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1998</b> , 140, 39-46	1.2	12
10	Generation of 3D hydrocarbon thin films via organic molecular cluster collisions. <i>Surface Science</i> , <b>1998</b> , 398, 195-202	1.8	17
9	Atomistic simulations of organic thin film deposition through hyperthermal cluster impacts. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1998</b> , 16, 1293-1296	2.9	15
8	Atomistic simulations of the nanometer-scale indentation of amorphous-carbon thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1997</b> , 15, 936-940	2.9	42
7	Axum Version 5.0 for Windows MathSoft, Inc.: 101 Main Street, Cambridge, Massachusetts, 02142; (617) 577-1017. \$199.95.. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 9588-9589	16.4	1
6	Polymerization via Cluster/Solid Surface Impacts: Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 6883-6890	3.4	31
5	Simulated engineering of nanostructures. <i>Nanotechnology</i> , <b>1996</b> , 7, 161-167	3.4	32
4	Surface patterning by atomically-controlled chemical forces: molecular dynamics simulations. <i>Surface Science</i> , <b>1994</b> , 316, L1055-L1060	1.8	34



3	Exploration of approximations of the kinetic-exchange-correlation energy. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 1816-1823	3.9	2
2	Density functional study of the bonding in small silicon clusters. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 4149-4161	3.9	116
1	Corrected effective-medium study of metal-surface relaxation. <i>Physical Review B</i> , <b>1991</b> , 44, 8927-8941	3.3	84