

# Bryan M Wong

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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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.

179 papers	5,728 citations	42 h-index	66 g-index
242 ext. papers	6,876 ext. citations	6.2 avg, IF	6.28 L-index

#	Paper	IF	Citations
179	HADOKEN: An open-source software package for predicting electron confinement effects in various nanowire geometries and configurations. <i>Computer Physics Communications</i> , <b>2022</b> , 274, 108299	4.2	2
178	Photo-induced degradation of PFASs: Excited-state mechanisms from real-time time-dependent density functional theory. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127026	12.8	2
177	Density Functional Tight Binding Calculations for Probing Electronic-Excited States of Large Systems. <i>Reviews in Computational Chemistry</i> , <b>2022</b> , 45-79		
176	Single amino acid bionanozyme for environmental remediation.. <i>Nature Communications</i> , <b>2022</b> , 13, 1505	17.4	6
175	Effects of magnetic, electric, and intense laser fields on the optical properties of AlGaAs/GaAs quantum wells for terahertz photodetectors. <i>Physica B: Condensed Matter</i> , <b>2022</b> , 635, 413838	2.8	9
174	Rerouting Pathways of Solid-State Ammonia Borane Energy Release. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 48-57	3.8	1
173	Plasmon-induced excitation energy transfer in silver nanoparticle dimers: A real-time TDDFTB investigation.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 154705	3.9	1
172	6 nm super-resolution optical transmission and scattering spectroscopic imaging of carbon nanotubes using a nanometer-scale white light source. <i>Nature Communications</i> , <b>2021</b> , 12, 6868	17.4	5
171	High-Temperature Decomposition of Diisopropyl Methylphosphonate on Alumina: Mechanistic Predictions from Ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 21922-21932	3.8	2
170	Improved band gaps and structural properties from Wannier-Fermi-Löwdin self-interaction corrections for periodic systems. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33, 115501	1.8	5
169	Stability of Calcium Ion Battery Electrolytes: Predictions from Ab Initio Molecular Dynamics Simulations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13114-13122	9.5	7
168	Ab initio metadynamics calculations reveal complex interfacial effects in acetic acid deprotonation dynamics. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 330, 115624	6	8
167	Acceleration of Parallel-Blocked QR Decomposition of Tall-and-Skinny Matrices on FPGAs. <i>Transactions on Architecture and Code Optimization</i> , <b>2021</b> , 18, 1-25	1.3	
166	Quantum tunneling mechanisms in monolayer graphene modulated by multiple electrostatic barriers. <i>Results in Physics</i> , <b>2021</b> , 26, 104403	3.7	2
165	NIC-CAGE: An open-source software package for predicting optimal control fields in photo-excited chemical systems. <i>Computer Physics Communications</i> , <b>2021</b> , 258, 107541	4.2	3
164	Machine Learning: New Ideas and Tools in Environmental Science and Engineering. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 12741-12754	10.3	26
163	Modulating the conductance in graphene nanoribbons with multi-barriers under an applied voltage. <i>Results in Physics</i> , <b>2021</b> , 27, 104505	3.7	5

162	Nanoarchitectonics of Metal-Free Porous Polyketone as Photocatalytic Assemblies for Artificial Photosynthesis.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	4
161	Ring currents modulate optoelectronic properties of aromatic chromophores at 25 T. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 11289-11298	11.5	10
160	Water-Mediated Electronic Structure of Oligopeptides Probed by Their UV Circular Dichroism, Absorption Spectra, and Time-Dependent DFT Calculations. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 2579-2590	3.4	8
159	Field Programmable Gate Arrays for Enhancing the Speed and Energy Efficiency of Quantum Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 2085-2098	6.4	6
158	Fractional occupation numbers and self-interaction correction-scaling methods with the Fermi-Löwdin orbital self-interaction correction approach. <i>Journal of Computational Chemistry</i> , <b>2020</b> , 41, 1200-1208	3.5	6
157	Real-time degradation dynamics of hydrated per- and polyfluoroalkyl substances (PFASs) in the presence of excess electrons. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 6804-6808	3.6	11
156	Degradation of Perfluoroalkyl Ether Carboxylic Acids with Hydrated Electrons: Structure-Reactivity Relationships and Environmental Implications. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 2489-2499	10.3	42
155	metadynamics calculations of dimethylamine for probing p variations in bulk surface environments. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 26265-26277	3.6	7
154	Charge-density induced discrimination of halides with a rigid dinuclear copper(II) complex. <i>Molecular Systems Design and Engineering</i> , <b>2020</b> , 5, 996-1002	4.6	4
153	Harnessing Plasma Environments for Ammonia Catalysis: Mechanistic Insights from Experiments and Large-Scale Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 10469-10475	6.4	10
152	Structural Dependence of Reductive Defluorination of Linear PFAS Compounds in a UV/Electrochemical System. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 10668-10677	10.3	22
151	Ultrafast photoinduced band splitting and carrier dynamics in chiral tellurium nanosheets. <i>Nature Communications</i> , <b>2020</b> , 11, 3991	17.4	8
150	Harnessing deep neural networks to solve inverse problems in quantum dynamics: machine-learned predictions of time-dependent optimal control fields. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 22889-22899	3.6	6
149	Materials Compatibility in Rechargeable Aluminum Batteries: Chemical and Electrochemical Properties between Vanadium Pentoxide and Chloroaluminate Ionic Liquids. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7238-7247	9.6	22
148	Potential-Driven Electron Transfer Lowers the Dissociation Energy of the C-F Bond and Facilitates Reductive Defluorination of Perfluorooctane Sulfonate (PFOS). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33913-33922	9.5	30
147	A Machine Learning Approach for Predicting Defluorination of Per- and Polyfluoroalkyl Substances (PFAS) for Their Efficient Treatment and Removal. <i>Environmental Science and Technology Letters</i> , <b>2019</b> , 6, 624-629	11	36
146	Acceleration vs Accuracy: Influence of Basis Set Quality on the Mechanism and Dynamics Predicted by Ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 25113-25120	3.8	7
145	Non-proteinaceous hydrolase comprised of a phenylalanine metallo-supramolecular amyloid-like structure. <i>Nature Catalysis</i> , <b>2019</b> , 2, 977-985	36.5	65

144	A high-spin ground-state donor-acceptor conjugated polymer. <i>Science Advances</i> , <b>2019</b> , 5, eaav2336	14.3	44
143	Indirect but Efficient: Laser-Excited Electrons Can Drive Ultrafast Polarization Switching in Ferroelectric Materials. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3402-3407	6.4	14
142	Chirality Induced Spin Selectivity of Photoexcited Electrons in Carbon-Sulfur [n]Helicenes. <i>ChemPhotoChem</i> , <b>2019</b> , 3, 770-777	3.3	5
141	An Experimental and Modeling Study of Nanoparticle Formation and Growth from Dimethylamine and Nitric Acid. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 5640-5648	2.8	12
140	Covalent Atomic Bridges Enable Unidirectional Enhancement of Electronic Transport in Aligned Carbon Nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19315-19323	9.5	24
139	A new interpretation of the structure and solvent dependence of the far UV circular dichroism spectrum of short oligopeptides. <i>Chemical Communications</i> , <b>2019</b> , 55, 5701-5704	5.8	12
138	Heterogeneous CPU+GPU-Enabled Simulations for DFTB Molecular Dynamics of Large Chemical and Biological Systems. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 2807-2815	6.4	26
137	Defluorination of Per- and Polyfluoroalkyl Substances (PFASs) with Hydrated Electrons: Structural Dependence and Implications to PFAS Remediation and Management. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3718-3728	10.3	137
136	Linear-Response and Real-Time, Time-Dependent Density Functional Theory for Predicting Optoelectronic Properties of Dye-Sensitized Solar Cells <b>2019</b> , 171-201		1
135	Photochemistry of Plasmonic Titanium Nitride Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 21796-21804	3.8	24
134	Statistical analysis of trace metals content of cocaine using inductively coupled plasma-mass spectrometry calibrations. <i>Cogent Chemistry</i> , <b>2019</b> , 5, 1671071	2.5	0
133	Charge density wave hampers exciton condensation in 1T <sub>1</sub> Se <sub>2</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
132	Persistent radical anion polymers based on naphthalenediimide and a vinylene spacer.. <i>RSC Advances</i> , <b>2018</b> , 8, 14760-14764	3.7	4
131	Is a cross-sheet structure of low molecular weight peptides necessary for the formation of fibrils and peptide hydrogels?. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 18158-18168	3.6	21
130	Highly selective and sensitive macrocycle-based dinuclear foldamer for fluorometric and colorimetric sensing of citrate in water. <i>Scientific Reports</i> , <b>2018</b> , 8, 286	4.9	25
129	Preferential Charge Generation at Aggregate Sites in Narrow Band Gap Infrared Photoresponsive Polymer Semiconductors. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701138	8.1	21
128	Correlating Li-Solvation Structure and its Electrochemical Reaction Kinetics with Sulfur in Subnano Confinement. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 1739-1745	6.4	16
127	On the non-thermal plasma synthesis of nickel nanoparticles. <i>Plasma Processes and Polymers</i> , <b>2018</b> , 15, 1700104	3.4	17

126	An MM and QM Study of Biomimetic Catalysis of Diels-Alder Reactions Using Cyclodextrins. <i>Catalysts</i> , <b>2018</b> , 8,	4	4
125	Thermoelectric Performance of an Open-Shell Donor-Acceptor Conjugated Polymer Doped with a Radical-Containing Small Molecule. <i>Macromolecules</i> , <b>2018</b> , 51, 3886-3894	5.5	32
124	Halogen Bonding Interactions: Revised Benchmarks and a New Assessment of Exchange vs Dispersion. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 180-190	6.4	44
123	Determination of the level of hexavalent, trivalent, and total chromium in the discharged effluent of Bahir Dar tannery using ICP-OES and UV-Visible spectrometry. <i>Cogent Chemistry</i> , <b>2018</b> , 4, 1534566	2.5	13
122	The diamine cation is not a chemical example where density functional theory fails. <i>Nature Communications</i> , <b>2018</b> , 9, 4733	17.4	12
121	Confined Lithium-Sulfur Reactions in Narrow-Diameter Carbon Nanotubes Reveal Enhanced Electrochemical Reactivity. <i>ACS Nano</i> , <b>2018</b> , 12, 9775-9784	16.7	44
120	Linear polarizabilities and second hyperpolarizabilities of streptocyanines: Results from broken-Symmetry DFT and new CCSD(T) benchmarks. <i>Journal of Computational Chemistry</i> , <b>2018</b> , 39, 2350-2359 <sup>12</sup>	3.5	12
119	A Highly Stretchy, Transparent Elastomer with the Capability to Automatically Self-Heal Underwater. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804602	24	109
118	Additional Insights between Fermi-Löwdin Orbital SIC and the Localization Equation Constraints in SIC-DFT. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6456-6462	6.4	10
117	Size resolved chemical composition of nanoparticles from reactions of sulfuric acid with ammonia and dimethylamine. <i>Aerosol Science and Technology</i> , <b>2018</b> , 52, 1120-1133	3.4	14
116	High Magnetic Field Detunes Vibronic Resonances in Photosynthetic Light Harvesting. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5548-5554	6.4	12
115	Effect of quantum tunneling on the efficiency of excitation energy transfer in plasmonic nanoparticle chain waveguides. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5857-5864	7.1	34
114	A Non-Thermal Plasma Route to Plasmonic TiN Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 2316-2322	3.8	59
113	Sulfate radical oxidation of aromatic contaminants: a detailed assessment of density functional theory and high-level quantum chemical methods. <i>Environmental Sciences: Processes and Impacts</i> , <b>2017</b> , 19, 395-404	4.3	32
112	Accurate Electron Affinities and Orbital Energies of Anions from a Nonempirically Tuned Range-Separated Density Functional Theory Approach. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 1656-1666	6.4	33
111	Donor-Acceptor polymers with tunable infrared photoresponse. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 2922-2930	4.9	48
110	A Transparent, Self-Healing, Highly Stretchable Ionic Conductor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605099	24	321
109	Polycation Binders: An Effective Approach toward Lithium Polysulfide Sequestration in LiS Batteries. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2591-2597	20.1	39

108	Solvation Structure of Surface-Supported Amine Fragments: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 22156-22163	3.8	3
107	Real-Time Quantum Dynamics of Long-Range Electronic Excitation Transfer in Plasmonic Nanoantennas. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 3442-3454	6.4	29
106	Anion Complexation Studies of 3-Nitrophenyl-Substituted Tripodal Thiourea Receptor: A Naked-Eye Detection of Sulfate via Fluoride Displacement Assay. <i>ACS Omega</i> , <b>2017</b> , 2, 9057-9066	3.9	15
105	Structural and Electronic Properties of Graphdiyne Carbon Nanotubes from Large-Scale DFT Calculations. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 18871-18877	3.8	57
104	Chemical and Radiation Stability of Ionic Liquids: A Computational Screening Study. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 27757-27767	3.8	35
103	Inconsistencies in the Electronic Properties of Phosphorene Nanotubes: New Insights from Large-Scale DFT Calculations. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4340-4345	6.4	42
102	Polarizabilities of $\pi$ Conjugated Chains Revisited: Improved Results from Broken-Symmetry Range-Separated DFT and New CCSD(T) Benchmarks. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 3593-602	6.4	53
101	Effect of Dipolar Molecule Structure on the Mechanism of Graphene-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 13815-13824	3.8	30
100	Unusual Bandgap Oscillations in Template-Directed $\pi$ Conjugated Porphyrin Nanotubes. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 2362-7	6.4	8
99	Solid state lithiation-delithiation of sulphur in sub-nano confinement: a new concept for designing lithium-sulphur batteries. <i>Chemical Science</i> , <b>2016</b> , 7, 1224-1232	9.4	56
98	Investigating the Reactivity of 1,4-Anthracene-Incorporated Cycloparaphenylene. <i>Organic Letters</i> , <b>2016</b> , 18, 1574-7	6.2	38
97	Real-Time Quantum Dynamics Reveals Complex, Many-Body Interactions in Solvated Nanodroplets. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 1862-71	6.4	21
96	Giant Raman Response to the Encapsulation of Sulfur in Narrow Diameter Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 40-3	16.4	31
95	Large-scale atomistic simulations of helium-3 bubble growth in complex palladium alloys. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 194705	3.9	6
94	Sultam-Based Hetero[5]helicene: Synthesis, Structure, and Crystallization-Induced Emission Enhancement. <i>ACS Omega</i> , <b>2016</b> , 1, 1336-1342	3.9	16
93	Electric potential invariants and ions-in-molecules effective potentials for molecular Rydberg states. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 234301	3.9	3
92	Iterative Reductive Aromatization/Ring-Closing Metathesis Strategy toward the Synthesis of Strained Aromatic Belts. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 6577-82	16.4	44
91	Density Functional Theory Methods for Computing and Predicting Mechanical Properties. <i>Springer Series in Materials Science</i> , <b>2016</b> , 131-158	0.9	



90	The Importance of Short- and Long-Range Exchange on Various Excited State Properties of DNA Monomers, Stacked Complexes, and Watson-Crick Pairs. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 2199-209	6.4	52
89	Colorimetric and Optical Discrimination of Halides by a Simple Chemosensor. <i>RSC Advances</i> , <b>2015</b> , 5, 38733-38741	3.7	16
88	Breaking Badly: DFT-D2 Gives Sizeable Errors for Tensile Strengths in Palladium-Hydride Solids. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 5426-35	6.4	50
87	Quantum confinement of excitons in wurtzite InP nanowires. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 194305	3.5	17
86	Assessing backbone solvation effects in the conformational propensities of amino acid residues in unfolded peptides. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 24917-24	3.6	33
85	Isolation of Pristine Electronics Grade Semiconducting Carbon Nanotubes by Switching the Rigidity of the Wrapping Polymer Backbone on Demand. <i>ACS Nano</i> , <b>2015</b> , 9, 10203-13	16.7	67
84	Binding and selectivity of dihydrogen phosphate by H-bond donors and acceptors in a tripodal-based thiourea receptor. <i>Tetrahedron Letters</i> , <b>2015</b> , 56, 115-118	2	17
83	A prediction of dislocation-free CdTe/CdS photovoltaic multilayers via nano-patterning and composition grading. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2015</b> , 23, 1837-1846	6.8	11
82	Poly((2-alkylbenzo[1,2,3]triazole-4,7-diyl)vinylene)s for organic solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 1539-1545	2.6	4
81	Energy and charge transfer by donor-acceptor pairs confined in a metal-organic framework: a spectroscopic and computational investigation. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3389-3398	13	79
80	Novel metal-organic framework linkers for light harvesting applications. <i>Chemical Science</i> , <b>2014</b> , 5, 2081-2090	9.4	136
79	Orientation of a monolayer of dipolar molecules on graphene from X-ray absorption spectroscopy. <i>Langmuir</i> , <b>2014</b> , 30, 2559-65	4	26
78	Raman Enhancement of a Dipolar Molecule on Graphene. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 20773-20842	3.2	25
77	A highly efficient dinuclear Cu(II) chemosensor for colorimetric and fluorescent detection of cyanide in water. <i>RSC Advances</i> , <b>2014</b> , 4, 54263-54267	3.7	22
76	Solution-processable donor-acceptor polymers with modular electronic properties and very narrow bandgaps. <i>Macromolecular Rapid Communications</i> , <b>2014</b> , 35, 1516-21	4.8	21
75	Analytical Bond-Order Potential for the CdTeSe Ternary System. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 20661-20679	3.8	10
74	Understanding gas phase modifier interactions in rapid analysis by differential mobility-tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1098-113	3.5	28
73	An exclusive fluoride receptor: Fluoride-induced proton transfer to a quinoline-based thiourea. <i>Tetrahedron Letters</i> , <b>2014</b> , 55, 1467-1470	2	22

72	Absorption and fluorescence signatures of 1,2,3-triazole based regioisomers: challenging compounds for TD-DFT. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 9064-73	3.6	22
71	Anion directed conformational diversities of an arene based hexa-amide receptor and recognition of the [F4(H2O)6]4 <sup>+</sup> cluster. <i>RSC Advances</i> , <b>2014</b> , 4, 62689-62693	3.7	20
70	Results for aliovalent doping of CeBr <sub>3</sub> with Ca <sup>2+</sup> . <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 034908	2.5	81
69	Localization of Excitons in Thin Core-Multi-Shell Quantum Well Tubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1659, 135-138		
68	Optical, structural, and numerical investigations of GaAs/AlGaAs core-multishell nanowire quantum well tubes. <i>Nano Letters</i> , <b>2013</b> , 13, 1016-22	11.5	94
67	Photophysical and theoretical investigations of the [8]cycloparaphenylene radical cation and its charge-resonance dimer. <i>Chemical Science</i> , <b>2013</b> , 4, 4285	9.4	55
66	Functionalization of single-wall carbon nanotubes with chromophores of opposite internal dipole orientation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 9355-61	9.5	30
65	A refined parameterization of the analytical Cd-Zn-Te bond-order potential. <i>Journal of Molecular Modeling</i> , <b>2013</b> , 19, 5469-77	2	11
64	A new approach toward transition state spectroscopy. <i>Faraday Discussions</i> , <b>2013</b> , 163, 33-57; discussion 117-38	3.6	34
63	Electronic structure of the S <sub>1</sub> state in methylcobalamin: insight from CASSCF/MC-XQDPT2, EOM-CCSD, and TD-DFT calculations. <i>Journal of Computational Chemistry</i> , <b>2013</b> , 34, 987-1004	3.5	49
62	Physical removal of metallic carbon nanotubes from nanotube network devices using a thermal and fluidic process. <i>Nanotechnology</i> , <b>2013</b> , 24, 105202	3.4	10
61	Bridgehead Imine Substituted Cyclopentadithiophene Derivatives: An Effective Strategy for Band Gap Control in Donor-Acceptor Polymers. <i>Macromolecules</i> , <b>2013</b> , 46, 1337-1342	5.5	46
60	Atomistic potentials for palladium-silver hydrides. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2013</b> , 21, 045005	2	16
59	Nano-Ordering of Donor-Acceptor Interactions Using Metal-Organic Frameworks as Scaffolds. <i>ECS Transactions</i> , <b>2013</b> , 58, 21-28	1	
58	Synthesis, characterization, and computational studies of cycloparaphenylene dimers. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19709-15	16.4	97
57	Self-assembly of ordered water tetramers in an encapsulated [Br(H <sub>2</sub> O) <sub>12</sub> ] <sup>+</sup> complex. <i>Chemical Communications</i> , <b>2012</b> , 48, 8631-3	5.8	24
56	Molecular Dynamics Studies of Dislocations in CdTe Crystals from a New Bond Order Potential. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17563-17571	3.8	26
55	Spectroscopic, structural, and theoretical studies of halide complexes with a urea-based tripodal receptor. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4274-84	5.1	47



54	Comparison of Molecular Dynamics with Classical Density Functional and Poisson-Boltzmann Theories of the Electric Double Layer in Nanochannels. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 2012-2022	6.4	60
53	Spectral- and Pulse-Shape Discrimination in Triplet-Harvesting Plastic Scintillators. <i>IEEE Transactions on Nuclear Science</i> , <b>2012</b> , 59, 3312-3319	1.7	33
52	Melt-growth dynamics in CdTe crystals. <i>Physical Review Letters</i> , <b>2012</b> , 108, 245503	7.4	19
51	Analytical bond-order potential for the cadmium telluride binary system. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	54
50	Nonempirically Tuned Range-Separated DFT Accurately Predicts Both Fundamental and Excitation Gaps in DNA and RNA Nucleobases. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 2682-2687	6.4	150
49	A Quinoline Based bis-Urea Receptor for Anions: A Selective Receptor for Hydrogen Sulfate. <i>Natural Product Communications</i> , <b>2012</b> , 7, 1934578X1200700	0.9	0
48	Reversible, opto-mechanically induced spin-switching in a nanoribbon-spiropyran hybrid material. <i>Nanoscale</i> , <b>2012</b> , 4, 1321-7	7.7	36
47	A self-assembled fluoride-water cyclic cluster of [F(H <sub>2</sub> O)] <sub>4</sub> (4-) in a molecular box. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11892-5	16.4	42
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