

Bryan M Wong

List of Publications by Year in descending order

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185
papers

8,015
citations

38742

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64796

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all docs

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docs citations

242
times ranked

10058
citing authors

#	ARTICLE	IF	CITATIONS
1	A Transparent, Self-Healing, Highly Stretchable Ionic Conductor. <i>Advanced Materials</i> , 2017, 29, 1605099.	21.0	447
2	Defluorination of Per- and Polyfluoroalkyl Substances (PFASs) with Hydrated Electrons: Structural Dependence and Implications to PFAS Remediation and Management. <i>Environmental Science & Technology</i> , 2019, 53, 3718-3728.	10.0	297
3	Optoelectronic and Excitonic Properties of Oligoacenes: Substantial Improvements from Range-Separated Time-Dependent Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3704-3712.	5.3	248
4	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> , 2012, 8, 2682-2687.	5.3	203
5	Stress Sensing in Polycaprolactone Films via an Embedded Photochromic Compound. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1594-1600.	8.0	177
6	A Highly Stretchy, Transparent Elastomer with the Capability to Automatically Self-Heal Underwater. <i>Advanced Materials</i> , 2018, 30, e1804602.	21.0	167
7	Coumarin dyes for dye-sensitized solar cells: A long-range-corrected density functional study. <i>Journal of Chemical Physics</i> , 2008, 129, 214703.	3.0	166
8	Novel metal-organic framework linkers for light harvesting applications. <i>Chemical Science</i> , 2014, 5, 2081-2090.	7.4	152
9	Absorption and fluorescence properties of oligothiophene biomarkers from long-range-corrected time-dependent density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4498.	2.8	145
10	Non-proteinaceous hydrolase comprised of a phenylalanine metallo-supramolecular amyloid-like structure. <i>Nature Catalysis</i> , 2019, 2, 977-985.	34.4	142
11	Machine Learning: New Ideas and Tools in Environmental Science and Engineering. <i>Environmental Science & Technology</i> , 2021, 55, 12741-12754.	10.0	140
12	Optoelectronic Properties of Carbon Nanorings: Excitonic Effects from Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21921-21927.	3.1	132
13	Color Detection Using Chromophore-Nanotube Hybrid Devices. <i>Nano Letters</i> , 2009, 9, 1028-1033.	9.1	115
14	Synthesis, Characterization, and Computational Studies of Cycloparaphenylene Dimers. <i>Journal of the American Chemical Society</i> , 2012, 134, 19709-19715.	13.7	115
15	Optical, Structural, and Numerical Investigations of GaAs/AlGaAs Core-Multishell Nanowire Quantum Well Tubes. <i>Nano Letters</i> , 2013, 13, 1016-1022.	9.1	106
16	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> , 2014, 2, 3389-3398.	10.3	100
17	Nanoscale Effects on Heterojunction Electron Gases in GaN/AlGaN Core/Shell Nanowires. <i>Nano Letters</i> , 2011, 11, 3074-3079.	9.1	97
18	Electronically Excited States of Vitamin B ₁₂ : Benchmark Calculations Including Time-Dependent Density Functional Theory and Correlated ab Initio Methods. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1280-1292.	2.5	94

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19	Results for aliovalent doping of CeBr ₃ with Ca ²⁺ . Journal of Applied Physics, 2014, 115, .	2.5	91
20	A Machine Learning Approach for Predicting Defluorination of Per- and Polyfluoroalkyl Substances (PFAS) for Their Efficient Treatment and Removal. Environmental Science and Technology Letters, 2019, 6, 624-629.	8.7	90
21	An embedded-atom method interatomic potential for Pd–H alloys. Journal of Materials Research, 2008, 23, 704-718.	2.6	86
22	Degradation of Perfluoroalkyl Ether Carboxylic Acids with Hydrated Electrons: Structure–Reactivity Relationships and Environmental Implications. Environmental Science & Technology, 2020, 54, 2489-2499.	10.0	86
23	A Non-Thermal Plasma Route to Plasmonic TiN Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 2316-2322.	3.1	82
24	Isolation of Pristine Electronics Grade Semiconducting Carbon Nanotubes by Switching the Rigidity of the Wrapping Polymer Backbone on Demand. ACS Nano, 2015, 9, 10203-10213.	14.6	78
25	Polarizabilities of π -Conjugated Chains Revisited: Improved Results from Broken-Symmetry Range-Separated DFT and New CCSD(T) Benchmarks. Journal of Chemical Theory and Computation, 2016, 12, 3593-3602.	5.3	75
26	Breaking Badly: DFT-D2 Gives Sizeable Errors for Tensile Strengths in Palladium-Hydride Solids. Journal of Chemical Theory and Computation, 2015, 11, 5426-5435.	5.3	74
27	A high-spin ground-state donor-acceptor conjugated polymer. Science Advances, 2019, 5, eaav2336.	10.3	72
28	Noncovalent interactions in supramolecular complexes: A study on corannulene and the double concave buckycatcher. Journal of Computational Chemistry, 2009, 30, 51-56.	3.3	71
29	Structural and Electronic Properties of Graphdiyne Carbon Nanotubes from Large-Scale DFT Calculations. Journal of Physical Chemistry C, 2016, 120, 18871-18877.	3.1	70
30	Donor–acceptor polymers with tunable infrared photoresponse. Polymer Chemistry, 2017, 8, 2922-2930.	3.9	70
31	Comparison of Molecular Dynamics with Classical Density Functional and Poisson–Boltzmann Theories of the Electric Double Layer in Nanochannels. Journal of Chemical Theory and Computation, 2012, 8, 2012-2022.	5.3	69
32	Solid state lithiation–delithiation of sulphur in sub-nano confinement: a new concept for designing lithium–sulphur batteries. Chemical Science, 2016, 7, 1224-1232.	7.4	69
33	The Importance of Short- and Long-Range Exchange on Various Excited State Properties of DNA Monomers, Stacked Complexes, and Watson–Crick Pairs. Journal of Chemical Theory and Computation, 2015, 11, 2199-2209.	5.3	68
34	Potential-Driven Electron Transfer Lowers the Dissociation Energy of the C–F Bond and Facilitates Reductive Defluorination of Perfluorooctane Sulfonate (PFOS). ACS Applied Materials & Interfaces, 2019, 11, 33913-33922.	8.0	67
35	Halogen Bonding Interactions: Revised Benchmarks and a New Assessment of Exchange vs Dispersion. Journal of Chemical Theory and Computation, 2018, 14, 180-190.	5.3	66
36	Single amino acid bionanozyme for environmental remediation. Nature Communications, 2022, 13, 1505.	12.8	66

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37	Heterogeneous CPU+GPU-Enabled Simulations for DFTB Molecular Dynamics of Large Chemical and Biological Systems. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2807-2815.	5.3	65
38	Analytical bond-order potential for the cadmium telluride binary system. <i>Physical Review B</i> , 2012, 85, .	3.2	64
39	Structural Dependence of Reductive Defluorination of Linear PFAS Compounds in a UV/Electrochemical System. <i>Environmental Science & Technology</i> , 2020, 54, 10668-10677.	10.0	62
40	Electronic Properties of Vinylene-Linked Heterocyclic Conducting Polymers: Predictive Design and Rational Guidance from DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18333-18341.	3.1	61
41	Confined Lithium-Sulfur Reactions in Narrow-Diameter Carbon Nanotubes Reveal Enhanced Electrochemical Reactivity. <i>ACS Nano</i> , 2018, 12, 9775-9784.	14.6	61
42	Photophysical and theoretical investigations of the [8]cycloparaphenylene radical cation and its charge-resonance dimer. <i>Chemical Science</i> , 2013, 4, 4285.	7.4	59
43	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> , 2017, 13, 1656-1666.	5.3	56
44	Effect of quantum tunneling on the efficiency of excitation energy transfer in plasmonic nanoparticle chain waveguides. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5857-5864.	5.5	56
45	Iterative Reductive Aromatization/Ring-Closing Metathesis Strategy toward the Synthesis of Strained Aromatic Belts. <i>Journal of the American Chemical Society</i> , 2016, 138, 6577-6582.	13.7	55
46	Inconsistencies in the Electronic Properties of Phosphorene Nanotubes: New Insights from Large-Scale DFT Calculations. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4340-4345.	4.6	54
47	Electronic structure of the $S_{1/2}$ state in methylcobalamin: Insight from CASSCF/MC-QDPT2, EOM-CCSD, and TD-DFT calculations. <i>Journal of Computational Chemistry</i> , 2013, 34, 987-1004.	3.3	53
48	Bridgehead Imine Substituted Cyclopentadithiophene Derivatives: An Effective Strategy for Band Gap Control in Donor-Acceptor Polymers. <i>Macromolecules</i> , 2013, 46, 1337-1342.	4.8	51
49	Polycation Binders: An Effective Approach toward Lithium Polysulfide Sequestration in Li-S Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2591-2597.	17.4	51
50	Thermoelectric Performance of an Open-Shell Donor-Acceptor Conjugated Polymer Doped with a Radical-Containing Small Molecule. <i>Macromolecules</i> , 2018, 51, 3886-3894.	4.8	51
51	Spectroscopic, Structural, and Theoretical Studies of Halide Complexes with a Urea-Based Tripodal Receptor. <i>Inorganic Chemistry</i> , 2012, 51, 4274-4284.	4.0	50
52	Investigating the Reactivity of 1,4-Anthracene-Incorporated Cycloparaphenylene. <i>Organic Letters</i> , 2016, 18, 1574-1577.	4.6	49
53	Real-Time Quantum Dynamics of Long-Range Electronic Excitation Transfer in Plasmonic Nanoantennas. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3442-3454.	5.3	49
54	Spectroscopic Properties of Nanotube-Chromophore Hybrids. <i>ACS Nano</i> , 2011, 5, 7767-7774.	14.6	48

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55	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> , 2017, 19, 395-404.	3.5	48
56	Chemical and Radiation Stability of Ionic Liquids: A Computational Screening Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27757-27767.	3.1	45
57	Degradation of Per- and Polyfluoroalkyl Substances with Hydrated Electrons: A New Mechanism from First-Principles Calculations. <i>Environmental Science & Technology</i> , 2022, 56, 8167-8175.	10.0	44
58	A Self-Assembled Fluoride-Water Cyclic Cluster of $[F(H_2O)]_{44}$ in a Molecular Box. <i>Journal of the American Chemical Society</i> , 2012, 134, 11892-11895.	13.7	43
59	Giant Raman Response to the Encapsulation of Sulfur in Narrow Diameter Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2016, 138, 40-43.	13.7	43
60	Rational design of a macrocycle-based chemosensor for anions. <i>Tetrahedron Letters</i> , 2010, 51, 1329-1332.	1.4	42
61	Reversible, opto-mechanically induced spin-switching in a nanoribbon-spiropyran hybrid material. <i>Nanoscale</i> , 2012, 4, 1321.	5.6	42
62	Thermochemistry of Alane Complexes for Hydrogen Storage: A Theoretical and Experimental Investigation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7778-7786.	3.1	41
63	Spectral- and Pulse-Shape Discrimination in Triplet-Harvesting Plastic Scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 3312-3319.	2.0	41
64	Assessing backbone solvation effects in the conformational propensities of amino acid residues in unfolded peptides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24917-24924.	2.8	41
65	A new approach toward transition state spectroscopy. <i>Faraday Discussions</i> , 2013, 163, 33.	3.2	39
66	Real-Time Quantum Dynamics Reveals Complex, Many-Body Interactions in Solvated Nanodroplets. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1862-1871.	5.3	39
67	Indirect but Efficient: Laser-Excited Electrons Can Drive Ultrafast Polarization Switching in Ferroelectric Materials. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3402-3407.	4.6	39
68	Ultrafast photoinduced band splitting and carrier dynamics in chiral tellurium nanosheets. <i>Nature Communications</i> , 2020, 11, 3991.	12.8	39
69	Formation of an Amine-Water Cyclic Pentamer: A New Type of Water Cluster in a Polyazacryptand. <i>Crystal Growth and Design</i> , 2010, 10, 1486-1488.	3.0	37
70	Accuracy of existing atomic potentials for the CdTe semiconductor compound. <i>Journal of Chemical Physics</i> , 2011, 134, 244703.	3.0	37
71	Temperature and Molecular Size Dependence of the High-Pressure Limit. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6206-6211.	2.5	36
72	Real-time degradation dynamics of hydrated per- and polyfluoroalkyl substances (PFASs) in the presence of excess electrons. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6804-6808.	2.8	36

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73	Understanding Gas Phase Modifier Interactions in Rapid Analysis by Differential Mobility-Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1098-1113.	2.8	35
74	Materials Compatibility in Rechargeable Aluminum Batteries: Chemical and Electrochemical Properties between Vanadium Pentoxide and Chloroaluminate Ionic Liquids. <i>Chemistry of Materials</i> , 2019, 31, 7238-7247.	6.7	35
75	Functionalization of Single-Wall Carbon Nanotubes with Chromophores of Opposite Internal Dipole Orientation. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9355-9361.	8.0	34
76	Is a cross- β -sheet structure of low molecular weight peptides necessary for the formation of fibrils and peptide hydrogels?. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18158-18168.	2.8	33
77	Photochemistry of Plasmonic Titanium Nitride Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21796-21804.	3.1	33
78	Orientation of a Monolayer of Dipolar Molecules on Graphene from X-ray Absorption Spectroscopy. <i>Langmuir</i> , 2014, 30, 2559-2565.	3.5	32
79	Effect of Dipolar Molecule Structure on the Mechanism of Graphene-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13815-13824.	3.1	32
80	Highly selective and sensitive macrocycle-based dinuclear foldamer for fluorometric and colorimetric sensing of citrate in water. <i>Scientific Reports</i> , 2018, 8, 286.	3.3	31
81	Self-assembled cyclic oligothiophene nanotubes: Electronic properties from a dispersion-corrected hybrid functional. <i>Physical Review B</i> , 2011, 84, .	3.2	30
82	Analytical bond-order potential for the Cd-Zn-Te ternary system. <i>Physical Review B</i> , 2012, 86, .	3.2	30
83	Molecular Dynamics Studies of Dislocations in CdTe Crystals from a New Bond Order Potential. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17563-17571.	3.1	30
84	Raman Enhancement of a Dipolar Molecule on Graphene. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2077-2084.	3.1	30
85	Absorption and fluorescence signatures of 1,2,3-triazole based regioisomers: challenging compounds for TD-DFT. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9064-9073.	2.8	29
86	Preferential Charge Generation at Aggregate Sites in Narrow Band Gap Infrared Photoresponsive Polymer Semiconductors. <i>Advanced Optical Materials</i> , 2018, 6, 1701138.	7.3	29
87	An Experimental and Modeling Study of Nanoparticle Formation and Growth from Dimethylamine and Nitric Acid. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5640-5648.	2.5	29
88	Stability of Calcium Ion Battery Electrolytes: Predictions from Ab Initio Molecular Dynamics Simulations. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13114-13122.	8.0	29
89	Improved band gaps and structural properties from Wannier-Fermi-Landau self-interaction corrections for periodic systems. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 115501.	1.8	29
90	Accurate Inertias for Large-Amplitude Motions: Improvements on Prevailing Approximations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7406-7413.	2.5	28

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91	A C_3 Symmetric Nitrate Complex with a Thiophene-Based Tripodal Receptor. <i>Crystal Growth and Design</i> , 2011, 11, 959-963.	3.0	28
92	Atomistic potentials for palladium-silver hydrides. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 045005.	2.0	28
93	A quantum defect model for the s , p , d , and f Rydberg series of CaF. <i>Journal of Chemical Physics</i> , 2011, 134, 114313.	3.0	27
94	On the non-thermal plasma synthesis of nickel nanoparticles. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700104.	3.0	27
95	Covalent Atomic Bridges Enable Unidirectional Enhancement of Electronic Transport in Aligned Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19315-19323.	8.0	27
96	Anomalous Optoelectronic Properties of Chiral Carbon Nanorings and One Ring to Rule Them All. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2702-2706.	4.6	26
97	Correlating Li^+ -Solvation Structure and its Electrochemical Reaction Kinetics with Sulfur in Subnano Confinement. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1739-1745.	4.6	26
98	Size resolved chemical composition of nanoparticles from reactions of sulfuric acid with ammonia and dimethylamine. <i>Aerosol Science and Technology</i> , 2018, 52, 1120-1133.	3.1	26
99	Self-assembly of ordered water tetramers in an encapsulated $[Br(H_2O)_{12}]^+$ complex. <i>Chemical Communications</i> , 2012, 48, 8631.	4.1	25
100	An exclusive fluoride receptor: fluoride-induced proton transfer to a quinoline-based thiourea. <i>Tetrahedron Letters</i> , 2014, 55, 1467-1470.	1.4	25
101	A highly efficient dinuclear Cu_2 chemosensor for colorimetric and fluorescent detection of cyanide in water. <i>RSC Advances</i> , 2014, 4, 54263-54267.	3.6	24
102	Linear polarizabilities and second hyperpolarizabilities of streptocyanines: Results from broken-symmetry DFT and new CCSD(T) benchmarks. <i>Journal of Computational Chemistry</i> , 2018, 39, 2350-2359.	3.3	24
103	Charge-Assisted Encapsulation of Two Chlorides by a Hexaprotonated Azamacrocycle. <i>Crystal Growth and Design</i> , 2010, 10, 1478-1481.	3.0	23
104	Solution-Processable Donor-Acceptor Polymers with Modular Electronic Properties and Very Narrow Bandgaps. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1516-1521.	3.9	23
105	Binding and selectivity of dihydrogen phosphate by H-bond donors and acceptors in a tripodal-based thiourea receptor. <i>Tetrahedron Letters</i> , 2015, 56, 115-118.	1.4	23
106	The diamine cation is not a chemical example where density functional theory fails. <i>Nature Communications</i> , 2018, 9, 4733.	12.8	23
107	Anion directed conformational diversities of an arene based hexa-amide receptor and recognition of the $[F_4(H_2O)_6]^{4+}$ cluster. <i>RSC Advances</i> , 2014, 4, 62689-62693.	3.6	22
108	Harnessing Plasma Environments for Ammonia Catalysis: Mechanistic Insights from Experiments and Large-Scale $Ab Initio$ Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10469-10475.	4.6	22

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109	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> , 2022, 635, 413838.	2.7	22
110	A theoretical and experimental kinetic study of phenyl radical addition to butadiene. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 1049-1056.	3.9	21
111	Sultam-Based Hetero[5]helicene: Synthesis, Structure, and Crystallization-Induced Emission Enhancement. <i>ACS Omega</i> , 2016, 1, 1336-1342.	3.5	21
112	Electronic Signatures of Large Amplitude Motions: Dipole Moments of Vibrationally Excited Local-Bend and Local-Stretch States of SOAcetylene. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18912-18920.	2.6	20
113	Evolution of Chemical Bonding during HCN \rightleftharpoons HNC Isomerization as Revealed through Nuclear Quadrupole Hyperfine Structure. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2969-2972.	13.8	20
114	A Long-Range Electric Field Solver for Molecular Dynamics Based on Atomistic-to-Continuum Modeling. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1736-1749.	5.3	20
115	Electron beam synthesis of metal and semiconductor nanoparticles using metal-organic frameworks as ordered precursors. <i>Nanotechnology</i> , 2011, 22, 375601.	2.6	20
116	Melt-Growth Dynamics in CdTe Crystals. <i>Physical Review Letters</i> , 2012, 108, 245503.	7.8	20
117	Ab initio metadynamics calculations reveal complex interfacial effects in acetic acid deprotonation dynamics. <i>Journal of Molecular Liquids</i> , 2021, 330, 115624.	4.9	20
118	High-fidelity simulations of CdTe vapor deposition from a bond-order potential-based molecular dynamics method. <i>Physical Review B</i> , 2012, 85, .	3.2	19
119	Quantum confinement of excitons in wurtzite InP nanowires. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	19
120	Nanoarchitectonics of Metal-Free Porous Polyketone as Photocatalytic Assemblies for Artificial Photosynthesis. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 771-783.	8.0	19
121	Anion Complexation Studies of 3-Nitrophenyl-Substituted Tripodal Thiourea Receptor: A Naked-Eye Detection of Sulfate via Fluoride Displacement Assay. <i>ACS Omega</i> , 2017, 2, 9057-9066.	3.5	18
122	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> , 2018, 4, 1534566.	2.5	18
123	High Magnetic Field Detunes Vibronic Resonances in Photosynthetic Light Harvesting. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5548-5554.	4.6	18
124	A new interpretation of the structure and solvent dependence of the far UV circular dichroism spectrum of short oligopeptides. <i>Chemical Communications</i> , 2019, 55, 5701-5704.	4.1	18
125	Charge density wave hampers exciton condensation in Cu_2S . <i>Physical Review B</i> , 2019, 100, .	3.2	18
126	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> , 2020, 117, 11289-11298.	7.1	18

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127	Photo-induced degradation of PFASs: Excited-state mechanisms from real-time time-dependent density functional theory. <i>Journal of Hazardous Materials</i> , 2022, 423, 127026.	12.4	18
128	PAMELA: An open-source software package for calculating nonlocal exact exchange effects on electron gases in core-shell nanowires. <i>AIP Advances</i> , 2012, 2, 032173.	1.3	17
129	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> , 2020, 124, 2579-2590.	2.6	17
130	Field Programmable Gate Arrays for Enhancing the Speed and Energy Efficiency of Quantum Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 2085-2098.	5.3	17
131	<i>Ab initio</i> metadynamics calculations of dimethylamine for probing pK _b variations in bulk vs. surface environments. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26265-26277.	2.8	17
132	Separation of long-range and short-range interactions in Rydberg states of diatomic molecules. <i>Journal of Chemical Physics</i> , 2008, 128, 194301.	3.0	16
133	Defect formation dynamics during CdTe overlayer growth. <i>Physical Review B</i> , 2012, 85, .	3.2	16
134	Colorimetric and optical discrimination of halides by a simple chemosensor. <i>RSC Advances</i> , 2015, 5, 38733-38741.	3.6	16
135	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> , 2020, 22, 22889-22899.	2.8	16
136	High-Temperature Decomposition of Diisopropyl Methylphosphonate on Alumina: Mechanistic Predictions from <i>Ab Initio</i> Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21922-21932.	3.1	16
137	Electrocatalytic water oxidation performance in an extended porous organic framework with a covalent alliance of distinct Ru sites. <i>Nanoscale</i> , 2022, 14, 7621-7633.	5.6	16
138	Effects of large-amplitude torsions on partition functions: beyond the conventional separability assumption. <i>Molecular Physics</i> , 2005, 103, 1027-1034.	1.7	15
139	Enhanced photocurrent efficiency of a carbon nanotube p-n junction electromagnetically coupled to a photonic structure. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 055111.	2.8	15
140	A refined parameterization of the analytical Cd-Zn-Te bond-order potential. <i>Journal of Molecular Modeling</i> , 2013, 19, 5469-5477.	1.8	14
141	Chirality Induced Spin Selectivity of Photoexcited Electrons in Carbon-Sulfur [n]Helicenes. <i>ChemPhotoChem</i> , 2019, 3, 770-777.	3.0	14
142	Modulating the conductance in graphene nanoribbons with multi-barriers under an applied voltage. <i>Results in Physics</i> , 2021, 27, 104505.	4.1	14
143	Predicting Complex Erosion Profiles in Steam Distribution Headers with Convolutional and Recurrent Neural Networks. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8520-8529.	3.7	14
144	Physical removal of metallic carbon nanotubes from nanotube network devices using a thermal and fluidic process. <i>Nanotechnology</i> , 2013, 24, 105202.	2.6	13

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145	Analytical Bond-Order Potential for the CdTe/Se Ternary System. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20661-20679.	3.1	13
146	A prediction of dislocation-free CdTe/CdS photovoltaic multilayers via nanopatterning and composition grading. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1837-1846.	8.1	13
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