

Todd J Martinez

List of Publications by Year in descending order

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317
papers

24,527
citations

5569

82
h-index

9090

144
g-index

353
all docs

353
docs citations

353
times ranked

13678
citing authors

#	ARTICLE	IF	CITATIONS
1	Rank-reduced coupled-cluster. III. Tensor hypercontraction of the doubles amplitudes. Journal of Chemical Physics, 2022, 156, 054102.	1.2	15
2	Internal conversion of the anionic GFP chromophore: in and out of the I-twisted S ₁ /S ₀ conical intersection seam. Chemical Science, 2022, 13, 373-385.	3.7	23
3	Dissociative electron attachment to 5-bromo-uracil: non-adiabatic dynamics on complex-valued potential energy surfaces. Physical Chemistry Chemical Physics, 2022, 24, 6845-6855.	1.3	3
4	Chiral photochemistry of achiral molecules. Nature Communications, 2022, 13, 2091.	5.8	11
5	Bringing chemical structures to life with augmented reality, machine learning, and quantum chemistry. Journal of Chemical Physics, 2022, 156, .	1.2	6
6	A multi-stage single photochrome system for controlled photoswitching responses. Nature Chemistry, 2022, 14, 942-948.	6.6	18
7	Steric and Electronic Origins of Fluorescence in GFP and GFP-like Proteins. Journal of the American Chemical Society, 2022, 144, 12732-12746.	6.6	8
8	<scp>TeraChem</scp>: A graphical processing unit<scp>â€accelerated</scp> electronic structure package for <scp>largeâ€scale</scp> ab initio molecular dynamics. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2021, 11, e1494.	6.2	143
9	Reduced scaling formulation of CASPT2 analytical gradients using the supporting subspace method. Journal of Chemical Physics, 2021, 154, 014103.	1.2	19
10	The non-adiabatic nanoreactor: towards the automated discovery of photochemistry. Chemical Science, 2021, 12, 7294-7307.	3.7	31
11	USING MACHINE LEARNING TO LEARN CHEMISTRY. , 2021, , .		0
12	Voice-controlled quantum chemistry. Nature Computational Science, 2021, 1, 42-45.	3.8	8
13	Nitromethane Decomposition via Automated Reaction Discovery and an <i>Ab Initio</i> Corrected Kinetic Model. Journal of Physical Chemistry A, 2021, 125, 1447-1460.	1.1	16
14	Cover Image, Volume 11, Issue 2. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2021, 11, e1523.	6.2	5
15	A Tribute to Emily A. Carter. Journal of Physical Chemistry A, 2021, 125, 1669-1670.	1.1	0
16	Substituent Effects in Mechanochemical Allowed and Forbidden Cyclobutene Ring-Opening Reactions. Journal of the American Chemical Society, 2021, 143, 3846-3855.	6.6	26
17	Comparing (stochastic-selection) <i>ab initio</i> multiple spawning with trajectory surface hopping for the photodynamics of cyclopropanone, fulvene, and dithiane. Journal of Chemical Physics, 2021, 154, 104110.	1.2	18
18	Parallel molecular mechanisms for enzyme temperature adaptation. Science, 2021, 371, .	6.0	48

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19	Analytical derivatives of the individual state energies in ensemble density functional theory. II. Implementation on graphical processing units (GPUs). <i>Journal of Chemical Physics</i> , 2021, 154, 104108.	1.2	8
20	A Tribute to Emily A. Carter. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4331-4332.	1.5	0
21	Electrostatic Control of Photoisomerization in Channelrhodopsin 2. <i>Journal of the American Chemical Society</i> , 2021, 143, 5425-5437.	6.6	17
22	Unmasking the <i>cis</i> -Stilbene Phantom State via Vacuum Ultraviolet Time-Resolved Photoelectron Spectroscopy and <i>Ab Initio</i> Multiple Spawning. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6363-6369.	2.1	18
23	Understanding the Mechanochemistry of Ladder-Type Cyclobutane Mechanophores by Single Molecule Force Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 12328-12334.	6.6	26
24	Flyby reaction trajectories: Chemical dynamics under extrinsic force. <i>Science</i> , 2021, 373, 208-212.	6.0	33
25	A diagrammatic approach for automatically deriving analytical gradients of tensor hyper-contracted electronic structure methods. <i>Journal of Chemical Physics</i> , 2021, 155, 024108.	1.2	2
26	Chemical physics software. <i>Journal of Chemical Physics</i> , 2021, 155, 010401.	1.2	2
27	Direct observation of ultrafast hydrogen bond strengthening in liquid water. <i>Nature</i> , 2021, 596, 531-535.	13.7	53
28	Observation of conformer-specific photochemical dynamics with MeV ultrafast electron diffraction. , 2021, , .		0
29	Resolving the ultrafast dynamics of the anionic green fluorescent protein chromophore in water. <i>Chemical Science</i> , 2021, 12, 11347-11363.	3.7	28
30	Transient resonant Auger–Meitner spectra of photoexcited thymine. <i>Faraday Discussions</i> , 2021, 228, 555-570.	1.6	11
31	ChemPix: automated recognition of hand-drawn hydrocarbon structures using deep learning. <i>Chemical Science</i> , 2021, 12, 10622-10633.	3.7	20
32	Conformer-specific photochemistry imaged in real space and time. <i>Science</i> , 2021, 374, 178-182.	6.0	20
33	InteraChem: Virtual Reality Visualizer for Reactive Interactive Molecular Dynamics. <i>Journal of Chemical Education</i> , 2021, 98, 3486-3492.	1.1	16
34	Predictions of Pre-edge Features in Time-Resolved Near-Edge X-ray Absorption Fine Structure Spectroscopy from Hole–Hole Tamm–Dancoff-Approximated Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7120-7133.	2.3	3
35	Proton Transfer from a Photoacid to a Water Wire: First Principles Simulations and Fast Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12539-12551.	1.2	11
36	In Silico Discovery of Multistep Chemistry Initiated by a Conical Intersection: The Challenging Case of Donor–Acceptor Stenhouse Adducts. <i>Journal of the American Chemical Society</i> , 2021, 143, 20015-20021.	6.6	18

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37	GPU acceleration of rank-reduced coupled-cluster singles and doubles. <i>Journal of Chemical Physics</i> , 2021, 155, 184110.	1.2	6
38	Quantum Chemistry Common Driver and Databases (QCDB) and Quantum Chemistry Engine (QCEngine): Automation and interoperability among computational chemistry programs. <i>Journal of Chemical Physics</i> , 2021, 155, 204801.	1.2	15
39	2020 JCP Emerging Investigator Special Collection. <i>Journal of Chemical Physics</i> , 2021, 155, 230401.	1.2	1
40	The cascade unzipping of ladderane reveals dynamic effects in mechanochemistry. <i>Nature Chemistry</i> , 2020, 12, 302-309.	6.6	76
41	The Mechanics of the Bicycle Pedal Photoisomerization in Crystalline <i>cis,cis</i> -1,4-Diphenyl-1,3-butadiene. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8897-8906.	1.1	6
42	Intermolecular vibrations mediate ultrafast singlet fission. <i>Science Advances</i> , 2020, 6, .	4.7	42
43	JCP Emerging Investigator Special Collection 2019. <i>Journal of Chemical Physics</i> , 2020, 153, 110402.	1.2	2
44	Hole-hole Tamm-Dancoff-approximated density functional theory: A highly efficient electronic structure method incorporating dynamic and static correlation. <i>Journal of Chemical Physics</i> , 2020, 153, 024110.	1.2	34
45	Efficient Treatment of Large Active Spaces through Multi-GPU Parallel Implementation of Direct Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1586-1596.	2.3	20
46	Nonadiabatic Dynamics Simulation of the Wavelength-Dependent Photochemistry of Azobenzene Excited to the $n\pi^*$ and $\pi\pi^*$ Excited States. <i>Journal of the American Chemical Society</i> , 2020, 142, 20680-20690.	6.6	46
47	An <i>ab initio</i> exciton model for singlet fission. <i>Journal of Chemical Physics</i> , 2020, 153, 184116.	1.2	16
48	A multilayer multi-configurational approach to efficiently simulate large-scale circuit-based quantum computers on classical machines. <i>Journal of Chemical Physics</i> , 2020, 153, 051101.	1.2	3
49	<i>Ab Initio</i> Nonadiabatic Molecular Dynamics with Hole-hole Tamm-Dancoff Approximated Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5499-5511.	2.3	27
50	PySpawn: Software for Nonadiabatic Quantum Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5485-5498.	2.3	10
51	Proton Transfer Dynamics in the Aprotic Proton Accepting Solvent 1-Methylimidazole. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7897-7908.	1.2	6
52	Putting Photomechanical Switches to Work: An <i>Ab Initio</i> Multiple Spawning Study of Donor-Acceptor Stenhouse Adducts. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7901-7907.	2.1	21
53	Electronic structure software. <i>Journal of Chemical Physics</i> , 2020, 153, 070401.	1.2	34
54	Fast transformations between configuration state function and Slater determinant bases for direct configuration interaction. <i>Journal of Chemical Physics</i> , 2020, 152, 164111.	1.2	11

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55	Strictly non-adiabatic quantum control of the acetylene dication using an infrared field. <i>Journal of Chemical Physics</i> , 2020, 152, 184302.	1.2	1
56	Nonadiabatic Dynamics of Photoexcited <i>cis</i> -Stilbene Using Ab Initio Multiple Spawning. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5476-5487.	1.2	24
57	Simultaneous observation of nuclear and electronic dynamics by ultrafast electron diffraction. <i>Science</i> , 2020, 368, 885-889.	6.0	92
58	TeraChem: Accelerating electronic structure and <i>ab initio</i> molecular dynamics with graphical processing units. <i>Journal of Chemical Physics</i> , 2020, 152, 224110.	1.2	87
59	Performance of Coupled-Cluster Singles and Doubles on Modern Stream Processing Architectures. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4021-4028.	2.3	22
60	Reduced scaling extended multi-state CASPT2 (XMS-CASPT2) using supporting subspaces and tensor hyper-contraction. <i>Journal of Chemical Physics</i> , 2020, 152, 234113.	1.2	17
61	Matter-wave interference of a native polypeptide. <i>Nature Communications</i> , 2020, 11, 1447.	5.8	23
62	Strong, Nonresonant Radiation Enhances <i>Cis</i> → <i>Trans</i> Photoisomerization of Stilbene in Solution. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5999-6008.	1.1	7
63	SSAIMS Stochastic-Selection <i>Ab Initio</i> Multiple Spawning for Efficient Nonadiabatic Molecular Dynamics. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6133-6143.	1.1	13
64	TeraChem Cloud: A High-Performance Computing Service for Scalable Distributed GPU-Accelerated Electronic Structure Calculations. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2126-2137.	2.5	21
65	Probing competing relaxation pathways in malonaldehyde with transient X-ray absorption spectroscopy. <i>Chemical Science</i> , 2020, 11, 4180-4193.	3.7	29
66	Reaction Dynamics of Cyanohydrins with Hydrosulfide in Water. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7210-7217.	1.1	4
67	On combining the conductor-like screening model and optimally tuned range-separated hybrid density functionals. <i>Journal of Chemical Physics</i> , 2019, 150, 174117.	1.2	9
68	Observation of Ultrafast Intersystem Crossing in Thymine by Extreme Ultraviolet Time-Resolved Photoelectron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6897-6903.	1.1	29
69	Disentangling conical intersection and coherent molecular dynamics in methyl bromide with attosecond transient absorption spectroscopy. <i>Nature Communications</i> , 2019, 10, 3133.	5.8	68
70	Photo-protection/photo-damage in natural systems: general discussion. <i>Faraday Discussions</i> , 2019, 216, 538-563.	1.6	4
71	Photovoltaics and bio-inspired light harvesting: general discussion. <i>Faraday Discussions</i> , 2019, 216, 269-300.	1.6	0
72	First-Principles Characterization of the Elusive I Fluorescent State and the Structural Evolution of Retinal Protonated Schiff Base in Bacteriorhodopsin. <i>Journal of the American Chemical Society</i> , 2019, 141, 18193-18203.	6.6	43

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73	Diffractive imaging of dissociation and ground-state dynamics in a complex molecule. <i>Physical Review A</i> , 2019, 100, .	1.0	21
74	Imaging the ring opening reaction of 1,3-cyclohexadiene with MeV ultrafast electron diffraction. <i>EPJ Web of Conferences</i> , 2019, 205, 07006.	0.1	0
75	Computational Discovery of the Origins of Life. <i>ACS Central Science</i> , 2019, 5, 1493-1495.	5.3	19
76	Sub-Femtosecond Stark Control of Molecular Photoexcitation with Near Single-Cycle Pulses. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 742-747.	2.1	10
77	<i>Ab Initio</i> Computation of Rotationally-Averaged Pump-Probe X-ray and Electron Diffraction Signals. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1523-1537.	2.3	24
78	Multicolor Mechanochromism of a Polymer/Silica Composite with Dual Distinct Mechanophores. <i>Journal of the American Chemical Society</i> , 2019, 141, 1898-1902.	6.6	105
79	Perturbation of Short Hydrogen Bonds in Photoactive Yellow Protein via Noncanonical Amino Acid Incorporation. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4844-4849.	1.2	12
80	Electrostatic Influence on Photoisomerization in Bacteriorhodopsin and Halorhodopsin. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4850-4857.	1.2	4
81	Quantum Computation of Electronic Transitions Using a Variational Quantum Eigensolver. <i>Physical Review Letters</i> , 2019, 122, 230401.	2.9	150
82	Nonadiabatic Photodynamics of Retinal Protonated Schiff Base in Channelrhodopsin 2. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2862-2868.	2.1	25
83	Rank reduced coupled cluster theory. I. Ground state energies and wavefunctions. <i>Journal of Chemical Physics</i> , 2019, 150, 164118.	1.2	37
84	The photochemical ring-opening of 1,3-cyclohexadiene imaged by ultrafast electron diffraction. <i>Nature Chemistry</i> , 2019, 11, 504-509.	6.6	157
85	Geodesic interpolation for reaction pathways. <i>Journal of Chemical Physics</i> , 2019, 150, 164103.	1.2	41
86	Relaxation Dynamics of Hydrated Thymine, Thymidine, and Thymidine Monophosphate Probed by Liquid Jet Time-Resolved Photoelectron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10676-10684.	1.1	17
87	Rank reduced coupled cluster theory. II. Equation-of-motion coupled-cluster singles and doubles. <i>Journal of Chemical Physics</i> , 2019, 151, 164121.	1.2	13
88	Exploiting graphical processing units to enable quantum chemistry calculation of large solvated molecules with conductor-like polarizable continuum models. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25760.	1.0	34
89	<i>Ab Initio</i> Nonadiabatic Quantum Molecular Dynamics. <i>Chemical Reviews</i> , 2018, 118, 3305-3336.	23.0	459
90	Excited state non-adiabatic dynamics of the smallest polyene, <i>trans</i> -1,3-butadiene. I. Time-resolved photoelectron-photoion coincidence spectroscopy. <i>Journal of Chemical Physics</i> , 2018, 148, 164302.	1.2	35

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91	Large-Scale Functional Group Symmetry-Adapted Perturbation Theory on Graphical Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1737-1753.	2.3	19
92	Nonadiabatic Ab Initio Molecular Dynamics with the Floating Occupation Molecular Orbital-Complete Active Space Configuration Interaction Method. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 339-350.	2.3	53
93	A program for automatically predicting supramolecular aggregates and its application to urea and porphyrin. <i>Journal of Computational Chemistry</i> , 2018, 39, 763-772.	1.5	9
94	Excited state non-adiabatic dynamics of the smallest polyene, <i>trans</i> -1,3-butadiene. II. Ab initio multiple spawning simulations. <i>Journal of Chemical Physics</i> , 2018, 148, 164303.	1.2	51
95	Mixed quantum-classical electrodynamics: Understanding spontaneous decay and zero-point energy. <i>Physical Review A</i> , 2018, 97, .	1.0	27
96	Ab Initio Prediction of Fluorescence Lifetimes Involving Solvent Environments by Means of COSMO and Vibrational Broadening. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9813-9820.	1.1	10
97	Photoannealing of Merocyanine Aggregates. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9821-9832.	1.1	8
98	Imaging CF ₃ conical intersection and photodissociation dynamics with ultrafast electron diffraction. <i>Science</i> , 2018, 361, 64-67.	6.0	170
99	Reduced scaling CASPT2 using supporting subspaces and tensor hyper-contraction. <i>Journal of Chemical Physics</i> , 2018, 149, 044108.	1.2	31
100	Structural Coupling Throughout the Active Site Hydrogen Bond Networks of Ketosteroid Isomerase and Photoactive Yellow Protein. <i>Journal of the American Chemical Society</i> , 2018, 140, 9827-9843.	6.6	34
101	Large-Scale Electron Correlation Calculations: Rank-Reduced Full Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 4139-4150.	2.3	23
102	Atomistic non-adiabatic dynamics of the LH2 complex with a GPU-accelerated ab initio exciton model. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14924-14936.	1.3	64
103	A direct-compatible formulation of the coupled perturbed complete active space self-consistent field equations on graphical processing units. <i>Journal of Chemical Physics</i> , 2017, 146, 174113.	1.2	50
104	An Ab Initio Exciton Model Including Charge-Transfer Excited States. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3493-3504.	2.3	85
105	Atomic orbital-based SOS-MP2 with tensor hypercontraction. II. Local tensor hypercontraction. <i>Journal of Chemical Physics</i> , 2017, 146, 034104.	1.2	29
106	Ĥ±-CASSCF: An Efficient, Empirical Correction for SA-CASSCF To Closely Approximate MS-CASPT2 Potential Energy Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2432-2437.	2.1	31
107	Probing ultrafast ĩ€*/nĩ€* internal conversion in organic chromophores via K-edge resonant absorption. <i>Nature Communications</i> , 2017, 8, 29.	5.8	144
108	Building a More Predictive Protein Force Field: A Systematic and Reproducible Route to AMBER-FB15. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4023-4039.	1.2	192

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109	Ab Initio Reactive Computer Aided Molecular Design. <i>Accounts of Chemical Research</i> , 2017, 50, 652-656.	7.6	44
110	Ab Initio Multiple Spawning Photochemical Dynamics of DMABN Using GPUs. <i>Journal of Physical Chemistry A</i> , 2017, 121, 265-276.	1.1	48
111	Absorption and Fluorescence Features of an Amphiphilic <i>meso</i> -Pyrimidinylcorrole: Experimental Study and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8614-8624.	1.1	14
112	Pomeranz's Fritsch Synthesis of Isoquinoline: Gas-Phase Collisional Activation Opens Additional Reaction Pathways. <i>Journal of the American Chemical Society</i> , 2017, 139, 14352-14355.	6.6	15
113	Ultrafast isomerization in acetylene dication after carbon K-shell ionization. <i>Nature Communications</i> , 2017, 8, 453.	5.8	31
114	Analytical gradients for tensor hyper-contracted MP2 and SOS-MP2 on graphical processing units. <i>Journal of Chemical Physics</i> , 2017, 147, 161723.	1.2	21
115	Analytical derivatives of the individual state energies in ensemble density functional theory method. I. General formalism. <i>Journal of Chemical Physics</i> , 2017, 147, 034113.	1.2	49
116	The Spin-Flip Variant of the Algebraic-Diagrammatic Construction Yields the Correct Topology of $S_{1/0}$ Conical Intersections. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4436-4441.	2.3	28
117	Mechanochemical unzipping of insulating polyladderene to semiconducting polyacetylene. <i>Science</i> , 2017, 357, 475-479.	6.0	240
118	Description of ground and excited electronic states by ensemble density functional method with extended active space. <i>Journal of Chemical Physics</i> , 2017, 147, 064104.	1.2	27
119	Crossing conditions in coupled cluster theory. <i>Journal of Chemical Physics</i> , 2017, 147, 164105.	1.2	40
120	The Quality of the Embedding Potential Is Decisive for Minimal Quantum Region Size in Embedding Calculations: The Case of the Green Fluorescent Protein. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6230-6236.	2.3	32
121	Probing molecular photoinduced dynamics by ultrafast soft x-rays. , 2017, , .		1
122	Observing Femtosecond Fragmentation Using Ultrafast X-ray-Induced Auger Spectra. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 681.	1.3	19
123	Adapting DFT+ <i>U</i> for the Chemically Motivated Correction of Minimal Basis Set Incompleteness. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5939-5949.	1.1	19
124	Self-consistent implementation of ensemble density functional theory method for multiple strongly correlated electron pairs. <i>Journal of Chemical Physics</i> , 2016, 145, 244104.	1.2	23
125	Communication: A difference density picture for the self-consistent field ansatz. <i>Journal of Chemical Physics</i> , 2016, 144, 131101.	1.2	6
126	Communication: GAIMS' Generalized <i>Ab Initio</i> Multiple Spawning for both internal conversion and intersystem crossing processes. <i>Journal of Chemical Physics</i> , 2016, 144, 101102.	1.2	93

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127	Comment on "Positive semidefinite tensor factorizations of the two-electron integral matrix for low-scaling ab initio electronic structure" [J. Chem. Phys. 143, 064103 (2015)]. Journal of Chemical Physics, 2016, 145, 027101.	1.2	1
128	Atomic orbital-based SOS-MP2 with tensor hypercontraction. I. GPU-based tensor construction and exploiting sparsity. Journal of Chemical Physics, 2016, 144, 174111.	1.2	52
129	Communication: XFAIMS "eXternal Field Ab Initio Multiple Spawning for electron-nuclear dynamics triggered by short laser pulses. Journal of Chemical Physics, 2016, 145, 191104.	1.2	31
130	Rich Athermal Ground State Chemistry Triggered by Dynamics through a Conical Intersection. Angewandte Chemie, 2016, 128, 15217-15220.	1.6	12
131	How Large Should the QM Region Be in QM/MM Calculations? The Case of Catechol <i>o</i> -Methyltransferase. Journal of Physical Chemistry B, 2016, 120, 11381-11394.	1.2	150
132	Molecular Origin of Mechanical Sensitivity of the Reaction Rate in Anthracene Cyclophane Isomerization Reveals Structural Motifs for Rational Design of Mechanophores. Journal of Physical Chemistry C, 2016, 120, 17898-17908.	1.5	15
133	Toward fully quantum modelling of ultrafast photodissociation imaging experiments. Treating tunnelling in the ab initio multiple cloning approach. Faraday Discussions, 2016, 194, 81-94.	1.6	26
134	Pressure-Induced Neutral-to-Ionic Transition in an Amorphous Organic Material. Chemistry of Materials, 2016, 28, 6446-6449.	3.2	4
135	Rich Athermal Ground State Chemistry Triggered by Dynamics through a Conical Intersection. Angewandte Chemie - International Edition, 2016, 55, 14993-14996.	7.2	29
136	"Balancing the Block Davidson" Liu Algorithm. Journal of Chemical Theory and Computation, 2016, 12, 3003-3007.	2.3	23
137	GPU-Accelerated State-Averaged Complete Active Space Self-Consistent Field Interfaced with Ab Initio Multiple Spawning Unravels the Photodynamics of Provitamin D ₃ . Journal of Physical Chemistry Letters, 2016, 7, 2444-2449.	2.1	55
138	Dynamical Correlation Effects on Photoisomerization: Ab Initio Multiple Spawning Dynamics with MS-CASPT2 for a Model <i>trans</i> -Protonated Schiff Base. Journal of Physical Chemistry B, 2016, 120, 1940-1949.	1.2	61
139	Automated Code Engine for Graphical Processing Units: Application to the Effective Core Potential Integrals and Gradients. Journal of Chemical Theory and Computation, 2016, 12, 92-106.	2.3	55
140	Using the GVB Ansatz to develop ensemble DFT method for describing multiple strongly correlated electron pairs. Physical Chemistry Chemical Physics, 2016, 18, 21040-21050.	1.3	22
141	Automated Discovery and Refinement of Reactive Molecular Dynamics Pathways. Journal of Chemical Theory and Computation, 2016, 12, 638-649.	2.3	95
142	Transient NEXAFS Spectroscopy at the Oxygen Edge: Pinning Down $\tilde{\epsilon}^*/\tilde{n}^*$ Internal Conversion. , 2016, , .		1
143	Evidence of Hydrogen Migration rather than Isomerization in the Acetylene Dication. , 2016, , .		0
144	Efficient implementation of effective core potential integrals and gradients on graphical processing units. Journal of Chemical Physics, 2015, 143, 014114.	1.2	17

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145	Analytic first derivatives of floating occupation molecular orbital-complete active space configuration interaction on graphical processing units. <i>Journal of Chemical Physics</i> , 2015, 143, 014111.	1.2	44
146	An atomic orbital-based formulation of analytical gradients and nonadiabatic coupling vector elements for the state-averaged complete active space self-consistent field method on graphical processing units. <i>Journal of Chemical Physics</i> , 2015, 143, 154107.	1.2	60
147	Preface: Special Topic Section on Advanced Electronic Structure Methods for Solids and Surfaces. <i>Journal of Chemical Physics</i> , 2015, 143, 102601.	1.2	10
148	How Does Peripheral Functionalization of Ruthenium(II)â€“Terpyridine Complexes Affect Spatial Charge Redistribution after Photoexcitation at the Franckâ€“Condon Point?. <i>ChemPhysChem</i> , 2015, 16, 1395-1404.	1.0	34
149	Origin of the Individual Basicity of Corrole NH-Tautomers: A Quantum Chemical Study on Molecular Structure and Dynamics, Kinetics, and Thermodynamics. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6875-6883.	1.1	19
150	Tensor Hypercontraction Second-Order MÅllerâ€“Plesset Perturbation Theory: Grid Optimization and Reaction Energies. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3042-3052.	2.3	47
151	Direct QM/MM Excited-State Dynamics of Retinal Protonated Schiff Base in Isolation and Methanol Solution. <i>Journal of Physical Chemistry B</i> , 2015, 119, 704-714.	1.2	32
152	Inducing and quantifying forbidden reactivity with single-molecule polymer mechanochemistry. <i>Nature Chemistry</i> , 2015, 7, 323-327.	6.6	182
153	Quantum Chemistry for Solvated Molecules on Graphical Processing Units Using Polarizable Continuum Models. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3131-3144.	2.3	91
154	Mediation of donorâ€“acceptor distance in an enzymatic methyl transfer reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7954-7959.	3.3	65
155	Determination of Hydrogen Bond Structure in Water versus Aprotic Environments To Test the Relationship Between Length and Stability. <i>Journal of the American Chemical Society</i> , 2015, 137, 5730-5740.	6.6	75
156	Quantum chemical insights into the dependence of porphyrin basicity on the meso-aryl substituents: thermodynamics, buckling, reaction sites and molecular flexibility. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14096-14106.	1.3	31
157	An atomic orbital-based formulation of the complete active space self-consistent field method on graphical processing units. <i>Journal of Chemical Physics</i> , 2015, 142, 224103.	1.2	98
158	<i>Ab initio</i> multiple spawning on laser-dressed states: a study of 1,3-cyclohexadiene photoisomerization via light-induced conical intersections. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 164003.	0.6	44
159	<i>Ab Initio</i> Interactive Molecular Dynamics on Graphical Processing Units (GPUs). <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4536-4544.	2.3	46
160	Catch and Release: Orbital Symmetry Guided Reaction Dynamics from a Freed â€“Tension Trapped Transition Stateâ€“. <i>Journal of Organic Chemistry</i> , 2015, 80, 11773-11778.	1.7	14
161	Ultrafast isomerization initiated by X-ray core ionization. <i>Nature Communications</i> , 2015, 6, 8199.	5.8	92
162	<i>Ab initio</i> multiple cloning simulations of pyrrole photodissociation: TKER spectra and velocity map imaging. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3316-3325.	1.3	66

#	ARTICLE	IF	CITATIONS
163	<i>Ab initio</i> multiple cloning algorithm for quantum nonadiabatic molecular dynamics. <i>Journal of Chemical Physics</i> , 2014, 141, 054110.	1.2	168
164	Communication: Acceleration of coupled cluster singles and doubles via orbital-weighted least-squares tensor hypercontraction. <i>Journal of Chemical Physics</i> , 2014, 140, 181102.	1.2	57
165	Interfacing the <i>Ab Initio</i> Multiple Spawning Method with Electronic Structure Methods in GAMESS: Photodecay of <i>trans</i> -Azomethane. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10902-10908.	1.1	30
166	Axis-dependence of molecular high harmonic emission in three dimensions. <i>Nature Communications</i> , 2014, 5, 3190.	5.8	18
167	Modeling mechanophore activation within a viscous rubbery network. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 63, 141-153.	2.3	49
168	Multiple time step integrators in <i>ab initio</i> molecular dynamics. <i>Journal of Chemical Physics</i> , 2014, 140, 084116.	1.2	33
169	Discovering chemistry with an <i>ab initio</i> nanoreactor. <i>Nature Chemistry</i> , 2014, 6, 1044-1048.	6.6	286
170	A Remote Stereochemical Lever Arm Effect in Polymer Mechanochemistry. <i>Journal of the American Chemical Society</i> , 2014, 136, 15162-15165.	6.6	89
171	Hexamethylcyclopentadiene: time-resolved photoelectron spectroscopy and <i>ab initio</i> multiple spawning simulations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11770-11779.	1.3	35
172	Direct QM/MM simulation of photoexcitation dynamics in bacteriorhodopsin and halorhodopsin. <i>Chemical Physics Letters</i> , 2014, 610-611, 213-218.	1.2	17
173	Photochemical Dynamics of Ethylene Cation $C_2H_4^{+}$. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1467-1471.	2.1	32
174	Steric and electrostatic effects on photoisomerization dynamics using QM/MM <i>ab initio</i> multiple spawning. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	20
175	<i>Ab Initio</i> Nonadiabatic Dynamics of Multichromophore Complexes: A Scalable Graphical-Processing-Unit-Accelerated Exciton Framework. <i>Accounts of Chemical Research</i> , 2014, 47, 2857-2866.	7.6	83
176	Mechanically triggered heterolytic unzipping of a low-ceiling-temperature polymer. <i>Nature Chemistry</i> , 2014, 6, 623-628.	6.6	198
177	Building Force Fields: An Automatic, Systematic, and Reproducible Approach. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1885-1891.	2.1	400
178	Systematic Improvement on the Classical Molecular Model of Water. <i>Biophysical Journal</i> , 2014, 106, 403a.	0.2	0
179	Steric and electronic contributions to the core reactivity of monoprotonated 5-phenylporphyrin: A DFT study. <i>Chemical Physics Letters</i> , 2014, 603, 21-27.	1.2	12
180	Ultrafast X-ray Auger probing of photoexcited molecular dynamics. <i>Nature Communications</i> , 2014, 5, 4235.	5.8	140

#	ARTICLE	IF	CITATIONS
181	Experimental strategies for optical pump " soft x-ray probe experiments at the LCLS. Journal of Physics: Conference Series, 2014, 488, 012015.	0.3	16
182	Time-resolved photoelectron spectroscopy and ab initio multiple spawning studies of hexamethylcyclopentadiene. , 2014, , .		0
183	Systematic Improvement of a Classical Molecular Model of Water. Journal of Physical Chemistry B, 2013, 117, 9956-9972.	1.2	279
184	Generating Efficient Quantum Chemistry Codes for Novel Architectures. Journal of Chemical Theory and Computation, 2013, 9, 213-221.	2.3	316
185	Exact Tensor Hypercontraction: A Universal Technique for the Resolution of Matrix Elements of Local Finite-Range N -Body Potentials in Many-Body Quantum Problems. Physical Review Letters. 2013. 111. 132505.	2.9	61
186	Discrete variable representation in electronic structure theory: Quadrature grids for least-squares tensor hypercontraction. Journal of Chemical Physics, 2013, 138, 194107.	1.2	45
187	Tensor Hypercontraction Equation-of-Motion Second-Order Approximate Coupled Cluster: Electronic Excitation Energies in $O(N^4)$ Time. Journal of Physical Chemistry B, 2013, 117, 12972-12978.	1.2	54
188	The Charge Transfer Problem in Density Functional Theory Calculations of Aqueously Solvated Molecules. Journal of Physical Chemistry B, 2013, 117, 12189-12201.	1.2	92
189	Exploring the Conical Intersection Seam: The Seam Space Nudged Elastic Band Method. Journal of Chemical Theory and Computation, 2013, 9, 1155-1163.	2.3	44
190	Quartic scaling second-order approximate coupled cluster singles and doubles via tensor hypercontraction: THC-CC2. Journal of Chemical Physics, 2013, 138, 124111.	1.2	66
191	Enhancement of strong-field multiple ionization in the vicinity of the conical intersection in 1,3-cyclohexadiene ring opening. Journal of Chemical Physics, 2013, 139, 184309.	1.2	8
192	Modeling mechanophore activation within a crosslinked glassy matrix. Journal of Applied Physics, 2013, 114, .	1.1	48
193	Relation of exact Gaussian basis methods to the dephasing representation: Theory and application to time-resolved electronic spectra. Journal of Chemical Physics, 2013, 139, 034112.	1.2	35
194	Ultrafast internal conversion in ethylene. II. Mechanisms and pathways for quenching and hydrogen elimination. Journal of Chemical Physics, 2012, 136, 124317.	1.2	72
195	Tensor hypercontraction. II. Least-squares renormalization. Journal of Chemical Physics, 2012, 137, 224106.	1.2	162
196	Communication: Tensor hypercontraction. III. Least-squares tensor hypercontraction for the determination of correlated wavefunctions. Journal of Chemical Physics, 2012, 137, 221101.	1.2	135
197	Nonlinear dimensionality reduction for nonadiabatic dynamics: The influence of conical intersection topography on population transfer rates. Journal of Chemical Physics, 2012, 137, 22A519.	1.2	53
198	Between ethylene and polyenes - the non-adiabatic dynamics of cis-dienes. Faraday Discussions, 2012, 157, 193.	1.6	54

#	ARTICLE	IF	CITATIONS
199	Transient X-Ray Fragmentation: Probing a Prototypical Photoinduced Ring Opening. <i>Physical Review Letters</i> , 2012, 108, 253006.	2.9	56
200	Electronic Absorption Spectra from MM and <i>ab Initio</i> QM/MM Molecular Dynamics: Environmental Effects on the Absorption Spectrum of Photoactive Yellow Protein. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 5092-5106.	2.3	158
201	Control of 1,3-Cyclohexadiene Photoisomerization Using Light-Induced Conical Intersections. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2758-2763.	1.1	95
202	Role of Rydberg States in the Photochemical Dynamics of Ethylene. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2808-2818.	1.1	127
203	Ab Initio Quantum Chemistry for Protein Structures. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12501-12509.	1.2	99
204	Tensor hypercontraction density fitting. I. Quartic scaling second- and third-order Møller-Plesset perturbation theory. <i>Journal of Chemical Physics</i> , 2012, 137, 044103.	1.2	210
205	Porting Optimized GPU Kernels to a Multi-core CPU: Computational Quantum Chemistry Application Example. , 2011, , .		4
206	Time-resolved photoelectron spectroscopy from first principles: Excited state dynamics of benzene. <i>Faraday Discussions</i> , 2011, 150, 293.	1.6	61
207	Dynamic Precision for Electron Repulsion Integral Evaluation on Graphical Processing Units (GPUs). <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 949-954.	2.3	138
208	Charge Transfer and Polarization in Solvated Proteins from Ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1789-1793.	2.1	113
209	<i>Ab Initio</i> Multiple Spawning: First Principles Dynamics Around Conical Intersections. <i>Advanced Series in Physical Chemistry</i> , 2011, , 347-374.	1.5	10
210	Reactive Cross-Talk between Adjacent Tension-Trapped Transition States. <i>Journal of the American Chemical Society</i> , 2011, 133, 3222-3225.	6.6	63
211	Excited-State Electronic Structure with Configuration Interaction Singles and Tamm-Dancoff Time-Dependent Density Functional Theory on Graphical Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1814-1823.	2.3	180
212	Ultrafast internal conversion in ethylene. I. The excited state lifetime. <i>Journal of Chemical Physics</i> , 2011, 134, 244306.	1.2	126
213	A scheme to interpolate potential energy surfaces and derivative coupling vectors without performing a global diabaticization. <i>Journal of Chemical Physics</i> , 2011, 135, 224110.	1.2	59
214	Conformationally selective photodissociation dynamics of propanal cation. <i>Journal of Chemical Physics</i> , 2011, 134, 054313.	1.2	15
215	Dynamical Quadrature Grids. , 2011, , 35-42.		3
216	High-Performance Computing with Accelerators. <i>Computing in Science and Engineering</i> , 2010, 12, 12-16.	1.2	14

#	ARTICLE	IF	CITATIONS
217	Optimization of width parameters for quantum dynamics with frozen Gaussian basis sets. <i>Chemical Physics</i> , 2010, 370, 70-77.	0.9	55
218	Seaming is believing. <i>Nature</i> , 2010, 467, 412-413.	13.7	95
219	A divide and conquer real space finite-element Hartree-Fock method. <i>Journal of Chemical Physics</i> , 2010, 132, 034101.	1.2	29
220	<i>Ab initio</i> floating occupation molecular orbital-complete active space configuration interaction: An efficient approximation to CASSCF. <i>Journal of Chemical Physics</i> , 2010, 132, 234102.	1.2	106
221	Protonic Gating of Excited-State Twisting and Charge Localization in GFP Chromophores: A Mechanistic Hypothesis for Reversible Photoswitching. <i>Journal of the American Chemical Society</i> , 2010, 132, 1192-1193.	6.6	100
222	Direct self-consistent field computations on GPU clusters. , 2010, , .		6
223	Trapping a Diradical Transition State by Mechanochemical Polymer Extension. <i>Science</i> , 2010, 329, 1057-1060.	6.0	280
224	Variational geminal-augmented multireference self-consistent field theory: Two-electron systems. <i>Journal of Chemical Physics</i> , 2010, 132, 054103.	1.2	30
225	Masked Cyanoacrylates Unveiled by Mechanical Force. <i>Journal of the American Chemical Society</i> , 2010, 132, 4558-4559.	6.6	149
226	Implementation of Scientific Computing Applications on the Cell Broadband Engine. <i>Scientific Programming</i> , 2009, 17, 135-151.	0.5	7
227	An "optimal" spawning algorithm for adaptive basis set expansion in nonadiabatic dynamics. <i>Journal of Chemical Physics</i> , 2009, 130, 134113.	1.2	82
228	Charge conservation in electronegativity equalization and its implications for the electrostatic properties of fluctuating-charge models. <i>Journal of Chemical Physics</i> , 2009, 131, 044114.	1.2	27
229	Observation of a Zundel-like transition state during proton transfer in aqueous hydroxide solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15154-15159.	3.3	111
230	Force-induced activation of covalent bonds in mechanoresponsive polymeric materials. <i>Nature</i> , 2009, 459, 68-72.	13.7	1,446
231	Quantum Chemistry on Graphical Processing Units. 2. Direct Self-Consistent-Field Implementation. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1004-1015.	2.3	354
232	Quantum Chemistry on Graphical Processing Units. 3. Analytical Energy Gradients, Geometry Optimization, and First Principles Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2619-2628.	2.3	734
233	Quantum Chemistry on Graphical Processing Units. 2. Direct Self-Consistent-Field (SCF) Implementation. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3138-3138.	2.3	18
234	Revisiting Molecular Dissociation in Density Functional Theory: A Simple Model. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 770-780.	2.3	84

#	ARTICLE	IF	CITATIONS
235	A multistate empirical valence bond model for solvation and transport simulations of OH [•] in aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9420.	1.3	45
236	Photodynamics in Complex Environments: <i>Ab Initio</i> Multiple Spawning Quantum Mechanical/Molecular Mechanical Dynamics. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3280-3291.	1.2	259
237	<i>Ab Initio</i> Multiple Spawning Dynamics Using Multi-State Second-Order Perturbation Theory. <i>Journal of Physical Chemistry A</i> , 2009, 113, 13656-13662.	1.1	146
238	<i>Ab Initio</i> Multiple Spawning Dynamics of Excited Butadiene: Role of Charge Transfer. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12815-12824.	1.1	109
239	First Principles Dynamics and Minimum Energy Pathways for Mechanochemical Ring Opening of Cyclobutene. <i>Journal of the American Chemical Society</i> , 2009, 131, 6377-6379.	6.6	219
240	The Dissociation Catastrophe in Fluctuating-Charge Models and its Implications for the Concept of Atomic Electronegativity. <i>Progress in Theoretical Chemistry and Physics</i> , 2009, , 397-415.	0.2	5
241	Nonclassical Phase Space Jumps and Optimal Spawning. <i>Progress in Theoretical Chemistry and Physics</i> , 2009, , 35-45.	0.2	0
242	Excited-State Dynamics of Cytosine Reveal Multiple Intrinsic Subpicosecond Pathways. <i>ChemPhysChem</i> , 2008, 9, 2486-2490.	1.0	142
243	Electrostatic control of photoisomerization in the photoactive yellow protein chromophore: <i>Ab initio</i> multiple spawning dynamics. <i>Chemical Physics Letters</i> , 2008, 460, 272-277.	1.2	56
244	Implementation of <i>ab initio</i> multiple spawning in the Molpro quantum chemistry package. <i>Chemical Physics</i> , 2008, 347, 3-16.	0.9	190
245	Quantum Chemistry on Graphical Processing Units. 1. Strategies for Two-Electron Integral Evaluation. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 222-231.	2.3	458
246	Graphical Processing Units for Quantum Chemistry. <i>Computing in Science and Engineering</i> , 2008, 10, 26-34.	1.2	169
247	Optimizing Conical Intersections without Derivative Coupling Vectors: Application to Multistate Multireference Second-Order Perturbation Theory (MS-CASPT2). <i>Journal of Physical Chemistry B</i> , 2008, 112, 405-413.	1.2	340
248	On the Extent and Connectivity of Conical Intersection Seams and the Effects of Three-State Intersections. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12559-12567.	1.1	46
249	A unified theoretical framework for fluctuating-charge models in atom-space and in bond-space. <i>Journal of Chemical Physics</i> , 2008, 129, 214113.	1.2	44
250	<i>Ab initio</i> multiple spawning dynamics of excited state intramolecular proton transfer: the role of spectroscopically dark states. <i>Molecular Physics</i> , 2008, 106, 537-545.	0.8	31
251	Pseudospectral time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2008, 128, 104103.	1.2	63
252	Optimization of Semiempirical Quantum Chemistry Methods via Multiobjective Genetic Algorithms: Accurate Photodynamics for Larger Molecules and Longer Time Scales. <i>Materials and Manufacturing Processes</i> , 2007, 22, 553-561.	2.7	20

#	ARTICLE	IF	CITATIONS
253	First Principles Dynamics of Photoexcited DNA and RNA Bases. AIP Conference Proceedings, 2007, , .	0.3	5
254	Comparative Genomics and Site-Directed Mutagenesis Support the Existence of Only One Input Channel for Protons in the C-Family (<i>cbb₃</i> Oxidase) of Heme ^o Copper Oxygen Reductases. Biochemistry, 2007, 46, 9963-9972.	1.2	70
255	Conformationally Controlled Chemistry: Excited-State Dynamics Dictate Ground-State Reaction. Science, 2007, 315, 1561-1565.	6.0	100
256	Substituent Effects on Dynamics at Conical Intersections: $\hat{\pi}, \hat{\pi}^2$ -Enones. Journal of Physical Chemistry A, 2007, 111, 11948-11960.	1.1	75
257	Ab Initio Molecular Dynamics of Excited-State Intramolecular Proton Transfer Using Multireference Perturbation Theory. Journal of Physical Chemistry A, 2007, 111, 11302-11310.	1.1	110
258	A Continuous Spawning Method for Nonadiabatic Dynamics and Validation for the Zero \hbar Temperature Spin \hbar Boson Problem. Israel Journal of Chemistry, 2007, 47, 75-88.	1.0	29
259	Ab Initio Molecular Dynamics and Time-Resolved Photoelectron Spectroscopy of Electronically Excited Uracil and Thymine. Journal of Physical Chemistry A, 2007, 111, 8500-8508.	1.1	355
260	QTPIE: Charge transfer with polarization current equalization. A fluctuating charge model with correct asymptotics. Chemical Physics Letters, 2007, 438, 315-320.	1.2	165
261	The vibrationally adiabatic torsional potential energy surface of trans-stilbene. Chemical Physics Letters, 2007, 440, 7-11.	1.2	19
262	A charged ring model for classical OH ⁺ (aq) simulations. Chemical Physics Letters, 2007, 442, 128-133.	1.2	46
263	Isomerization Through Conical Intersections. Annual Review of Physical Chemistry, 2007, 58, 613-634.	4.8	741
264	Conical intersections and double excitations in time-dependent density functional theory. Molecular Physics, 2006, 104, 1039-1051.	0.8	557
265	Insights for Light-Driven Molecular Devices from Ab Initio Multiple Spawning Excited-State Dynamics of Organic and Biological Chromophores. Accounts of Chemical Research, 2006, 39, 119-126.	7.6	213
266	Ab Initio Molecular Dynamics of Excited-State Intramolecular Proton Transfer around a Three-State Conical Intersection in Malonaldehyde \hbar . Journal of Physical Chemistry A, 2006, 110, 618-630.	1.1	92
267	Evolutionary Migration of a Post-Translationally Modified Active-Site Residue in the Proton-Pumping Heme-Copper Oxygen Reductases \hbar . Biochemistry, 2006, 45, 15405-15410.	1.2	63
268	Multiobjective genetic algorithms for multiscaling excited state direct dynamics in photochemistry. , 2006, , .		4
269	Multicentered valence electron effective potentials: A solution to the link atom problem for ground and excited electronic states. Journal of Chemical Physics, 2006, 124, 084107.	1.2	50
270	Computation of Reaction Mechanisms and Dynamics in Photobiology. Theoretical and Computational Chemistry, 2005, 16, 225-253.	0.2	3

#	ARTICLE	IF	CITATIONS
271	Simulation of the photodynamics of azobenzene on its first excited state: Comparison of full multiple spawning and surface hopping treatments. <i>Journal of Chemical Physics</i> , 2005, 123, 234308.	1.2	121
272	Helix Switching of a Key Active-Site Residue in the Cytochrome <i>cbb3</i> Oxidase. <i>Biochemistry</i> , 2005, 44, 10766-10775.	1.2	56
273	Competitive Decay at Two- and Three-State Conical Intersections in Excited-State Intramolecular Proton Transfer. <i>Journal of the American Chemical Society</i> , 2005, 127, 4560-4561.	6.6	117
274	Using Meta Conjugation To Enhance Charge Separation versus Charge Recombination in Phenylacetylene Donor-Bridge-Acceptor Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 16348-16349.	6.6	97
275	Excited state direct dynamics of benzene with reparameterized multi-reference semiempirical configuration interaction methods. <i>Chemical Physics</i> , 2004, 304, 133-145.	0.9	60
276	Ab initio equation-of-motion coupled-cluster molecular dynamics with \hat{a} -on-the-fly TM diabaticization: the doublet-like feature in the photoabsorption spectrum of ethylene. <i>Chemical Physics Letters</i> , 2004, 398, 407-413.	1.2	16
277	Conical intersection dynamics in solution: The chromophore of Green Fluorescent Protein. <i>Faraday Discussions</i> , 2004, 127, 149-163.	1.6	222
278	A New Approach to Reactive Potentials with Fluctuating Charges: A Quadratic Valence-Bond Model. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3076-3084.	1.1	40
279	Variable Electronic Coupling in Phenylacetylene Dendrimers: The Role of Förster, Dexter, and Charge-Transfer Interactions. <i>Journal of Physical Chemistry A</i> , 2004, 108, 671-682.	1.1	111
280	Mechanism and Dynamics of Azobenzene Photoisomerization. <i>Journal of the American Chemical Society</i> , 2003, 125, 8098-8099.	6.6	296
281	Ab Initio Study of Cis-Trans Photoisomerization in Stilbene and Ethylene. <i>Journal of Physical Chemistry A</i> , 2003, 107, 829-837.	1.1	251
282	Ab initio molecular dynamics with equation-of-motion coupled-cluster theory: electronic absorption spectrum of ethylene. <i>Chemical Physics Letters</i> , 2003, 375, 299-308.	1.2	45
283	Meta-Conjugation and Excited-State Coupling in Phenylacetylene Dendrimers. <i>Journal of the American Chemical Society</i> , 2003, 125, 9288-9289.	6.6	93
284	Ab Initio Excited-State Dynamics of the Photoactive Yellow Protein Chromophore. <i>Journal of the American Chemical Society</i> , 2003, 125, 12710-12711.	6.6	108
285	Conical Intersections in Solution: A QM/MM Study Using Floating Occupation Semiempirical Configuration Interaction Wave Functions. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3822-3830.	1.1	162
286	Electronic structure of solid 1,3,5-triamino-2,4,6-trinitrobenzene under uniaxial compression: Possible role of pressure-induced metallization in energetic materials. <i>Physical Review B</i> , 2003, 67, .	1.1	77
287	Quantum Energy Flow and trans-Stilbene Photoisomerization: An Example of a Non-RRKM Reaction. <i>Journal of Physical Chemistry A</i> , 2003, 107, 10706-10716.	1.1	94
288	Ab Initio Quantum Molecular Dynamics. <i>Advances in Chemical Physics</i> , 2002, , 439-512.	0.3	279

#	ARTICLE	IF	CITATIONS
289	The role of intersection topography in bond selectivity of cis-trans photoisomerization. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1769-1773.	3.3	138
290	Solvation of the Fluoride Anion by Methanol. Journal of Physical Chemistry A, 2002, 106, 10015-10021.	1.1	29
291	Optimization of Conical Intersections with Floating Occupation Semiempirical Configuration Interaction Wave Functions. Journal of Physical Chemistry A, 2002, 106, 4679-4689.	1.1	75
292	Classical Fluctuating Charge Theories: The Maximum Entropy Valence Bond Formalism and Relationships to Previous Models. Journal of Physical Chemistry A, 2001, 105, 2842-2850.	1.1	44
293	Ab Initio Multiple Spawning: Photochemistry from First Principles Quantum Molecular Dynamics. Journal of Physical Chemistry A, 2000, 104, 5161-5175.	1.1	717
294	Ab Initio Study of Coupled Electron Transfer/Proton Transfer in Cytochrome c Oxidase. Journal of Physical Chemistry A, 2000, 104, 2367-2374.	1.1	24
295	Direct Observation of Disrotatory Ring-Opening in Photoexcited Cyclobutene Using ab Initio Molecular Dynamics. Journal of the American Chemical Society, 2000, 122, 6299-6300.	6.6	25
296	Electronic Absorption and Resonance Raman Spectroscopy from Ab Initio Quantum Molecular Dynamics. Journal of Physical Chemistry A, 1999, 103, 10517-10527.	1.1	58
297	Semiclassical Tunneling Rates from Ab Initio Molecular Dynamics. Journal of Physical Chemistry A, 1999, 103, 6055-6059.	1.1	50
298	Quantum dynamics of the femtosecond photoisomerization of retinal in bacteriorhodopsin. Faraday Discussions, 1998, 110, 447-462.	1.6	83
299	Electronic Energy Funnels in Cis-Trans Photoisomerization of Retinal Protonated Schiff Base. Journal of Physical Chemistry A, 1998, 102, 9607-9617.	1.1	13
300	Non-adiabatic molecular dynamics: Split-operator multiple spawning with applications to photodissociation. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 941-947.	1.7	51
301	Molecular Collision Dynamics on Several Electronic States. Journal of Physical Chemistry A, 1997, 101, 6389-6402.	1.1	114
302	Nonstationary Electronic States and Site-Selective Reactivity. Journal of Physical Chemistry A, 1997, 101, 7702-7710.	1.1	113
303	Dynamical Stereochemistry on Several Electronic States: A Computational Study of Na* + H2. Journal of Physical Chemistry A, 1997, 101, 7522-7529.	1.1	20
304	Ab initio molecular dynamics around a conical intersection: Li(2p) + H2. Chemical Physics Letters, 1997, 272, 139-147.	1.2	99
305	Multi-Electronic-State Molecular Dynamics: A Wave Function Approach with Applications. The Journal of Physical Chemistry, 1996, 100, 7884-7895.	2.9	371
306	Local weak pairs spectral and pseudospectral singles and doubles configuration interaction. Journal of Chemical Physics, 1996, 105, 6455-6470.	1.2	53

#	ARTICLE	IF	CITATIONS
307	Direct imaging of excited electronic states using diffraction techniques: theoretical considerations. Chemical Physics Letters, 1996, 262, 405-414.	1.2	44
308	Dynamics of the collisional electron transfer and femtosecond photodissociation of NaI on ab initio electronic energy curves. Chemical Physics Letters, 1996, 259, 252-260.	1.2	59
309	Classical/quantal method for multistate dynamics: A computational study. Journal of Chemical Physics, 1996, 104, 2847-2856.	1.2	87
310	First-principles molecular dynamics on multiple electronic states: A case study of NaI. Journal of Chemical Physics, 1996, 105, 6334-6341.	1.2	66
311	Pseudospectral correlation methods on distributed memory parallel architectures. Chemical Physics Letters, 1995, 241, 490-496.	1.2	8
312	Pseudospectral multireference single and double excitation configuration interaction. Journal of Chemical Physics, 1995, 102, 7564-7572.	1.2	39
313	PSEUDOSPECTRAL METHODS APPLIED TO THE ELECTRON CORRELATION PROBLEM. Advanced Series in Physical Chemistry, 1995, , 1132-1165.	1.5	39
314	Pseudospectral Møller-Plesset perturbation theory through third order. Journal of Chemical Physics, 1994, 100, 3631-3638.	1.2	70
315	Pseudospectral double excitation configuration interaction. Journal of Chemical Physics, 1993, 98, 7081-7085.	1.2	29
316	Pseudospectral full configuration interaction. Journal of Chemical Physics, 1992, 97, 1876-1880.	1.2	45
317	Interactive Molecular Dynamics: Exploring Excited States in Virtual Reality with Ab Initio Interactive Molecular Dynamics. Journal of Chemical Theory and Computation, 0, , .	2.3	3