## H Bernhard Schlegel

List of Publications by Year in descending order

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		22153	3579
222	34,171	59	181
papers	citations	h-index	g-index
227	227	227	18259
11 1	1		10235
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Calculations of p <i>K</i> <sub>a</sub> Values for a Series of Naturally Occurring Modified Nucleobases. Journal of Physical Chemistry A, 2022, 126, 1518-1529.	2.5	16
2	Distinct Bimetallic Cooperativity Among Water Reduction Catalysts Containing [Co <sup>III</sup> Co <sup>III</sup> ], [Ni <sup>II</sup> Ni <sup>II</sup> ], and [Zn <sup>II</sup> Zn <sup>II</sup> ] Cores. Chemistry - A European Journal, 2022, , .	3.3	1
3	Stereoselective 1,2- <i>cis</i> Furanosylations Catalyzed by Phenanthroline. Journal of the American Chemical Society, 2022, 144, 7441-7456.	13.7	15
4	Ionization of HCCI Neutral and Cations by Strong Laser Fields Simulated With Time Dependent Configuration Interaction. Frontiers in Chemistry, 2022, 10, 866137.	3.6	3
5	Phenanthroline-Catalyzed Stereoselective Formation of α-1,2- <i>cis</i> 2-Deoxy-2-Fluoro Glycosides. ACS Catalysis, 2021, 11, 2108-2120.	11.2	12
6	The Bond Dissociation Energy of the N–O Bond. Journal of Physical Chemistry A, 2021, 125, 5014-5021.	2.5	30
7	Alkyl Radical-Free Cu(I) Photocatalytic Cross-Coupling: A Theoretical Study of Anomerically Specific Photocatalyzed Glycosylation of Pyranosyl Bromide. Inorganic Chemistry, 2021, 60, 12801-12812.	4.0	2
8	Sequential double ionization of molecules by strong laser fields simulated with time-dependent configuration interaction. Journal of Chemical Physics, 2021, 155, 114103.	3.0	7
9	Ab Initio Direct Dynamics. Accounts of Chemical Research, 2021, 54, 3749-3759.	15.6	3
10	Ellipticity controlled dissociative double ionization of ethane by strong fields. Physical Chemistry Chemical Physics, 2021, 23, 23537-23543.	2.8	7
11	Mechanism of Orbital Interactions in the Sharpless Epoxidation with Ti(IV) Peroxides: A DFT Study. Journal of Physical Chemistry A, 2021, 125, 10541-10556.	2.5	4
12	Ascorbic acid: The chemistry underlying its antioxidant properties. Free Radical Biology and Medicine, 2020, 159, 37-43.	2.9	224
13	Angular Dependence of Strong Field Ionization of 2-Phenylethyl- <i>N</i> , <i>N</i> -dimethylamine (PENNA) Using Time-Dependent Configuration Interaction with an Absorbing Potential. Journal of Physical Chemistry A, 2020, 124, 4777-4781.	2.5	9
14	Bond Dissociation Energy of Peroxides Revisited. Journal of Physical Chemistry A, 2020, 124, 4742-4751.	2.5	37
15	Computational Investigation into the Oxidation of Guanine to Form Imidazolone (Iz) and Related Degradation Products. Chemical Research in Toxicology, 2020, 33, 1010-1027.	3.3	5
16	Angular dependence of strong field sequential double ionization for neon and acetylene simulated with time-dependent configuration interaction using CIS and CISD-IP. Journal of Chemical Physics, 2020, 152, 064106.	3.0	12
17	Diastereoselective sp <sup>3</sup> C–O Bond Formation via Visible Light-Induced, Copper-Catalyzed Cross-Couplings of Glycosyl Bromides with Aliphatic Alcohols. ACS Catalysis, 2020, 10, 5990-6001.	11.2	30
18	Effect of spin–orbit coupling on strong field ionization simulated with time-dependent configuration interaction. Journal of Chemical Physics, 2020, 153, 244109.	3.0	9

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19	Angular dependence of strong field ionization of N2 by time-dependent configuration interaction using density functional theory and the Tamm-Dancoff approximation. Journal of Chemical Physics, 2019, 151, .	3.0	15
20	Computational Study of the Oxidation of Guanine To Form 5-Carboxyamido-5-formamido-2-iminohydantoin (21h). Chemical Research in Toxicology, 2019, 32, 2295-2304.	3.3	6
21	Are BrÃ,nsted Acids the True Promoter of Metal-Triflate-Catalyzed Glycosylations? A Mechanistic Probe into 1,2- <i>cis</i> -Aminoglycoside Formation by Nickel Triflate. ACS Catalysis, 2019, 9, 2110-2123.	11.2	35
22	Virtual Issue on Strong Field Chemistry. Journal of Physical Chemistry A, 2019, 123, 4095-4095.	2.5	0
23	Virtual Issue on Strong Field Chemistry. Journal of Physical Chemistry Letters, 2019, 10, 2393-2393.	4.6	2
24	Computational Study of the Formation of C8, C5, and C4 Guanine:Lysine Adducts via Oxidation of Guanine by Sulfate Radical Anion. Journal of Physical Chemistry A, 2019, 123, 5150-5163.	2.5	7
25	Phenanthroline atalyzed Stereoretentive Glycosylations. Angewandte Chemie - International Edition, 2019, 58, 6957-6961.	13.8	38
26	Phenanthroline atalyzed Stereoretentive Glycosylations. Angewandte Chemie, 2019, 131, 7031-7035.	2.0	5
27	Ab initio molecular dynamics study of the reactions of allene cation induced by intense 7 micron laser pulses. Molecular Physics, 2019, 117, 1088-1096.	1.7	1
28	Computational Study of the pH-Dependent Competition between Carbonate and Thymine Addition to the Guanine Radical. Chemical Research in Toxicology, 2019, 32, 195-210.	3.3	9
29	Controlling the strong field fragmentation of ClCHO + using two laser pulses –an ab initio molecular dynamics simulation. Journal of Computational Chemistry, 2019, 40, 200-205.	3.3	6
30	Angular Dependence of Strong Field Ionization of Haloacetylenes HCCX (X = F, Cl, Br, I), Using Time-Dependent Configuration Interaction with an Absorbing Potential. Journal of Physical Chemistry C, 2018, 122, 13751-13757.	3.1	19
31	Photophysical characterization of a highly luminescent divalent-europium-containing azacryptate. Chemical Communications, 2018, 54, 4545-4548.	4.1	36
32	DFT Investigation of Ligand Photodissociation in [Ru <sup>II</sup> (tpy)(bpy)(py)] <sup>2+</sup> and [Ru <sup>II</sup> (tpy)(Me <sub>2</sub> bpy)(py)] <sup>2+</sup> Complexes. Inorganic Chemistry, 2018, 57, 231-240.	4.0	35
33	Disentangling Strong-Field Multielectron Dynamics with Angular Streaking. Journal of Physical Chemistry Letters, 2018, 9, 2539-2545.	4.6	26
34	Luminescence differences between two complexes of divalent europium. Journal of Organometallic Chemistry, 2018, 857, 88-93.	1.8	25
35	Synthetic and Computational Study of Tin-Free Reductive Tandem Cyclizations of Neutral Aminyl Radicals. Organic Letters, 2018, 20, 6340-6344.	4.6	8
36	Immobilization of an Amphiphilic Molecular Cobalt Catalyst on Carbon Black for Ligand-Assisted Water Oxidation. Inorganic Chemistry, 2018, 57, 9748-9756.	4.0	18

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37	Angular Dependence of Ionization by Circularly Polarized Light Calculated with Time-Dependent Configuration Interaction with an Absorbing Potential. Journal of Physical Chemistry A, 2017, 121, 1336-1343.	2.5	23
38	Computational Study of Oxidation of Guanine by Singlet Oxygen ( <sup>1</sup> Δ <sub>g</sub> ) and Formation of Guanine:Lysine Crossâ€Links. Chemistry - A European Journal, 2017, 23, 5804-5813.	3.3	34
39	Deactivation of a Cobalt Catalyst for Water Reduction through Valence Tautomerism. Chemistry - A European Journal, 2017, 23, 9266-9271.	3.3	14
40	Bimetallic Cooperativity in Proton Reduction with an Amidoâ€Bridged Cobalt Catalyst. Chemistry - A European Journal, 2017, 23, 9272-9279.	3.3	21
41	A theoretical study of ascorbic acid oxidation and <b>HOO</b> E™/ <b>O</b> <sub>2</sub> Ë™ <sup>â^'</sup> radical scavenging. Organic and Biomolecular Chemistry, 2017, 15, 4417-4431.	2.8	108
42	A new electron-ion coincidence 3D momentum-imaging method and its application in probing strong field dynamics of 2-phenylethyl-N, N-dimethylamine. Journal of Chemical Physics, 2017, 147, 013920.	3.0	15
43	Improved p <i>K</i> <sub>a</sub> Prediction of Substituted Alcohols, Phenols, and Hydroperoxides in Aqueous Medium Using Density Functional Theory and a Cluster-Continuum Solvation Model. Journal of Physical Chemistry A, 2017, 121, 4698-4706.	2.5	77
44	Attosecond Electron Correlation Dynamics in Double Ionization of Benzene Probed with Two-Electron Angular Streaking. Physical Review Letters, 2017, 119, 123201.	7.8	34
45	Angular Dependence of Strong Field Ionization of CH <sub>3</sub> X (X = F, Cl, Br, or I) Using Time-Dependent Configuration Interaction with an Absorbing Potential. Journal of Physical Chemistry A, 2017, 121, 5940-5946.	2.5	26
46	Frontispiece: Bimetallic Cooperativity in Proton Reduction with an Amidoâ€Bridged Cobalt Catalyst. Chemistry - A European Journal, 2017, 23, .	3.3	0
47	Ultrafast 25-fs relaxation in highly excited states of methyl azide mediated by strong nonadiabatic coupling. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E11072-E11081.	7.1	13
48	A pentadentate nitrogen-rich copper electrocatalyst for water reduction with pH-dependent molecular mechanisms. Dalton Transactions, 2017, 46, 16812-16820.	3.3	21
49	Electronic Modulation of the SOMO–HOMO Energy Gap in Iron(III) Complexes towards Unimolecular Current Rectification. Chemistry - A European Journal, 2016, 22, 10786-10790.	3.3	13
50	Computational simulations of hydrogen circular migration in protonated acetylene induced by circularly polarized light. Journal of Chemical Physics, 2016, 145, 084309.	3.0	4
51	Path optimization by a variational reaction coordinate method. II. Improved computational efficiency through internal coordinates and surface interpolation. Journal of Chemical Physics, 2016, 144, 184101.	3.0	5
52	Angle-dependent strong-field ionization of triple bonded systems calculated by time-dependent configuration interaction with an absorbing potential. Canadian Journal of Chemistry, 2016, 94, 989-997.	1.1	8
53	Computational Study of the Radical Mediated Mechanism of the Formation of C8, C5, and C4 Guanine:Lysine Adducts in the Presence of the Benzophenone Photosensitizer. Chemical Research in Toxicology, 2016, 29, 1396-1409.	3.3	16
54	Are Very Small Emission Quantum Yields Characteristic of Pure Metal-to-Ligand Charge-Transfer Excited States of Ruthenium(II)-(Acceptor Ligand) Chromophores?. Inorganic Chemistry, 2016, 55, 7341-7355.	4.0	8

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55	Theoretical Calculation of p <i>K</i> <sub>a</sub> 's of Selenols in Aqueous Solution Using an Implicit Solvation Model and Explicit Water Molecules. Journal of Physical Chemistry A, 2016, 120, 8916-8922.	2.5	38
56	Efficient electro/photocatalytic water reduction using a [Ni <sup>II</sup> (N <sub>2</sub> Py <sub>3</sub> )] <sup>2+</sup> complex. Chemical Communications, 2016, 52, 13357-13360.	4.1	30
57	Density Functional Theory Calculation of p <i>K</i> <sub>a</sub> 's of Thiols in Aqueous Solution Using Explicit Water Molecules and the Polarizable Continuum Model. Journal of Physical Chemistry A, 2016, 120, 5726-5735.	2.5	146
58	Controlling Chemical Reactions by Short, Intense Mid-Infrared Laser Pulses: Comparison of Linear and Circularly Polarized Light in Simulations of ClCHO <sup>+</sup> Fragmentation. Journal of Physical Chemistry A, 2016, 120, 1120-1126.	2.5	6
59	Effects of Methyl Substitution in Ruthenium Tris(2-pyridylmethyl)amine Photocaging Groups for Nitriles. Inorganic Chemistry, 2016, 55, 6968-6979.	4.0	24
60	Selective Release of Aromatic Heterocycles from Ruthenium Tris(2-pyridylmethyl)amine with Visible Light. Inorganic Chemistry, 2016, 55, 10-12.	4.0	29
61	Investigation into 9(S)-HPODE-derived allene oxide to cyclopentenone cyclization mechanism via diradical oxyallyl intermediates. Organic and Biomolecular Chemistry, 2016, 14, 3544-3557.	2.8	10
62	Evaluation of the coordination preferences and catalytic pathways of heteroaxial cobalt oximes towards hydrogen generation. Chemical Science, 2016, 7, 3264-3278.	7.4	35
63	Exploration of some refinements to geometry optimization methods. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	15
64	Path optimization by a variational reaction coordinate method. I. Development of formalism and algorithms. Journal of Chemical Physics, 2015, 143, 244101.	3.0	12
65	Distinct Proton and Water Reduction Behavior with a Cobalt(III) Electrocatalyst Based on Pentadentate Oximes. Angewandte Chemie, 2015, 127, 7245-7249.	2.0	8
66	Distinct Proton and Water Reduction Behavior with a Cobalt(III) Electrocatalyst Based on Pentadentate Oximes. Angewandte Chemie - International Edition, 2015, 54, 7139-7143.	13.8	21
67	Angle-Dependent Ionization of Hydrides AH <sub><i>n</i></sub> Calculated by Time-Dependent Configuration Interaction with an Absorbing Potential. Journal of Physical Chemistry A, 2015, 119, 10212-10220.	2.5	30
68	Energy Dependence of the Ruthenium(II)-Bipyridine Metal-to-Ligand-Charge-Transfer Excited State Radiative Lifetimes: Effects of ππ*(bipyridine) Mixing. Journal of Physical Chemistry B, 2015, 119, 7393-7406.	2.6	17
69	Angle-Dependent Ionization of Small Molecules by Time-Dependent Configuration Interaction and an Absorbing Potential. Journal of Physical Chemistry Letters, 2015, 6, 2140-2146.	4.6	56
70	Modulation of electronic and redox properties in phenolate-rich cobalt(iii) complexes and their implications for catalytic proton reduction. Dalton Transactions, 2015, 44, 3454-3466.	3.3	17
71	Using bonding to guide transition state optimization. Journal of Computational Chemistry, 2015, 36, 1157-1166.	3.3	17
72	Relativistic and Solvation Effects on the Stability of Gold(III) Halides in Aqueous Solution. Inorganic Chemistry, 2015, 54, 9869-9875.	4.0	14

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73	Selective Photodissociation of Acetonitrile Ligands in Ruthenium Polypyridyl Complexes Studied by Density Functional Theory. Inorganic Chemistry, 2015, 54, 8003-8011.	4.0	38
74	Metal-to-Ligand Charge-Transfer Emissions of Ruthenium(II) Pentaammine Complexes with Monodentate Aromatic Acceptor Ligands and Distortion Patterns of their Lowest Energy Triplet Excited States. Inorganic Chemistry, 2015, 54, 8495-8508.	4.0	15
75	Ligand Transformations and Efficient Proton/Water Reduction with Cobalt Catalysts Based on Pentadentate Pyridineâ€Rich Environments. Angewandte Chemie - International Edition, 2015, 54, 2105-2110.	13.8	61
76	Calculations of p <i>K</i> <sub>a</sub> 's and Redox Potentials of Nucleobases with Explicit Waters and Polarizable Continuum Solvation. Journal of Physical Chemistry A, 2015, 119, 5134-5144.	2.5	111
77	The Mechanisms of Rectification in Au Molecule Au Devices Based on Langmuir–Blodgett Monolayers of Iron(III) and Copper(II) Surfactants. Angewandte Chemie - International Edition, 2014, 53, 14462-14467.	13.8	22
78	A density functional theory and spectroscopic study of intramolecular quenching of metal-to-ligand charge-transfer excited states in some mono-bipyridine ruthenium(II) complexes. Canadian Journal of Chemistry, 2014, 92, 996-1009.	1.1	9
79	Strong-field ionization rates of linear polyenes simulated with time-dependent configuration interaction with an absorbing potential. Journal of Chemical Physics, 2014, 141, 174104.	3.0	37
80	Strong field ionization rates simulated with time-dependent configuration interaction and an absorbing potential. Journal of Chemical Physics, 2014, 140, 174113.	3.0	89
81	Molecular Dynamics of Methylamine, Methanol, and Methyl Fluoride Cations in Intense 7 Micron Laser Fields. Journal of Physical Chemistry A, 2014, 118, 10067-10072.	2.5	4
82	Molecular Dynamics of Methanol Monocation (CH <sub>3</sub> OH <sup>+</sup> ) in Strong Laser Fields. Journal of Physical Chemistry A, 2014, 118, 1769-1776.	2.5	11
83	Molecular dynamics of methanol cation (CH 3 OH + ) in strong fields: Comparison of 800 nm and 7 μm laser fields. Chemical Physics Letters, 2014, 610-611, 219-222.	2.6	5
84	Molecular Dynamics in Strong Laser Fields: A New Algorithm for abÂlnitio Classical Trajectories. Journal of Chemical Theory and Computation, 2013, 9, 3293-3298.	5.3	10
85	Bond-Selective Dissociation of Polyatomic Cations in Mid-Infrared Strong Fields. Journal of Physical Chemistry A, 2013, 117, 11202-11209.	2.5	13
86	Computational Prediction of One-Electron Reduction Potentials and Acid Dissociation Constants for Guanine Oxidation Intermediates and Products. Journal of Physical Chemistry B, 2013, 117, 9518-9531.	2.6	43
87	Can Metallapyrimidines Be Aromatic? A Computational Study into a New Class of Metallacycles. Journal of Chemical Theory and Computation, 2012, 8, 4950-4959.	5.3	20
88	Metallapyrimidines and Metallapyrimidiniums from Oxidative Addition of Pyrazolate N–N Bonds to Niobium(III), Niobium(IV), and Tantalum(IV) Metal Centers and Assessment of Their Aromatic Character. Organometallics, 2012, 31, 5971-5974.	2.3	18
89	A Reaction Accelerator: Mid-infrared Strong Field Dissociation Yields Mode-Selective Chemistry. Journal of Physical Chemistry Letters, 2012, 3, 2541-2547.	4.6	24
90	Theoretical Determination of One-Electron Oxidation Potentials for Nucleic Acid Bases. Journal of Chemical Theory and Computation, 2012, 8, 5107-5123.	5.3	72

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91	Sequential Phenolate Oxidations in Octahedral Cobalt(III) Complexes with [N2O3] Ligands. European Journal of Inorganic Chemistry, 2012, 2012, 4622-4631.	2.0	15
92	Back Cover: Bioinspired Five-Coordinate Iron(III) Complexes for Stabilization of Phenoxyl Radicals (Angew. Chem. Int. Ed. 13/2012). Angewandte Chemie - International Edition, 2012, 51, 3276-3276.	13.8	0
93	Coordinate reduction for exploring chemical reaction paths. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	7
94	HCO+ dissociation in a strong laser field: An ab initio classical trajectory study. Chemical Physics Letters, 2012, 536, 14-18.	2.6	9
95	Ab initio classical trajectory calculations of 1,3-cyclobutanedione radical cation dissociation. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	4
96	TD-CI Simulation of the Electronic Optical Response of Molecules in Intense Fields II: Comparison of DFT Functionals and EOM-CCSD. Journal of Physical Chemistry A, 2011, 115, 11832-11840.	2.5	42
97	TD-CI Simulation of the Electronic Optical Response of Molecules in Intense Fields: Comparison of RPA, CIS, CIS(D), and EOM-CCSD. Journal of Physical Chemistry A, 2011, 115, 4678-4690.	2.5	62
98	Geometry optimization. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 790-809.	14.6	250
99	Steepest descent reaction path integration using a first-order predictor–corrector method. Journal of Chemical Physics, 2010, 133, 224101.	3.0	63
100	A toolkit to assist ONIOM calculations. Journal of Computational Chemistry, 2010, 31, 2363-2369.	3.3	51
101	Common basis for the mechanism of metallo and non-metallo KDO8P synthases. Journal of Inorganic Biochemistry, 2010, 104, 1267-1275.	3.5	5
102	Matrix Metalloproteinase 2 (MMP2) Inhibition: DFT and QM/MM Studies of the Deprotonation-Initialized Ring-Opening Reaction of the Sulfoxide Analogue of SB-3CT. Journal of Physical Chemistry B, 2010, 114, 1030-1037.	2.6	20
103	Ab Initio Classical Trajectory Study of the Fragmentation of C3H4Dications on the Singlet and Triplet Surfaces. Journal of Physical Chemistry A, 2010, 114, 7653-7660.	2.5	13
104	Proton Transfer Studied Using a Combined Ab Initio Reactive Potential Energy Surface with Quantum Path Integral Methodology. Journal of Chemical Theory and Computation, 2010, 6, 2566-2580.	5.3	44
105	QM/MM Studies of the Matrix Metalloproteinase 2 (MMP2) Inhibition Mechanism of ( <i>S</i> )-SB-3CT and its Oxirane Analogue. Journal of Chemical Theory and Computation, 2010, 6, 3580-3587.	5.3	23
106	Large Nonstatistical Branching Ratio in the Dissociation of Pentane-2,4-dione Radical Cation: An Ab Initio Direct Classical Trajectory Study. Journal of Physical Chemistry A, 2009, 113, 1453-1458.	2.5	8
107	Mechanistic Aspects of the Formation of Guanidinohydantoin from Spiroiminodihydantoin under Acidic Conditions. Chemical Research in Toxicology, 2009, 22, 526-535.	3.3	27
108	Ab Initio Classical Trajectory Study of the Dissociation of Neutral and Positively Charged Methanimine (CH <sub>2</sub> NH <sup><i>n</i>+</sup> <i>n</i> = 0â^2). Journal of Physical Chemistry A, 2009, 113, 9958-9964.	2.5	22

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109	The Energy Landscape of 3-Deoxy- <scp>d</scp> - <i>manno</i> -octulosonate 8-Phosphate Synthase. Biochemistry, 2009, 48, 11706-11714.	2.5	13
110	Matrix Metalloproteinase 2 Inhibition: Combined Quantum Mechanics and Molecular Mechanics Studies of the Inhibition Mechanism of (4-Phenoxyphenylsulfonyl)methylthiirane and Its Oxirane Analogue. Biochemistry, 2009, 48, 9839-9847.	2.5	62
111	Distributed Gaussian Valence Bond Surface Derived from Ab Initio Calculations. Journal of Chemical Theory and Computation, 2009, 5, 949-961.	5.3	32
112	Calculation of p <i>K</i> <sub>a</sub> Values of Nucleobases and the Guanine Oxidation Products Guanidinohydantoin and Spiroiminodihydantoin using Density Functional Theory and a Polarizable Continuum Model. Journal of Physical Chemistry B, 2008, 112, 16860-16873.	2.6	179
113	Dissociation of Acetone Radical Cation (CH3COCH3+· → CH3CO+ + CH3·): An Ab Initio Direct Classical Trajectory Study of the Energy Dependence of the Branching Ratio. Journal of Physical Chemistry A, 2008, 112, 13121-13127.	2.5	14
114	An Exploration of Mechanisms for the Transformation of 8-Oxoguanine to Guanidinohydantoin and Spiroiminodihydantoin by Density Functional Theory. Journal of the American Chemical Society, 2008, 130, 5245-5256.	13.7	85
115	Empirical valence bond models for reactive potential energy surfaces. II. Intramolecular proton transfer in pyridone and the Claisen reaction of allyl vinyl ether. Molecular Physics, 2007, 105, 2719-2729.	1.7	14
116	Electronic optical response of molecules in intense fields: Comparison of TD-HF, TD-CIS, and TD-CIS(D) approaches. Journal of Chemical Physics, 2007, 126, 244110.	3.0	96
117	Exploration of Mechanisms for the Transformation of 8-Hydroxy Guanine Radical to FAPyG by Density Functional Theory. Chemical Research in Toxicology, 2007, 20, 432-444.	3.3	46
118	Optimization of Equilibrium Geometries and Transition Structures. Advances in Chemical Physics, 2007, , 249-286.	0.3	124
119	AMBER Force Field Parameters for the Naturally Occurring Modified Nucleosides in RNA. Journal of Chemical Theory and Computation, 2007, 3, 1464-1475.	5.3	168
120	Protonated acetylene revisited. Theoretical Chemistry Accounts, 2007, 118, 75-80.	1.4	22
121	Structural, spectroscopic, and electrochemical behavior of trans-phenolato cobalt(iii) complexes of asymmetric NNâ€2O ligands as archetypes for metallomesogens. Dalton Transactions, 2006, , 2517-2525.	3.3	55
122	Molecular Orbital Studies of Zinc Oxide Chemical Vapor Deposition:  Gas-Phase Radical Reactions. Chemistry of Materials, 2006, 18, 1878-1884.	6.7	17
123	A Single Transition State Serves Two Mechanisms. The Branching Ratio for CH2O•-+ CH3Cl on Improved Potential Energy Surfaces. Journal of Physical Chemistry A, 2006, 110, 2801-2806.	2.5	20
124	Empirical Valence-Bond Models for Reactive Potential Energy Surfaces Using Distributed Gaussians. Journal of Chemical Theory and Computation, 2006, 2, 905-911.	5.3	62
125	Optical Excitations in Carbon Architectures Based on Dodecadehydrotribenzo[18]annuleneâ€. Journal of Physical Chemistry A, 2006, 110, 1305-1318.	2.5	41
126	Electronic excitations in anti-aromatic dehydro[12]- and aromatic dehydro[18]annulenes: a time-dependent density functional theory study. Molecular Physics, 2006, 104, 933-941.	1.7	9

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127	Lysine carboxylation in proteins: OXA-10 β-lactamase. Proteins: Structure, Function and Bioinformatics, 2005, 61, 246-257.	2.6	41
128	Finding minima, transition states, and following reaction pathways on ab initio potential energy surfaces. , 2005, , 195-249.		266
129	X-ray Crystal Structure of the Acylated Î <sup>2</sup> -Lactam Sensor Domain of BlaR1 fromStaphylococcus aureusand the Mechanism of Receptor Activation for Signal Transduction. Journal of the American Chemical Society, 2004, 126, 13945-13947.	13.7	51
130	Fragmentation Pathways in a Series of CH3COX Molecules in the Strong Field Regimeâ€. Journal of Physical Chemistry A, 2004, 108, 3162-3165.	2.5	17
131	Dissociation of acetone radical cation (CH3COCH3+˙ → CH3CO++CH3˙): An ab initio direct classical trajectory study. Physical Chemistry Chemical Physics, 2004, 6, 5166-5171.	2.8	21
132	Ab Initio Classical Trajectory Calculations of Acetylene Dication Dissociation. Journal of Physical Chemistry A, 2004, 108, 468-472.	2.5	10
133	Combined Experimental and Computational Investigation of the Mechanism of Nickel-Catalyzed Three-Component Addition Processes. Organometallics, 2004, 23, 4636-4646.	2.3	106
134	Single Transition State Serves Two Mechanisms. Ab Initio Classical Trajectory Calculations of the Substitutionâ^'Electron Transfer Branching Ratio in CH2O•-+ CH3Cl. Journal of Physical Chemistry A, 2004, 108, 8526-8532.	2.5	29
135	Accurate reaction paths using a Hessian based predictor–corrector integrator. Journal of Chemical Physics, 2004, 120, 9918-9924.	3.0	796
136	Sequential nonadiabatic excitation of large molecules and ions driven by strong laser fields. Physical Review A, 2004, 69, .	2.5	92
137	Hybrid Ab-Initio/Empirical Molecular Dynamics:  Combining the ONIOM Scheme with the Atom-Centered Density Matrix Propagation (ADMP) Approach. Journal of Physical Chemistry B, 2004, 108, 4210-4220.	2.6	131
138	Geometry optimization with QM/MM, ONIOM, and other combined methods. I. Microiterations and constraints. Journal of Computational Chemistry, 2003, 24, 760-769.	3.3	560
139	Exploring potential energy surfaces for chemical reactions: An overview of some practical methods. Journal of Computational Chemistry, 2003, 24, 1514-1527.	3.3	311
140	Geometry optimization methods for modeling large molecules. Computational and Theoretical Chemistry, 2003, 666-667, 31-39.	1.5	24
141	Synthesis, Structure, and Properties of Magnesocene Amine Adducts. Structural Distortions Arising from NⰒH···C5H5-Hydrogen Bonding and Molecular Orbital Calculations Thereof. Organometallics, 2003, 22, 4060-4069.	2.3	22
142	Density matrix search using direct inversion in the iterative subspace as a linear scaling alternative to diagonalization in electronic structure calculations. Journal of Chemical Physics, 2003, 119, 7651-7658.	3.0	52
143	Nonadiabatic dynamics of polyatomic molecules and ions in strong laser fields. Physical Review A, 2003, 68, .	2.5	74
144	Unimolecular Dissociation of Formyl Halides HXCO → CO + HX (X= F, Cl):  An Ab Initio Direct Classical Trajectory Study. Journal of Physical Chemistry A, 2002, 106, 11623-11629.	2.5	19

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