

# Leo Radom

## List of Publications by Year in descending order

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467  
papers

36,502  
citations

5248

83  
h-index

4419

172  
g-index

492  
all docs

492  
docs citations

492  
times ranked

17713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic Vibrational Frequencies: An Evaluation of Hartree-Fock, Møller-Plesset, Quadratic Configuration Interaction, Density Functional Theory, and Semiempirical Scale Factors. <i>The Journal of Physical Chemistry</i> , 1996, 100, 16502-16513.	2.9	6,586
2	An Evaluation of Harmonic Vibrational Frequency Scale Factors. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11683-11700.	1.1	2,264
3	Extension of Gaussian-2 theory to molecules containing third-row atoms Ga-Kr. <i>Journal of Chemical Physics</i> , 1995, 103, 6104-6113.	1.2	958
4	Extension of Gaussian-2 (G2) theory to molecules containing third-row atoms K and Ca. <i>Journal of Chemical Physics</i> , 1997, 107, 5016-5021.	1.2	807
5	Scaling Factors for Obtaining Fundamental Vibrational Frequencies and Zero-Point Energies from HF/6-31G* and MP2/6-31G* Harmonic Frequencies. <i>Israel Journal of Chemistry</i> , 1993, 33, 345-350.	1.0	791
6	Factors Controlling the Addition of Carbon-Centered Radicals to Alkenes: An Experimental and Theoretical Perspective. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1340-1371.	7.2	640
7	Extension of Gaussian-1 (G1) theory to bromine-containing molecules. <i>Journal of Chemical Physics</i> , 1991, 94, 511-516.	1.2	518
8	Extension of Gaussian-2 (G2) theory to bromine- and iodine-containing molecules: Use of effective core potentials. <i>Journal of Chemical Physics</i> , 1995, 103, 1878-1885.	1.2	481
9	Molecular orbital theory of the electronic structure of organic compounds. XIII. Fourier component analysis of internal rotation potential functions in saturated molecules. <i>Journal of the American Chemical Society</i> , 1972, 94, 2371-2381.	6.6	405
10	Heats of Formation from G2, G2(MP2), and G2(MP2,SVP) Total Energies. <i>The Journal of Physical Chemistry</i> , 1996, 100, 17460-17464.	2.9	327
11	Molecular orbital theory of the electronic structure of organic compounds. XII. Conformations, stabilities, and charge distributions in monosubstituted benzenes. <i>Journal of the American Chemical Society</i> , 1972, 94, 1496-1504.	6.6	304
12	G3-RAD and G3X-RAD: Modified Gaussian-3 (G3) and Gaussian-3X (G3X) procedures for radical thermochemistry. <i>Journal of Chemical Physics</i> , 2003, 118, 4849-4860.	1.2	276
13	Bond Dissociation Energies and Radical Stabilization Energies Associated with Substituted Methyl Radicals. <i>Journal of Physical Chemistry A</i> , 2001, 105, 6750-6756.	1.1	265
14	Detection of the prototype phosphonium (CH <sub>2</sub> PH <sub>3</sub> ), sulfonium (CH <sub>2</sub> SH <sub>2</sub> ) and chloronium (CH <sub>2</sub> ClH) ylides by neutralization-reionization mass spectrometry: a theoretical prediction. <i>Journal of the American Chemical Society</i> , 1984, 106, 5805-5808.	6.6	261
15	Ab initio statistical thermodynamical models for the computation of third-law entropies. <i>Journal of Chemical Physics</i> , 1997, 106, 6655-6674.	1.2	253
16	Assigning absolute values to proton affinities: a differentiation between competing scales. <i>Journal of the American Chemical Society</i> , 1993, 115, 4885-4888.	6.6	244
17	Molecular orbital theory of the electronic structure of organic compounds. XVII. Internal rotation in 1,2-disubstituted ethanes. <i>Journal of the American Chemical Society</i> , 1973, 95, 693-698.	6.6	235
18	Transition structures for the interchange of hydrogen atoms within the water dimer. <i>Journal of Chemical Physics</i> , 1990, 92, 1240-1247.	1.2	230

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19	Gas-Phase Identity SN2 Reactions of Halide Anions with Methyl Halides: A High-Level Computational Study. <i>Journal of the American Chemical Society</i> , 1995, 117, 2024-2032.	6.6	230
20	Strong conformational consequences of hyperconjugation. <i>Journal of the American Chemical Society</i> , 1972, 94, 6221-6223.	6.6	224
21	Gaussian-2 (G2) theory: Reduced basis set requirements. <i>Journal of Chemical Physics</i> , 1996, 104, 5148-5152.	1.2	216
22	Trends in R-X Bond Dissociation Energies (R = Me, Et, i-Pr, t-Bu; X = H, CH <sub>3</sub> , OCH <sub>3</sub> , OH, F): A Surprising Shortcoming of Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2005, 109, 7558-7566.	1.1	210
23	A restricted-open-shell complete-basis-set model chemistry. <i>Journal of Chemical Physics</i> , 2006, 125, 094106.	1.2	208
24	An assessment of theoretical procedures for the calculation of reliable free radical thermochemistry: A recommended new procedure. <i>Journal of Chemical Physics</i> , 1998, 108, 604-615.	1.2	206
25	A Priori Prediction of Propagation Rate Coefficients in Free-Radical Polymerizations: Propagation of Ethylene. <i>Macromolecules</i> , 1995, 28, 8771-8781.	2.2	205
26	Structures and stabilities of singly charged three-electron hemibonded systems and their hydrogen-bonded isomers. <i>Journal of the American Chemical Society</i> , 1988, 110, 4931-4941.	6.6	194
27	Rapid Additive-Free Selenocysteine-Selenoester Peptide Ligation. <i>Journal of the American Chemical Society</i> , 2015, 137, 14011-14014.	6.6	181
28	Calculation of Proton Affinities Using the G2(MP2,SVP) Procedure. <i>The Journal of Physical Chemistry</i> , 1995, 99, 6468-6471.	2.9	179
29	Molecular orbital theory of the electronic structure of organic compounds. VII. Systematic study of energies, conformations, and bond interactions. <i>Journal of the American Chemical Society</i> , 1971, 93, 289-300.	6.6	172
30	Distonic radical cations. <i>Tetrahedron</i> , 1986, 42, 6225-6234.	1.0	170
31	Theoretical approach to substituent effects. Phenols and phenoxide ions. <i>Journal of Organic Chemistry</i> , 1980, 45, 818-826.	1.7	165
32	Ab Initio Evidence for Slow Fragmentation in RAFT Polymerization. <i>Journal of the American Chemical Society</i> , 2003, 125, 1490-1491.	6.6	148
33	The weakly exothermic rearrangement of methoxy radical (CH <sub>3</sub> O•) to the hydroxymethyl radical (CH <sub>2</sub> OH•). <i>Journal of Chemical Physics</i> , 1983, 78, 845-853.	1.2	147
34	Gas-Phase Non-Identity SN2 Reactions of Halide Anions with Methyl Halides: A High-Level Computational Study. <i>Journal of the American Chemical Society</i> , 1996, 118, 6273-6284.	6.6	147
35	Radical Addition to Alkenes: A Further Assessment of Theoretical Procedures. <i>Journal of Physical Chemistry A</i> , 1998, 102, 2237-2245.	1.1	147
36	G4(MP2)-6X: A Cost-Effective Improvement to G4(MP2). <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 112-120.	2.3	145

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37	The reversible addition-fragmentation chain transfer process and the strength and limitations of modeling: Comment on "the magnitude of the fragmentation rate coefficient". <i>Journal of Polymer Science Part A</i> , 2003, 41, 2828-2832.	2.5	143
38	Ylides and ylidions: a comparative study of unusual gas-phase structures. <i>Journal of the American Chemical Society</i> , 1987, 109, 2250-2263.	6.6	137
39	Consequences of Spin Contamination in Unrestricted Calculations on Open-Shell Species: Effect of Hartree-Fock and Møller-Plesset Contributions in Hybrid and Double-Hybrid Density Functional Theory Approaches. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13225-13230.	1.1	137
40	Radical Addition to Alkenes: An Assessment of Theoretical Procedures. <i>The Journal of Physical Chemistry</i> , 1995, 99, 8582-8588.	2.9	135
41	C <sup>∞</sup> H <sup>∞</sup> X Hydrogen Bonds of Acetylene, Ethylene, and Ethane with First- and Second-Row Hydrides. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4470-4479.	1.1	135
42	An evaluation of the performance of density functional theory, MP2, MP4, F4, G2(MP2) and G2 procedures in predicting gas-phase proton affinities. <i>Chemical Physics Letters</i> , 1994, 231, 345-351.	1.2	133
43	Slow convergence of the Møller-plesset perturbation series: the dissociation energy of hydrogen cyanide and the electron affinity of the cyano radical. <i>Chemical Physics Letters</i> , 1987, 138, 481-485.	1.2	130
44	Molecular orbital theory of the electronic structure of organic compounds. XVI. Conformations and stabilities of substituted ethyl, propyl, and butyl cations. <i>Journal of the American Chemical Society</i> , 1972, 94, 5935-5945.	6.6	127
45	The mechanism of action of adenosylcobalamin. <i>Journal of the American Chemical Society</i> , 1976, 98, 6331-6338.	6.6	126
46	A theoretical study of the CHNO isomers. <i>Journal of the American Chemical Society</i> , 1977, 99, 7806-7816.	6.6	124
47	Substituent Effects in Xanthate-Mediated Polymerization of Vinyl Acetate: Ab Initio Evidence for an Alternative Fragmentation Pathway. <i>Macromolecules</i> , 2004, 37, 590-596.	2.2	124
48	Reliable Theoretical Procedures for Calculating the Rate of Methyl Radical Addition to Carbon-Carbon Double and Triple Bonds. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2874-2883.	1.1	122
49	Unimolecular rearrangements connecting hydroxyethylidene (CH <sub>3</sub> -C-OH), acetaldehyde (CH <sub>3</sub> -CH:O), and vinyl alcohol (CH <sub>2</sub> :CH-OH). <i>Journal of the American Chemical Society</i> , 1991, 113, 6452-6458.	6.6	121
50	An assessment of theoretical procedures for the calculation of reliable radical stabilization energies. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 2305-2313.	0.9	121
51	The application of ab initio molecular orbital theory to structural moieties of carbohydrates. <i>Carbohydrate Research</i> , 1974, 38, 81-95.	1.1	119
52	The performance of B3-LYP density functional theory in describing SN <sub>2</sub> reactions at saturated carbon. <i>Chemical Physics Letters</i> , 1996, 260, 558-564.	1.2	118
53	Comparison of the Addition of CH <sub>3</sub> ·, CH <sub>2</sub> OH·, and CH <sub>2</sub> CN· Radicals to Substituted Alkenes: A Theoretical Study of the Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 1994, 116, 6284-6292.	6.6	114
54	Molecular orbital theory of the electronic structure of organic compounds. XXII. Structures and stabilities of C <sub>3</sub> H <sub>3</sub> <sup>+</sup> and C <sub>3</sub> H <sup>+</sup> cations. <i>Journal of the American Chemical Society</i> , 1976, 98, 10-14.	6.6	113

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55	Zeolites as Transition-Metal-Free Hydrogenation Catalysts: A Theoretical Mechanistic Study. Journal of the American Chemical Society, 2000, 122, 2613-2620.	6.6	113
56	Structures and stabilities of gas-phase C <sub>2</sub> H <sub>3</sub> O <sup>+</sup> ions: an ab initio molecular orbital study. Journal of the American Chemical Society, 1983, 105, 309-314.	6.6	110
57	Chemoselective Peptide Ligation—Desulfurization at Aspartate. Angewandte Chemie - International Edition, 2013, 52, 9723-9727.	7.2	110
58	Why does unrestricted Møller-Plesset perturbation theory converge so slowly for spin-contaminated wave functions?. Journal of Chemical Physics, 1988, 89, 7307-7314.	1.2	109
59	An Assessment of the Performance of High-Level Theoretical Procedures in the Computation of the Heats of Formation of Small Open-Shell Molecules. Journal of Physical Chemistry A, 2002, 106, 7927-7936.	1.1	109
60	Gas-Phase Identity S <sub>N</sub> 2 Reactions of Halide Anions and Methyl Halides with Retention of Configuration. Journal of the American Chemical Society, 1996, 118, 11258-11264.	6.6	108
61	Planar-Tetracoordinate Carbon in a Neutral Saturated Hydrocarbon: Theoretical Design and Characterization. Angewandte Chemie - International Edition, 1999, 38, 2875-2878.	7.2	106
62	W <sub>2</sub> X and W <sub>3</sub> X-L: Cost-Effective Approximations to W <sub>2</sub> and W <sub>4</sub> with kJ mol <sup>-1</sup> Accuracy. Journal of Chemical Theory and Computation, 2015, 11, 2109-2119.	2.3	106
63	Phenyl Radical, Cation, and Anion. The Triplet-Singlet Gap and Higher Excited States of the Phenyl Cation. Journal of the American Chemical Society, 1997, 119, 8083-8088.	6.6	103
64	Deceptive convergence in Møller-Plesset perturbation energies. Chemical Physics Letters, 1986, 132, 16-22.	1.2	101
65	Fulvalenes, Fulvenes, and Related Molecules: An ab Initio Study. Journal of Organic Chemistry, 1997, 62, 2026-2038.	1.7	101
66	Bond Dissociation Energies and Radical Stabilization Energies: An Assessment of Contemporary Theoretical Procedures. Journal of Physical Chemistry A, 2007, 111, 13638-13644.	1.1	101
67	Reactivity of disulfide bonds is markedly affected by structure and environment: implications for protein modification and stability. Scientific Reports, 2016, 6, 38572.	1.6	101
68	A theoretical study of substituted CHNO isomers. Journal of the American Chemical Society, 1978, 100, 3674-3685.	6.6	100
69	A theoretical approach to substituent effects. Structural consequences of methyl hyperconjugation. Methyl tilt angles and carbon-hydrogen bond lengths. Journal of the American Chemical Society, 1980, 102, 2253-2259.	6.6	98
70	Model for the Exceptional Reactivity of Peroxiredoxins 2 and 3 with Hydrogen Peroxide. Journal of Biological Chemistry, 2011, 286, 18048-18055.	1.6	97
71	Ring Opening of the Cyclopropylcarbinyl Radical and Its N- and O-Substituted Analogues: A Theoretical Examination of Very Fast Unimolecular Reactions. Journal of the American Chemical Society, 1998, 120, 10223-10233.	6.6	96
72	Determination of Arrhenius Parameters for Propagation in Free-Radical Polymerizations: An Assessment of ab Initio Procedures. The Journal of Physical Chemistry, 1996, 100, 18997-19006.	2.9	95

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73	Proton-Transport Catalysis: A Systematic Study of the Rearrangement of the Isoformyl Cation to the Formyl Cation. <i>Journal of the American Chemical Society</i> , 1997, 119, 7573-7578.	6.6	95
74	The Ionization of Alkanes. <i>Israel Journal of Chemistry</i> , 1983, 23, 21-36.	1.0	92
75	Assessment of Theoretical Procedures for Calculating Barrier Heights for a Diverse Set of Water-Catalyzed Proton-Transfer Reactions. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4211-4221.	1.1	92
76	Water-Catalyzed Interconversion of Conventional and Distonic Radical Cations: Methanol and Methyleneoxonium Radical Cations. <i>Journal of the American Chemical Society</i> , 1996, 118, 6299-6300.	6.6	90
77	An ab initio molecular orbital study of the structures and stabilities of the C <sub>2</sub> H <sub>4</sub> O <sup>+</sup> isomers. <i>Journal of the American Chemical Society</i> , 1979, 101, 5540-5545.	6.6	88
78	Existence of stable structural isomers of ketene. A theoretical study of the C <sub>2</sub> H <sub>2</sub> O potential energy surface. <i>Journal of Organic Chemistry</i> , 1982, 47, 1869-1875.	1.7	88
79	Entropies and Free Energies of Protonation and Proton-Transfer Reactions. <i>Journal of the American Chemical Society</i> , 1997, 119, 9014-9020.	6.6	86
80	Design of Radical-Resistant Amino Acid Residues: A Combined Theoretical and Experimental Investigation. <i>Journal of the American Chemical Society</i> , 2003, 125, 4119-4124.	6.6	86
81	Methyleneoxonium radical cation (CH <sub>2</sub> OH <sub>2</sub> <sup>+</sup> ): a surprisingly stable isomer of the methanol radical cation. <i>Journal of the American Chemical Society</i> , 1982, 104, 2929-2930.	6.6	85
82	Theoretical study of the organosulfur systems CSH <sub>n</sub> (n=4) and CSH <sub>n</sub> <sup>+</sup> (n=5): Dissociation 6766-6773.	1.2	85
83	HOC <sup>+</sup> : An observable interstellar species? A comparison with the isomeric and isoelectronic HCO <sup>+</sup> , HCN and HNC. <i>Chemical Physics</i> , 1981, 60, 1-10.	0.9	84
84	Theoretical approach to substituent effects. Structures and stabilities of carbanions XCH <sub>2</sub> . <i>Journal of Organic Chemistry</i> , 1981, 46, 1693-1699.	1.7	83
85	Methyl Radical Addition to CS Double Bonds: Kinetic versus Thermodynamic Preferences. <i>Journal of Physical Chemistry A</i> , 2002, 106, 12124-12138.	1.1	82
86	The Wolff Rearrangement: The Relevant Portion of the Oxirene-Ketene Potential Energy Hypersurface. <i>Journal of the American Chemical Society</i> , 1994, 116, 10159-10164.	6.6	80
87	Effects of Neutral Bases on the Isomerization of Conventional Radical Cations CH <sub>3</sub> X <sup>+</sup> to Their Distonic Isomers CH <sub>2</sub> X+H (X = F, OH, NH <sub>2</sub> ): Proton-Transport Catalysis and Other Mechanisms. <i>Journal of the American Chemical Society</i> , 1997, 119, 9831-9839.	6.6	80
88	Understanding the Mechanism of B <sub>12</sub> -Dependent Diol Dehydratase: A Synergistic Retro-Push-Pull Proposal. <i>Journal of the American Chemical Society</i> , 2001, 123, 1664-1675.	6.6	80
89	Structural predictions for open-shell systems: a comparative assessment of ab initio procedures. <i>The Journal of Physical Chemistry</i> , 1983, 87, 79-82.	2.9	79
90	Variable Trends in R-X Bond Dissociation Energies (R = Me, Et, i-Pr, t-Bu). <i>Organic Letters</i> , 2003, 5, 4689-4692.	2.4	79

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91	W1X-1 and W1X-2: W1-Quality Accuracy with an Order of Magnitude Reduction in Computational Cost. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4259-4269.	2.3	79
92	The evaluation of molecular electron affinities. <i>Journal of Computational Chemistry</i> , 1986, 7, 349-358.	1.5	78
93	6-311G(MC)(d,p): a second-row analogue of the 6-311G(d,p) basis set: calculated heats of formation for second-row hydrides. <i>The Journal of Physical Chemistry</i> , 1988, 92, 4875-4880.	2.9	78
94	The structure and stability of the O <sub>2</sub> +2 dication: a dramatic failure of Møller-Plesset perturbation theory. <i>Chemical Physics Letters</i> , 1991, 182, 216-224.	1.2	78
95	The oxygen analog of the protonated cyclopropane problem. A theoretical study of the C <sub>2</sub> H <sub>5</sub> O+ potential energy surface. <i>Journal of the American Chemical Society</i> , 1981, 103, 1913-1922.	6.6	77
96	Understanding the Mechanism of B12-Dependent Methylmalonyl-CoA Mutase: A Partial Proton Transfer in Action. <i>Journal of the American Chemical Society</i> , 1999, 121, 9388-9399.	6.6	77
97	Optimization and Basis-Set Dependence of a Restricted-Open-Shell Form of B2-PLYP Double-Hybrid Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9861-9873.	1.1	77
98	Experimental evidence for the existence of a stable isomer of CH <sub>3</sub> OH+·: the methylenoxonium radical cation, CH <sub>2</sub> OH <sub>2</sub> +·. <i>Journal of the American Chemical Society</i> , 1982, 104, 2930-2931.	6.6	76
99	Heats of Formation of Alkali Metal and Alkaline Earth Metal Oxides and Hydroxides: Surprisingly Demanding Targets for High-Level ab Initio Procedures. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5617-5630.	1.1	76
100	Is SN <sub>2</sub> Substitution with Inversion of Configuration at Vinylic Carbon Feasible?. <i>Journal of the American Chemical Society</i> , 1994, 116, 5961-5962.	6.6	75
101	Gas-Phase Identity SN <sub>2</sub> Reactions of Halide Ions at Neutral Nitrogen: A High-Level Computational Study. <i>Journal of the American Chemical Society</i> , 1995, 117, 9012-9018.	6.6	75
102	Assessment of Procedures for Calculating Radical Hyperfine Structures. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1352-1359.	1.1	75
103	Structures and stabilities of C <sub>3</sub> H <sub>6</sub> O+· isomers. An ab initio molecular orbital study. <i>Journal of the American Chemical Society</i> , 1980, 102, 2246-2252.	6.6	74
104	Alkaplanes: a class of neutral hydrocarbons containing a potentially planar tetracoordinate carbon. <i>Journal of the American Chemical Society</i> , 1993, 115, 3320-3321.	6.6	74
105	Gas-phase acidities: a comparison of density functional, MP2, MP4, F4, G2(MP2, SVP), G2(MP2) and G2 procedures. <i>Chemical Physics Letters</i> , 1995, 245, 123-128.	1.2	74
106	The additivity of polarization function and electron correlation effects in ab initio molecular-orbital calculations. <i>Chemical Physics Letters</i> , 1982, 89, 497-500.	1.2	73
107	Bond Dissociation Energies and Radical Stabilization Energies Associated with Model Peptide-Backbone Radicals. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6318-6325.	1.1	72
108	Is formamide planar or nonplanar?. <i>Journal of the American Chemical Society</i> , 1979, 101, 2233-2234.	6.6	71

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109	Methane dication: planar but not square. <i>Journal of the American Chemical Society</i> , 1989, 111, 1155-1156.	6.6	71
110	Zeolite-Catalyzed Hydrogenation of Carbon Dioxide and Ethene. <i>Journal of the American Chemical Society</i> , 2008, 130, 9790-9799.	6.6	71
111	Determination of Barrier Heights for Proton Exchange in Small Water, Ammonia, and Hydrogen Fluoride Clusters with G4(MP2)-Type, MP2, and SCS-MP2 Procedures—A Caveat. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3128-3136.	2.3	71
112	Comparison of the Kinetics and Thermodynamics for Methyl Radical Addition to CC, CO, and CS Double Bonds. <i>Journal of the American Chemical Society</i> , 2004, 126, 1732-1740.	6.6	70
113	An Assessment of Theoretical Procedures for Predicting the Thermochemistry and Kinetics of Hydrogen Abstraction by Methyl Radical from Benzene. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8942-8951.	1.1	70
114	Isoelectronic analogs of molecular nitrogen: Tightly bound multiply charged species. <i>Journal of Chemical Physics</i> , 1989, 91, 2971-2979.	1.2	69
115	Nitrosomethane and its nitrene and oxime isomers. A theoretical study of 1,2- and 1,3-intramolecular hydrogen shifts. <i>Journal of the American Chemical Society</i> , 1980, 102, 4069-4074.	6.6	68
116	Rearrangement and dissociative reactions of the methanol radical cation (CH <sub>3</sub> OH <sup>•+</sup> ): a comparison of theory and experiment. <i>Journal of the American Chemical Society</i> , 1991, 113, 7903-7912.	6.6	68
117	Singlet-Triplet Splittings and Barriers to Wolff Rearrangement for Carbonyl Carbenes. <i>Journal of the American Chemical Society</i> , 2001, 123, 6069-6076.	6.6	68
118	Vinyl alcohol. A stable molecule. <i>Journal of the American Chemical Society</i> , 1977, 99, 6443-6444.	6.6	67
119	Are polar interactions important in the addition of methyl radical to alkenes?. <i>Journal of the American Chemical Society</i> , 1993, 115, 11050-11051.	6.6	67
120	Enzyme Catalysis of 1,2-Amino Shifts: The Cooperative Action of B6, B12, and Aminomutases. <i>Journal of the American Chemical Society</i> , 2001, 123, 8678-8689.	6.6	67
121	Accurate quantum chemical energies for tetrapeptide conformations: why MP2 data with an insufficient basis set should be handled with caution. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7028.	1.3	67
122	Ethynol: a theoretical prediction of remarkably high gas-phase acidity. <i>Journal of the American Chemical Society</i> , 1989, 111, 8297-8299.	6.6	66
123	Evaluation of accurate gas-phase acidities. <i>The Journal of Physical Chemistry</i> , 1991, 95, 10549-10551.	2.9	66
124	Addition of tert-Butyl Radical to Substituted Alkenes: A Theoretical Study of the Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 1994, 116, 11938-11943.	6.6	66
125	An evaluation of the performance of G2, G2(MP2) and G2(MP2,SVP) theories for heats of formation and heats of reaction in the case of 'large' hydrocarbons. <i>Molecular Physics</i> , 1996, 88, 759-765.	0.8	66
126	Metal-Mediated Formation of Gas-Phase Amino Acid Radical Cations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8304-8315.	1.1	64



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127	Accelerated Protein Synthesis via One-Pot Ligation-Deselenization Chemistry. <i>CheM</i> , 2017, 2, 703-715.	5.8	64
128	Ab initio molecular orbital studies of sigmatropic rearrangements. <i>International Journal of Quantum Chemistry</i> , 1978, 14, 767-777.	1.0	63
129	Conformations, stabilities, and charge distributions in 2- and 3-monosubstituted furans. An ab initio molecular orbital study. <i>Journal of the American Chemical Society</i> , 1978, 100, 3981-3991.	6.6	63
130	A theoretical approach to the Birch reduction. Structures and stabilities of the radical anions of substituted benzenes. <i>Journal of the American Chemical Society</i> , 1980, 102, 3370-3376.	6.6	63
131	Intramolecular hydrogen migration in ionized amines: a theoretical study of the gas-phase analogs of the Hofmann-Loeffler and related rearrangements. <i>Journal of the American Chemical Society</i> , 1987, 109, 2910-2915.	6.6	63
132	New Theoretical and Experimental Proton Affinities for Methyl Halides and Diazomethane: A Revision of the Methyl Cation Affinity Scale. <i>The Journal of Physical Chemistry</i> , 1994, 98, 13099-13101.	2.9	63
133	Effect of substituents on the stabilities of multiply-substituted carbon-centered radicals. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3636.	1.5	63
134	BDE261: A Comprehensive Set of High-Level Theoretical Bond Dissociation Enthalpies. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4975-4986.	1.1	62
135	Oxirene: To Be or Not To Be?. <i>The Journal of Physical Chemistry</i> , 1994, 98, 8660-8665.	2.9	61
136	Effect of the Penultimate Unit on Radical Stability and Reactivity in Free-Radical Polymerization. <i>Macromolecules</i> , 1999, 32, 2935-2940.	2.2	61
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