

Henry F Schaefer

List of Publications by Year in descending order

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1,011
papers

56,131
citations

1614

105
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2332

199
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1026
all docs

1026
docs citations

1026
times ranked

21258
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in methods and algorithms in a modern quantum chemistry program package. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3172-3191.	2.8	2,597
2	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015, 113, 184-215.	1.7	2,561
3	An efficient reformulation of the closed-shell coupled cluster single and double excitation (CCSD) equations. <i>Journal of Chemical Physics</i> , 1988, 89, 7382-7387.	3.0	1,519
4	Atomic and Molecular Electron Affinities: Photoelectron Experiments and Theoretical Computations. <i>Chemical Reviews</i> , 2002, 102, 231-282.	47.7	1,152
5	Is coupled cluster singles and doubles (CCSD) more computationally intensive than quadratic configuration interaction (QCISD)? <i>Journal of Chemical Physics</i> , 1989, 90, 3700-3703.	3.0	1,065
6	Psi4 1.1: An Open-Source Electronic Structure Program Emphasizing Automation, Advanced Libraries, and Interoperability. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3185-3197.	5.3	961
7	Psi4: an open-source ab initio electronic structure program. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 556-565.	14.6	838
8	On the evaluation of analytic energy derivatives for correlated wave functions. <i>Journal of Chemical Physics</i> , 1984, 81, 5031-5033.	3.0	815
9	A Stable Silicon(0) Compound with a Si=Si Double Bond. <i>Science</i> , 2008, 321, 1069-1071.	12.6	680
10	Extensive theoretical studies of the hydrogen-bonded complexes (H ₂ O) ₂ , (H ₂ O) ₂ H ⁺ , (HF) ₂ , (HF) ₂ H ⁺ , F ₂ H ⁺ , and (NH ₃) ₂ . <i>Journal of Chemical Physics</i> , 1986, 84, 2279-2289.	3.0	666
11	In pursuit of the ab initio limit for conformational energy prototypes. <i>Journal of Chemical Physics</i> , 1998, 108, 9751-9764.	3.0	659
12	A new implementation of the full CCSDT model for molecular electronic structure. <i>Chemical Physics Letters</i> , 1988, 152, 382-386.	2.6	579
13	An Introduction to Coupled Cluster Theory for Computational Chemists. <i>Reviews in Computational Chemistry</i> , 2007, , 33-136.	1.5	531
14	A Stable Neutral Diborene Containing a B=B Double Bond. <i>Journal of the American Chemical Society</i> , 2007, 129, 12412-12413.	13.7	508
15	The C ₂ H ₅ ⁺ O ₂ Reaction Mechanism: High-Level ab Initio Characterizations. <i>Journal of Physical Chemistry A</i> , 2000, 104, 9823-9840.	2.5	496
16	A systematic study of molecular vibrational anharmonicity and vibration-rotation interaction by self-consistent-field higher-derivative methods. Asymmetric top molecules. <i>Chemical Physics</i> , 1988, 123, 187-239.	1.9	476
17	Psi4 1.4: Open-source software for high-throughput quantum chemistry. <i>Journal of Chemical Physics</i> , 2020, 152, 184108.	3.0	440
18	The diagonal correction to the Born-Oppenheimer approximation: Its effect on the singlet-triplet splitting of CH ₂ and other molecular effects. <i>Journal of Chemical Physics</i> , 1986, 84, 4481-4484.	3.0	399

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19	Analytic evaluation of energy gradients for the single and double excitation coupled cluster (CCSD) wave function: Theory and application. <i>Journal of Chemical Physics</i> , 1987, 87, 5361-5373.	3.0	378
20	The graphical unitary group approach to the electron correlation problem. Methods and preliminary applications. <i>Journal of Chemical Physics</i> , 1979, 70, 5092-5106.	3.0	351
21	Localized and Delocalized 1s Hole States of the O ₂ + Molecular Ion. <i>Journal of Chemical Physics</i> , 1972, 56, 224-226.	3.0	323
22	Analytic Raman intensities from molecular electronic wave functions. <i>Journal of Chemical Physics</i> , 1986, 84, 531-532.	3.0	319
23	Toward subchemical accuracy in computational thermochemistry: Focal point analysis of the heat of formation of NCO and [H,N,C,O] isomers. <i>Journal of Chemical Physics</i> , 2004, 120, 11586-11599.	3.0	317
24	Electronic structure of homoleptic transition metal hydrides: TiH ₄ , VH ₄ , CrH ₄ , MnH ₄ , FeH ₄ , CoH ₄ , and NiH ₄ . <i>Journal of Chemical Physics</i> , 1979, 71, 705-712.	3.0	316
25	The closed-shell coupled cluster single and double excitation (CCSD) model for the description of electron correlation. A comparison with configuration interaction (CISD) results. <i>Journal of Chemical Physics</i> , 1987, 86, 2881-2890.	3.0	316
26	Systematic study of molecular anions within the self-consistent-field approximation: OH ⁻ , CN ⁻ , C ₂ H ⁻ , NH ⁻ ₂ , and CH ⁻ ₃ . <i>Journal of Chemical Physics</i> , 1985, 83, 1784-1794.	3.0	312
27	The Configuration Interaction Method: Advances in Highly Correlated Approaches. <i>Advances in Quantum Chemistry</i> , 1999, , 143-269.	0.8	294
28	Concerning zero-point vibrational energy corrections to electronic energies. <i>Journal of Chemical Physics</i> , 1991, 95, 5128-5132.	3.0	284
29	Analytic gradients from correlated wave functions via the two-particle density matrix and the unitary group approach. <i>Journal of Chemical Physics</i> , 1980, 72, 4652-4653.	3.0	279
30	Analytic evaluation and basis set dependence of intensities of infrared spectra. <i>Journal of Chemical Physics</i> , 1986, 84, 2262-2278.	3.0	279
31	A systematic study of molecular vibrational anharmonicity and vibration-rotation interaction by self-consistent-field higher-derivative methods. Linear polyatomic molecules. <i>Chemical Physics</i> , 1990, 145, 427-466.	1.9	267
32	Anchoring the water dimer potential energy surface with explicitly correlated computations and focal point analyses. <i>Journal of Chemical Physics</i> , 2002, 116, 690-701.	3.0	262
33	Coupling term derivation and general implementation of state-specific multireference coupled cluster theories. <i>Journal of Chemical Physics</i> , 2007, 127, 024102.	3.0	255
34	Homonuclear 3d transition-metal diatomics: A systematic density functional theory study. <i>Journal of Chemical Physics</i> , 2000, 113, 690-700.	3.0	249
35	The analytic configuration interaction gradient method: Application to the cyclic and open isomers of the S ₃ molecule. <i>Journal of Chemical Physics</i> , 1986, 85, 963-968.	3.0	245
36	Electron Affinities of the DNA and RNA Bases. <i>Journal of the American Chemical Society</i> , 2001, 123, 4023-4028.	13.7	236

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37	Transition structures for the interchange of hydrogen atoms within the water dimer. Journal of Chemical Physics, 1990, 92, 1240-1247.	3.0	230
38	The shape-driven graphical unitary group approach to the electron correlation problem. Application to the ethylene molecule. Journal of Chemical Physics, 1982, 77, 5584-5592.	3.0	222
39	Coupled cluster energy derivatives. Analytic Hessian for the closed-shell coupled cluster singles and doubles wave function: Theory and applications. Journal of Chemical Physics, 1990, 92, 4924-4940.	3.0	222
40	The balance between theoretical method and basis set quality: A systematic study of equilibrium geometries, dipole moments, harmonic vibrational frequencies, and infrared intensities. Journal of Chemical Physics, 1993, 99, 403-416.	3.0	213
41	High-order excitations in state-universal and state-specific multireference coupled cluster theories: Model systems. Journal of Chemical Physics, 2006, 125, 154113.	3.0	207
42	A Viable Anionic N-Heterocyclic Dicarbene. Journal of the American Chemical Society, 2010, 132, 14370-14372.	13.7	206
43	Concerning the precision of standard density functional programs: Gaussian, Molpro, NWChem, Q-Chem, and Gamess. Computational and Theoretical Chemistry, 2006, 768, 175-181.	1.5	197
44	Definitive Ab Initio Studies of Model SN2 Reactions CH3X+F (X=F, Cl, CN, OH, SH, NH2, PH2). Chemistry - A European Journal, 2003, 9, 2173-2192.	3.3	196
45	Gradient techniques for open-shell restricted Hartree-Fock and multiconfiguration self-consistent-field methods. Journal of Chemical Physics, 1979, 71, 1525-1530.	3.0	195
46	Concerning the applicability of density functional methods to atomic and molecular negative ions. Journal of Chemical Physics, 1996, 105, 862-864.	3.0	194
47	Interfacing Q-Chem and CHARMM to perform QM/MM reaction path calculations. Journal of Computational Chemistry, 2007, 28, 1485-1502.	3.3	190
48	The photodissociation of formaldehyde: Potential energy surface features. Journal of Chemical Physics, 1979, 70, 5117-5134.	3.0	184
49	Vinylidene: the final chapter?. Journal of the American Chemical Society, 1990, 112, 8714-8719.	13.7	184
50	Potential energy surface for the model unimolecular reaction HNC → HCN. Journal of Chemical Physics, 1975, 62, 350.	3.0	181
51	A systematic theoretical study of harmonic vibrational frequencies: The ammonium ion NH4+ and other simple molecules. Journal of Chemical Physics, 1980, 73, 2310-2318.	3.0	181
52	Remarkable Aspects of Unsaturation in Trinuclear Metal Carbonyl Clusters: The Triiron Species Fe3(CO)n (n= 12, 11, 10, 9). Journal of the American Chemical Society, 2006, 128, 11376-11384.	13.7	181
53	CH+5: The never-ending story or the final word?. Journal of Chemical Physics, 1993, 99, 3716-3720.	3.0	177
54	Structures and stability of hydrated clusters of hydrogen chloride, HCl(H2O)n, n=1-5. Journal of Chemical Physics, 1998, 109, 973-977.	3.0	176

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55	The protonated water dimer: Extensive theoretical studies of H ₅ O ⁺ . Journal of Chemical Physics, 1994, 101, 4878-4884.	3.0	174
56	Large-scale symmetry-adapted perturbation theory computations via density fitting and Laplace transformation techniques: Investigating the fundamental forces of DNA-intercalator interactions. Journal of Chemical Physics, 2011, 135, 174107.	3.0	174
57	Generalization of analytic configuration interaction (CI) gradient techniques for potential energy hypersurfaces, including a solution to the coupled perturbed Hartree-Fock equations for multiconfiguration SCF molecular wave functions. Journal of Chemical Physics, 1982, 77, 383-390.	3.0	169
58	Vinylidene: Potential energy surface and unimolecular reaction dynamics. Journal of Chemical Physics, 1984, 80, 4347-4354.	3.0	169
59	Analytic second derivatives in restricted Hartree-Fock theory. A method for high-spin open-shell molecular wave functions. Journal of Chemical Physics, 1982, 77, 5647-5654.	3.0	167
60	Mindless Chemistry. Journal of Physical Chemistry A, 2006, 110, 4287-4290.	2.5	165
61	Design of a Catalytic Active Site for Electrochemical CO ₂ Reduction with Mn(I)-Tricarbonyl Species. Inorganic Chemistry, 2015, 54, 5285-5294.	4.0	163
62	The torsional conformations of butane: Definitive energetics from ab initio methods. Journal of Chemical Physics, 1997, 106, 5143-5150.	3.0	159
63	Molecular Autoionization Lifetimes and Cross Sections for Penning Ionization: Numerical Results for He* (1s2s ³ S) + H(1s ² S). Journal of Chemical Physics, 1972, 56, 1347-1358.	3.0	154
64	The automated solution of second quantization equations with applications to the coupled cluster approach. Theoretica Chimica Acta, 1991, 79, 1-42.	0.8	151
65	The weakly exothermic rearrangement of methoxy radical (CH ₃ O•) to the hydroxymethyl radical (CH ₂ OH•). Journal of Chemical Physics, 1983, 78, 845-853.	3.0	147
66	Theoretical Treatment of Penning Ionization He(1s2s 1S, 3S) + H(1s 2S). Journal of Chemical Physics, 1970, 53, 1421-1427.	3.0	144
67	The optimization of molecular orbitals for coupled cluster wavefunctions. Chemical Physics Letters, 1987, 142, 354-358.	2.6	144
68	Accelerating the convergence of the coupled-cluster approach. Chemical Physics Letters, 1986, 130, 236-239.	2.6	143
69	Mechanism of the C ₂ H ₅ +O ₂ reaction. Journal of Chemical Physics, 1997, 107, 141-155.	3.0	142
70	Hartree-Fock orbital instability envelopes in highly correlated single-reference wave functions. Journal of Chemical Physics, 1997, 107, 10626-10632.	3.0	142
71	The malonaldehyde equilibrium geometry: A major structural shift due to the effects of electron correlation. Journal of Chemical Physics, 1985, 82, 4194-4198.	3.0	137
72	Ab Initio Calculations on 62 Low-Lying States of the O ₂ Molecule. Journal of Chemical Physics, 1968, 48, 4946-4955.	3.0	136

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73	Potential energy surface for the $\text{Li} + \text{HF} \rightarrow \text{LiF} + \text{H}$ reaction. <i>Journal of Chemical Physics</i> , 1980, 72, 4376-4393.	3.0	135
74	Carbene Rearrangements Unsurpassed: Details of the C_7H_6 Potential Energy Surface Revealed. <i>Journal of Organic Chemistry</i> , 1996, 61, 7030-7039.	3.2	133
75	Interaction potential between two rigid HF molecules. <i>Journal of Chemical Physics</i> , 1974, 60, 855-865.	3.0	131
76	Binuclear Homoleptic Iron Carbonyls: Incorporation of Formal Iron Iron Single, Double, Triple, and Quadruple Bonds, $\text{Fe}_2(\text{CO})_x$ ($x = 9, 8, 7, 6$). <i>Journal of the American Chemical Society</i> , 2000, 122, 8746-8761.	13.7	131
77	An energetically low-lying silacyclopropyne isomer of SiC_2 . <i>Journal of Chemical Physics</i> , 1984, 80, 3552-3555.	3.0	130
78	Infrared cavity ringdown spectroscopy of methanol clusters: Single donor hydrogen bonding. <i>Journal of Chemical Physics</i> , 1999, 110, 4258-4267.	3.0	130
79	The remarkable monobridged structure of Si_2H_2 . <i>Journal of Chemical Physics</i> , 1992, 97, 7990-7998.	3.0	129
80	Potential Energy Surface Including Electron Correlation for the Chemical $\text{F} + \text{H}_2 \rightarrow \text{FH} + \text{H}$. Preliminary Surface. <i>Journal of Chemical Physics</i> , 1972, 56, 4626-4631.	3.0	127
81	The silicon-carbon double bond: a healthy rivalry between theory and experiment. <i>Accounts of Chemical Research</i> , 1982, 15, 283-290.	15.6	126
82	Conformers of Gaseous Cysteine. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1511-1523.	5.3	126
83	Is Møller-Plesset perturbation theory a convergent ab initio method?. <i>Journal of Chemical Physics</i> , 2000, 112, 9213-9222.	3.0	125
84	Electron Affinity of the Guanine-Cytosine Base Pair and Structural Perturbations upon Anion Formation. <i>Journal of the American Chemical Society</i> , 2002, 124, 10163-10170.	13.7	125
85	A theory of self-consistent electron pairs. Computational methods and preliminary applications. <i>Journal of Chemical Physics</i> , 1976, 65, 2740-2750.	3.0	124
86	The Nature of the Gallium-Gallium Triple Bond. <i>Journal of the American Chemical Society</i> , 1998, 120, 3773-3780.	13.7	124
87	Electron Affinities of Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2001, 105, 524-528.	2.5	124
88	Characteristics of novel sandwiched beryllium, magnesium, and calcium dimers: $\text{C}_5\text{H}_5\text{BeBeC}_5\text{H}_5$, $\text{C}_5\text{H}_5\text{MgMgC}_5\text{H}_5$, and $\text{C}_5\text{H}_5\text{CaCaC}_5\text{H}_5$. <i>Chemical Physics Letters</i> , 2005, 402, 414-421.	2.6	124
89	Is the uniform electron gas limit important for small Ag clusters? Assessment of different density functionals for Ag_n ($n \leq 24$). <i>Journal of Chemical Physics</i> , 2006, 124, 184102.	3.0	124
90	Triple excitations in state-specific multireference coupled cluster theory: Application of Mk-MRCCSDT and Mk-MRCCSDT-n methods to model systems. <i>Journal of Chemical Physics</i> , 2008, 128, 124104.	3.0	123

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91	Electrophilic Aromatic Substitution: New Insights into an Old Class of Reactions. <i>Accounts of Chemical Research</i> , 2016, 49, 1191-1199.	15.6	123
92	Ab Initio Potential Curve for the $X^3\Sigma_g^-$ State of O ₂ . <i>Journal of Chemical Physics</i> , 1971, 54, 2207-2211.	3.0	122
93	The decarboxylation and dehydration reactions of monomeric formic acid. <i>Journal of Chemical Physics</i> , 1992, 96, 1158-1166.	3.0	119
94	Non-innocent Additives in a Palladium(II)-Catalyzed C-H Bond Activation Reaction: Insights into Multimetallic Active Catalysts. <i>Journal of the American Chemical Society</i> , 2014, 136, 5535-5538.	13.7	119
95	Model studies of chemisorption. Interaction between atomic hydrogen and beryllium clusters. <i>Journal of Chemical Physics</i> , 1975, 62, 4815-4825.	3.0	118
96	Electron correlation in small metal clusters. Application of a theory of self-consistent electron pairs to the Be ₄ system. <i>Journal of Chemical Physics</i> , 1976, 65, 5141-5146.	3.0	118
97	Assessment of Density Functional Theory for Model S _N 2 Reactions: $\text{CH}_3\text{X} + \text{F}^- (\text{X} = \text{F}, \text{Cl}, \text{CN}, \text{OH}, \text{SH}, \text{NH}_2)$. <i>J. Phys. Chem. B</i> , 2001, 105, 11078-11084.	2.5	118
98	Features of the H ₂ CO potential energy hypersurface pertinent to formaldehyde photodissociation. <i>Journal of Chemical Physics</i> , 1981, 75, 3459-3465.	3.0	114
99	Predicting electron affinities with density functional theory: Some positive results for negative ions. <i>Journal of Chemical Physics</i> , 1997, 107, 2529-2541.	3.0	114
100	The Dichotomy of Dimetallocenes: Coaxial versus Perpendicular Dimetal Units in Sandwich Compounds. <i>Journal of the American Chemical Society</i> , 2005, 127, 2818-2819.	13.7	113
101	Analytic second derivatives for Renner-Teller potential energy surfaces. Examples of the five distinct cases. <i>Journal of Chemical Physics</i> , 1984, 81, 356-361.	3.0	111
102	The analytic evaluation of energy first derivatives for two-configuration self-consistent field configuration interaction (TCSCF-CI) wave functions. Application to ozone and ethylene. <i>Journal of Chemical Physics</i> , 1987, 87, 7062-7075.	3.0	111
103	DNA Nucleosides and Their Radical Anions: Molecular Structures and Electron Affinities. <i>Journal of the American Chemical Society</i> , 2004, 126, 4404-4411.	13.7	109
104	The photodissociation of formaldehyde: A coupled cluster study including connected triple excitations of the transition state barrier height for $\text{H}_2\text{CO} \rightarrow \text{H}_2 + \text{CO}$. <i>Journal of Chemical Physics</i> , 1989, 90, 3629-3636.	3.0	108
105	Multiple d-type basis functions for molecules containing second row atoms. <i>Journal of Chemical Physics</i> , 1985, 83, 5721-5726.	3.0	106
106	The Adenine-Thymine Base Pair Radical Anion: Adding an Electron Results in a Major Structural Change. <i>Journal of Physical Chemistry B</i> , 2003, 107, 848-853.	2.6	106
107	Metal-Metal (MM) Bond Distances and Bond Orders in Binuclear Metal Complexes of the First Row Transition Metals Titanium Through Zinc. <i>Chemical Reviews</i> , 2018, 118, 11626-11706.	47.7	106
108	PyQu: An Interactive Quantum Chemistry Programming Environment for Reference Implementations and Rapid Development. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3504-3511.	5.3	106

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109	Valence-Excited States of Carbon Monoxide. <i>Journal of Chemical Physics</i> , 1970, 53, 3994-4004.	3.0	105
110	Calculation of the Attractive He Pair Potential. <i>Physical Review Letters</i> , 1970, 25, 988-990.	7.8	105
111	A systematic theoretical study of harmonic vibrational frequencies: The single and double excitation coupled cluster (CCSD) method. <i>Journal of Chemical Physics</i> , 1988, 89, 360-366.	3.0	105
112	An Efficient Computational Approach for the Evaluation of Substituent Constants. <i>Journal of Organic Chemistry</i> , 2006, 71, 6382-6387.	3.2	105
113	Quadratically convergent algorithm for orbital optimization in the orbital-optimized coupled-cluster doubles method and in orbital-optimized second-order Møller-Plesset perturbation theory. <i>Journal of Chemical Physics</i> , 2011, 135, 104103.	3.0	104
114	Stabilization of elusive silicon oxides. <i>Nature Chemistry</i> , 2015, 7, 509-513.	13.6	104
115	Negative Ion Thermochemistry: The Sulfur Fluorides SF _n /SF _n ⁻ (n = 1-7). <i>The Journal of Physical Chemistry</i> , 1996, 100, 6061-6068.	2.9	102
116	The protonated water dimer: Brueckner methods remove the spurious C1 symmetry minimum. <i>Journal of Chemical Physics</i> , 1998, 108, 7197-7201.	3.0	102
117	Theoretical Studies of the Potential Energy Surfaces and Compositions of the d-Aldo- and d-Ketohexoses. <i>Journal of the American Chemical Society</i> , 1998, 120, 3411-3422.	13.7	101
118	Triplet electronic states of acetylene: cis and trans structures and energetics. <i>Journal of Chemical Physics</i> , 1978, 69, 1648-1654.	3.0	100
119	Exploring the quantum mechanical/molecular mechanical replica path method: a pathway optimization of the chorismate to prephenate Claisen rearrangement catalyzed by chorismate mutase. <i>Theoretical Chemistry Accounts</i> , 2003, 109, 140-148.	1.4	100
120	Binuclear Cyclopentadienylcobalt Carbonyls: A Comparison with Binuclear Iron Carbonyls. <i>Journal of the American Chemical Society</i> , 2005, 127, 11646-11651.	13.7	100
121	Avoided intersection of potential energy surfaces: The (H ⁺ +H ₂ , H+H ₂) system. <i>Journal of Chemical Physics</i> , 1973, 59, 1286-1292.	3.0	99
122	Cleavage of Carbene-Stabilized Disilicon. <i>Journal of the American Chemical Society</i> , 2011, 133, 8874-8876.	13.7	98
123	Thermochemistry of CH _n , SiH _n (n=0-4), and the cations SiH ⁺ , SiH ₂ ⁺ , and SiH ₃ ⁺ : A converged quantum mechanical approach. <i>Journal of Chemical Physics</i> , 1992, 97, 8389-8406.	3.0	97
124	A new zinc-zinc-bonded compound with a dianionic $\hat{\text{L}}_{\pm}$ -diimine ligand: synthesis and structure of [Na(THF) ₂] ₂ [Zn ²⁻ L] (L = [(2,6-iPr ₂ C ₆ H ₃)N(Me)C] ₂ ²⁻). <i>Chemical Communications</i> , 2007, , 2363-2365.	4.1	97
125	New theoretical evidence for the nonlinearity of the triplet ground state of methylene. <i>Journal of the American Chemical Society</i> , 1970, 92, 4984-4985.	13.7	96
126	Perturbative triples corrections in state-specific multireference coupled cluster theory. <i>Journal of Chemical Physics</i> , 2010, 132, 074107.	3.0	96

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127	Theoretical Potential Energy Curves for OH, HF+, HF, HF ⁺ , NeH+, and NeH. Journal of Chemical Physics, 1972, 57, 1123-1128.	3.0	95
128	Structures and vibrational frequencies in the full configuration interaction limit: Predictions for four electronic states of methylene using a triple-zeta plus double polarization (TZ2P) basis. Journal of Chemical Physics, 1998, 108, 1040-1049.	3.0	93
129	The existence of secondary orbital interactions. Journal of Computational Chemistry, 2007, 28, 344-361.	3.3	92
130	Theoretical Study of SO ₂ Molecular Properties. Journal of Chemical Physics, 1970, 53, 3014-3019.	3.0	91
131	Electronic Structures and Potential Energy Curves for the Low-Lying States of the CN Radical. Journal of Chemical Physics, 1971, 54, 2573-2580.	3.0	91
132	A combined crossed molecular beam and ab initio investigation of C ₂ and C ₃ elementary reactions with unsaturated hydrocarbons: pathways to hydrogen deficient hydrocarbon radicals in combustion flames. Faraday Discussions, 2001, 119, 51-66.	3.2	91
133	Relativistic and correlation effects in CuH, AgH, and AuH: Comparison of various relativistic methods. Journal of Chemical Physics, 1995, 102, 2024-2031.	3.0	90
134	Theoretical study of the H+O ₃ ⁺ →OH+O ₂ ⁺ →O+HO ₂ system. Journal of Chemical Physics, 1986, 84, 2691-2697.	3.0	89
135	Geometrical structures and vibrational frequencies of the energetically low-lying isomers of SiC ₃ . Journal of Chemical Physics, 1990, 93, 5046-5052.	3.0	89
136	Hydrogen bonding between the water molecule and the hydroxyl radical (H ₂ O...HO): The global minimum. Journal of Chemical Physics, 1993, 98, 8829-8834.	3.0	89
137	A systematic theoretical study of the harmonic vibrational frequencies for polyatomic molecules: The single, double, and perturbative triple excitation coupled-cluster [CCSD(T)] method. Journal of Chemical Physics, 1993, 98, 1336-1344.	3.0	89
138	Crossed beam reaction of cyano radicals with hydrocarbon molecules. I. Chemical dynamics of cyanobenzene (C ₆ H ₅ CN; X̄S1A1) and perdeutero cyanobenzene (C ₆ D ₅ CN; X̄S1A1) formation from reaction of CN(X̄S2 ⁺) with benzene C ₆ H ₆ (X̄S1A1g), and d ₆ -benzene C ₆ D ₆ (X̄S1A1g). Journal of Chemical Physics, 1999, 111, 7457-7471.	3.0	89
139	NHC-Containing Manganese(I) Electrocatalysts for the Two-Electron Reduction of CO ₂ . Angewandte Chemie - International Edition, 2014, 53, 5152-5155.	13.8	89
140	Analytic configuration interaction (CI) gradient techniques for potential energy hypersurfaces. A method for open-shell molecular wave functions. Journal of Chemical Physics, 1981, 75, 2919-2922.	3.0	88
141	The Chemical Vapor Deposition of Aluminum Nitride: An Unusual Cluster Formation in the Gas Phase. Journal of the American Chemical Society, 1997, 119, 5668-5678.	13.7	88
142	Direct Near-Hartree-Fock Calculations on the 1s Hole States of NO ⁺ . Journal of Chemical Physics, 1971, 55, 1474-1475.	3.0	87
143	Analytic energy second derivatives for general MCSCF wave functions. Journal of Chemical Physics, 1984, 80, 2660-2668.	3.0	87
144	Analytic third derivatives for self-consistent-field wave functions. Journal of Chemical Physics, 1984, 81, 6395-6396.	3.0	86

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145	A Systematic Application of Density Functional Theory to Some Carbon-Containing Molecules and Their Anions. <i>Journal of Physical Chemistry A</i> , 1999, 103, 4065-4077.	2.5	86
146	Electronic Splitting between the 2B1 and 2A1 States of the NH2 Radical. <i>Journal of Chemical Physics</i> , 1971, 55, 4798-4803.	3.0	85
147	C2 Σ ... Potential Energy Surfaces for Seven Low-Lying States of CH2. <i>Journal of Chemical Physics</i> , 1971, 55, 162-169.	3.0	84
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