

David F Feller

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

183
papers

16,246
citations

64
h-index

124
g-index

189
ext. papers

17,073
ext. citations

5.3
avg, IF

6.87
L-index

#	Paper	IF	Citations
183	Atomic isotropic hyperfine properties for first row elements (B-F) revisited.. <i>Journal of Chemical Physics</i> , 2022 , 156, 034304	3.9	2
182	Elaborated thermochemical treatment of HF, CO, N, and HO: Insight into HEAT and its extensions. <i>Journal of Chemical Physics</i> , 2021 , 155, 184109	3.9	4
181	Enthalpy of Formation of CHO (Oxalic Acid) from High-Level Calculations and the Active Thermochemical Tables Approach. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 3481-3496	2.8	5
180	Density Functional Theory and the Basis Set Truncation Problem with Correlation Consistent Basis Sets: Elephant in the Room or Mouse in the Closet?. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 2598-2603	3.8	11
179	A theoretical study of the adiabatic and vertical ionization potentials of water. <i>Journal of Chemical Physics</i> , 2018 , 148, 234308	3.9	4
178	Enthalpy of Formation of NH (Hydrazine) Revisited. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 6187-6198	2.8	21
177	Estimating the intrinsic limit of the Feller-Peterson-Dixon composite approach when applied to adiabatic ionization potentials in atoms and small molecules. <i>Journal of Chemical Physics</i> , 2017 , 147, 034103	3.9	9
176	The Impact of Larger Basis Sets and Explicitly Correlated Coupled Cluster Theory on the Feller-Peterson-Dixon Composite Method. <i>Annual Reports in Computational Chemistry</i> , 2016 , 47-78	1.8	20
175	Application of a convergent, composite coupled cluster approach to bound state, adiabatic electron affinities in atoms and small molecules. <i>Journal of Chemical Physics</i> , 2016 , 144, 014105	3.9	17
174	Statistical Electronic Structure Calibration Study of the CCSD(T*)-F12b Method for Atomization Energies. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 7375-87	2.8	11
173	Improved accuracy benchmarks of small molecules using correlation consistent basis sets. <i>Highlights in Theoretical Chemistry</i> , 2015 , 31-46		1
172	A systematic approach to vertically excited states of ethylene using configuration interaction and coupled cluster techniques. <i>Journal of Chemical Physics</i> , 2014 , 141, 104302	3.9	27
171	Improved accuracy benchmarks of small molecules using correlation consistent basis sets. <i>Theoretical Chemistry Accounts</i> , 2014 , 133,	1.9	59
170	Active Thermochemical Tables: dissociation energies of several homonuclear first-row diatomics and related thermochemical values. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	72
169	An expanded calibration study of the explicitly correlated CCSD(T)-F12b method using large basis set standard CCSD(T) atomization energies. <i>Journal of Chemical Physics</i> , 2013 , 139, 084110	3.9	43
168	Benchmarks of improved complete basis set extrapolation schemes designed for standard CCSD(T) atomization energies. <i>Journal of Chemical Physics</i> , 2013 , 138, 074103	3.9	66
167	Anharmonic zero point vibrational energies: tipping the scales in accurate thermochemistry calculations?. <i>Journal of Chemical Physics</i> , 2013 , 138, 044311	3.9	49

166	Chemical accuracy in ab initio thermochemistry and spectroscopy: current strategies and future challenges. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	317
165	High-level ab initio enthalpies of formation of 2,5-dimethylfuran, 2-methylfuran, and furan. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 11768-75	2.8	32
164	Heats of formation of MH _x Cly (M = Si, P, As, Sb) compounds and main group fluorides from high level electronic structure calculations. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3717-27	2.8	12
163	A Practical Guide to Reliable First Principles Computational Thermochemistry Predictions Across the Periodic Table. <i>Annual Reports in Computational Chemistry</i> , 2012 , 1-28	1.8	74
162	Further benchmarks of a composite, convergent, statistically calibrated coupled-cluster-based approach for thermochemical and spectroscopic studies. <i>Molecular Physics</i> , 2012 , 110, 2381-2399	1.7	139
161	Chemical accuracy in ab initio thermochemistry and spectroscopy: current strategies and future challenges 2012 , 161-180		
160	Ab initio coupled cluster determination of the heats of formation of C ₂ H ₂ F ₂ , C ₂ F ₂ , and C ₂ F ₄ . <i>Journal of Physical Chemistry A</i> , 2011 , 115, 1440-51	2.8	34
159	Ab initio coupled cluster determination of the equilibrium structures of cis- and trans-1,2-difluoroethylene and 1,1-difluoroethylene. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 94-8	2.8	25
158	On the effectiveness of CCSD(T) complete basis set extrapolations for atomization energies. <i>Journal of Chemical Physics</i> , 2011 , 135, 044102	3.9	210
157	Correction to Ab Initio Coupled Cluster Determination of the Heats of Formation of C ₂ H ₂ F ₂ , C ₂ F ₂ , and C ₂ F ₄ . <i>Journal of Physical Chemistry A</i> , 2011 , 115, 3182-3182	2.8	6
156	Thermodynamic properties of arsenic compounds and the heat of formation of the As atom from high level electronic structure calculations. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 14667-76	2.8	14
155	Structures and heats of formation of simple alkali metal compounds: hydrides, chlorides, fluorides, hydroxides, and oxides for Li, Na, and K. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 4272-81	2.8	31
154	Refined theoretical estimates of the atomization energies and molecular structures of selected small oxygen fluorides. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 613-23	2.8	34
153	Infrared spectra of CF(2)=CHD and CF(2)=CD(2): scaled quantum-chemical force fields and an equilibrium structure for 1,1-difluoroethylene. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 9309-18	2.8	17
152	Calibration study of the CCSD(T)-F12a/b methods for C ₂ and small hydrocarbons. <i>Journal of Chemical Physics</i> , 2010 , 133, 184102	3.9	50
151	Structures and heats of formation of simple alkaline earth metal compounds: fluorides, chlorides, oxides, and hydroxides for Be, Mg, and Ca. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 9349-58	2.8	37
150	High level coupled cluster determination of the structure, frequencies, and heat of formation of water. <i>Journal of Chemical Physics</i> , 2009 , 131, 154306	3.9	34
149	High level ab initio energies and structures for the rotamers of 1,3-butadiene. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 1601-7	2.8	36

148	Heats of formation of the H _{1,2} O _m Sn (m, n = 0-3) molecules from electronic structure calculations. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 11343-53	2.8	50
147	A survey of factors contributing to accurate theoretical predictions of atomization energies and molecular structures. <i>Journal of Chemical Physics</i> , 2008 , 129, 204105	3.9	302
146	Ab initio structures for 90 degrees -twisted s-trans-1,3-butadiene and cyclooctatetraene: the naked sp ² -sp ² bond. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 2131-3	2.8	35
145	The CCSD(T) complete basis set limit for Ne revisited. <i>Journal of Chemical Physics</i> , 2008 , 129, 194115	3.9	38
144	Vibrational spectroscopy of 1,1-difluorocyclopropane-d ₀ , -d ₂ , and -d ₄ : the equilibrium structure of difluorocyclopropane. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 2498-506	2.8	20
143	Basis Sets for Ab Initio Molecular Orbital Calculations and Intermolecular Interactions. <i>Reviews in Computational Chemistry</i> , 2007 , 1-43		22
142	Probing the limits of accuracy in electronic structure calculations: is theory capable of results uniformly better than "chemical accuracy"?. <i>Journal of Chemical Physics</i> , 2007 , 126, 114105	3.9	82
141	Sources of error in electronic structure calculations on small chemical systems. <i>Journal of Chemical Physics</i> , 2006 , 124, 054107	3.9	168
140	Comment on Bople versus Dunning basis sets for group IA metal hydrides and some other second row hydrides: The case against a De Facto standard [by R.A. Klein and M.A. Zottola [Chem. Phys. Lett. 419 (2006) 254-258]. <i>Chemical Physics Letters</i> , 2006 , 430, 459-463	2.5	7
139	Enthalpies of formation of gas-phase N ₃ , N ₃ ⁻ , N ₅ ⁺ , and N ₅ ⁻ from Ab initio molecular orbital theory, stability predictions for N ₅ (+)-N ₃ (-) and N ₅ (+)-N ₅ (-), and experimental evidence for the instability of N ₅ (+)-N ₃ (-). <i>Journal of the American Chemical Society</i> , 2004 , 126, 834-43	16.4	182
138	The gas and solution phase acidities of HNO, HOONO, HONO, and HONO ₂ . <i>International Journal of Mass Spectrometry</i> , 2003 , 227, 421-438	1.9	37
137	Coupled Cluster Theory Determination of the Heats of Formation of Combustion-Related Compounds: CO, HCO, CO ₂ , HCO ₂ , HOCO, HC(O)OH, and HC(O)OOH. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 1604-1617	2.8	94
136	Molecular Structure, Vibrational Frequencies, and Energetics of the HCO, HOCO, and HCO ₂ Anions. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 186-190	2.8	40
135	Collision-Induced Dissociation and Theoretical Studies of Ag ⁺ (methanol) _n , n = 1-4. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 2829-2838	2.8	17
134	A Nonparametrized Ab Initio Determination of the Heat of Formation of Hydroxylamine, NH ₂ OH. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 10419-10427	2.8	25
133	Coupled Cluster Theory and Multireference Configuration Interaction Study of FO, F ₂ O, FO ₂ , and FOO. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 9641-9651	2.8	83
132	Accurate ab initio study of the energetics of phosphorus nitride: Heat of formation, ionization potential, and electron affinity. <i>Journal of Chemical Physics</i> , 2003 , 118, 8290-8295	3.9	28
131	Performance of coupled cluster theory in thermochemical calculations of small halogenated compounds. <i>Journal of Chemical Physics</i> , 2003 , 118, 3510-3522	3.9	184

130	Decomposition Pathways of Peroxynitrous Acid: Gas-Phase and Solution Energetics. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 3191-3196	2.8	77
129	On the Enthalpy of Formation of Hydroxyl Radical and Gas-Phase Bond Dissociation Energies of Water and Hydroxyl. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 2727-2747	2.8	422
128	Metal Ion Binding: An Electronic Structure Study of M+(Dimethyl Ether) _n , M = Cu, Ag, and Au and (n = 1-4), Complexes. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 5136-5143	2.8	17
127	Promise and challenge of high-performance computing, with examples from molecular modelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2002 , 360, 1079-105 ³		9
126	Heats of formation and ionization energies of NH _x , x=0-3. <i>Journal of Chemical Physics</i> , 2001 , 115, 2576-2581	3.9	112
125	Extended benchmark studies of coupled cluster theory through triple excitations. <i>Journal of Chemical Physics</i> , 2001 , 115, 3484-3496	3.9	236
124	Evidence for a Lower Enthalpy of Formation of Hydroxyl Radical and a Lower Gas-Phase Bond Dissociation Energy of Water. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1-4	2.8	161
123	A complete basis set estimate of cation-bond strengths: Na+(ethylene) and Na+(benzene). <i>Chemical Physics Letters</i> , 2000 , 322, 543-548	2.5	90
122	Theoretical study of cation/ether complexes: 15-crown-5 and its alkali metal complexes. <i>International Journal of Mass Spectrometry</i> , 2000 , 201, 41-58	1.9	45
121	Barrier for the H ₂ CO-H ₂ +CO reaction: A discrepancy between high-level electronic structure calculations and experiment. <i>Journal of Chemical Physics</i> , 2000 , 113, 218-226	3.9	51
120	A CCSDT study of the effects of higher order correlation on spectroscopic constants. I. First row diatomic hydrides. <i>Journal of Chemical Physics</i> , 2000 , 112, 5604-5610	3.9	107
119	Performance of CCSDT for diatomic dissociation energies. <i>Journal of Chemical Physics</i> , 2000 , 113, 485-493	3.9	168
118	Predicting the Heats of Formation of Model Hydrocarbons up to Benzene. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 3048-3056	2.8	140
117	Molecular Dynamics Study of Water-Benzene Interactions at the Liquid/Vapor Interface of Water. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 4403-4407	3.4	42
116	Theoretical Conformational Analysis of Thiocrown Macrocycles. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 652-660	2.8	68
115	A Theoretical Determination of the Heats of Formation of Furan, Tetrahydrofuran, THF-2-yl, and THF-3-yl. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 9017-9025	2.8	35
114	Estimating the Strength of the Water/Single-Layer Graphite Interaction. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 9971-9975	2.8	119
113	The Molecular Structure and Ionization Potential of Si ₂ : The Role of the Excited States in the Photoionization of Si ₂ . <i>Journal of Physical Chemistry A</i> , 2000 , 104, 2326-2332	2.8	28

112	Binding Enthalpies for Alkali Cation-Benzene Complexes Revisited. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 11414-11419	2.8	115
111	Novel Binding Modes in Tetramethoxycalix[4]arene: Implications for Ligand Design. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10083-10089	16.4	48
110	A comparison of techniques for predicting higher order correlation effects: Diatomic dissociation energies. <i>Journal of Chemical Physics</i> , 1999 , 111, 4373-4382	3.9	75
109	Ab initio study of the Wolff rearrangement of C ₆ H ₄ O intermediate in the gas phase. <i>Russian Chemical Bulletin</i> , 1999 , 48, 1642-1646	1.7	3
108	Structures and binding enthalpies of M+(H ₂ O) _n clusters, M=Cu, Ag, Au. <i>Journal of Chemical Physics</i> , 1999 , 110, 1475-1491	3.9	105
107	Strength of the Benzene-Water Hydrogen Bond. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 7558-7561	2.8	136
106	Re-examination of atomization energies for the Gaussian-2 set of molecules. <i>Journal of Chemical Physics</i> , 1999 , 110, 8384-8396	3.9	251
105	Theoretical Study of the Heats of Formation of Small Silicon-Containing Compounds. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 6413-6419	2.8	118
104	Heats of Formation of Simple Perfluorinated Carbon Compounds. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 4744-4751	2.8	129
103	Computational Chemistry in the Environmental Molecular Sciences Laboratory 1999 , 215-228		2
102	An examination of intrinsic errors in electronic structure methods using the Environmental Molecular Sciences Laboratory computational results database and the Gaussian-2 set. <i>Journal of Chemical Physics</i> , 1998 , 108, 154-176	3.9	235
101	Heats of Formation of CF ₂ , FCO, and CF ₂ O. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 8209-8216	2.8	100
100	Heats of Formation of Simple Boron Compounds. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 7053-7059	2.8	84
99	Theoretical Study of Cation/Ether Complexes: Alkali Metal Cations with 1,2-Dimethoxyethane and 12-Crown-4. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 3813-3819	2.8	87
98	Configuration interaction calculations on the state of CP and the σ -transition bands. Miscellaneous properties. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998 , 31, 5053-5075	1.3	12
97	Improved estimates of the total correlation energy in the ground state of the water molecule. <i>Journal of Chemical Physics</i> , 1997 , 106, 7706-7708	3.9	32
96	A Theoretical Case Study of Substituent Effects and Microsolvation on the Binding Specificity of Crown Ethers. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 7292-7298	2.8	36
95	Accurate Calculations of the Electron Affinity and Ionization Potential of the Methyl Radical. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 9405-9409	2.8	60

94	Ab Initio Study of M ⁺ :18-Crown-6 Microsolvation. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 2723-2731	2.8	103
93	Theoretical Study of Cation/Ether Complexes: The Alkali Metals and Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 6125-6131	2.8	57
92	Hydrogen fluoride: a critical comparison of theoretical and experimental results. <i>Computational and Theoretical Chemistry</i> , 1997 , 400, 69-92		35
91	Towards a confirmation of theoretical predictions of selected spectroscopic constants for the state of PN. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, 6069-6074	1.3	6
90	An Ab Initio Investigation of the Structure and Alkaline Earth Divalent Cation Selectivity of 18-Crown-6. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6052-6059	16.4	91
89	Hydrogen Bond Energy of the Water Dimer. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2993-2997		433
88	The structure and binding energy of K ⁺ ether complexes: A comparison of MP2, RI-MP2, and density functional methods. <i>Journal of Chemical Physics</i> , 1996 , 105, 1940-1950	3.9	55
87	The role of databases in support of computational chemistry calculations. <i>Journal of Computational Chemistry</i> , 1996 , 17, 1571-1586	3.5	1909
86	Configuration-interaction calculations of miscellaneous properties of the CP and molecules: I. CP ground state. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, 5283-5303	1.3	15
85	Electron spin resonance rare gas matrix studies of ¹² CO ₂ and ¹³ CO ₂ and C ¹⁷ O: Comparison with ab initio calculations. <i>Journal of Chemical Physics</i> , 1996 , 105, 5672-5686	3.9	16
84	Cation-Ether Complexes in the Gas Phase: Bond Dissociation Energies and Equilibrium Structures of Li ⁺ (1,2-dimethoxyethane) _x , x = 1 and 2, and Li ⁺ (12-crown-4). <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16116-16125		140
83	Cation-Ether Complexes in the Gas Phase: Bond Dissociation Energies and Equilibrium Structures of Li ⁺ [O(CH ₃) ₂] _x , x = 1-4. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 1605-1614		138
82	Dication-Water Interactions: M ²⁺ (H ₂ O) _n Clusters for Alkaline Earth Metals M = Mg, Ca, Sr, Ba, and Ra. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 4790-4797		140
81	The role of databases in support of computational chemistry calculations 1996 , 17, 1571		75
80	The dipole moment and magnetic hyperfine properties of the excited A 2Π(3s) Rydberg state of nitric oxide. <i>Journal of Chemical Physics</i> , 1995 , 103, 3517-3525	3.9	17
79	An extended basis set ab initio study of alkali metal cation-water clusters. <i>Journal of Chemical Physics</i> , 1995 , 103, 3526-3542	3.9	214
78	Configuration interaction calculations on the P ₂ molecule. III. Spectroscopic properties of the A ¹ Π _g state, the A ¹ Π _g -X ¹ Σ _g ⁺ transition bands and a comparison with the results for the X ¹ Σ _g ⁺ , a ³ Σ _g ⁺ , and b ³ Π ₂ _g states and related transition bands. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995 , 28, 3135-3146	1.3	8
77	Configuration interaction calculations on the P ₂ molecule. II. Spectroscopic properties of the b ³ Π ₂ _g state, the b ³ Π ₂ _g -a ³ Π ₂ _g transition bands and the a ³ Π ₂ _g state revisited. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995 , 28, 1393-1410	1.3	11

76	Cation-Water Interactions: The $M+(H_2O)_n$ Clusters for Alkali Metals, $M = Li, Na, K, Rb,$ and Cs . <i>The Journal of Physical Chemistry</i> , 1995 , 99, 3060-3067		222
75	Configuration interaction calculations on the P_2 molecule. I. Potential energy curves of the $X^1\Sigma_g^+$ and $a^3\Sigma_u^+$ states of P_2 ; spectroscopic properties. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994 , 27, 1657-1670	1.3	15
74	An extended basis set ab initio study of $Li+(H_2O)_n$, $n=1-8$. <i>Journal of Chemical Physics</i> , 1994 , 100, 4981-4997	3.7	151
73	An Ab Initio Investigation of the Structure and Alkali Metal Cation Selectivity of 18-Crown-6. <i>Journal of the American Chemical Society</i> , 1994 , 116, 10657-10669	16.4	335
72	The Nature of K^+ /Crown Ether Interactions: A Hybrid Quantum Mechanical-Molecular Mechanical Study. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 10465-10476		154
71	Comment on the Hyperfine Structure of the $X^2\Pi$ Ground State of Nitric Oxide. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 10375-10375		4
70	Configuration interaction calculations on the $X^1\Sigma_g^+$ ground state and low-lying $A^1\Pi$ and $1^1\Delta$ excited states of the PN molecule. II. Potential energy curves of the $A^1\Pi$ and $1^1\Delta$ excited states of PN and spectroscopic properties. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993 , 26, 1915-1934	1.3	13
69	The use of systematic sequences of wave functions for estimating the complete basis set, full configuration interaction limit in water. <i>Journal of Chemical Physics</i> , 1993 , 98, 7059-7071	3.9	526
68	A comparison of unrestricted Hartree-Fock- and restricted open-shell Hartree-Fock-based methods for determining the magnetic hyperfine parameters of NO ($X^2\Pi$). <i>Journal of Chemical Physics</i> , 1993 , 99, 2829-2840	3.9	60
67	Ab initio study of hydrogen bonding in the phenol-water system. <i>Journal of Computational Chemistry</i> , 1993 , 14, 1027-1035	3.5	92
66	Valence electron momentum distributions of the hydrogen halides. I. Comparison of EMS measurements and calculations using Hartree-Fock limit and configuration interaction wavefunctions for hydrogen fluoride. <i>Chemical Physics</i> , 1993 , 171, 303-317	2.3	18
65	Configuration interaction calculations on the $X^1\Sigma_g^+$ ground state and low-lying $A^1\Pi$ and $1^1\Delta$ excited states of the PN molecule. I. Potential energy curve of the $X^1\Sigma_g^+$ state of PN . Miscellaneous spectroscopic observables. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993 , 26, 1123-1145	1.3	18
64	Application of systematic sequences of wave functions to the water dimer. <i>Journal of Chemical Physics</i> , 1992 , 96, 6104-6114	3.9	1007
63	Theoretical and neon matrix electron spin resonance studies of the methanol cation: CH_3OH^+ , CH_3OD^+ , CH_2DOH^+ , and $^{13}CH_3OH^+$. <i>Journal of Chemical Physics</i> , 1992 , 97, 5363-5376	3.9	40
62	Exploiting regularity in systematic sequences of wavefunctions which approach the full CI limit. <i>Theoretica Chimica Acta</i> , 1992 , 83, 31-55		39
61	Molecular orbital studies of hyperfine coupling constants in the H_2CN and $H(HO)CN$ radicals. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 4702-4708		46
60	Theoretical Approaches to ESR Spectroscopy 1991 , 429-455		7
59	Ab initio calculations of the ^{13}C magnetic hyperfine parameters in C_2 using numerical and Gaussian basis set methods. <i>Chemical Physics Letters</i> , 1990 , 175, 629-632	2.5	9

58	Configuration interaction calculations on the propane radical cation, C ₃ H ⁺ . <i>Theoretica Chimica Acta</i> , 1990 , 77, 111-122		18
57	Hartree-Fock limit and configuration interaction calculations of the ion-molecule overlap amplitude for hydrogen fluoride: Comparison with EMS experiments. <i>Chemical Physics</i> , 1990 , 147, 45-50	2.3	13
56	An ab initio study of the magnetic hyperfine properties of F ₂ (2Π _u). <i>Journal of Chemical Physics</i> , 1990 , 93, 579-589	3.9	54
55	The electron affinity of oxygen: A systematic configuration interaction approach. <i>Journal of Chemical Physics</i> , 1989 , 90, 1024-1030	3.9	65
54	Neon matrix electron spin resonance and theoretical investigations of 10,11BH ₂ , 12,13CH ₂ , and 12,13CH+2. <i>Journal of Chemical Physics</i> , 1989 , 91, 4468-4476	3.9	45
53	Electron spin resonance investigations of 11B12C, 11B13C, and 10B12C in neon, argon, and krypton matrices at 4 K: Comparison with theoretical results. <i>Journal of Chemical Physics</i> , 1989 , 90, 690-699	3.9	58
52	A multireference CI determination of the isotropic hyperfine constants for first row atoms BE. <i>Journal of Chemical Physics</i> , 1988 , 88, 7580-7587	3.9	93
51	The generation of 12C31P and 13C31P by reactive laser vaporization for rare gas matrix electron spin resonance studies: Comparison with ab initio theoretical calculations. <i>Journal of Chemical Physics</i> , 1988 , 88, 3441-3450	3.9	21
50	CI effects on one-electron properties: the case of the electric quadrupole moment of OCS. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1987 , 20, 5325-5334		4
49	ESR and ab initio theoretical studies of the cation radicals 14N ⁺ and 15N ⁺ : The trapping of ion-neutral reaction products in neon matrices at 4 K. <i>Journal of Chemical Physics</i> , 1987 , 87, 885-897	3.9	82
48	One-electron properties of several small molecules using near Hartree-Fock limit basis sets. <i>Journal of Chemical Physics</i> , 1987 , 86, 3424-3440	3.9	221
47	Laser sputtering generation of B ₂ for ESR matrix isolation studies: comparison with ab initio CI theoretical calculations. <i>Journal of the American Chemical Society</i> , 1987 , 109, 3521-3525	16.4	57
46	Ab initio studies of [1.1.1]- and [2.2.2]propellane. <i>Journal of the American Chemical Society</i> , 1987 , 109, 4133-4139	16.4	63
45	Electron momentum spectroscopy of the valence orbitals of H ₂ O and D ₂ O: Quantitative comparisons using Hartree-Fock limit and correlated wavefunctions. <i>Chemical Physics</i> , 1987 , 113, 19-42	2.3	169
44	Basis set selection for molecular calculations. <i>Chemical Reviews</i> , 1986 , 86, 681-696	68.1	680
43	Neon matrix ESR and CI theoretical investigation of 10BF ⁺ and 11BF ⁺ : Photoionization of BF from reactive laser sputtering and high temperature sources. <i>Journal of Chemical Physics</i> , 1986 , 85, 5437-5445	3.9	29
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