

Christel M Marian

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214
papers

8,471
citations

47
h-index

82
g-index

227
ext. papers

9,440
ext. citations

3.8
avg, IF

6.69
L-index

#	Paper	IF	Citations
214	A mean-field spin-orbit method applicable to correlated wavefunctions. <i>Chemical Physics Letters</i> , 1996 , 251, 365-371	2.5	871
213	Spin-orbit coupling and intersystem crossing in molecules. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012 , 2, 187-203	7.9	471
212	Spin-Vibronic Mechanism for Intersystem Crossing. <i>Chemical Reviews</i> , 2018 , 118, 6975-7025	68.1	377
211	A new pathway for the rapid decay of electronically excited adenine. <i>Journal of Chemical Physics</i> , 2005 , 122, 104314	3.9	211
210	The guanine tautomer puzzle: quantum chemical investigation of ground and excited states. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 1545-53	2.8	162
209	Performance of the Density Functional Theory/Multireference Configuration Interaction Method on Electronic Excitation of Extended π Systems. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 1501-15	6.4	152
208	Quantum chemical investigation of the electronic spectra of the keto, enol, and keto-imine tautomers of cytosine. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 8410-8	2.8	133
207	Spin-orbit coupling of DFT/MRCI wavefunctions: method, test calculations, and application to thiophene. <i>Journal of Computational Chemistry</i> , 2002 , 23, 824-33	3.5	126
206	Calculation of spin-forbidden radiative transitions using correlated wavefunctions: Lifetimes of b_{1g} , a_{1g} states in O_2 , S_2 and SO . <i>Chemical Physics</i> , 1984 , 89, 223-236	2.3	124
205	Ultrafast deactivation mechanism of the excited singlet in the light-induced spin crossover of $[Fe(2,2\text{-bipyridine})_3]^{2+}$. <i>Chemistry - A European Journal</i> , 2013 , 19, 17541-51	4.8	123
204	A new mean-field and ECP-based spin-orbit method. Applications to Pt and PtH. <i>Chemical Physics Letters</i> , 1996 , 251, 357-364	2.5	116
203	Mechanism of the Triplet-to-Singlet Upconversion in the Assistant Dopant ACRXTN. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3715-3721	3.8	111
202	Time-dependent approaches for the calculation of intersystem crossing rates. <i>Journal of Chemical Physics</i> , 2011 , 134, 154105	3.9	106
201	Intersystem crossing driven by vibronic spin-orbit coupling: a case study on psoralen. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 5209-21	3.6	103
200	The generalized active space concept for the relativistic treatment of electron correlation. I. Kramers-restricted two-component configuration interaction. <i>Journal of Chemical Physics</i> , 2001 , 114, 4775-4790	3.9	101
199	Protonation effect on the electronic spectrum of tryptophan in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 2633	3.6	99
198	Parallel multireference configuration interaction calculations on mini-beta-carotenes and beta-carotene. <i>Journal of Chemical Physics</i> , 2009 , 130, 044708	3.9	97

197	Singlet and triplet excited states and intersystem crossing in free-base porphyrin: TDDFT and DFT/MRCI study. <i>ChemPhysChem</i> , 2008 , 9, 282-92	3.2	97
196	Intersystem crossing and characterization of dark states in the pyrimidine nucleobases uracil, thymine, and 1-methylthymine. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 11809-16	2.8	96
195	The photophysics of flavins: What makes the difference between gas phase and aqueous solution?. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 198, 221-231	4.7	88
194	The electronic spectrum of protonated adenine: theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3306-16	3.6	85
193	SPOCK.CI: a multireference spin-orbit configuration interaction method for large molecules. <i>Journal of Chemical Physics</i> , 2006 , 124, 124101	3.9	85
192	Redesign of the DFT/MRCI Hamiltonian. <i>Journal of Chemical Physics</i> , 2016 , 144, 034104	3.9	81
191	Electronic excitation and singlet-triplet coupling in uracil tautomers and uracil-water complexes. <i>European Physical Journal D</i> , 2002 , 20, 357-367	1.3	80
190	Spin-Orbit Coupling in Molecules. <i>Reviews in Computational Chemistry</i> , 2001 , 99-204		80
189	Excited states of thiophene: ring opening as deactivation mechanism. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 380-92	3.6	78
188	Ab initio CI calculation of O ₂ + predissociation phenomena induced by a spin-orbit coupling mechanism. <i>Molecular Physics</i> , 1982 , 46, 779-810	1.7	75
187	Cyclic (Amino)(aryl)carbenes Enter the Field of Chromophore Ligands: Expanded System Leads to Unusually Deep Red Emitting Cu Compounds. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8897-8909	16.4	73
186	Efficient generation of matrix elements for one-electron spin-orbit operators. <i>Chemical Physics</i> , 2005 , 311, 71-79	2.3	70
185	Rotationally Assisted Spin-State Inversion in Carbene-Metal-Amides Is an Artifact. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5643-5647	6.4	65
184	Theoretical investigation of the energies and geometries of photoexcited uranyl(VI) ion: a comparison between wave-function theory and density functional theory. <i>Journal of Chemical Physics</i> , 2007 , 127, 214302	3.9	63
183	Intersystem-crossing and phosphorescence rates in fac-Ir(III)(ppy) ₃ : a theoretical study involving multi-reference configuration interaction wavefunctions. <i>Journal of Chemical Physics</i> , 2015 , 142, 094301	3.9	61
182	The DFT/MRCI method. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019 , 9, e1394	7.9	61
181	Time-dependent approach to spin-vibronic coupling: implementation and assessment. <i>Journal of Chemical Physics</i> , 2014 , 140, 114104	3.9	57
180	UV excitation and radiationless deactivation of imidazole. <i>Journal of Chemical Physics</i> , 2009 , 130, 034305	3.9	57

179	QM/MM calculation of solvent effects on absorption spectra of guanine. <i>Journal of Computational Chemistry</i> , 2010 , 31, 90-106	3.5	57
178	On the molecular mechanism of non-radiative decay of nitrobenzene and the unforeseen challenges this simple molecule holds for electronic structure theory. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 12393-406	3.6	56
177	Tautomers and electronic states of jet-cooled 2-aminopurine investigated by double resonance spectroscopy and theory. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3021-6	3.6	56
176	Spin-Orbit Coupling Patterns Induced by Twist and Pyramidalization Modes in C ₂ H ₄ :N ₂ A Quantitative Study and a Qualitative Analysis. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 5923-5936	2.8	56
175	Electronic coherence provides a direct proof for energy-level crossing in photoexcited lutein and beta-carotene. <i>Physical Review Letters</i> , 2009 , 103, 108302	7.4	55
174	Photophysical properties of structurally and electronically modified flavin derivatives determined by spectroscopy and theoretical calculations. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 9365-75	2.8	55
173	Empirical two-body potential for solid silicon nitride, boron nitride, and borosilazane modifications. <i>Physical Review B</i> , 2000 , 62, 3117-3124	3.3	55
172	Deactivation via ring opening: A quantum chemical study of the excited states of furan and comparison to thiophene. <i>Chemical Physics</i> , 2008 , 349, 269-277	2.3	53
171	Ab initio calculation of the zero-field splittings of the X ³ Σ^+ and B ³ Σ^+ ,i states of the S ₂ molecule. <i>Chemical Physics</i> , 1982 , 71, 79-85	2.3	49
170	Ab initio investigation of the methylation and hydration effects on the electronic spectra of uracil and thymine. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 4915-23	3.6	48
169	Phosphorescence or Thermally Activated Delayed Fluorescence? Intersystem Crossing and Radiative Rate Constants of a Three-Coordinate Copper(I) Complex Determined by Quantum-Chemical Methods. <i>Inorganic Chemistry</i> , 2016 , 55, 7508-16	5.1	47
168	Spin-free relativistic no-pair ab initio core model potentials and valence basis sets for the transition metal elements Sc to Hg. Part I. <i>Journal of Chemical Physics</i> , 1999 , 110, 3678-3686	3.9	47
167	Determination of the radiative lifetimes of the b ¹ Π and a ¹ Σ^+ states in NH by ab initio methods. <i>Chemical Physics</i> , 1985 , 95, 213-223	2.3	47
166	Influence of the LOV domain on low-lying excited states of flavin: a combined quantum-mechanics/molecular-mechanics investigation. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 15610-8	2.4	46
165	On the performance of approximate spin-orbit Hamiltonians in light conjugated molecules: the fine-structure splitting of HC ₆ H ⁺ , NC ₅ H ⁺ , and NC ₄ N ⁺ . <i>Chemical Physics Letters</i> , 1999 , 313, 351-357	2.5	46
164	On the photophysics of carotenoids: a multireference DFT study of peridinin. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 13808-15	3.4	45
163	Climbing up the Ladder: Intermediate Triplet States Promote the Reverse Intersystem Crossing in the Efficient TADF Emitter ACRSA. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21145-21153	3.8	44
162	The resolution of the identity approximation for calculations of spin-spin contribution to zero-field splitting parameters. <i>Journal of Chemical Physics</i> , 2010 , 132, 144111	3.9	44

161	Vibronic absorption, fluorescence, and phosphorescence spectra of psoralen: a quantum chemical investigation. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 2133-44	3.6	44
160	Structure analyses of Ba-silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2002 , 297, 37-54	3.9	43
159	Ultrafast dynamics in thiophene investigated by femtosecond pump probe photoelectron spectroscopy and theory. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 393-404	3.6	42
158	Thioxanthone in apolar solvents: ultrafast internal conversion precedes fast intersystem crossing. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 6637-47	3.6	41
157	Efficient calculation of electron paramagnetic resonance g-tensors by multireference configuration interaction sum-over-state expansions, using the atomic mean-field spin-orbit method. <i>Journal of Chemical Physics</i> , 2003 , 118, 9552-9562	3.9	41
156	Ab initio study of the vibronic and spin-orbit coupling in the X 2π state of C ₂ H ₂ . <i>Journal of Chemical Physics</i> , 1995 , 102, 7142-7149	3.9	39
155	Internal heavy atom effects in phenothiazinium dyes: enhancement of intersystem crossing via vibronic spin-orbit coupling. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11350-8	3.6	38
154	Thermal and solvent effects on the triplet formation in cinnoline. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4740-51	3.6	38
153	On the electronic structure of NOH (hyponitrous acid monomer) in the ground state. <i>Chemical Physics Letters</i> , 1979 , 67, 109-114	2.5	38
152	Cu-F Interactions between Cationic Linear N-Heterocyclic Carbene Copper(I) Pyridine Complexes and Their Counterions Greatly Enhance Blue Luminescence Efficiency. <i>Inorganic Chemistry</i> , 2019 , 58, 5433-5445	5.1	37
151	Carotenoids and light-harvesting: from DFT/MRCI to the Tamm-Dancoff approximation. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 655-66	6.4	37
150	AI-Score chemically diverse empirical scoring function employing quantum chemical binding energies of hydrogen-bonded complexes. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 1492-510	6.1	37
149	Understanding and Controlling Intersystem Crossing in Molecules. <i>Annual Review of Physical Chemistry</i> , 2021 , 72, 617-640	15.7	36
148	Chimeric behavior of excited thioxanthone in protic solvents: I. Experiments. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 11696-707	2.8	35
147	Molecular design of two sterol 14 α -demethylase homology models and their interactions with the azole antifungals ketoconazole and bifonazole. <i>Journal of Computer-Aided Molecular Design</i> , 2005 , 19, 149-63	4.2	35
146	The fine-structure splitting of the thallium atomic ground state: LS- versus jj-coupling. <i>Chemical Physics Letters</i> , 1996 , 257, 105-110	2.5	35
145	Multireference and relativistic effects in NiH. <i>Journal of Chemical Physics</i> , 1989 , 91, 3589-3595	3.9	35
144	Persistent Room Temperature Phosphorescence from Triarylboranes: A Combined Experimental and Theoretical Study. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17137-17144	16.4	34

143	Four-component relativistic coupled cluster and configuration interaction calculations on the ground and excited states of the RbYb molecule. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 12607-14	2.8	34
142	Spin-free relativistic no-pair ab initio core model potentials and valence basis sets for the transition metal elements Sc to Hg. II. <i>Journal of Chemical Physics</i> , 1999 , 111, 10436-10443	3.9	34
141	Throwing light on dark states of oligothiophenes of chain lengths 2 to 6: radical anion photoelectron spectroscopy and excited-state theory. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10350-63	3.6	33
140	Adsorption of CO on TiO ₂ (110) studied by means of a cluster model surrounded by multipoles obtained from slab calculations. <i>Physical Review B</i> , 1996 , 54, 14812-14821	3.3	33
139	Theoretical study of the electronic spectrum of the CoH molecule. <i>Journal of Chemical Physics</i> , 1993 , 99, 1215-1223	3.9	33
138	Quasirelativistic calculation of the vibronic spectra of NiH and NiD. <i>Journal of Chemical Physics</i> , 1990 , 93, 1176-1186	3.9	33
137	Theoretical study of the spectra of CuH and CuD. <i>Journal of Chemical Physics</i> , 1991 , 94, 5574-5585	3.9	33
136	Investigation of electron correlation on the theoretical prediction of zero-field splittings of 2π molecular states. <i>Chemical Physics Letters</i> , 1982 , 89, 459-462	2.5	33
135	A quantum chemical investigation of the electronic structure of thionine. <i>Photochemical and Photobiological Sciences</i> , 2012 , 11, 397-408	4.2	31
134	An extrapolation scheme for spin-orbit configuration interaction energies applied to the ground and excited electronic states of thallium hydride. <i>Chemical Physics</i> , 1997 , 225, 223-238	2.3	31
133	Spin-forbidden transitions in the presence of an intersystem crossing: application to the $b1\pi$ state in OH ⁺ . <i>Chemical Physics</i> , 1987 , 112, 349-361	2.3	31
132	Study of the dependence of spin-orbit matrix elements on AO basis set composition for inner and valence shells: Results for the multiplet splitting of $X\ 3\pi$ and $C\ 3\pi$ of SO and $X\ 2\pi$ in SO ⁺ . <i>Chemical Physics</i> , 1983 , 76, 367-383	2.3	31
131	Photophysics of xanthone: a quantum chemical perusal. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 3935-48		30
130	The photophysics of alloxazine: a quantum chemical investigation in vacuum and solution. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 1655-66	4.2	30
129	Chimeric behavior of excited thioxanthone in protic solvents: II. Theory. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 11708-17	2.8	29
128	Overruling the energy gap law: fast triplet formation in 6-azauracil. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15665-71	3.6	29
127	Theoretical study of the low-lying excited states of β -carotene isomers by a multireference configuration interaction method. <i>Chemical Physics</i> , 2010 , 373, 98-103	2.3	29
126	Calculation of potential energy curves for Rb ₂ including relativistic effects. <i>Molecular Physics</i> , 2003 , 101, 2381-2389	1.7	28

125	Intersystem crossing rates of S1 state keto-amino cytosine at low excess energy. <i>Journal of Chemical Physics</i> , 2015 , 143, 234301	3.9	26
124	Isolated and solvated thioxanthone: a photophysical study. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 8589-96	2.8	26
123	Effects of protonation and deprotonation on the excitation energies of lumiflavin. <i>Chemical Physics Letters</i> , 2008 , 463, 400-404	2.5	26
122	Quantum-Chemical Studies on Excitation Energy Transfer Processes in BODIPY-Based Donor-Acceptor Systems. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 4316-27	6.4	25
121	Photophysics of phenalenone: quantum-mechanical investigation of singlet-triplet intersystem crossing. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 1688-96	3.6	25
120	Electronically excited states of tryptamine and its microhydrated complex. <i>Journal of Chemical Physics</i> , 2006 , 125, 124309	3.9	25
119	Electron spin-spin coupling from multireference configuration interaction wave functions. <i>Journal of Chemical Physics</i> , 2008 , 129, 044102	3.9	24
118	Relativistic all-electron ab initio calculations on the platinum hydride molecule. <i>Chemical Physics Letters</i> , 1994 , 222, 267-273	2.5	24
117	On the performance of DFT/MRCI Hamiltonians for electronic excitations in transition metal complexes: The role of the damping function. <i>Journal of Chemical Physics</i> , 2018 , 149, 164106	3.9	24
116	Fully automated flexible docking of ligands into flexible synthetic receptors using forward and inverse docking strategies. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 903-11	6.1	23
115	Ground and excited states of PtCH ₂ ⁺ : assessment of the no-pair Douglas-Kroll ab initio model potential method. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 2481-2488	3.6	23
114	Theoretical and experimental studies of radiative lifetimes of excited electronic states in CO ⁺ . <i>Chemical Physics</i> , 1989 , 130, 361-370	2.3	23
113	Ab initio study on the isomers HNO ⁺ and NOH ⁺ . vertical spectra and heat of formation. <i>Chemical Physics</i> , 1979 , 37, 425-444	2.3	23
112	Computer-Aided Design of Luminescent Linear N-Heterocyclic Carbene Copper(I) Pyridine Complexes. <i>Inorganic Chemistry</i> , 2019 , 58, 5446-5456	5.1	22
111	Singlet Fission in Quinoidal Oligothiophenes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13901-13910	3.8	22
110	A theoretical study of thionine: spin-orbit coupling and intersystem crossing. <i>Photochemical and Photobiological Sciences</i> , 2012 , 11, 1860-7	4.2	22
109	Quantum chemical investigation of hydrogen-bond strengths and partition into donor and acceptor contributions. <i>Journal of Computational Chemistry</i> , 2007 , 28, 1503-1515	3.5	22
108	The photophysics of 7H-adenine: A quantum chemical investigation including spin-orbit effects. <i>Chemical Physics</i> , 2008 , 347, 346-359	2.3	22

107	The g-tensor of AlO: Principal problems and first approaches. <i>Chemical Physics</i> , 2008 , 343, 258-269	2.3	22
106	Ab initio study of the vibronic and spin-orbit structure in the X ² electronic state of CCCH. <i>Journal of Chemical Physics</i> , 2003 , 118, 4444-4451	3.9	22
105	The photophysics of pyranthione: a theoretical investigation focussing on spin-forbidden transitions. <i>Chemical Physics</i> , 2001 , 264, 245-254	2.3	22
104	A general procedure for the theoretical study of the δ -doubling. <i>Molecular Physics</i> , 1988 , 63, 3-26	1.7	22
103	Comparison of the structure and spectra of the HNO ⁺ and NOH ⁺ ions using ab initio SCF and CI methods. <i>Molecular Physics</i> , 1977 , 33, 63-74	1.7	21
102	Electroabsorption Spectroscopy as a Tool for Probing Charge Transfer and State Mixing in Thermally Activated Delayed Fluorescence Emitters. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3205-3211	6.4	20
101	Electronic excitation spectra and singlet-triplet coupling in psoralen and its sulfur and selenium analogs. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 167, 201-212	4.7	19
100	Ab Initio Investigation of the Structure of the X ² A ₁ , A ² A ₁ (¹²) Spectral System of HCO: Theoretical Treatment of the Vibronic and Spin-Orbit-Coupling. <i>Journal of Molecular Spectroscopy</i> , 1994 , 166, 406-422	1.3	19
99	Spectroscopic properties of phenolic and quinoid carotenoids: a combined theoretical and experimental study. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 270-8	4.2	18
98	Spinor optimization for a relativistic spin-dependent CASSCF program. <i>Theoretical Chemistry Accounts</i> , 1997 , 97, 125-135	1.9	18
97	Calculation of predissociation rates in O ₂ ²⁺ by ab initio MRD-CI methods. <i>Chemical Physics</i> , 1998 , 229, 203-216	2.3	18
96	Ab initio prediction of ¹⁵ N-NMR chemical shift in boron nitride based on an analysis of connectivities. <i>Journal of Computational Chemistry</i> , 1998 , 19, 716-725	3.5	18
95	An Approach to the Calculation of δ -splittings in Diatomic Molecules with Strongly Coupled Electronic States and its Application to NiH and NiD. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1995 , 99, 254-264		18
94	Structure-Emission Property Relationships in Cyclometalated Pt(II) β -diketonate Complexes. <i>Inorganic Chemistry</i> , 2019 , 58, 6123-6136	5.1	17
93	Diphenylhexatrienes as photoprotective agents for ultrasensitive fluorescence detection. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 4099-108	2.8	17
92	Photophysics of flavin derivatives absorbing in the blue-green region: thioflavins as potential cofactors of photoswitches. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1743-53	3.4	16
91	On the dependence of correlation and relativity: The electron affinity of the copper atom. <i>Chemical Physics Letters</i> , 1990 , 173, 175-180	2.5	16
90	Assessment of Interstate Spin-Orbit Couplings from Linear Response Amplitudes. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 749-766	6.4	15

89	Towards an understanding of the singlet-triplet splittings in conjugated hydrocarbons: azulene investigated by anion photoelectron spectroscopy and theoretical calculations. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23573-81	3.6	15
88	Spectroscopic and theoretical study on electronically modified chromophores in LOV domains: 8-bromo- and 8-trifluoromethyl-substituted flavins. <i>ChemBioChem</i> , 2013 , 14, 645-54	3.8	15
87	Quantitative structure-property relationships in boron nitrides: the 15N- and 11B chemical shifts. <i>Solid State Nuclear Magnetic Resonance</i> , 2001 , 19, 29-44	3.1	15
86	Understanding the luminescence properties of Cu(I) complexes: a quantum chemical perusal. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 23530-23544	3.6	15
85	On the performance of DFT/MRCI-R and MR-MP2 in spin-orbit coupling calculations on diatomics and polyatomic organic molecules. <i>Molecular Physics</i> , 2017 , 115, 109-137	1.7	14
84	Accurate calculations of the ground state and low-lying excited states of the (RbBa) ⁺ molecular ion: a proposed system for ultracold reactive collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 055101	1.3	14
83	Calculating electron paramagnetic resonance g-matrices for triplet state molecules from multireference spin-orbit configuration interaction wave functions. <i>Journal of Chemical Physics</i> , 2009 , 130, 154106	3.9	14
82	Charged-particle potential for boron nitrides, silicon nitrides, and borosilazane ceramics: Derivation of parameters and probing of capabilities. <i>Physical Review B</i> , 2003 , 68,	3.3	14
81	Ab initio spin-free-state-shifted spin-orbit configuration interaction calculations on singly ionized iridium. <i>Journal of Chemical Physics</i> , 1998 , 108, 7980-7987	3.9	14
80	DFT/MRCI Hamiltonian for odd and even numbers of electrons. <i>Journal of Chemical Physics</i> , 2017 , 147, 194104	3.9	13
79	Charge-transfer contributions to the excitonic coupling matrix element in BODIPY-based energy transfer cassettes. <i>Chemical Physics</i> , 2017 , 482, 265-276	2.3	13
78	The Influence of Excess Ammonia on the Mechanism of the Reaction of Boron Trichloride with Ammonia-An Ab Initio Molecular Dynamics Study This work was supported by the Deutsche Forschungsgemeinschaft in the framework of the Sonderforschungsbereich 408 "Anorganische Festkörperchemie" and the Sonderforschungsbereich 408 "Anorganische Festkörperchemie".	16.4	13
77	Theoretical investigation of fine-structure effects in the bending and symmetric stretching vibronic spectrum of FeH ₂ and FeD ₂ . <i>Molecular Physics</i> , 1998 , 95, 27-42	1.7	13
76	Potential-energy curves, zero-field splittings, and radiative lifetimes for low-lying states of AsH. <i>Canadian Journal of Physics</i> , 1987 , 65, 155-164	1.1	13
75	Relativistic and perturbational calculations of fine structure splittings in F ₂ and F ₂ ⁺ . <i>Molecular Physics</i> , 1984 , 53, 535-556	1.7	13
74	Spin-orbit splitting of the A ₂ ⁺ and D ₂ ⁺ states of BeF by ab initio MRD CI calculations. <i>Chemical Physics</i> , 1985 , 100, 13-19	2.3	13
73	On the photophysics of four heteroleptic iridium(III) phenylpyridyl complexes investigated by relativistic multi-configuration methods. <i>Molecular Physics</i> , 2015 , 1-16	1.7	12
72	Failure of the IDA in FRET Systems at Close Inter-Dye Distances Is Moderated by Frequent Low QY Values. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8845-62	3.4	12

71	Thioxanthone: on the shape of the first absorption band. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9320-7	3.6	12
70	Reactions in the initial stage of the CVD of BN quantum chemical investigation. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 955-963	3.6	12
69	The Influence of Charge Distribution on Bond Lengths in the P4O6 Framework in Compounds of the Type P4O6X. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 563-565		12
68	Stability and the CO stretching vibrational frequency of molecular AgCo. <i>Chemical Physics Letters</i> , 1993 , 215, 582-586	2.5	12
67	Modulation of the L/L Mixing in an Indole Derivative: A Position-Dependent Study Using 4-, 5-, and 6-Fluoroindole. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1597-1606	2.8	11
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