Russell J Boyd

List of Publications by Year in Descending Order

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313 8,294 46 72 g-index

325 8,647 4.5 5.96 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
313	Lewis Acid-Mediated Cyclization of Allenyl Aryl Ketones. <i>Journal of Organic Chemistry</i> , 2019 , 84, 13665-	1 <u>46</u> 75	1
312	An Electron Density Source-Function Study of DNA Base Pairs in Their Neutral and Ionized Ground States. <i>Journal of Computational Chemistry</i> , 2018 , 39, 1112-1128	3.5	10
311	Computational Study of Engineered Cytochrome P450-Catalyzed C-H Amination: The Origin of the Regio- and Stereoselectivity. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10859-10868	3.4	19
310	A computational investigation into the redox chemistry of Mo- and W-tris(diselenolene) complexes. <i>Structural Chemistry</i> , 2017 , 28, 1173-1180	1.8	6
309	Identifying similarities and differences between analogous bisdithiolene and bisdiselenolene complexes: A computational study. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 369-376	2.1	9
308	The acidity of thosphoglucomutase monofluoromethylenephosphonate ligands probed by NMR spectroscopy and quantum mechanical methods. <i>Canadian Journal of Chemistry</i> , 2016 , 94, 902-908	0.9	2
307	Theoretical study on the mechanism of iridium-catalyzed Efunctionalization of primary alkyl CH bonds. <i>Canadian Journal of Chemistry</i> , 2016 , 94, 1028-1037	0.9	7
306	Torquoselectivity in the Nazarov reactions of allenyl vinyl ketones. <i>Journal of Organic Chemistry</i> , 2015 , 80, 1042-51	4.2	23
305	Competing nitrile hydratase catalytic mechanisms: Is cysteine-sulfenic acid acting as a nucleophile?. <i>Computational and Theoretical Chemistry</i> , 2015 , 1070, 48-54	2	4
304	Richard (Rick) Francis Langler Memorial Issue. Australian Journal of Chemistry, 2015, 68, 349	1.2	
303	Balancing Exchange Mixing in Density-Functional Approximations for Iron Porphyrin. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3022-8	6.4	21
302	Density Functional Theory Study of BF3-Mediated Additions of Enols and [(Trimethylsilyl)oxy]alkenes to an Oxyallyl Cation: Homologous Mukaiyama Reactions. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 6714-22	2.8	5
301	The Importance of the MM Environment and the Selection of the QM Method in QM/MM Calculations: Applications to Enzymatic Reactions. <i>Advances in Protein Chemistry and Structural Biology</i> , 2015 , 100, 153-85	5.3	2
300	Computational insights into the suicide inhibition of Plasmodium falciparum Fk506-binding protein 35. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 3221-5	2.9	4
299	Interception of Nazarov Reactions of Allenyl Vinyl Ketones with Dienes: (3+2)- versus (4+3)-Cycloaddition and Subsequent Rearrangement. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 2952-2959	3.2	6
298	Atomic energy analysis of cooperativity, anti-cooperativity, and non-cooperativity in small clusters of methanol, water, and formaldehyde. <i>Computational and Theoretical Chemistry</i> , 2015 , 1053, 328-336	2	16
297	Six questions on topology in theoretical chemistry. <i>Computational and Theoretical Chemistry</i> , 2015 , 1053, 2-16	2	81

(2012-2015)

296	Molecular docking study of macrocycles as Fk506-binding protein inhibitors. <i>Journal of Molecular Graphics and Modelling</i> , 2015 , 59, 117-22	2.8	6
295	Computational Examination of (4 + 3) versus (3 + 2) Cycloaddition in the Interception of Nazarov Reactions of Allenyl Vinyl Ketones by Dienes. <i>Journal of Organic Chemistry</i> , 2015 , 80, 12535-44	4.2	8
294	Role of fluoride in accelerating the reactions of dialkylstannylene acetals. <i>Journal of Organic Chemistry</i> , 2015 , 80, 2989-3002	4.2	6
293	Assessment of several DFT functionals in calculation of the reduction potentials for Ni-, Pd-, and Pt-bis-ethylene-1,2-dithiolene and -diselenolene complexes. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 911-8	2.8	23
292	Changing weak halogen bonds into strong ones through cooperativity with beryllium bonds. Journal of Physical Chemistry A, 2014 , 118, 4205-13	2.8	51
291	The catalytic formation of leukotriene C4: a critical step in inflammatory processes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16284-9	3.6	2
290	Organotin bond dissociation energies: An interesting challenge for contemporary computational methods. <i>Computational and Theoretical Chemistry</i> , 2014 , 1050, 7-14	2	10
289	The one-electron reduction of dithiolate and diselenolate ligands. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10897-902	3.6	11
288	Effect of amino acid ligands on the structure of iron porphyrins and their ability to bind oxygen. Journal of Physical Chemistry A, 2014 , 118, 4565-74	2.8	9
287	The one-electron oxidation of a dithiolate molecule: the importance of chemical intuition. <i>Journal of Chemical Physics</i> , 2014 , 140, 18A519	3.9	8
286	Hydrogen bond cooperativity in water hexamers: atomic energy perspective of local stabilities. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 10790-9	2.8	33
285	The Calculation of the Hyperfine Coupling Tensors of Biological Radicals. <i>Progress in Theoretical Chemistry and Physics</i> , 2013 , 285-322	0.6	1
284	Revealing unexpected mechanisms for nucleophilic attack on S-S and Se-Se bridges. <i>Chemistry - A European Journal</i> , 2013 , 19, 3629-38	4.8	13
283	How do nucleophiles accelerate the reactions of dialkylstannylene acetals? The effects of adding fluoride to dialkoxydi-n-butylstannanes. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12648-57	2.8	4
282	Dramatic substituent effects on the mechanisms of nucleophilic attack on Se-S bridges. <i>Journal of Computational Chemistry</i> , 2013 , 34, 2537-47	3.5	4
281	Cooperativity between hydrogen bonds and beryllium bonds in (H2O)(n)BeX2 (n = 1-3, X = H, F) complexes. A new perspective. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14540-7	3.6	62
280	Self-assembling ADADA helices formed by hydrogen bonding. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 7965-75	2.8	3
279	Mechanism of the Reduction of an Oxidized Glutathione Peroxidase Mimic with Thiols. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 5052-7	6.4	13

278	Reaction of group 16 analogues of ethoxyquin with hydrogen peroxide: A computational study. <i>Computational and Theoretical Chemistry</i> , 2012 , 981, 68-72	2	5
277	Stabilizing effect of solvent and guest residue amino acids on a model alpha-helix peptide. <i>Computational and Theoretical Chemistry</i> , 2012 , 998, 80-86	2	1
276	Visualizing internal stabilization in weakly bound systems using atomic energies: hydrogen bonding in small water clusters. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3946-51	2.8	31
275	Molecular model with quantum mechanical bonding information. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 12991-7	2.8	63
274	Systematic study of the performance of density functional theory methods for prediction of energies and geometries of organoselenium compounds. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 483	2 7 :81	22
273	Selenium stories. <i>Nature Chemistry</i> , 2011 , 3, 570	17.6	72
272	Effect of Sr2+ association on the tautomerization processes of uracil and its dithio- and diseleno-derivatives. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 423-31	3.9	9
271	A theoretical study of the structure and conductivity of polycytosineacetylene. <i>Chemical Physics Letters</i> , 2011 , 506, 243-247	2.5	2
270	Theoretical study of polaron formation in poly(G)-poly(C) cations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 3136-45	3.4	9
269	Reply to the Comment on 'Theoretical Study of Polaron Formation in Poly(G)Poly(C) Cations' Journal of Physical Chemistry B, 2011, 115, 8949-8950	3.4	1
268	Effect of counterions on the protonation state in a poly(G)-poly(C) radical cation. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14885-90	3.4	4
267	Methods in Biocomputational Chemistry: A Lesson from the Amino Acids 2010 , 403-421		3
266	The effect of multiplicity on the size of iron(II) and the structure of iron(II) porphyrins. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 10315-9	2.8	25
265	Theoretical investigations on the reaction of monosubstituted tertiary-benzylamine selenols with hydrogen peroxide. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 10706-11	2.8	14
264	Kinetics and Thermodynamics of the Monomer D imer Equilibria of Dialkoxydibutylstannanes. <i>Organometallics</i> , 2010 , 29, 6384-6392	3.8	16
263	Electronic energy changes associated with Guanine quadruplex formation: an investigation at the atomic level. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9833-9	3.4	18
262	Reduction of hydrogen peroxide by glutathione peroxidase mimics: reaction mechanism and energetics. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 1996-2000	2.8	25
261	Quantum Mechanical Approaches to Selenium Biochemistry 2010 , 585-603		

(2007-2010)

260	A localized electrons detector for atomic and molecular systems. <i>Theoretical Chemistry Accounts</i> , 2010 , 127, 393-400	1.9	34
259	A simple representation of energy matrix elements in terms of symmetry-invariant bases. <i>Journal of Computational Chemistry</i> , 2010 , 31, 492-6	3.5	
258	The localized electrons detector as an ab initio representation of molecular structures. <i>International Journal of Quantum Chemistry</i> , 2010 , 110, n/a-n/a	2.1	7
257	Can correlation bring electrons closer together?. <i>Molecular Physics</i> , 2009 , 107, 1089-1093	1.7	28
256	Is the size of an atom determined by its ionization energy?. Chemical Physics Letters, 2009, 480, 127-131	2.5	19
255	QTAIM study of an alpha-helix hydrogen bond network. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 1095	57 <u>5.6</u> 4	46
254	Homolytic bond-dissociation enthalpies of tin bonds and tinligand bond strengths [] Altomputational study. <i>Canadian Journal of Chemistry</i> , 2009 , 87, 974-983	0.9	8
253	On the local representation of the electronic momentum operator in atomic systems. <i>Journal of Chemical Physics</i> , 2008 , 129, 024110	3.9	28
252	Gas-Phase Interaction of Calcium (Ca(2+)) with Seleno Derivatives of Uracil. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 1002-11	6.4	14
251	Characterization of the bond between hydrogen and the non-nuclear attractor in anionic water clusters. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 6814-9	3.6	8
250	Effect of substituents on the GPx-like activity of ebselen: steric versus electronic. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1013-7	2.8	35
249	Bond length and the electron density at the bond critical point: XX, ZZ, and CZ bonds (X = Li-F, Z = Na-Cl). <i>Journal of Computational Chemistry</i> , 2008 , 29, 367-79	3.5	17
248	Factors controlling extremely strong AAA-DDD triply hydrogen-bonded complexes. <i>Chemical Physics Letters</i> , 2008 , 450, 210-213	2.5	10
247	The Hydrated Electron as a Pseudo-Atom in Cavity-Bound Water Clusters. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1054-63	6.4	31
246	A Density Functional Study of Methanol Clusters. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 54-61	6.4	118
245	A density functional theory study of the mechanism of the PaalKnorr pyrrole synthesis. <i>Computational and Theoretical Chemistry</i> , 2007 , 811, 97-107		22
244	Modeling the reaction mechanisms for redox regulation of protein tyrosine phosphatase 1B activity. <i>Theoretical Chemistry Accounts</i> , 2007 , 118, 573-578	1.9	2
243	A Non-Born Oppenheimer Self-consistent Field Method. <i>Journal of Mathematical Chemistry</i> , 2007 , 42, 353-365	2.1	3

242	The Development of Computational Chemistry in Canada. <i>Reviews in Computational Chemistry</i> , 2007 , 213-299		2
241	Density functional theory study of the reaction mechanism and energetics of the reduction of hydrogen peroxide by ebselen, ebselen diselenide, and ebselen selenol. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 3152-60	2.8	44
240	Atomic contributions to bond dissociation energies in aliphatic hydrocarbons. <i>Journal of Chemical Physics</i> , 2006 , 125, 204103	3.9	49
239	Modeling the reduction of hydrogen peroxide by glutathione peroxidase mimics. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 8979-85	2.8	31
238	Theoretical study of the thermolysis of beta-hydroxyl aldehydes. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 8710-8	2.8	3
237	Modeling competitive reaction mechanisms of peroxynitrite oxidation of guanine. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 9908-14	2.8	18
236	An Atoms in Molecules Study of the Halogen Resonance Effect. <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 271-80	6.4	7
235	Evaluation of effective core potentials and basis sets for the prediction of the geometries of alkyltin halides. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 5893-6	2.8	25
234	Calibration of a computational scheme for solvation studies: halide ions bound to water $X(H2O)\square$ (X = F, Cl, Br). <i>Molecular Physics</i> , 2006 , 104, 389-394	1.7	1
233	Preparation and evaluation of novel stationary phases for improved chromatographic purification of pneumocandin B0. <i>Journal of Chromatography A</i> , 2006 , 1101, 204-13	4.5	2
232	Extended weak bonding interactions in DNA: pi-stacking (base-base), base-backbone, and backbone-backbone interactions. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 563-78	3.4	199
231	An evaluation of various computational methods for the treatment of organoselenium compounds. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 10373-9	2.8	27
230	Characterization of a closed-shell fluorine-fluorine bonding interaction in aromatic compounds on the basis of the electron density. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 3669-81	2.8	149
229	Fluorine-fluorine spin-spin coupling constants in aromatic compounds: correlations with the delocalization index and with the internuclear separation. <i>Journal of Chemical Information and Modeling</i> , 2005 , 45, 354-9	6.1	36
228	Validation of a computational scheme to study 15N and 13C nuclear shielding constants. <i>Chemical Physics Letters</i> , 2005 , 401, 7-12	2.5	20
227	A theoretical study of the fluorine valence shell in methyl fluoride. <i>Chemical Physics Letters</i> , 2005 , 403, 47-54	2.5	8
226	The first example of a cage critical point in a single ring: A novel twisted ⊞-helical ring topology. <i>Chemical Physics Letters</i> , 2005 , 409, 265-269	2.5	43
225	The host g uest inclusion complex of p-chlorophenol inside ∃-cyclodextrin: An atoms in molecules study. <i>Chemical Physics Letters</i> , 2005 , 416, 70-74	2.5	3

224	Calibration of a computational scheme for solvation: Group I and II metal ions bound to water, formaldehyde and ammonia. <i>Molecular Physics</i> , 2005 , 103, 337-344	1.7	9
223	The effect of electron-withdrawing groups on 15N and 13C chemical shifts: a density functional study on a series of pyrroles. <i>Molecular Physics</i> , 2005 , 103, 1113-1129	1.7	10
222	Computation of Hyperfine Coupling Tensors to Complement EPR Experiments 2004, 565-580		
221	The Spin Dependence of the Spatial Size of Fe(II) and of the Structure of Fe(II)-Porphyrins. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 4653-4657	2.8	36
220	Stereoselective synthesis of a potent thrombin inhibitor by a novel P2-P3 lactone ring opening. Journal of Organic Chemistry, 2004 , 69, 3620-7	4.2	46
219	Alkoxy radicals in the gaseous phase: 愚cission reactions and formation by radical addition to carbonyl compounds. <i>Canadian Journal of Chemistry</i> , 2003 , 81, 431-442	0.9	55
218	Coming to Grips with NHIIIN Bonds. 2. Homocorrelations between Parameters Deriving from the Electron Density at the Bond Critical Point 1. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 272-284	2.8	82
217	Modeling the reaction mechanisms of the amide hydrolysis in an N-(o-carboxybenzoyl)-L-amino acid. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6994-7000	16.4	35
216	Modeling the reaction mechanisms of the imide formation in an N-(o-carboxybenzoyl)-L-amino acid. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3642-8	16.4	16
215	The Calculation of the Hyperfine Coupling Tensors of Biological Radicals. <i>Progress in Theoretical Chemistry and Physics</i> , 2003 , 239-265	0.6	
214	Recent applications of density functional theory calculations to biomolecules. <i>Theoretical Chemistry Accounts</i> , 2002 , 108, 1-11	1.9	40
213	ELECTRON CORRELATION STUDIES BY MEANS OF ELECTRON-PAIR DENSITY FUNCTIONS 2002 , 577-61	1	1
212	HYDROXYL RADICAL REACTIONS IN BIOLOGICAL MEDIA. Recent Advances in Computational, 2002, 387-	415	5
211	Molecular structures and excited states of CpM(CO)(2) (Cp = eta(5)-C(5)H(5); $M = Rh$, Ir) and [Cl(2)Rh(CO)(2)](-). Theoretical evidence for a competitive charge transfer mechanism. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2664-71	16.4	22
210	Theoretical studies of the cross-linking mechanisms between cytosine and tyrosine. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2753-61	16.4	34
209	Density Functional Study of the Proline-Catalyzed Direct Aldol Reaction. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 5155-5159	2.8	172
208	A Computational Study of the Kinetics of the NO3Hydrogen-Abstraction Reaction from a Series of Aldehydes (XCHO: \Box X = F, Cl, H, CH3). <i>Journal of Physical Chemistry A</i> , 2002 , 106, 384-394	2.8	27
207	A Computational Study of the Isomerization of Prolyl Amides As Catalyzed by Intramolecular Hydrogen Bonding. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 11168-11172	2.8	23

206	Crystal chemistry of tetraradial species. Part 10. Tilting at windmills: conformations of the tetraphenyl species ZPh40, \exists 1 (Z = B, C, N). Canadian Journal of Chemistry, 2002 , 80, 1351-1366	0.9	13
205	Efficient synthesis of the optically active dihydropyrimidinone of a potent ⊞1A- selective adrenoceptor antagonist. <i>Canadian Journal of Chemistry</i> , 2002 , 80, 646-652	0.9	17
204	A multi-component model for radiation damage to DNA from its constituents. <i>Theoretical and Computational Chemistry</i> , 2001 , 9, 409-466		3
203	A density functional theory study of the dimers of HX (X = F, Cl, and Br). <i>Journal of Computational Chemistry</i> , 2001 , 22, 1590-1597	3.5	23
202	A theoretical study of 5-halouracils: electron affinities, ionization potentials and dissociation of the related anions. <i>Chemical Physics Letters</i> , 2001 , 343, 151-158	2.5	110
201	On the importance of prereactive complexes in molecule-radical reactions: hydrogen abstraction from aldehydes by OH. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2018-24	16.4	211
200	Coming to Grips with NHIIIN Bonds. 1. Distance Relationships and Electron Density at the Bond Critical Point. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 6552-6566	2.8	95
199	Addition vs Abstraction Reactions of the Methyl Radical with Nitrones, Alkenes, Aldehydes, and Imines. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 7096-7105	2.8	20
198	Modeling the action of an antitumor drug: a density functional theory study of the mechanism of tirapazamine. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7320-5	16.4	23
197	Hydrogen-bond mediated catalysis: the aminolysis of 6-chloropyrimidine as catalyzed by derivatives of uracil. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2047-52	16.4	7
196	A Quantum Chemical and TST Study of the OH Hydrogen-Abstraction Reaction from Substituted Aldehydes: FCHO and ClCHO. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 9034-9039	2.8	38
195	Electron affinities and ionization potentials of nucleotide bases. Chemical Physics Letters, 2000, 322, 12	29 ₂ 135	213
194	Cusp conditions for non-Coulombic interactions. <i>Computational and Theoretical Chemistry</i> , 2000 , 527, 27-33		8
193	An assessment of theoretical methods for the study of transition metal carbonyl complexes: [Cl2Rh(CO)2][and [Cl2Rh(CO)][as case studies. <i>Journal of Chemical Physics</i> , 2000 , 113, 9393-9401	3.9	22
192	Effects of Alkyl Substituents on the Excited States of Naphthalene: Semiempirical Study. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 1020-1029	2.8	10
191	Structure sensitivity and cluster size convergence for formate adsorption on copper surfaces: A DFT cluster model study. <i>Journal of Chemical Physics</i> , 2000 , 112, 9562-9568	3.9	35
190	Radial moments of the electron density: Gas phase results and the effects of solvation. <i>Journal of Chemical Physics</i> , 2000 , 112, 1113-1121	3.9	4
189	Catalysis Mediated by Hydrogen Bonding: A Computational Study of the Aminolysis of 6-Chloropyrimidine. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5384-5386	16.4	7

(1998-2000)

188	Theoretical Studies of the Radiation Products of Hydroxyproline. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8583-8592	2.8	19	
187	A Density Functional Theory Study of the Radiation Products of Glycine. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 5080-5086	2.8	35	
186	Intracule and Extracule Densities: Historical Perspectives and Future Prospects. <i>Mathematical and Computational Chemistry</i> , 2000 , 231-248		13	
185	Electronic structures of the bound excited quartet states of the helium anion. <i>Physical Review A</i> , 1999 , 60, 4375-4378	2.6	7	
184	The topological features of the intracule density of the uniform electron gas. <i>Chemical Physics Letters</i> , 1999 , 304, 393-398	2.5	14	
183	A combined quantum mechanics and molecular dynamics study of small JahnII eller distorted hydrocarbons: Another difficult test for density-functional theory. <i>Journal of Chemical Physics</i> , 1999 , 110, 12059-12069	3.9	16	
182	Protonation and Deprotonation Effects on the Chemistry of the Third-Row Elements: Homolytic versus Heterolytic Cleavage. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 7087-7093	2.8	10	
181	Reply to Comment on Effects of Ionizing Radiation on Crystalline Cytosine Monohydrate <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3051-3052	3.4	9	
180	A Density-Functional Theory Investigation of the Radiation Products of l-∃-Alanine. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 4303-4308	2.8	40	
179	Theoretical Investigation of Adenine Radicals Generated in Irradiated DNA Components. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 10602-10614	3.4	66	
178	Effects of Ionizing Radiation on Crystalline Cytosine Monohydrate. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 7484-7491	3.4	62	
177	Ab Initio Studies of the Contrasting Butadiene Cheletropic and DielsAlder Cycloaddition Reactivities Observed for CarbenicPhosphorus (Phosphenium) and Arsenic (Arsenium) Cations Organometallics, 1998, 17, 4014-4029	3.8	10	
176	A Comprehensive Study of Sugar Radicals in Irradiated DNA. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 7674-7686	3.4	44	
175	van der Waals Complexes of Water with Oxygen and Nitrogen: Infrared Spectra and Atmospheric Implications. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 7294-7296	2.8	44	
174	Comparison of Experimental and Calculated Hyperfine Coupling Constants. Which Radicals Are Formed in Irradiated Guanine?. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9332-9343	3.4	78	
173	Radiation Products of Thymine, 1-Methylthymine, and Uracil Investigated by Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 5369-5377	3.4	76	
172	A spin-density polarization index. <i>Journal of Chemical Physics</i> , 1998 , 108, 2824-2830	3.9	3	
171	The calculation of accurate 17O hyperfine coupling constants in the hydroxyl radical: A difficult problem for current quantum chemical methods. <i>Journal of Chemical Physics</i> , 1998 , 109, 9451-9462	3.9	9	

170	The convergence of basis set contractions: A case study of the molecular hyperfine structure of NH214. <i>Journal of Chemical Physics</i> , 1997 , 107, 6270-6274	3.9	6
169	Density functional theory investigation of hyperfine coupling constants in peroxyl radicals. <i>Journal of Chemical Physics</i> , 1997 , 106, 7738-7748	3.9	39
168	Calculation of Quadrupole Moments of Polycyclic Aromatic Hydrocarbons: Applications to Chromatography. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 5374-5377	2.8	18
167	Theoretical Study of the Effects of Protonation and Deprotonation on Bond Dissociation Energies of Second-Row Elements: Comparison with First-Row Elements. <i>Journal of the American Chemical Society</i> , 1997 , 119, 4214-4219	16.4	20
166	An orbital-based density difference index for the comparison of electron density distributions. Journal of Chemical Physics, 1997 , 107, 6693-6698	3.9	3
165	Density functional theory studies of the quadrupole moments of benzene and naphthalene. <i>Chemical Physics Letters</i> , 1997 , 277, 252-256	2.5	14
164	Electronegativity and Hardness of Disjoint and Transferable Molecular Fragments. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 3448-3453		16
163	The 28-Electron Tetraatomic Molecules: N4, CN2O, BFN2, C2O2, B2F2, CBFO, C2FN, and BNO2. Challenges for Computational and Experimental Chemistry. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 5702-5714		96
162	Electron Densities of Homonuclear Diatomic Molecules As Calculated from Density Functional Theory. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 5274-5280		20
161	Tautomeric Equilibria of Hydroxypyridines in Different Solvents: An ab Initio Study. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16141-16146		73
160	Topological properties of the electronic structures of the reactants, transition states, and products of the reactions of the hydroxyl radical with the series C2HnF6 \overline{B} , n = 1 \overline{B} . Canadian Journal of Chemistry, 1996 , 74, 786-800	0.9	4
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20	Fundamentals in Tin Chemistry17-283		7
19	An Introduction to the Quantum Theory of Atoms in Molecules1-34		88
18	Interpretation of Experimental Electron Densities by Combination of the QTAMC and DFT257-283		9
17	Topological Analysis of Proteins as Derived from Medium and High-resolution Electron Density: Applications to Electrostatic Properties285-315		8
16	Fragment Transferability Studied Theoretically and Experimentally with QTAIM Implications for Electron Density and Invariom Modeling317-341		6
15	Interactions Involving Metals [From [Themical Categories] to QTAIM, and Backwards343-374		2
14	Applications of the Quantum Theory of Atoms in Molecules in Organic Chemistry Charge Distribution, Conformational Analysis and Molecular Interactions375-397		2
13	Aromaticity Analysis by Means of the Quantum Theory of Atoms in Molecules399-423		5
12	Topological Properties of the Electron Distribution in Hydrogen-bonded Systems425-451		9
11	Relationships between QTAIM and the Decomposition of the Interaction Energy ©comparison of Different Kinds of Hydrogen Bond453-469		6
10	QTAIM in Drug Discovery and Protein Modeling471-498		11
9	Fleshing-out Pharmacophores with Volume Rendering of the Laplacian of the Charge Density and Hyperwall Visualization Technology499-514		3

LIST OF PUBLICATIONS

8	The Lagrangian Approach to Chemistry35-59	5
7	Atomic Response Properties61-94	8
6	QTAIM Analysis of Raman Scattering Intensities: Insights into the Relationship Between Molecular Structure and Electronic Charge Flow95-120	0
5	Topological AtomAtom Partitioning of Molecular Exchange Energy and its Multipolar Convergence121-140	31
4	The ELF Topological Analysis Contribution to Conceptual Chemistry and Phenomenological Models141-162	3
3	Solid State Applications of QTAIM and the Source Function IMolecular Crystals, Surfaces, Hostuest Systems and Molecular Complexes163-206	2
2	Topology and Properties of the Electron Density in Solids207-229	1
1	Atoms in Molecules Theory for Exploring the Nature of the Active Sites on Surfaces231-256	3