Marcel Swart

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.

173
papers7,217
citations46
h-index78
g-index200
ext. papers7,967
ext. citations5.5
avg, IF6.35
L-index

#	Paper	IF	Citations
173	Modulation of a E1,2-Peroxo Dicopper(II) Intermediate by Strong Interaction with Alkali Metal Ions. Journal of the American Chemical Society, 2021, 143, 17751-17760	16.4	3
172	Stable, but still reactive Investigations on the effects of Lewis acid binding on copper nitrene intermediates. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1495-1502	1.3	1
171	A Pseudotetrahedral Terminal Oxoiron(IV) Complex: Mechanistic Promiscuity in C-H Bond Oxidation Reactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6752-6756	16.4	7
170	A Pseudotetrahedral Terminal Oxoiron(IV) Complex: Mechanistic Promiscuity in CH Bond Oxidation Reactions. <i>Angewandte Chemie</i> , 2021 , 133, 6826-6830	3.6	2
169	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020 , 152, 184102	3.9	187
168	Stoichiometric Formation of an Oxoiron(IV) Complex by a Soluble Methane Monooxygenase Type Activation of O at an Iron(II)-Cyclam Center. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5924-	59 ¹² 8 ⁴	19
167	Dealing with Spin States in Computational Organometallic Catalysis. <i>Topics in Organometallic Chemistry</i> , 2020 , 191-226	0.6	5
166	Effect of Alkali Metal Cations on Length and Strength of Hydrogen Bonds in DNA Base Pairs. <i>ChemPhysChem</i> , 2020 , 21, 2112-2126	3.2	8
165	Sc-Promoted O-O Bond Cleavage of a (日,2-Peroxo)diiron(III) Species Formed from an Iron(II) Precursor and O to Generate a Complex with an Fe(EO) Core. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4285-4297	16.4	16
164	Sequential oxidations of phenylchalcogenides by H2O2: insights into the redox behavior of selenium via DFT analysis. <i>New Journal of Chemistry</i> , 2020 , 44, 6724-6731	3.6	12
163	Density functional approximations for consistent spin and oxidation states of oxoiron complexes. <i>International Journal of Quantum Chemistry</i> , 2020 , 120, e26121	2.1	6
162	Computational NMR Spectra of o-Benzyne and Stable Guests and Their Hemicarceplexes. <i>Chemistry - A European Journal</i> , 2020 , 26, 2626-2634	4.8	2
161	A Unified Framework for Understanding Nucleophilicity and Protophilicity in the S 2/E2 Competition. <i>Chemistry - A European Journal</i> , 2020 , 26, 15538-15548	4.8	13
160	Spin-resolved charge displacement analysis as an intuitive tool for the evaluation of cPCET and HAT scenarios. <i>Chemical Communications</i> , 2020 , 56, 12146-12149	5.8	1
159	Bond orders in metalloporphyrins. <i>Theoretical Chemistry Accounts</i> , 2020 , 139, 1	1.9	2
158	Trapping of a Highly Reactive Oxoiron(IV) Complex in the Catalytic Epoxidation of Olefins by Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4012-4016	16.4	29
157	The Irony of Manganocene: An Interplay between the Jahn-Teller Effect and Close-Lying Electronic and Spin States. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 1806-1810	6.1	2

156	Directed Hydroxylation of sp and sp C-H Bonds Using Stoichiometric Amounts of Cu and HO. <i>Inorganic Chemistry</i> , 2019 , 58, 7584-7592	5.1	11	
155	Four-component relativistic P NMR calculations for trans-platinum(ii) complexes: importance of the solvent and dynamics in spectral simulations. <i>Dalton Transactions</i> , 2019 , 48, 8076-8083	4.3	13	
154	Computational Versus Experimental Spectroscopy for Transition Metals. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2019 , 161-183	0.7	1	
153	Trapping of a Highly Reactive Oxoiron(IV) Complex in the Catalytic Epoxidation of Olefins by Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2019 , 131, 4052-4056	3.6	12	
152	Lewis versus Brlisted Acid Activation of a Mn(IV) Catalyst for Alkene Oxidation. <i>Inorganic Chemistry</i> , 2019 , 58, 14924-14930	5.1	15	
151	Understanding the Catalase-Like Activity of a Bioinspired Manganese(II) Complex with a Pentadentate NSNSN Ligand Framework. A Computational Insight into the Mechanism. <i>ACS Catalysis</i> , 2018 , 8, 2944-2958	13.1	6	
150	Nucleophilic Substitution (SN2): Dependence on Nucleophile, Leaving Group, Central Atom, Substituents, and Solvent. <i>ChemPhysChem</i> , 2018 , 19, 1248-1248	3.2	2	
149	Nucleophilic Substitution (S 2): Dependence on Nucleophile, Leaving Group, Central Atom, Substituents, and Solvent. <i>ChemPhysChem</i> , 2018 , 19, 1315-1330	3.2	85	
148	Rotating Iron and Titanium Sandwich Complexes. <i>Chemistry - A European Journal</i> , 2018 , 24, 5070-5073	4.8	1	
147	Why the Flavin Adenine Dinucleotide (FAD) Cofactor Needs To Be Covalently Linked to Complex II of the Electron-Transport Chain for the Conversion of FADH into FAD. <i>Chemistry - A European Journal</i> , 2018 , 24, 5246-5252	4.8	10	
146	Catalytic Aerobic Oxidation of Alcohols by Copper Complexes Bearing Redox-Active Ligands with Tunable H-Bonding Groups. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16625-16634	16.4	30	
145	HO Oxidation by Fe-OOH Intermediates and Its Effect on Catalytic Efficiency. ACS Catalysis, 2018, 8, 96	65 3 967	431	
144	The influence of substituents and the environment on the NMR shielding constants of supramolecular complexes based on A-T and A-U base pairs. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13496-13502	3.6	9	
143	Electrochemical Polymerization of Iron(III) Polypyridyl Complexes through C-C Coupling of Redox Non-innocent Phenolato Ligands. <i>Inorganic Chemistry</i> , 2017 , 56, 470-479	5.1	13	
142	A Highly Reactive Oxoiron(IV) Complex Supported by a Bioinspired N O Macrocyclic Ligand. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14384-14388	16.4	32	
141	A Highly Reactive Oxoiron(IV) Complex Supported by a Bioinspired N3O Macrocyclic Ligand. <i>Angewandte Chemie</i> , 2017 , 129, 14576-14580	3.6	10	
140	The role of spin states in the catalytic mechanism of the intra- and extradiol cleavage of catechols by O. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 7860-7868	3.9	6	
139	Transient Formation and Reactivity of a High-Valent Nickel(IV) Oxido Complex. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8718-8724	16.4	38	

138	Indirect evidence for a Ni-oxyl oxidant in the reaction of a Ni complex with peracid. <i>Dalton Transactions</i> , 2017 , 47, 246-250	4.3	9
137	Reactivity of an Fe-Oxo Complex with Protons and Oxidants. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13143-13146	16.4	37
136	Tuning the Reactivity of Terminal Nickel(III)-Oxygen Adducts for C-H Bond Activation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14362-14370	16.4	50
135	Spinning around in Transition-Metal Chemistry. <i>Accounts of Chemical Research</i> , 2016 , 49, 2690-2697	24.3	92
134	Unique mononuclear Mn(II) complexes of an end-off compartmental Schiff base ligand: experimental and theoretical studies on their bio-relevant catalytic promiscuity. <i>Dalton Transactions</i> , 2016 , 45, 12409-22	4.3	46
133	Rapid determination of polarizability exaltation in fullerene-based nanostructures. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 23-25	7.1	10
132	Terminal Metal®xo Species with Unusual Spin States 2015 , 203-227		2
131	Environment Effects on Spin States, Properties, and Dynamics from Multi-Level QM/MM Studies 2015 , 327-367		
130	General Introduction to Spin States 2015 , 1-5		1
129	Application of Density Functional and Density Functional Based Ligand Field Theory to Spin States 2015 , 7-34		6
128	Ab Initio Wavefunction Approaches to Spin States 2015 , 35-57		7
127	Experimental Techniques for Determining Spin States 2015 , 59-83		5
126	Molecular Discovery in Spin Crossover 2015 , 85-102		
125	Principles and Prospects of Spin-States Reactivity in Chemistry and Bioinorganic Chemistry 2015 , 131-	156	13
124	2015,		33
123	Characterization and reactivity of a terminal nickel(III)-oxygen adduct. <i>Chemistry - A European Journal</i> , 2015 , 21, 3785-90	4.8	32
122	Experimental and theoretical investigation of octahedral and square-planar isothiocyanato complexes of Ni(II) with acylhydrazones of 2-(diphenylphosphino)benzaldehyde. <i>Polyhedron</i> , 2015 , 89, 271-279	2.7	10
121	Spin state relaxation of iron complexes: The case for OPBE and S12g. <i>Journal of the Serbian Chemical Society</i> , 2015 , 80, 1399-1410	0.9	14

(2013-2015)

Understanding the Exohedral Functionalization of Endohedral Metallofullerenes. *Carbon Materials*, **2015**, 67-99

119	Exploring the potential energy surface of EPIclusters (E=Group 13 element): the quest for inverse carbon-free sandwiches. <i>Chemistry - A European Journal</i> , 2014 , 20, 4583-90	4.8	17
118	Exploring the Potential Energy Surface of E2P4 Clusters (E=Group 13 Element): The Quest for Inverse Carbon-Free Sandwiches. <i>Chemistry - A European Journal</i> , 2014 , 20, 4497-4497	4.8	
117	Indenyl effect due to metal slippage? Computational exploration of rhodium-catalyzed acetylene [2+2+2] cyclotrimerization. <i>ChemPhysChem</i> , 2014 , 15, 219-28	3.2	24
116	A density functional study of the spin state energetics of polypyrazolylborato complexes of first-row transition metals. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14514-22	3.6	19
115	Synthesis, characterization, DFT calculation and biological activity of square-planar Ni(II) complexes with tridentate PNO ligands and monodentate pseudohalides. Part II. <i>European Journal of Medicinal Chemistry</i> , 2014 , 87, 284-97	6.8	17
114	Energetics of charges in organic semiconductors and at organic donoracceptor interfaces. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3467-3475	7.1	16
113	Reaction Mechanisms for the Formation of Mono- And Dipropylene Glycol from the Propylene Oxide Hydrolysis over ZSM-5 Zeolite. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21952-21962	3.8	7
112	Electronic structure investigation and parametrization of biologically relevant iron-sulfur clusters. Journal of Chemical Information and Modeling, 2014 , 54, 613-20	6.1	22
111	Synthesis, characterization, DFT calculations, and antimicrobial activity of Pd(II) and Co(III) complexes with the condensation derivative of 2-(diphenylphosphino)benzaldehyde and Girard T reagent. <i>Journal of Coordination Chemistry</i> , 2014 , 67, 3633-3648	1.6	6
110	The role of aromaticity in determining the molecular structure and reactivity of (endohedral metallo)fullerenes. <i>Chemical Society Reviews</i> , 2014 , 43, 5089-105	58.5	84
109	Combined Experimental and Theoretical Investigation of Ligand and Anion Controlled Complex Formation with Unprecedented Structural Features and Photoluminescence Properties of Zinc(II) Complexes. <i>Crystal Growth and Design</i> , 2014 , 14, 4111-4123	3.5	25
108	B-DNA structure and stability: the role of hydrogen bonding, Estacking interactions, twist-angle, and solvation. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 4691-700	3.9	51
107	Spin states of (bio)inorganic systems: Successes and pitfalls. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 2-7	2.1	86
106	Aromaticity as the driving force for the stability of non-IPR endohedral metallofullerene Bingel-Hirsch adducts. <i>Chemical Communications</i> , 2013 , 49, 8767-9	5.8	21
105	Maximum aromaticity as a guiding principle for the most suitable hosting cages in endohedral metallofullerenes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9275-8	16.4	48
104	A new family of hybrid density functionals. <i>Chemical Physics Letters</i> , 2013 , 580, 166-171	2.5	76
103	Unraveling the origin of the relative stabilities of group 14 M2N2(2+) (M, N = C, Si, Ge, Sn, and Pb) isomer clusters. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 10462-9	2.8	12

102	A change in the oxidation state of iron: scandium is not innocent. <i>Chemical Communications</i> , 2013 , 49, 6650-2	5.8	68
101	A complete guide on the influence of metal clusters in the Diels-Alder regioselectivity of I(h)-C80 endohedral metallofullerenes. <i>Chemistry - A European Journal</i> , 2013 , 19, 14931-40	4.8	36
100	Electrochemical control of the regioselectivity in the exohedral functionalization of C60: the role of aromaticity. <i>Chemical Communications</i> , 2013 , 49, 1220-2	5.8	38
99	Self-assembled tetragonal prismatic molecular cage highly selective for anionic lguests. <i>Chemistry - A European Journal</i> , 2013 , 19, 1445-56	4.8	29
98	Computational study of the spin-state energies and UV-Vis spectra of bis(1,4,7-triazacyclononane) complexes of some first-row transition metal cations. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 663	13 <u>-6</u>	15
97	Diels-Alder and retro-Diels-Alder cycloadditions of (1,2,3,4,5-pentamethyl)cyclopentadiene to La@C(2v)-C(82): regioselectivity and product stability. <i>Chemistry - A European Journal</i> , 2013 , 19, 4468-79	9 ^{4.8}	25
96	Nuclear magnetic resonance shieldings of water clusters: is it possible to reach the complete basis set limit by extrapolation?. <i>Molecular Physics</i> , 2013 , 111, 1332-1344	1.7	4
95	Intramolecular halogen-halogen bonds?. Physical Chemistry Chemical Physics, 2013, 15, 11543-53	3.6	53
94	Synthesis, characterization, DFT calculations and biological activity of derivatives of 3-acetylpyridine and the zinc(II) complex with the condensation product of 3-acetylpyridine and semicarbazide. <i>Inorganica Chimica Acta</i> , 2013 , 404, 5-12	2.7	12
93	Role of spin state and ligand charge in coordination patterns in complexes of 2,6-diacetylpyridinebis(semioxamazide) with 3d-block metal ions: a density functional theory study. <i>Inorganic Chemistry</i> , 2013 , 52, 13415-23	5.1	15
92	Maximum Aromaticity as a Guiding Principle for the Most Suitable Hosting Cages in Endohedral Metallofullerenes. <i>Angewandte Chemie</i> , 2013 , 125, 9445-9448	3.6	8
91	Benchmark study on the smallest bimolecular nucleophilic substitution reaction: H?+CHB>CHBH?. <i>Molecules</i> , 2013 , 18, 7726-38	4.8	2
90	Solvent effects on hydrogen bonds in Watson Trick, mismatched, and modified DNA base pairs. <i>Computational and Theoretical Chemistry</i> , 2012 , 998, 57-63	2	25
89	Product formation in the Prato reaction on Sc3N@D(5h)-C80: preference for [5,6]-bonds, and not pyracylenic bonds. <i>Chemical Communications</i> , 2012 , 48, 2486-8	5.8	26
88	The Frozen Cage Model: A Computationally Low-Cost Tool for Predicting the Exohedral Regioselectivity of Cycloaddition Reactions Involving Endohedral Metallofullerenes. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 1671-83	6.4	18
87	Density functional study on UV/VIS spectra of copper-protein active sites: the effect of mutations. <i>Chemistry and Biodiversity</i> , 2012 , 9, 1728-38	2.5	2
86	Chemical shifts in nucleic acids studied by density functional theory calculations and comparison with experiment. <i>Chemistry - A European Journal</i> , 2012 , 18, 12372-87	4.8	48
85	Chemical bonding in supermolecular flowers. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14905-10	3.6	8

(2010-2012)

84	The exohedral Diels-Alder reactivity of the titanium carbide endohedral metallofullerene Ti2C2@D(3h)-C78: comparison with D(3h)-C78 and M3N@D(3h)-C78 (M=Sc and Y) reactivity. <i>Chemistry - A European Journal</i> , 2012 , 18, 7141-54	4.8	47
83	Full exploration of the Diels-Alder cycloaddition on metallofullerenes M3N@C80 (M = Sc, Lu, Gd): the D(5h) versus I(h) isomer and the influence of the metal cluster. <i>Chemistry - A European Journal</i> , 2012 , 18, 8944-56	4.8	46
82	Ab initio absorption spectrum of NiO combining molecular dynamics with the embedded cluster approach in a discrete reaction field. <i>Physical Review B</i> , 2012 , 85,	3.3	35
81	The reactivity of endohedral fullerenes. What can be learnt from computational studies?. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3585-603	3.6	117
80	Dispersion corrections essential for the study of chemical reactivity in fullerenes. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 3491-6	2.8	108
79	Selectivity in DNA replication. Interplay of steric shape, hydrogen bonds, Estacking and solvent effects. <i>Chemical Communications</i> , 2011 , 47, 7326-8	5.8	47
78	A multi-scale approach to spin crossover in Fe(II) compounds. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10449-56	3.6	17
77	Atomic radii in molecules for use in a polarizable force field. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 1763-1772	2.1	8
76	Is the pig a good umami sensing model for humans? A comparative taste receptor study. <i>Flavour and Fragrance Journal</i> , 2011 , 26, 282-285	2.5	19
75	Inter- and intramolecular dispersion interactions. <i>Journal of Computational Chemistry</i> , 2011 , 32, 1117-27	7 3.5	32
74	Subtle effects control the polymerisation mechanism in Ediimine iron catalysts. <i>Dalton Transactions</i> , 2011 , 40, 8419-28	4.3	18
73	Nuclear shieldings with the SSB-D functional. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 1250-6	2.8	16
72	The Chemical Reactivity of Fullerenes and Endohedral Fullerenes: A Theoretical Perspective. <i>Carbon Materials</i> , 2011 , 57-78		2
71	Density Functional Calculations of E2 and SN2 Reactions: Effects of the Choice of Method, Algorithm, and Numerical Accuracy. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 3145-52	6.4	26
70	Magnetizabilities at Self-Interaction-Corrected Density Functional Theory Level. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 3302-11	6.4	9
69	On the Atomic Polarizabilities in Small Sin Clusters and the Dielectric Constant of Bulk Silicon Journal of Physical Chemistry C, 2010 , 114, 20547-20555	3.8	6
68	Spin-state-corrected Gaussian-type orbital basis sets. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 7191-7	2.8	39
67	The minimum polarizability principle for spin states. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2010 , 10, 609-614	0.3	

66	Accurate Description of Spin States and its Implications for Catalysis 2010 , 551-583		10
65	Adenine versus guanine quartets in aqueous solution: dispersion-corrected DFT study on the differences in Estacking and hydrogen-bonding behavior. <i>Theoretical Chemistry Accounts</i> , 2010 , 125, 245-252	1.9	110
64	Differential stabilization of adenine quartets by anions and cations. <i>Journal of Biological Inorganic Chemistry</i> , 2010 , 15, 387-97	3.7	16
63	On the mechanism of action of fullerene derivatives in superoxide dismutation. <i>Chemistry - A European Journal</i> , 2010 , 16, 3207-14	4.8	39
62	Reactivity and Regioselectivity of Noble Gas Endohedral Fullerenes Ng@C60 and Ng2@C60 (Ng=HeXe). <i>Chemistry - A European Journal</i> , 2010 , 16, 3878-3878	4.8	5
61	Spin-state splittings of iron(II) complexes with trispyrazolyl ligands. <i>Polyhedron</i> , 2010 , 29, 84-93	2.7	39
60	A new all-round density functional based on spin states and S(N)2 barriers. <i>Journal of Chemical Physics</i> , 2009 , 131, 094103	3.9	104
59	Switching between OPTX and PBE exchange functionals. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2009 , 9, 69-77	0.3	18
58	A Ditopic Ion-Pair Receptor Based on Stacked Nucleobase Quartets. <i>Angewandte Chemie</i> , 2009 , 121, 3335-3337	3.6	23
57	Rare tautomers of 1-methyluracil and 1-methylthymine: tuning relative stabilities through coordination to PtII complexes. <i>Chemistry - A European Journal</i> , 2009 , 15, 209-18	4.8	29
56	Reactivity and regioselectivity of noble gas endohedral fullerenes Ng@C(60) and Ng(2)@C(60) (Ng=He-Xe). <i>Chemistry - A European Journal</i> , 2009 , 15, 13111-23	4.8	42
55	Homolytic versus heterolytic dissociation of alkalimetal halides: the effect of microsolvation. <i>ChemPhysChem</i> , 2009 , 10, 2955-65	3.2	13
54	Role of the variable active site residues in the function of thioredoxin family oxidoreductases. Journal of Computational Chemistry, 2009 , 30, 710-24	3.5	11
53	A ditopic ion-pair receptor based on stacked nucleobase quartets. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3285-7	16.4	64
52	The Diels-Alder reaction on endohedral Y3N@C78: the importance of the fullerene strain energy. Journal of the American Chemical Society, 2009 , 131, 129-39	16.4	69
51	Stepwise walden inversion in nucleophilic substitution at phosphorus. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 259-67	3.6	41
50	Chemical bonding and aromaticity in metalloporphyrins,. Canadian Journal of Chemistry, 2009, 87, 1063-	1033	27
49	Accurate Spin-State Energies for Iron Complexes. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 2057-66	6.4	289

(2006-2008)

48	Importance of the basis set for the spin-state energetics of iron complexes. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 6384-91	2.8	115
47	Mechanism of thioredoxin-catalyzed disulfide reduction. Activation of the buried thiol and role of the variable active-site residues. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 2511-23	3.4	34
46	Chemical reactivity of D3h C78 (metallo)fullerene: regioselectivity changes induced by Sc3N encapsulation. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6206-14	16.4	70
45	QUILD: QUantum-regions interconnected by local descriptions. <i>Journal of Computational Chemistry</i> , 2008 , 29, 724-34	3.5	114
44	The Discrete Reaction Field approach for calculating solvent effects. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2008 , 39-102	0.7	7
43	Conformational behavior of basic monomeric building units of glycosaminoglycans: isolated systems and solvent effect. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 2313-21	3.4	12
42	Energy landscapes of nucleophilic substitution reactions: a comparison of density functional theory and coupled cluster methods. <i>Journal of Computational Chemistry</i> , 2007 , 28, 1551-1560	3.5	87
41	Proton Affinities in Water of Maingroup-Element Hydrides Effects of Hydration and Methyl Substitution. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 3646-3654	2.3	82
40	Nucleophilic substitution at phosphorus centers (SN2@p). ChemPhysChem, 2007, 8, 2452-63	3.2	55
39	Metallgand bonding in metallocenes: Differentiation between spin state, electrostatic and covalent bonding. <i>Inorganica Chimica Acta</i> , 2007 , 360, 179-189	2.7	167
38	Pi-pi stacking tackled with density functional theory. <i>Journal of Molecular Modeling</i> , 2007 , 13, 1245-57	2	111
37	Proton affinities of maingroup-element hydrides and noble gases: trends across the periodic table, structural effects, and DFT validation. <i>Journal of Computational Chemistry</i> , 2006 , 27, 1486-93	3.5	38
36	DRF90: a polarizable force field. <i>Molecular Simulation</i> , 2006 , 32, 471-484	2	56
35	Nucleophilic substitution at phosphorus (S(N)2@P): disappearance and reappearance of reaction barriers. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10738-44	16.4	126
34	Proton Affinities of Anionic Bases: Trends Across the Periodic Table, Structural Effects, and DFT Validation. <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 281-7	6.4	46
33	Circular dichroism spectrum of [Co(en)3]3+ in water: A discrete solvent reaction field study. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 2479-2488	2.1	30
32	Optimization of strong and weak coordinates. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 2536-2544	2.1	92
31	Performance of various density functionals for the hydrogen bonds in DNA base pairs. <i>Chemical Physics Letters</i> , 2006 , 426, 415-421	2.5	141

30	Theoretical study of structure, pKa, lipophilicity, solubility, absorption, and polar surface area of some centrally acting antihypertensives. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 1715-28	3.4	70
29	QM/MM study of the role of the solvent in the formation of the charge separated excited state in 9,9'-bianthryl. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11019-28	16.4	50
28	Study of Hg22+ and complexes of NpO2+ and UO22+ in solution. examples of cation-cation interactions. <i>Inorganic Chemistry</i> , 2005 , 44, 6975-82	5.1	31
27	Electronic ground states of iron porphyrin and of the first species in the catalytic reaction cycle of cytochrome P450s. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 3411-7	2.8	95
26	Substrate binding in the active site of cytochrome P450cam. <i>Chemical Physics Letters</i> , 2005 , 403, 35-41	2.5	9
25	Multicomponent synthesis of 2-imidazolines. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3542-53	4.2	141
24	Calculation of the redox potential of the protein azurin and some mutants. <i>ChemBioChem</i> , 2005 , 6, 738-	- 456 8	46
23	Microscopic and macroscopic polarization within a combined quantum mechanics and molecular mechanics model. <i>Journal of Chemical Physics</i> , 2005 , 122, 34103	3.9	36
22	Polarizabilities of amino acid residues. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2004 , 4, 419-425	0.3	16
21	Hydrogen bonds of RNA are stronger than those of DNA, but NMR monitors only presence of methyl substituent in uracil/thymine. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16718-9	16.4	81
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13	AddRemove: A new link model for use in QM/MM studies. <i>International Journal of Quantum Chemistry</i> , 2003 , 91, 177-183	2.1	40

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12	Collision effects in the nonlinear Raman response of liquid carbon disulfide. <i>Journal of Chemical Physics</i> , 2002 , 116, 3277-3285	3.9	25
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