

Friedrich Matthias Bickelhaupt

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382
papers

26,133
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70
h-index

152
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436
ext. papers

29,018
ext. citations

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avg, IF

7.48
L-index

#	Paper	IF	Citations
382	Chemistry with ADF. <i>Journal of Computational Chemistry</i> , 2001 , 22, 931-967	3.5	7628
381	Voronoi deformation density (VDD) charges: Assessment of the Mulliken, Bader, Hirshfeld, Weinhold, and VDD methods for charge analysis. <i>Journal of Computational Chemistry</i> , 2004 , 25, 189-210	3.5	782
380	Analyzing Reaction Rates with the Distortion/Interaction-Activation Strain Model. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10070-10086	16.4	649
379	The activation strain model of chemical reactivity. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 3118-27	3.9	506
378	Kohn-Sham Density Functional Theory: Predicting and Understanding Chemistry. <i>Reviews in Computational Chemistry</i> , 2007 , 1-86		466
377	The activation strain model and molecular orbital theory: understanding and designing chemical reactions. <i>Chemical Society Reviews</i> , 2014 , 43, 4953-67	58.5	455
376	Understanding reactivity with Kohn-Sham molecular orbital theory: E2N2 mechanistic spectrum and other concepts. <i>Journal of Computational Chemistry</i> , 1999 , 20, 114-128	3.5	438
375	Hydrogen Bonding in DNA Base Pairs: Reconciliation of Theory and Experiment. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4117-4128	16.4	379
374	Charge transport in columnar stacked triphenylenes: Effects of conformational fluctuations on charge transfer integrals and site energies. <i>Journal of Chemical Physics</i> , 2003 , 119, 9809-9817	3.9	346
373	Absolute rates of hole transfer in DNA. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14894-903	16.4	303
372	The Nature of the Hydrogen Bond in DNA Base Pairs: The Role of Charge Transfer and Resonance Assistance. <i>Chemistry - A European Journal</i> , 1999 , 5, 3581-3594	4.8	303
371	Hydrogen-hydrogen bonding in planar biphenyl, predicted by atoms-in-molecules theory, does not exist. <i>Chemistry - A European Journal</i> , 2006 , 12, 2889-95	4.8	280
370	Orbital overlap and chemical bonding. <i>Chemistry - A European Journal</i> , 2006 , 12, 9196-216	4.8	254
369	The Carbon-Lithium Electron Pair Bond in (CH ₃ Li) _n (n = 1, 2, 4). <i>Organometallics</i> , 1996 , 15, 2923-2931	3.8	249
368	The activation strain model and molecular orbital theory. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2015 , 5, 324-343	7.9	218
367	The Nature of the Transition Metal-Carbonyl Bond and the Question about the Valence Orbitals of Transition Metals. A Bond-Energy Decomposition Analysis of TM(CO) ₆ q (TMq= Hf ²⁺ , Ta ⁻ , W, Re ⁺ , Os ²⁺ , Ir ³⁺) <i>Journal of the American Chemical Society</i> , 2000 , 122, 6449-6458	16.4	218
366	The case for steric repulsion causing the staggered conformation of ethane. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4183-8; discussion 4188-94	16.4	204

365	A model of the chemical bond must be rooted in quantum mechanics, provide insight, and possess predictive power. <i>Chemistry - A European Journal</i> , 2006 , 12, 2902-5	4.8	191
364	Polycyclic benzenoids: why kinked is more stable than straight. <i>Journal of Organic Chemistry</i> , 2007 , 72, 1134-42	4.2	177
363	Nucleophilicity and leaving-group ability in frontside and backside S(N)2 reactions. <i>Journal of Organic Chemistry</i> , 2008 , 73, 7290-9	4.2	170
362	Alternatives to the CO Ligand: Coordination of the Isolobal Analogues BF, BNH ₂ , BN(CH ₃) ₂ , and BO in Mono- and Binuclear First-Row Transition Metal Complexes. <i>Chemistry - A European Journal</i> , 1998 , 4, 210-221	4.8	165
361	Central bond in the three CN.cntdot.dimers NC-CN, CN-CN and CN-NC: electron pair bonding and Pauli repulsion effects. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 4864-4873		165
360	The many faces of halogen bonding: a review of theoretical models and methods. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014 , 4, 523-540	7.9	163
359	Transition-state energy and position along the reaction coordinate in an extended activation strain model. <i>ChemPhysChem</i> , 2007 , 8, 1170-81	3.2	158
358	Halogen Bonding versus Hydrogen Bonding: A Molecular Orbital Perspective. <i>ChemistryOpen</i> , 2012 , 1, 96-105	2.3	149
357	Is CO a Special Ligand in Organometallic Chemistry? Theoretical Investigation of AB, Fe(CO)4AB, and Fe(AB)5 (AB = N ₂ , CO, BF, SiO). <i>Inorganic Chemistry</i> , 1998 , 37, 1080-1090	5.1	149
356	Nucleophilic substitution at silicon (SN ₂ @Si) via a central reaction barrier. <i>Journal of Organic Chemistry</i> , 2007 , 72, 2201-7	4.2	142
355	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
354	Multicomponent synthesis of 2-imidazolines. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3542-53	4.2	141
353	The EDA Perspective of Chemical Bonding 2014 , 121-157		137
352	Das Distortion/Interaction-Activation-Strain-Modell zur Analyse von Reaktionsgeschwindigkeiten. <i>Angewandte Chemie</i> , 2017 , 129, 10204-10221	3.6	136
351	Oxidative addition of Pd to C ₆ H ₆ , C ₆ D ₆ and C ₆ F ₆ bonds: Importance of relativistic effects in DFT calculations. <i>Journal of Chemical Physics</i> , 2001 , 115, 4030-4040	3.9	131
350	Activation of H-H, C-H, C-C and C-Cl Bonds by Pd and PdCl(-). Understanding Anion Assistance in C-X Bond Activation. <i>Journal of Chemical Theory and Computation</i> , 2005 , 1, 286-98	6.4	129
349	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
348	Ab initio and DFT benchmark study for nucleophilic substitution at carbon (SN ₂ @C) and silicon (SN ₂ @Si). <i>Journal of Computational Chemistry</i> , 2005 , 26, 1497-504	3.5	120

347	Highly accelerated inverse electron-demand cycloaddition of electron-deficient azides with aliphatic cyclooctynes. <i>Nature Communications</i> , 2014 , 5, 5378	17.4	117
346	Bonding capabilities of imidazol-2-ylidene ligands in group-10 transition-metal chemistry. <i>Coordination Chemistry Reviews</i> , 2009 , 253, 678-686	23.2	116
345	Telomere structure and stability: covalency in hydrogen bonds, not resonance assistance, causes cooperativity in guanine quartets. <i>Chemistry - A European Journal</i> , 2011 , 17, 12612-22	4.8	114
344	QUILD: QUAntum-regions interconnected by local descriptions. <i>Journal of Computational Chemistry</i> , 2008 , 29, 724-34	3.5	114
343	Pi-pi stacking tackled with density functional theory. <i>Journal of Molecular Modeling</i> , 2007 , 13, 1245-57	2	111
342	Adenine tautomers: relative stabilities, ionization energies, and mismatch with cytosine. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 4012-20	2.8	111
341	Activation of H ₂ , C ₂ H ₂ , C ₂ , and C ₂ H ₂ Bonds by Pd(0). Insight from the Activation Strain Model. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 8460-8466	2.8	111
340	Adenine versus guanine quartets in aqueous solution: dispersion-corrected DFT study on the differences in π -stacking and hydrogen-bonding behavior. <i>Theoretical Chemistry Accounts</i> , 2010 , 125, 245-252	1.9	110
339	Normal-to-abnormal rearrangement and NHC activation in three-coordinate iron(II) carbene complexes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13338-41	16.4	107
338	Contiguous metal-mediated base pairs comprising two Ag(I) ions. <i>Chemistry - A European Journal</i> , 2011 , 17, 6533-44	4.8	104
337	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
336	Charge Transfer and Environment Effects Responsible for Characteristics of DNA Base Pairing. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2942-2945	16.4	103
335	Catalytic Carbon-Halogen Bond Activation: Trends in Reactivity, Selectivity, and Solvation. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 514-29	6.4	99
334	Nature of the Three-Electron Bond in H ₂ S \cdots SH ₂ ⁺ . <i>Journal of Physical Chemistry A</i> , 1998 , 102, 9549-9553	2.8	96
333	Optimization of strong and weak coordinates. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 2536-2544	2.1	92
332	Understanding chemical reactivity using the activation strain model. <i>Nature Protocols</i> , 2020 , 15, 649-667	18.8	91
331	Why do cycloaddition reactions involving C ₆₀ prefer [6,6] over [5,6] bonds?. <i>Chemistry - A European Journal</i> , 2013 , 19, 7416-22	4.8	88
330	Oxidative Insertion as Frontside S _N 2 Substitution: A Theoretical Study of the Model Reaction System Pd + CH ₃ Cl. <i>Organometallics</i> , 1995 , 14, 2288-2296	3.8	88

329	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
328	DFT benchmark study for the oxidative addition of CH ₄ to Pd. Performance of various density functionals. <i>Chemical Physics</i> , 2005 , 313, 261-270	2.3	87
327	Mapping the sites for selective oxidation of guanines in DNA. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13658-9	16.4	86
326	Nucleophilic Substitution (S _N 2): Dependence on Nucleophile, Leaving Group, Central Atom, Substituents, and Solvent. <i>ChemPhysChem</i> , 2018 , 19, 1315-1330	3.2	85
325	Alder-ene reaction: aromaticity and activation-strain analysis. <i>Journal of Computational Chemistry</i> , 2012 , 33, 509-16	3.5	83
324	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
323	Hypervalent silicon versus carbon: ball-in-a-box model. <i>Chemistry - A European Journal</i> , 2008 , 14, 819-28	4.8	82
322	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
321	Theoretical investigation on base-induced 1,2-eliminations in the model system fluoride ion + fluoroethane. The role of the base as a catalyst. <i>Journal of the American Chemical Society</i> , 1993 , 115, 9160-9173	16.4	81
320	Aromaticity and activation strain analysis of [3 + 2] cycloaddition reactions between group 14 heteroallenes and triple bonds. <i>Journal of Organic Chemistry</i> , 2011 , 76, 2310-4	4.2	80
319	Oxidative Addition of the Chloromethane C-Cl Bond to Pd, an ab Initio Benchmark and DFT Validation Study. <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 322-35	6.4	77
318	E2 and S _N 2 Reactions of X(-) + CH ₃ CH ₂ X (X = F, Cl); an ab Initio and DFT Benchmark Study. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 929-40	6.4	76
317	Double group transfer reactions: role of activation strain and aromaticity in reaction barriers. <i>Chemistry - A European Journal</i> , 2009 , 15, 13022-32	4.8	72
316	Type-I dyotropic reactions: understanding trends in barriers. <i>Chemistry - A European Journal</i> , 2012 , 18, 12395-403	4.8	71
315	Catalyst selection based on intermediate stability measured by mass spectrometry. <i>Nature Chemistry</i> , 2010 , 2, 417-21	17.6	70
314	Aromaticity: molecular-orbital picture of an intuitive concept. <i>Chemistry - A European Journal</i> , 2007 , 13, 6321-8	4.8	70
313	Theoretical study of structure, pK _a , 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
312	Orbital Interactions in Strong and Weak Hydrogen Bonds are Essential for DNA Replication. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2092	16.4	70

311	The Effect of Microsolvation on E2 and SN2 Reactions: Theoretical Study of the Model System $\text{F}^- + \text{C}_2\text{H}_5\text{F} + n\text{HF}$. <i>Chemistry - A European Journal</i> , 1996 , 2, 196-207	4.8	70
310	Cyclotrimerization Reactions Catalyzed by Rhodium(I) Half-Sandwich Complexes: A Mechanistic Density Functional Study. <i>Organometallics</i> , 2007 , 26, 3816-3830	3.8	68
309	para-Selective C-H Olefination of Aniline Derivatives via Pd/S,O-Ligand Catalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6719-6725	16.4	67
308	Origin of the "endo rule" in Diels-Alder reactions. <i>Journal of Computational Chemistry</i> , 2014 , 35, 371-6	3.5	66
307	Ab initio benchmark study for the oxidative addition of CH_4 to Pd: importance of basis-set flexibility and polarization. <i>Journal of Chemical Physics</i> , 2004 , 121, 9982-92	3.9	66
306	A ditopic ion-pair receptor based on stacked nucleobase quartets. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3285-7	16.4	64
305	The Case for Steric Repulsion Causing the Staggered Conformation of Ethane. <i>Angewandte Chemie</i> , 2003 , 115, 4315-4320	3.6	63
304	Oxidative addition of the ethane C-C bond to Pd. An ab initio benchmark and DFT validation study. <i>Journal of Computational Chemistry</i> , 2005 , 26, 1006-20	3.5	63
303	CH_3 is Planar Due to H-H Steric Repulsion. Theoretical Study of MH_3 and MH_3Cl (M = C, Si, Ge, Sn). <i>Organometallics</i> , 1996 , 15, 1477-1487	3.8	62
302	The donor-stabilized silylene bis[N,N'-diisopropylbenzamidinato(-)]silicon(II): synthesis, electronic structure, and reactivity. <i>Chemistry - A European Journal</i> , 2014 , 20, 9319-29	4.8	59
301	Controlling the oxidative addition of aryl halides to Au(I). <i>Journal of Computational Chemistry</i> , 2014 , 35, 2140-5	3.5	58
300	Might BF and BNR2 be alternatives to CO? A theoretical quest for new ligands in organometallic chemistry. <i>New Journal of Chemistry</i> , 1998 , 22, 1-3	3.6	58
299	Chemical basis for the recognition of trimethyllysine by epigenetic reader proteins. <i>Nature Communications</i> , 2015 , 6, 8911	17.4	57
298	Nucleophilic Substitution at C, Si and P: How Solvation Affects the Shape of Reaction Profiles. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 649-654	3.2	57
297	Oxidative addition of the fluoromethane C-F bond to Pd. An ab initio benchmark and DFT validation study. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 9685-99	2.8	57
296	Silver(I)-mediated Hoogsteen-type base pairs. <i>Journal of Inorganic Biochemistry</i> , 2011 , 105, 1398-404	4.2	56
295	Nucleophilic substitution at phosphorus centers ($\text{S}_\text{N}2@p$). <i>ChemPhysChem</i> , 2007 , 8, 2452-63	3.2	55
294	How Dihalogens Catalyze Michael Addition Reactions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8922-8926	16.4	54

293	How Lewis Acids Catalyze Diels-Alder Reactions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6201-6206	16.4	54
292	The steric nature of the bite angle. <i>Chemistry - A European Journal</i> , 2009 , 15, 6112-5	4.8	54
291	Frontside versus Backside S(N)2 substitution at group 14 atoms: origin of reaction barriers and reasons for their absence. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 1783-92	4.5	52
290	B-DNA structure and stability: the role of hydrogen bonding, π -stacking interactions, twist-angle, and solvation. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 4691-700	3.9	51
289	Bonding of Imidazol-2-ylidene Ligands in Nickel Complexes. <i>Organometallics</i> , 2008 , 27, 3410-3414	3.8	51
288	Role of Steric Attraction and Bite-Angle Flexibility in Metal-Mediated C-H Bond Activation. <i>ACS Catalysis</i> , 2015 , 5, 5766-5775	13.1	50
287	Nonlinear d(10)-ML2 Transition-Metal Complexes. <i>ChemistryOpen</i> , 2013 , 2, 106-14	2.3	50
286	Ene-ene-yne reactions: activation strain analysis and the role of aromaticity. <i>Chemistry - A European Journal</i> , 2014 , 20, 10791-801	4.8	49
285	Orbital Interactions in Hydrogen Bonds Important for Cohesion in Molecular Crystals and Mismatched Pairs of DNA Bases. <i>Crystal Growth and Design</i> , 2002 , 2, 239-245	3.5	49
284	Role of Orbital Interactions and Activation Strain (Distortion Energies) on Reactivities in the Normal and Inverse Electron-Demand Cycloadditions of Strained and Unstrained Cycloalkenes. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8668-8675	4.2	48
283	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
282	Theoretical investigation of the relative stabilities of XSSX and X2SS isomers (X = F, Cl, H, and CH3). <i>Journal of Computational Chemistry</i> , 1995 , 16, 465-477	3.5	48
281	Selectivity in DNA replication. Interplay of steric shape, hydrogen bonds, π -stacking and solvent effects. <i>Chemical Communications</i> , 2011 , 47, 7326-8	5.8	47
280	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
279	Supramolecular switches based on the guanine-cytosine (GC) Watson-Crick pair: effect of neutral and ionic substituents. <i>Chemistry - A European Journal</i> , 2006 , 12, 3032-42	4.8	45
278	Steric nature of the bite angle. A closer and a broader look. <i>Dalton Transactions</i> , 2011 , 40, 3028-38	4.3	44
277	Hypervalent carbon atom: "freezing" the S(N)2 transition state. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6469-71	16.4	44
276	Covalency in Highly Polar Bonds. Structure and Bonding of Methylalkalimetal Oligomers (CH3M)n (M = Li-Rb; n = 1, 4). <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 965-80	6.4	43

275	The short N [bond] F bond in N(2)F(+) and how Pauli repulsion influences bond lengths. Theoretical study of N(2)X(+), NF(3)X(+), and NH(3)X(+) (X [double bond] F, H). <i>Journal of the American Chemical Society</i> , 2002 , 124, 1500-5	16.4	43
274	Unusual reactivity of small cyclophanes: nucleophilic attack on 11-chloro- and 8,11-dichloro[5]metacyclophane. <i>Journal of the American Chemical Society</i> , 1990 , 112, 6638-6646	16.4	43
273	Understanding the reactivity of endohedral metallofullerenes: C78 versus Sc3N@C78. <i>Chemistry - A European Journal</i> , 2015 , 21, 5760-8	4.8	42
272	Reactivity of the Donor-Stabilized Silylenes [iPrNC(Ph)NiPr]2 Si and [iPrNC(NiPr2)NiPr]2 Si: Activation of CO2 and CS2. <i>Chemistry - A European Journal</i> , 2015 , 21, 16665-72	4.8	42
271	Double CH Activation of a Masked Cationic Bismuth Amide. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3825-3829	16.4	41
270	On the origin of the steric effect. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9846-54	3.6	41
269	Stepwise walden inversion in nucleophilic substitution at phosphorus. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 259-67	3.6	41
268	Intercalation of daunomycin into stacked DNA base pairs. DFT study of an anticancer drug. <i>Journal of Biomolecular Structure and Dynamics</i> , 2008 , 26, 115-30	3.6	41
267	PyFrag--Streamlining your reaction path analysis. <i>Journal of Computational Chemistry</i> , 2008 , 29, 312-5	3.5	41
266	Hydrogen bonding in mimics of Watson-Crick base pairs involving C-H proton donor and F proton acceptor groups: a theoretical study. <i>ChemPhysChem</i> , 2004 , 5, 481-7	3.2	41
265	Ladungstransfer und molekulare Umgebung sind verantwortlich für Eigenschaften von Wasserstoffbrücken in DNA-Basenpaaren. <i>Angewandte Chemie</i> , 1999 , 111, 3120-3122	3.6	40
264	Deeper Insight into the Diels-Alder Reaction through the Activation Strain Model. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3297-3304	4.5	39
263	Alpha-stabilization of carbanions: fluorine is more effective than the heavier halogens. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 823-6	16.4	39
262	Oxidative addition to main group versus transition metals: Insights from the Activation Strain model. <i>Journal of Organometallic Chemistry</i> , 2006 , 691, 4341-4349	2.3	39
261	Activation-strain analysis reveals unexpected origin of fast reactivity in heteroaromatic azadiene inverse-electron-demand diels-alder cycloadditions. <i>Journal of Organic Chemistry</i> , 2015 , 80, 548-58	4.2	38
260	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
259	Theoretical and experimental study of charge transfer through DNA: impact of mercury mediated T-Hg-T base pair. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 5374-81	3.4	37
258	Bonding of xenon hydrides. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 9700-6	2.8	37

257	Oxidative Addition versus Dehydrogenation of Methane, Silane, and Heavier AH ₄ Congeners Reacting with Palladium. <i>Organometallics</i> , 2006 , 25, 4260-4268	3.8	37
256	Carbon monoxide insertion at a heavy p-block element: unprecedented formation of a cationic bismuth carbamoyl. <i>Chemical Science</i> , 2019 , 10, 4169-4176	9.4	36
255	Stereodivergent SN ₂ @P reactions of borane oxazaphospholidines: experimental and theoretical studies. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4483-91	16.4	36
254	Hypervalent versus nonhypervalent carbon in noble-gas complexes. <i>Chemistry - A European Journal</i> , 2008 , 14, 6901-11	4.8	36
253	Structure and bonding of transition metal-boryl compounds. Theoretical study of [(PH ₃) ₂ (CO)CLOs-BR ₂] and [(PH ₃) ₂ (CO)2CLOs-BR ₂] (BR ₂ = BH ₂ , BF ₂ , B(OH) ₂ , B(OCH=CHO), Bcat). <i>Inorganic Chemistry</i> , 2000 , 39, 4776-85	5.1	36
252	Role of the Chalcogen (S, Se, Te) in the Oxidation Mechanism of the Glutathione Peroxidase Active Site. <i>ChemPhysChem</i> , 2017 , 18, 2990-2998	3.2	35
251	Radon hydrides: structure and bonding. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2222-7	3.6	35
250	Aromaticity and antiaromaticity in 4-, 6-, 8-, and 10-membered conjugated hydrocarbon rings. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 12816-22	2.8	35
249	Structural Distortion of Cycloalkynes Influences Cycloaddition Rates both by Strain and Interaction Energies. <i>Chemistry - A European Journal</i> , 2019 , 25, 6342-6348	4.8	34
248	Neutral six-coordinate and cationic five-coordinate silicon(IV) complexes with two bidentate monoanionic N,S-pyridine-2-thiolato(-) ligands. <i>Inorganic Chemistry</i> , 2013 , 52, 10664-76	5.1	34
247	Reaction Coordinates and the Transition-Vector Approximation to the IRC. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 920-8	6.4	34
246	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
245	Orbital interactions and charge redistribution in weak hydrogen bonds: The Watson-Crick AT mimic adenine-2,4-difluorotoluene. <i>Journal of Chemical Physics</i> , 2003 , 119, 4262-4273	3.9	34
244	Nucleophilic Substitution in Solution: Activation Strain Analysis of Weak and Strong Solvent Effects. <i>Chemistry - A European Journal</i> , 2018 , 24, 5927-5938	4.8	33
243	Origin of Reactivity Trends of Noble Gas Endohedral Fullerenes Ng ₂ @C ₆₀ (Ng = He to Xe). <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3863-70	6.4	32
242	Inter- and intramolecular dispersion interactions. <i>Journal of Computational Chemistry</i> , 2011 , 32, 1117-27	3.5	32
241	Fragment-oriented design of catalysts based on the activation strain model. <i>Molecular Physics</i> , 2005 , 103, 995-998	1.7	32
240	Bonding in methylalkalimetals (CH ₃)M(n) (M = Li, Na, K; n = 1, 4). Agreement and divergences between AIM and ELF analyses. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7189-98	3.4	32

- 239 Origins of the Endo and Exo Selectivities in Cyclopropanone, Iminocyclopropene, and Triafulvene Diels-Alder Cycloadditions. *Journal of Organic Chemistry*, **2018**, 83, 3164-3170 4.2 31
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