

Leo Radom

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.

462
papers

32,778
citations

78
h-index

164
g-index

492
ext. papers

34,442
ext. citations

8
avg. IF

7.22
L-index

#	Paper	IF	Citations
462	Glossary of terms used in physical organic chemistry (IUPAC Recommendations 2021). <i>Pure and Applied Chemistry</i> , 2022 , 94, 353-534	2.1	4
461	Carnosine and Carninine Derivatives Rapidly React with Hypochlorous Acid to Form Chloramines and Dichloramines. <i>Chemical Research in Toxicology</i> , 2019 , 32, 513-525	4	6
460	An ONIOM investigation of the effect of conformation on bond dissociation energies in peptides. <i>Journal of Computational Chemistry</i> , 2019 , 40, 82-88	3.5	4
459	Effect of Hydrogen Bonding and Partial Deprotonation on the Oxidation of Peptides. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 1741-1746	2.8	13
458	David Parker Craig AO FAA. 23 December 1919– July 2015. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2018 , 64, 107-129	0.1	1
457	Modelling the Effect of Conformation on Hydrogen-Atom Abstraction from Peptides. <i>Australian Journal of Chemistry</i> , 2018 , 71, 257	1.2	4
456	Computational Tale of Two Enzymes: Glycerol Dehydration With or Without B. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8487-8496	16.4	16
455	Solvation of the Glycyl Radical. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 7212-7217	2.8	1
454	Accelerated Protein Synthesis via One-Pot Ligation-Deselenization Chemistry. <i>CheM</i> , 2017 , 2, 703-715	16.2	45
453	Impact of Hydrogen Bonding on the Susceptibility of Peptides to Oxidation. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 1485-1489	4.5	6
452	Watson-Crick Base Pair Radical Cation as a Model for Oxidative Damage in DNA. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3159-3165	6.4	15
451	Hydrogen-adduction to open-shell graphene fragments: spectroscopy, thermochemistry and astrochemistry. <i>Chemical Science</i> , 2017 , 8, 1186-1194	9.4	4
450	Restricted-Open-Shell G4(MP2)-Type Procedures. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 9299-9304	2.8	11
449	On the inclusion of post-MP2 contributions to double-hybrid density functionals. <i>Journal of Computational Chemistry</i> , 2016 , 37, 183-93	3.5	25
448	Preparation of an ion with the highest calculated proton affinity: -diethynylbenzene dianion. <i>Chemical Science</i> , 2016 , 7, 6245-6250	9.4	14
447	Beyond the Halogen Bond: Examining the Limits of Extended Polybromide Networks through Quantum-Chemical Investigations. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 682-6	4.5	8
446	Factors influencing the formation of polybromide monoanions in solutions of ionic liquid bromide salts. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7251-60	3.6	32

445	Hydrogen-atom attack on phenol and toluene is ortho-directed. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8625-36	3.6	8
444	Hydrogen Abstraction by OH and BH Radicals from Amino Acids and Their Peptide Derivatives. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 1606-13	6.4	14
443	Reactivity of disulfide bonds is markedly affected by structure and environment: implications for protein modification and stability. <i>Scientific Reports</i> , 2016 , 6, 38572	4.9	68
442	Seventh Asia-Pacific Conference of Theoretical and Computational Chemistry (APCTCC7). <i>Australian Journal of Chemistry</i> , 2016 , 69, 931	1.2	0
441	Role of Hydrogen Bonding on the Reactivity of Thiyl Radicals: A Mass Spectrometric and Computational Study Using the Distonic Radical Ion Approach. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 8184-8189	2.8	9
440	Frequency Scale Factors for Some Double-Hybrid Density Functional Theory Procedures: Accurate Thermochemical Components for High-Level Composite Protocols. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 3774-80	6.4	31
439	Hydrogen from Formic Acid via Its Selective Disproportionation over Nanodomain-Modified Zeolites. <i>ACS Catalysis</i> , 2015 , 5, 4353-4362	13.1	14
438	Gas-phase structure and reactivity of the keto tautomer of the deoxyguanosine radical cation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 25837-44	3.6	12
437	H and D attachment to naphthalene: spectra and thermochemistry of cold gas-phase 1-C10H9 and 1-C10H8D radicals and cations. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 3225-32	2.8	6
436	Outcome-changing effect of polarity reversal in hydrogen-atom-abstraction reactions. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 3843-7	2.8	16
435	W2X and W3X-L: Cost-Effective Approximations to W2 and W4 with kJ mol ⁻¹ Accuracy. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2109-19	6.4	80
434	Rapid additive-free selenocystine-selenoester peptide ligation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14011-4	16.4	131
433	Hydrogen-atom abstraction from a model amino acid: dependence on the attacking radical. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 783-8	3.4	29
432	Accurate quadruple- ζ -basis-set approximation for double-hybrid density functional theory with an order of magnitude reduction in computational cost. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	18
431	Effect of protonation state and interposed connector groups on bond dissociation enthalpies of alcohols and related systems. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 2810-9	2.8	26
430	Performance of Density Functional Theory Procedures for the Calculation of Proton-Exchange Barriers: Unusual Behavior of M06-Type Functionals. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3777-83	6.4	37
429	Hydrogen from formic acid through its selective disproportionation over sodium germanate—a non-transition-metal catalysis system. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11275-9	16.4	9
428	Hydrogen from Formic Acid through Its Selective Disproportionation over Sodium Germanate—A Non-Transition-Metal Catalysis System. <i>Angewandte Chemie</i> , 2014 , 126, 11457-11461	3.6	2

427	W3X: A Cost-Effective Post-CCSD(T) Composite Procedure. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 4769-78	6.4	47
426	Evaluation of the heats of formation of corannulene and C60 by means of high-level theoretical procedures. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 1834-42	2.8	42
425	Gas-phase infrared spectrum and acidity of the radical cation of 9-methylguanine. <i>Chemical Communications</i> , 2013 , 49, 7343-5	5.8	25
424	Accurate quantum chemical energies for tetrapeptide conformations: why MP2 data with an insufficient basis set should be handled with caution. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7028-31	3.6	57
423	Hierarchy of relative bond dissociation enthalpies and their use to efficiently compute accurate absolute bond dissociation enthalpies for C-H, C-C, and C-F bonds. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 3666-75	2.8	26
422	Effect of substituents on the preferred modes of one-electron reductive cleavage of N-Cl and N-Br bonds. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 460-72	2.8	20
421	Chemoselective Peptide Ligation-Desulfurization at Aspartate. <i>Angewandte Chemie</i> , 2013 , 125, 9905-9909	9.6	19
420	Chemoselective peptide ligation-desulfurization at aspartate. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9723-7	16.4	98
419	Proton-bound homodimers involving second-row atoms. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	3
418	Performance of Gradient-Corrected and Hybrid Density Functional Theory: Role of the Underlying Local Density Approximation and the Gradient Correction. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 4899-906	6.4	12
417	Heteroatomic deprotonation of substituted methanes and methyl radicals: theoretical insights into structure, stability, and thermochemistry. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 12381-7	2.8	19
416	Reactivities of amino acid derivatives toward hydrogen abstraction by Cl and OH. <i>Journal of Organic Chemistry</i> , 2012 , 77, 9807-12	4.2	39
415	The elusive 5'-deoxyadenosyl radical in coenzyme-B12-mediated reactions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1591-9	16.4	48
414	Computational design of effective, bioinspired HOCl antioxidants: the role of intramolecular Cl ⁺ and H ⁺ shifts. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19240-5	16.4	15
413	W1X-1 and W1X-2: W1-Quality Accuracy with an Order of Magnitude Reduction in Computational Cost. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 4259-69	6.4	59
412	Influence of connector groups on the interactions of substituents with carbon-centered radicals. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 10203-8	2.8	8
411	Assessment of theoretical procedures for calculating barrier heights for a diverse set of water-catalyzed proton-transfer reactions. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 4211-21	2.8	65
410	BDE261: a comprehensive set of high-level theoretical bond dissociation enthalpies. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 4975-86	2.8	58

409	Heats of Formation for CrO, CrO ₂ , and CrO ₃ : An Extreme Challenge for Black-Box Composite Procedures. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3159-66	6.4	22
408	Determination of Barrier Heights for Proton Exchange in Small Water, Ammonia, and Hydrogen Fluoride Clusters with G4(MP2)-Type, MPn, and SCS-MPn Procedures-A Caveat. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3128-36	6.4	50
407	Approaches for obtaining accurate rate constants for hydrogen abstraction by a chlorine atom. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3745-52	2.8	24
406	Comment on the ionization energy of B ₂ F ₄ . <i>Journal of Physical Chemistry A</i> , 2012 , 116, 9214-5	2.8	3
405	N [•] H and N [•] Cl homolytic bond dissociation energies and radical stabilization energies: An assessment of theoretical procedures through comparison with benchmark-quality W2w data. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 1862-1878	2.1	37
404	Proton-bound homodimers involving second-row atoms. <i>Highlights in Theoretical Chemistry</i> , 2012 , 15-22		
403	Hydrogen abstraction by chlorine atom from amino acids: remarkable influence of polar effects on regioselectivity. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16553-9	16.4	43
402	Obtaining Good Performance With Triple- ζ -Type Basis Sets in Double-Hybrid Density Functional Theory Procedures. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 2852-63	6.4	52
401	Model for the exceptional reactivity of peroxiredoxins 2 and 3 with hydrogen peroxide: a kinetic and computational study. <i>Journal of Biological Chemistry</i> , 2011 , 286, 18048-55	5.4	92
400	Effect of substituents on the stabilities of multiply-substituted carbon-centered radicals. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 3636-57	3.9	55
399	One-electron reduction of N-chlorinated and N-brominated species is a source of radicals and bromine atom formation. <i>Chemical Research in Toxicology</i> , 2011 , 24, 371-82	4	26
398	Effect of substituents on the strength of N-X (X = H, F, and Cl) bond dissociation energies: a high-level quantum chemical study. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 5496-504	2.8	26
397	Assessment of theoretical procedures for hydrogen-atom abstraction by chlorine, and related reactions. <i>Theoretical Chemistry Accounts</i> , 2011 , 130, 251-260	1.9	34
396	The spectroscopy and thermochemistry of phenylallyl radical chromophores. <i>Chemical Science</i> , 2011 , 2, 1755	9.4	25
395	G4(MP2)-6X: A Cost-Effective Improvement to G4(MP2). <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 112-20	6.4	119
394	O - H Bond Dissociation Energies. <i>Australian Journal of Chemistry</i> , 2011 , 64, 394	1.2	18
393	Spectroscopy and thermochemistry of a jet-cooled open-shell polyene: 1,4-pentadienyl radical. <i>Journal of Chemical Physics</i> , 2011 , 135, 124306	3.9	11
392	Modeling the reactions catalyzed by coenzyme B ₁₂ -dependent enzymes. <i>Accounts of Chemical Research</i> , 2010 , 43, 642-51	24.3	46

391	G4-SP, G4(MP2)-SP, G4-sc, and G4(MP2)-sc: Modifications to G4 and G4(MP2) for the Treatment of Medium-Sized Radicals. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 2647-53	6.4	34
390	A computational study of methanol-to-hydrocarbon conversion \square towards the design of a low-barrier process. <i>Canadian Journal of Chemistry</i> , 2010 , 88, 866-876	0.9	15
389	Gas-Phase Synthesis and Reactivity of Lithium Acetylide Ion, Li \square C \square C \square . <i>Angewandte Chemie</i> , 2010 , 122, 5287-5290	3.6	1
388	Gas-phase synthesis and reactivity of lithium acetylide ion, Li-C[triple bond]C-. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5161-4	16.4	8
387	On the reaction of glycerol dehydratase with but-3-ene-1,2-diol. <i>Chemistry - A European Journal</i> , 2009 , 15, 4865-73	4.8	7
386	On the importance of ribose orientation in the substrate activation of the coenzyme B12-dependent mutases. <i>Chemistry - A European Journal</i> , 2009 , 15, 8578-85	4.8	18
385	Low barrier hydrogenolysis of the carbon-heteroatom bond as catalyzed by HALF(4). <i>Organic Letters</i> , 2009 , 11, 749-51	6.2	17
384	What factors determine whether a proton-bound homodimer has a symmetric or an asymmetric hydrogen bond?. <i>Molecular Physics</i> , 2009 , 107, 1095-1105	1.7	22
383	Hydrogen abstraction by chlorine atom from small organic molecules containing amino acid functionalities: an assessment of theoretical procedures. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 11817-32	2.8	15
382	Structures and thermochemistry of the alkali metal monoxide anions, monoxide radicals, and hydroxides. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 9501-10	2.8	12
381	Ab initio investigation of the fragmentation of 5,5-diamino-substituted 1,4,2-oxathiazoles. <i>Organic Letters</i> , 2009 , 11, 1325-8	6.2	10
380	Optimization and basis-set dependence of a restricted-open-shell form of B2-PLYP double-hybrid density functional theory. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 9861-73	2.8	70
379	Consequences of spin contamination in unrestricted calculations on open-shell species: effect of Hartree-Fock and Moller-Plesset contributions in hybrid and double-hybrid density functional theory approaches. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 13225-30	2.8	112
378	The carbon-skeleton rearrangement in tropane alkaloid biosynthesis. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10684-90	16.4	18
377	Nature of Glycine and Its \square Carbon Radical in Aqueous Solution: A Theoretical Investigation. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 1788-94	6.4	23
376	Zeolite-catalyzed hydrogenation of carbon dioxide and ethene. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9790-9	16.4	63
375	Lithium monoxide anion: a ground-state triplet with the strongest base to date. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7647-51	11.5	34
374	Toward an improved understanding of the glutamate mutase system. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1623-33	16.4	19

373	Proton-bound homodimers: how are the binding energies related to proton affinities?. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12197-9	16.4	38
372	Uncatalyzed transfer hydrogenation of quinones and related systems: a theoretical mechanistic study. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 6456-67	2.8	16
371	An evaluation of harmonic vibrational frequency scale factors. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 11683-700	2.8	1987
370	Uncatalyzed 1,4-hydrogenation of polycyclic aromatic hydrocarbons: A computational study. <i>Computational and Theoretical Chemistry</i> , 2007 , 811, 13-17		10
369	A Theoretical Approach to Substituent Interactions in Substituted Benzenes. <i>Progress in Physical Organic Chemistry</i> , 2007 , 1-61		37
368	Bond dissociation energies and radical stabilization energies: an assessment of contemporary theoretical procedures. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 13638-44	2.8	91
367	Hydrogenation of simple aromatic molecules: a computational study of the mechanism. <i>Journal of the American Chemical Society</i> , 2007 , 129, 924-33	16.4	40
366	An experimental and theoretical investigation of gas-phase reactions of Ca ²⁺ with glycine. <i>Chemistry - A European Journal</i> , 2006 , 12, 6787-96	4.8	55
365	Rearrangements in Model Peptide-Type Radicals via Intramolecular Hydrogen-Atom Transfer. <i>Helvetica Chimica Acta</i> , 2006 , 89, 2254-2272	2	35
364	A restricted-open-shell complete-basis-set model chemistry. <i>Journal of Chemical Physics</i> , 2006 , 125, 094106	2.8	173
363	Thermochemistry and kinetics of hydrogen abstraction by methyl radical from polycyclic aromatic hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 13624-31	2.8	39
362	Metal-mediated formation of gas-phase amino acid radical cations. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 8304-15	2.8	62
361	Gas-phase regiocontrolled generation of charged amino acid and peptide radicals. <i>Chemical Communications</i> , 2006 , 4233-5	5.8	51
360	Effect of side chains on competing pathways for beta-scission reactions of peptide-backbone alkoxy radicals. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 10316-23	2.8	17
359	Design of effective zeolite catalysts for the complete hydrogenation of CO ₂ . <i>Journal of the American Chemical Society</i> , 2006 , 128, 5322-3	16.4	57
358	In search of radical intermediates in the reactions catalyzed by lysine 2,3-aminomutase and lysine 5,6-aminomutase. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16004-5	16.4	20
357	Insights into the hydrogen-abstraction reactions of diol dehydratase: relevance to the catalytic mechanism and suicide inactivation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3433-44	16.4	25
356	An assessment of theoretical procedures for predicting the thermochemistry and kinetics of hydrogen abstraction by methyl radical from benzene. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 8942-51	2.8	67

355	Base-catalyzed hydrogenation: rationalizing the effects of catalyst and substrate structures and solvation. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2443-54	16.4	43
354	On the relationship between the preferred site of hydrogen bonding and protonation. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 5509-17	2.8	50
353	Structures and thermochemistry of calcium-containing molecules. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 9156-68	2.8	15
352	Trends in R-X bond dissociation energies (R = Me, Et, i-Pr, t-Bu; X = H, CH ₃ , OCH ₃ , OH, F): a surprising shortcoming of density functional theory. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 7558-66	2.8	203
351	Why are the Ca ²⁺ and K ⁺ binding energies of formaldehyde and ammonia reversed with respect to their proton affinities?. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 6735-42	2.8	14
350	Bond dissociation energies and radical stabilization energies associated with model peptide-backbone radicals. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 6318-25	2.8	67
349	Modeling Fission Reactions of Peptide Backbone Alkoxy Radicals: Backbone C-C Bond Fission. <i>Journal of Chemical Theory and Computation</i> , 2005 , 1, 889-99	6.4	6
348	Divergent mechanisms of suicide inactivation for ethanolamine ammonia-lyase. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8856-64	16.4	24
347	Understanding Metal-Free Catalytic Hydrogenation: A Systematic Theoretical Study of the Hydrogenation of Ethene. <i>Australian Journal of Chemistry</i> , 2004 , 57, 659	1.2	16
346	Reliable Theoretical Procedures for Calculating the Rate of Methyl Radical Addition to Carbon-Carbon Double and Triple Bonds. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2874-2883	2.8	115
345	Comparison of the kinetics and thermodynamics for methyl radical addition to C=C, C=O, and C=S double bonds. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1732-40	16.4	63
344	Gas-Phase Reactions between Urea and Ca ²⁺ : The Importance of Coulomb Explosions. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 10080-10088	2.8	45
343	Remembrance: John A. Pople (1925-2004). <i>Journal of Chemical Physics</i> , 2004 , 120, 9445-9445	3.9	2
342	Substituent Effects in Xanthate-Mediated Polymerization of Vinyl Acetate: Ab Initio Evidence for an Alternative Fragmentation Pathway. <i>Macromolecules</i> , 2004 , 37, 590-596	5.5	114
341	Suicide inactivation of dioldehydratase by glycolaldehyde and chloroacetaldehyde: an examination of the reaction mechanism. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12206-7	16.4	15
340	Inhibition of peptidylglycine alpha-amidating monooxygenase by exploitation of factors affecting the stability and ease of formation of glycol radicals. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13306-11	16.4	16
339	Understanding Alkyl Substituent Effects in R-O Bond Dissociation Reactions in Open- and Closed-Shell Systems 2004 , 563-579		7
338	The unusual bifunctional catalysis of epimerization and desaturation by carbapenem synthase. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9932-3	16.4	24

337	Alkoxy radicals in the gaseous phase: Scission reactions and formation by radical addition to carbonyl compounds. <i>Canadian Journal of Chemistry</i> , 2003 , 81, 431-442	0.9	55
336	What Is the Origin of the Contrathermodynamic Behavior in Methyl Radical Addition to Alkynes versus Alkenes?. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 6082-6090	2.8	38
335	Strategic use of amino acid N-substituents to limit carbon-centered radical formation and consequent loss of stereochemical integrity. <i>Tetrahedron: Asymmetry</i> , 2003 , 14, 2919-2926		20
334	The reversible addition-fragmentation chain transfer process and the strength and limitations of modeling: Comment on the magnitude of the fragmentation rate coefficient. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 2828-2832	2.5	139
333	Homoanomeric Effect in the 1,2-Dimethoxyethyl Radical. <i>Australian Journal of Chemistry</i> , 2003 , 56, 429	1.2	4
332	Performance of the RB3-LYP, RMP2, and UCCSD(T) Procedures in Calculating Radical Stabilization Energies for NHX Radicals. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 7985-7990	2.8	32
331	Heats of Formation of Alkali Metal and Alkaline Earth Metal Oxides and Hydroxides: Surprisingly Demanding Targets for High-Level Ab Initio Procedures. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 5617-5630	2.8	70
330	Design of radical-resistant amino acid residues: a combined theoretical and experimental investigation. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4119-24	16.4	82
329	Variable trends in R-X bond dissociation energies (R = Me, Et, i-Pr, t-Bu). <i>Organic Letters</i> , 2003 , 5, 4689-92	2.2	70
328	Interactions between Neutral Molecules and Ca ²⁺ : An Assessment of Theoretical Procedures. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 10456-10461	2.8	41
327	G3-RAD and G3X-RAD: Modified Gaussian-3 (G3) and Gaussian-3X (G3X) procedures for radical thermochemistry. <i>Journal of Chemical Physics</i> , 2003 , 118, 4849-4860	3.9	264
326	Ab initio evidence for slow fragmentation in RAFT polymerization. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1490-1	16.4	142
325	Calculation of accurate imaginary frequencies and tunnelling coefficients for hydrogen abstraction reactions using IRCmax. <i>Molecular Physics</i> , 2003 , 101, 1329-1338	1.7	35
324	Proton-transport catalysis, proton abstraction, and proton exchange in HF+HOC ⁺ and H ₂ O+HOC ⁺ and analogous deuterated reactions. <i>Journal of Chemical Physics</i> , 2003 , 118, 6222-6229	3.9	22
323	Factors controlling the addition of carbon-centered radicals to alkenes. <i>Macromolecular Symposia</i> , 2002 , 182, 1-14	0.8	20
322	Understanding the mechanism of action of B12-dependent ethanolamine ammonia-lyase: synergistic interactions at play. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14054-65	16.4	50
321	Methyl Radical Addition to CS Double Bonds: Kinetic versus Thermodynamic Preferences. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 12124-12138	2.8	76
320	An Assessment of the Performance of High-Level Theoretical Procedures in the Computation of the Heats of Formation of Small Open-Shell Molecules. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 7927-7936	2.8	102

319	Substituent effects in isoxazoles: identification of 4-substituted isoxazoles as Michael acceptors. <i>Perkin Transactions II RSC</i> , 2002 , 2031-2038		9
318	Theoretical studies of coenzyme B12-dependent carbon-skeleton rearrangements. <i>Theoretical and Computational Chemistry</i> , 2001 , 183-214		1
317	Catalysis by mutants of methylmalonyl-CoA mutase: a theoretical rationalization for a change in the rate-determining step. <i>ChemBioChem</i> , 2001 , 2, 919-22	3.8	14
316	Was steuert die Additionen kohlenstoffzentrierter Radikale an Alkene? [Antworten auf experimenteller und theoretischer Grundlage. <i>Angewandte Chemie</i> , 2001 , 113, 1380-1414	3.6	63
315	A G2 study of SH+ exchange reactions involving lone-pair donors and unsaturated hydrocarbons. <i>Chemistry - A European Journal</i> , 2001 , 7, 1516-24	4.8	13
314	Factors Controlling the Addition of Carbon-Centered Radicals to Alkenes-An Experimental and Theoretical Perspective. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1340-1371	16.4	565
313	Towards multireference equivalents of the G2 and G3 methods. <i>Journal of Chemical Physics</i> , 2001 , 115, 8758-8772	3.9	19
312	C _{sp} H ₂ X Hydrogen Bonds of Acetylene, Ethylene, and Ethane with First- and Second-Row Hydrides. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 4470-4479	2.8	128
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