

Steen Hammerum

List of Publications by Year in descending order

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49
papers

1,060
citations

567281

15
h-index

414414

32
g-index

50
all docs

50
docs citations

50
times ranked

581
citing authors

#	ARTICLE	IF	CITATIONS
1	Distonic radical cations in gaseous and condensed phase. <i>Mass Spectrometry Reviews</i> , 1988, 7, 123-202.	5.4	335
2	Heats of formation and proton affinities by the G3 method. <i>Chemical Physics Letters</i> , 1999, 300, 529-532.	2.6	49
3	Alkyl Radicals as Hydrogen Bond Acceptors: Computational Evidence. <i>Journal of the American Chemical Society</i> , 2009, 131, 8627-8635.	13.7	49
4	Experimental and Theoretical Evaluation of Proton Affinities of Furan, the Methylphenols, and the Related Anisoles. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2787-2793.	2.5	46
5	The Proton Affinities of Imines and the Heats of Formation of Immonium Ions Investigated with Composite ab Initio Methods. <i>Journal of the American Chemical Society</i> , 1999, 121, 6002-6009.	13.7	39
6	Bimolecular reactions of distonic ions: Proton transfer and hydrogen atom abstraction with $\dot{\text{E}}^{\text{TM}}\text{CH}_2\text{OH}_2^+$. <i>Organic Mass Spectrometry</i> , 1993, 28, 1098-1100.	1.3	38
7	Rearrangement and hydrogen abstraction reactions of amine cation radicals: a gas-phase analogy to the Hofmann-Löffler-Freytag reaction. <i>Tetrahedron Letters</i> , 1981, 22, 157-160.	1.4	33
8	Secondary hydrogen isotope effects on simple cleavage reactions in the gas phase. The α -cleavage of tertiary amine cation radicals. <i>Journal of the American Chemical Society</i> , 1988, 110, 3869-3873.	13.7	30
9	Slow alkyl, alkene, and alkenyl loss from primary alkylamines. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983, 47, 351-354.	1.3	29
10	The proton affinities of saturated and unsaturated heterocyclic molecules. <i>International Journal of Mass Spectrometry</i> , 2006, 249-250, 370-378.	1.5	29
11	Formation of Proton-Bound Dimers as the Driving Force for Alkyl Radical Loss in the Gas Phase Reactions of Radical Cations. <i>The Journal of Physical Chemistry</i> , 1996, 100, 18380-18386.	2.9	26
12	Hydrogen Bonding to Alkanes: Computational Evidence. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7940-7944.	2.5	23
13	Intramolecular Hydrogen Bonding and Hydrogen Atom Abstraction in Gas-Phase Aliphatic Amine Radical Cations. <i>Journal of Physical Chemistry A</i> , 2005, 109, 12046-12053.	2.5	22
14	Competing Simple Cleavage Reactions: The Elimination of Alkyl Radicals from Amine Radical Cations. <i>Journal of the American Chemical Society</i> , 2005, 127, 6466-6475.	13.7	17
15	Energy-dependent reversal of secondary isotope effects on simple cleavage reactions: Tertiary amine radical cations with deuterium at remote positions. <i>Organic Mass Spectrometry</i> , 1989, 24, 885-888.	1.3	16
16	The reactions of enol radical cations with propene in the gas phase. <i>Organic Mass Spectrometry</i> , 1990, 25, 389-391.	1.3	16
17	On the nature of the transition state leading to elimination of ketene from acetanilide. <i>Organic Mass Spectrometry</i> , 1972, 6, 1369-1371.	1.3	15
18	Heats of formation of gas-phase ions calculated by composite ab initio procedures. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 165-166, 63-69.	1.8	15

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19	Vibrational predissociation spectra of the Ar-tagged [CH ₄ ·H ₃ O ⁺] binary complex: spectroscopic signature of hydrogen bonding to an alkane. <i>Molecular Physics</i> , 2010, 108, 1191-1197.	1.7	15
20	Intramolecular hydrogen atom abstraction with an eight-membered cyclic transition state in open-chain aliphatic aminium radicals. <i>Tetrahedron Letters</i> , 1985, 26, 3407-3408.	1.4	14
21	Time-dependence of the isotope effects in the unimolecular dissociation of tertiary amine molecular ions. <i>Organic Mass Spectrometry</i> , 1991, 26, 875-881.	1.3	14
22	A regiospecific cycloaddition: Successive reactions of $\hat{\text{C}}\text{-CH}_2\text{CH}_2\text{OH}^+$ with CH ₂ O. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 53-55.	1.5	14
23	On the release of translational energy when stable intermediate ion-neutral complexes dissociate. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 160, 183-192.	1.8	14
24	Protonation of fluorophenols and fluoroanisoles in the gas phase: experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2904-2910.	2.8	14
25	The mass spectrometry of 1,3,4-thiadiazolines. <i>Organic Mass Spectrometry</i> , 1974, 9, 181-188.	1.3	13
26	Hydrogen transfer and alkyl radical addition via [hydrocarbon/alcohol] ⁺ ·E TM ion-molecule complexes. <i>Organic Mass Spectrometry</i> , 1991, 26, 339-341.	1.3	12
27	Heats of formation of imine and enamine radical cations and the corresponding neutral molecules. <i>International Journal of Mass Spectrometry</i> , 1998, 179-180, 301-308.	1.5	12
28	Isomerization and fragmentation of aliphatic ether radical cations: Interconversion of distonic ions and cyclopropane intermediates. <i>Organic Mass Spectrometry</i> , 1990, 25, 368-374.	1.3	11
29	Bimodal internal energy distribution as a consequence of <i>Cul-de-sac</i> isomerization reactions. <i>Organic Mass Spectrometry</i> , 1992, 27, 369-376.	1.3	10
30	The rearrangement and simple cleavage of metastable octanamine radical cations. <i>International Journal of Mass Spectrometry</i> , 2000, 199, 79-89.	1.5	8
31	The methylene chloride radical cation and its distonic isomers in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2001, 210-211, 403-415.	1.5	8
32	The 1,2 migration of NH ₃ in protonated $\hat{\text{I}}^2$ -aminoalkyl radicals. <i>International Journal of Mass Spectrometry</i> , 2000, 199, 71-78.	1.5	7
33	The retro-ene reaction of gaseous immonium ions revisited. Electronic supplementary information (ESI) available: Table s1 [G2(MP2) total energies of the involved species] and Table s2 [archive entries for MP2(full)/6-31G(d) optimised geometries]. See http://www.rsc.org/suppdata/p2/b1/b105386h . <i>Perkin Transactions II RSC</i> , 2001, 2324-2328.	1.1	7
34	$\hat{\text{I}}^\pm$ -Distonic ions as transient species in the reactions of metastable alkyl benzoate radical cations. <i>Organic Mass Spectrometry</i> , 1990, 25, 44-48.	1.3	6
35	The influence of fragment size and intermediate barriers on competing near-identical simple cleavage reactions: A variational RRKM study. <i>International Journal of Mass Spectrometry</i> , 2011, 306, 175-181.	1.5	6
36	Mass spectrometry in structural and stereochemical problems-CCXXIX: Electron-impact-induced fragmentation of boric acid esters. <i>Organic Mass Spectrometry</i> , 1974, 8, 217-227.	1.3	5

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37	Identification of oxygenated ions in premixed flames of dimethyl ether and oxygen. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 3126-3132.	2.8	5
38	Isotope Effects on the Unimolecular Dissociation of Ionized 3-Methyl-2-butanol: Reactions via a Long-Lived C ⁺ H ⁺ C Hydrogen-Bridged Ion-Neutral Complex. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3159-3165.	2.5	5
39	The mass spectra of some simple phenylhydrazides and a re-examination of the fragmentations of phenylhydrazine. <i>Organic Mass Spectrometry</i> , 1976, 11, 375-382.	1.3	4
40	The Formation and Heats of Formation of Simple $\dot{\pm}$ -Distonic Ions. <i>European Journal of Mass Spectrometry</i> , 2004, 10, 775-782.	1.0	4
41	Isomerization and Fragmentation of Metastable Secondary Amine Radical Cations. <i>Acta Chemica Scandinavica</i> , 1998, 52, 1045-1050.	0.7	4
42	The chemistry of hexahydro-1,2,4,5-tetrazines II: Mass spectra of 1,4-dialkylhexahydro-1,2,4,5-tetrazines and 1,4-dialkyl-2,5-diacylhexahydro-1,2,4,5-tetrazines. <i>Organic Mass Spectrometry</i> , 1971, 5, 1209-1220.	1.3	3
43	Formation of aniline-like ions by electron-impact-induced elimination of CO from formanilide. <i>Organic Mass Spectrometry</i> , 1975, 10, 896-898.	1.3	3
44	Secondary kinetic deuterium isotope effects. The CC cleavage of labeled tetramethylethylenediamine radical cations: Who gets to keep the electron?. <i>International Journal of Mass Spectrometry</i> , 2017, 413, 92-96.	1.5	3
45	Secondary kinetic deuterium isotope effects on unimolecular cleavage reactions: Zero-point vibrational energy and qualitative RRKM theory. <i>Mass Spectrometry Reviews</i> , 2021, 40, 821-839.	5.4	2
46	Isomerization of Metastable Amine Radical Cations by Dissociation-Recombination. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 635-639.	1.0	1
47	Isomers and Isomerization of Molecular Ions: the Formation of Stable Ion-Neutral Complexes During Unimolecular Dissociation. , 1991, , 379-390.		1
48	Electron impact-promoted fragmentation of some substituted 4-quinazolones. <i>Journal of Mass Spectrometry</i> , 1995, 30, 1701-1706.	1.6	0
49	Possible Intermediacy of Cyclopropane Complexes in the Isomerization of Aliphatic Amine Radical Cations. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1548-1557.	2.5	0