

# Scott Gronert

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2590365/publications.pdf>

Version: 2024-02-01

150  
papers

5,279  
citations

94269

37  
h-index

102304

66  
g-index

157  
all docs

157  
docs citations

157  
times ranked

3665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bond strengths of ethylene and acetylene. <i>Journal of the American Chemical Society</i> , 1990, 112, 5750-5759.	6.6	387
2	Gas-phase SN <sub>2</sub> and E <sub>2</sub> reactions of alkyl halides. <i>Journal of the American Chemical Society</i> , 1990, 112, 8650-8655.	6.6	270
3	Mass Spectrometric Studies of Organic Ion/Molecule Reactions. <i>Chemical Reviews</i> , 2001, 101, 329-360.	23.0	246
4	Estimation of effective ion temperatures in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 845-848.	1.2	234
5	Ab Initio Studies of Amino Acid Conformations. 1. The Conformers of Alanine, Serine, and Cysteine. <i>Journal of the American Chemical Society</i> , 1995, 117, 2071-2081.	6.6	211
6	The gas-phase acidities of the alkanes. <i>Journal of the American Chemical Society</i> , 1989, 111, 1968-1973.	6.6	158
7	Theoretical studies of proton transfers. 1. The potential energy surfaces of the identity reactions of the first- and second-row non-metal hydrides with their conjugate bases. <i>Journal of the American Chemical Society</i> , 1993, 115, 10258-10266.	6.6	126
8	Quadrupole ion trap studies of fundamental organic reactions. <i>Mass Spectrometry Reviews</i> , 2005, 24, 100-120.	2.8	120
9	Gas phase acidities of the $\hat{\pm}$ amino acids. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 117, 23-36.	1.9	119
10	Deuterium isotope effects in gas-phase reactions of alkyl halides: distinguishing E <sub>2</sub> and S(N) <sub>2</sub> pathways. <i>Journal of the American Chemical Society</i> , 1991, 113, 4009-4010.	6.6	117
11	Gas Phase Studies of the Competition between Substitution and Elimination Reactions. <i>Accounts of Chemical Research</i> , 2003, 36, 848-857.	7.6	104
12	Stabilities of Carbenes: Independent Measures for Singlets and Triplets. <i>Journal of the American Chemical Society</i> , 2011, 133, 3381-3389.	6.6	98
13	Identification of specific protein carbonylation sites in model oxidations of human serum albumin. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1172-1180.	1.2	89
14	An Alternative Interpretation of the C $\hat{\pm}$ H Bond Strengths of Alkanes. <i>Journal of Organic Chemistry</i> , 2006, 71, 1209-1219.	1.7	84
15	The mechanism of C-terminal fragmentations in alkali metal ion complexes of peptides. <i>International Journal of Mass Spectrometry</i> , 2003, 222, 117-134.	0.7	78
16	A reevaluation of computed proton affinities for the common $\hat{\pm}$ -amino acids. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 2116-2123.	1.2	66
17	Theoretical studies of elimination reactions. 1. Reactions of F <sup>-</sup> and PH <sub>2</sub> <sup>-</sup> with CH <sub>3</sub> CH <sub>2</sub> Cl. Competition between SN <sub>2</sub> and E <sub>2</sub> mechanisms for first- and second-row nucleophiles. <i>Journal of the American Chemical Society</i> , 1991, 113, 6041-6048.	6.6	63
18	Experimental Validation of the $\hat{\pm}$ -Effect in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2011, 133, 13894-13897.	6.6	62

#	ARTICLE	IF	CITATIONS
19	Charge transfers and polarizations in bonds to silicon. Organosilanes and the SN2(Si) reaction of silane with fluoride. An ab initio study. <i>Journal of the American Chemical Society</i> , 1989, 111, 3111-3117.	6.6	56
20	Substituent Effects in Gas-Phase Substitutions and Eliminations: $\beta^2$ -Halo Substituents. Solvation Reverses SN2 Substituent Effects. <i>Journal of the American Chemical Society</i> , 2001, 123, 3081-3091.	6.6	55
21	The Gas-Phase Reactions of Dianions with Alkyl Bromides: $\beta^2$ Direct Identification of SN2 and E2 Products. <i>Journal of the American Chemical Society</i> , 1999, 121, 2627-2628.	6.6	54
22	Intrinsic Barriers and Transition State Structures in the Gas Phase Carbon-to-Carbon Identity Proton Transfers from Nitromethane to Nitromethide Anion and from Protonated Nitromethane to aci-Nitromethane. An ab Initio Study. <i>Journal of the American Chemical Society</i> , 1997, 119, 4008-4020.	6.6	53
23	Identity Proton-Transfer Reactions from $\text{C}^{\sim}\text{H}$ , $\text{N}^{\sim}\text{H}$ , and $\text{O}^{\sim}\text{H}$ Acids. An ab Initio, DFT, and CPCM-B3LYP Aqueous Solvent Model Study. <i>Journal of the American Chemical Society</i> , 2003, 125, 11730-11745.	6.6	52
24	Theoretical studies of elimination reactions. 3. Gas-phase reactions of fluoride ion with 2-chloropropane and 1-chloropropane. The effect of methyl substituents. <i>Journal of the American Chemical Society</i> , 1993, 115, 652-659.	6.6	50
25	The Mechanism of Orotidine 5'-Monophosphate Decarboxylase: Catalysis by Destabilization of the Substrate. <i>Biochemistry</i> , 2000, 39, 1778-1783.	1.2	50
26	Carbon acidity. 73. Conductimetric study of lithium and cesium salts of hydrocarbon acids. A scale of free ion acidities in tetrahydrofuran. Revision of the ion pair scales. <i>Journal of the American Chemical Society</i> , 1988, 110, 2829-2835.	6.6	49
27	Aromatic Superhalogens. <i>Chemistry - A European Journal</i> , 2014, 20, 4736-4745.	1.7	49
28	Gas phase ion chemistry of the acetic acid enolate anion $[\text{CH}_2\text{CO}_2\text{H}]^-$ . <i>Journal of the American Chemical Society</i> , 1989, 111, 3105-3106.	6.6	48
29	Leaving Group Effects in Gas-Phase Substitutions and Eliminations. <i>Journal of the American Chemical Society</i> , 2004, 126, 12977-12983.	6.6	47
30	The Element Effect Revisited: Factors Determining Leaving Group Ability in Activated Nucleophilic Aromatic Substitution Reactions. <i>Journal of Organic Chemistry</i> , 2012, 77, 9535-9540.	1.7	47
31	The Lithium Cation Binding Energies of Gaseous Amino Acids. <i>Journal of Physical Chemistry A</i> , 2003, 107, 405-410.	1.1	46
32	Direct Measurements of Deuterium Kinetic Isotope Effects in Anionic, Gas-Phase Substitution and Elimination Reactions. <i>Journal of the American Chemical Society</i> , 2007, 129, 5330-5331.	6.6	45
33	Lithium and Sodium Ion Binding Energies of N-Acetyl and N-Glycyl Amino Acids. <i>Journal of the American Chemical Society</i> , 1999, 121, 1365-1371.	6.6	43
34	The gas-phase conformations of valine: an ab initio study. <i>Computational and Theoretical Chemistry</i> , 1997, 397, 107-112.	1.5	42
35	Determining the gas-phase properties and reactivities of multiply charged ions. , 1999, 34, 787-796.		41
36	Identity Hydride-Ion Transfer from $\text{C}^{\sim}\text{H}$ Donors to C Acceptor Sites. Enthalpies of Hydride Addition and Enthalpies of Activation. Comparison with $\text{C}^{\sim}\text{H}$ - $\text{H}^{\sim}\text{A}$ - $\text{C}$ Proton Transfer. An ab Initio Study. <i>Journal of the American Chemical Society</i> , 2005, 127, 2324-2333.	6.6	40

#	ARTICLE	IF	CITATIONS
37	Fluoride-Induced Elimination of Ethyl Fluoride. The Importance of High-Level Optimizations in ab Initio and DFT Studies. <i>Journal of Organic Chemistry</i> , 1995, 60, 488-489.	1.7	39
38	Gas-phase chemistry of the silaformyl anion, HSiO <sup>-</sup> . <i>Journal of the American Chemical Society</i> , 1990, 112, 997-1003.	6.6	38
39	Structural and Solvent Effects on the Mechanism of Base-Induced Rearrangement of Epoxides to Allylic Alcohols. <i>Journal of Organic Chemistry</i> , 2000, 65, 1461-1466.	1.7	38
40	The dehydrophenyl anion and the gas-phase ion chemistry of benzyne. <i>Journal of the American Chemical Society</i> , 1989, 111, 9253-9254.	6.6	37
41	The need for additional diffuse functions in calculations on small anions: the G2(DD) approach. <i>Chemical Physics Letters</i> , 1996, 252, 415-418.	1.2	37
42	Enantioselective gas-phase ion-molecule reactions in a quadrupole ion trap. <i>International Journal of Mass Spectrometry</i> , 2002, 219, 79-87.	0.7	36
43	Carbon acidity. 70. Equilibrium ion pair acidities in tetrahydrofuran of benzylic carbon acids stabilized by an adjacent cyano, carboalkoxy, and sulfonyl substituent. Delocalization and aggregation of ion pairs. <i>Journal of the American Chemical Society</i> , 1987, 109, 602-603.	6.6	35
44	Theoretical studies of elimination reactions. 2. The importance of periplanar transition states in E1cb-like eliminations. The gauche transition state of hydroxide + methoxyethane. <i>Journal of the American Chemical Society</i> , 1992, 114, 2349-2354.	6.6	35
45	An ab Initio Study of Proton Transfers from Gas-Phase Dications: Complications in Kinetic Methods for Determining Acidities. <i>Journal of the American Chemical Society</i> , 1996, 118, 3525-3526.	6.6	34
46	Systematic Study of the Potential Energy Surface for the Base-Induced Elimination Reaction of Fluoride Ion with Ethyl Fluoride Using Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 1997, 101, 208-218.	1.1	33
47	Electron flow into cytochrome c coupled with reactive oxygen species from the electron transport chain converts cytochrome c to a cardiolipin peroxidase: role during ischemia reperfusion. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 3199-3207.	1.1	32
48	Manipulating the fragmentation patterns of phosphopeptides via gas-phase boron derivatization: Determining phosphorylation sites in peptides with multiple serines. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1905-1914.	1.2	31
49	The Folly of Protobranching: Turning Repulsive Interactions into Attractive Ones and Rewriting the Strain/Stabilization Energies of Organic Chemistry. <i>Chemistry - A European Journal</i> , 2009, 15, 5372-5382.	1.7	31
50	Structures and energies of main-group metal formyl complexes. Mechanism of the reaction of lithium hydride with carbon monoxide. <i>Journal of the American Chemical Society</i> , 1987, 109, 2553-2559.	6.6	30
51	Gas phase reactions of trimethyl borate with phosphates and their non-covalent complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 1088-1098.	1.2	30
52	Concerning the Regioselectivity of Gas Phase Reactions of Glycine with Electrophiles. The Cases of the Dimethylchlorinium Ion and the Methoxymethyl Cation. <i>Journal of Organic Chemistry</i> , 1995, 60, 1990-1998.	1.7	29
53	The gas phase acid/base properties of 1,3-dimethyluracil, 1-methyl-2-pyridone, and 1-methyl-4-pyridone: relevance to the mechanism of orotidine-5-phosphate decarboxylase. <i>International Journal of Mass Spectrometry</i> , 2000, 195-196, 251-258.	0.7	29
54	Coulomb repulsion in multiply charged ions: a computational study of the effective dielectric constants of organic spacer groups. <i>International Journal of Mass Spectrometry</i> , 1999, 185-187, 351-357.	0.7	28

#	ARTICLE	IF	CITATIONS
55	Evidence that Alkyl Substitution Provides Little Stabilization to Radicals: The C-C Bond Test and the Nonbonded Interaction Contradiction. <i>Journal of Organic Chemistry</i> , 2006, 71, 7045-7048.	1.7	28
56	Base-Catalyzed Dehydration of 3-Substituted Benzene cis-1,2-Dihydrodiols: Stabilization of a Cyclohexadienide Anion Intermediate by Negative Aromatic Hyperconjugation. <i>Journal of the American Chemical Society</i> , 2012, 134, 14056-14069.	6.6	28
57	Carbon acidity. 71. The indicator scale of lithium ion pairs in tetrahydrofuran. <i>Journal of the American Chemical Society</i> , 1986, 108, 7016-7022.	6.6	27
58	Can Cluster Structure Affect Kinetic Method Measurements? The Curious Case of Glutamic Acid's Gas-Phase Acidity. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1887-1896.	1.2	27
59	Gas phase hydrogen/deuterium exchange reactions of fluorophenyl anions. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 840-847.	1.2	26
60	Experimental and theoretical proton affinities of methionine, methionine sulfoxide and their N- and C-terminal derivatives. <i>International Journal of Mass Spectrometry</i> , 2007, 267, 220-232.	0.7	25
61	The reactivity of human serum albumin toward <i>trans</i> -4-hydroxynonanal. <i>Journal of Mass Spectrometry</i> , 2012, 47, 411-424.	0.7	25
62	Gas phase derivatization in peptide analysis I: the utility of trimethyl borate in identifying phosphorylation sites. <i>International Journal of Mass Spectrometry</i> , 2004, 231, 179-187.	0.7	24
63	Protonated Polycyclic Aromatic Nitrogen Heterocyclics: Proton Affinities, Polarizabilities, and Atomic and Ring Charges of 1 <sup>+</sup> -5-Ring Ions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 127-139.	1.1	24
64	Reaction of anions with activated olefins in the gas phase. A flowing afterglow-selected ion flow tube study. <i>Journal of the American Chemical Society</i> , 1990, 112, 9044-9052.	6.6	23
65	Theoretical Studies of Eliminations. 6. The Regiochemistry and Stereochemistry of the Gas-Phase Reactions of 3-Halocyclohexenes with Fluoride. <i>Ab Initio Study</i> . <i>Journal of Organic Chemistry</i> , 1997, 62, 7991-8000.	1.7	23
66	Zwitterion formation in gas-phase cyclodextrin complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 166-175.	1.2	23
67	Concerted or Stepwise: How Much Do Free-Energy Landscapes Tell Us about the Mechanisms of Elimination Reactions?. <i>Journal of Organic Chemistry</i> , 2014, 79, 1280-1288.	1.7	23
68	Gas Phase Reactions of Methyloxirane with HO <sup>-</sup> and Methylthiirane with HO <sup>-</sup> and HS <sup>-</sup> . An Ab Initio Study of Addition and Elimination. <i>Journal of Organic Chemistry</i> , 1995, 60, 4488-4497.	1.7	22
69	Reactions of Gas-Phase Salts: Substitutions and Eliminations in Complexes Containing a Dianion and a Tetraalkylammonium Cation. <i>Organic Letters</i> , 1999, 1, 503-506.	2.4	22
70	Correlations between Carbene and Carbenium Stability: Ab Initio Calculations on Substituted Phenylcarbenes, Nonbenzenoid Arylcarbenes, Heteroatom-Substituted Carbenes, and the Corresponding Carbocations and Hydrogenation Products. <i>Journal of Organic Chemistry</i> , 2009, 74, 5250-5259.	1.7	21
71	Gas-Phase Dehydrogenation of Alkanes: C-H Activation by a Graphene-Supported Nickel Single-Atom Catalyst Model. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14906-14910.	7.2	21
72	Carbon acidity. 74. The effects of hetero-substituted pendant groups on carbanion reactivity. Solvent separated-contact ion pair equilibria and relative pK <sub>Li</sub> /THF's for 9-substituted fluorenyllithiums in tetrahydrofuran. The importance of internal chelation. <i>Journal of the American Chemical Society</i> , 1988, 110, 2836-2842.	6.6	20

#	ARTICLE	IF	CITATIONS
73	Theoretical Studies of Elimination Reactions. 4. Gas Phase Reactions of F- with Cyclopentyl and Cyclohexyl Chloride. Stereochemical Preferences of E2 Eliminations. <i>Journal of Organic Chemistry</i> , 1994, 59, 7046-7050.	1.7	20
74	An Epoxide Intermediate in Nucleophilic Acylations by Thiazolium Precursors. <i>Organic Letters</i> , 2007, 9, 3065-3068.	2.4	20
75	EPR Data Do Not Indicate That Hyperconjugation Stabilizes Alkyl Radicals. <i>Organic Letters</i> , 2007, 9, 2211-2214.	2.4	20
76	Ion/molecule reactions of the protonated serine octamer. Gas Phase Ion Chemistry of Biomolecules. Part 42.20. <i>Chemical Communications</i> , 2004, , 1944.	2.2	19
77	The Impact of Substituents on the Transition States of S <sub>N</sub> 2 and E2 Reactions in Aliphatic and Vinylic Systems: Remarkably Facile Vinylic Eliminations. <i>Journal of the American Chemical Society</i> , 2012, 134, 9303-9310.	6.6	19
78	Formation and Reactivity of Gold Carbene Complexes in the Gas Phase. <i>Organometallics</i> , 2014, 33, 7135-7140.	1.1	19
79	The Protonation of Allene and Some Heteroallenes, a Computational Study. <i>Journal of Organic Chemistry</i> , 2007, 72, 6343-6352.	1.7	18
80	Strain-Free Transition States in the Formation of Strained Rings: An ab Initio Study of Thiirane, Thietan, and Tetrahydrothiophene. <i>Journal of Organic Chemistry</i> , 1995, 60, 6731-6736.	1.7	17
81	Cyclizations of 3-Chlorocarbanions to Cyclopropanes: Strain-Free Transition States for Forming Highly Strained Rings. <i>Journal of the American Chemical Society</i> , 1998, 120, 3220-3226.	6.6	17
82	Surprisingly Low Aqueous Acidity at the Î±-Positions of Pyridiniums and Pyrimidinium: The Role of Solvation. <i>Organic Letters</i> , 2008, 10, 2757-2760.	2.4	17
83	Effect of Ring Size and Migratory Groups on [1,3- <i>i</i> ] Suprafacial Shift Reactions. Confirmation of Aromatic and Antiaromatic Transition-State Character by Ring-Current Analysis. <i>Journal of Organic Chemistry</i> , 2016, 81, 8777-8788.	1.7	17
84	Gas-phase chemistry of the silaacetylide anion, HCSi <sup>-</sup> . <i>Journal of the American Chemical Society</i> , 1988, 110, 2005-2006.	6.6	16
85	Structural Effects on the Gas Phase Reactivity of Organic Salt Complexes: Substitution versus Hofmann Elimination. <i>Australian Journal of Chemistry</i> , 2003, 56, 379.	0.5	16
86	Resolving the Î±-effect in gas phase S <sub>N</sub> 2 reactions: A Marcus theory approach. <i>International Journal of Mass Spectrometry</i> , 2012, 316-318, 244-250.	0.7	16
87	How does isotopic substitution affect the gas-phase proton affinity of glycine? a combined experimental and Ab Initio study. <i>Organic Mass Spectrometry</i> , 1994, 29, 151-152.	1.3	15
88	Accuracy of G2 Calculations for the Reactions of Hydroxyl Radicals with Alkanes. <i>Journal of Physical Chemistry A</i> , 1998, 102, 2609-2612.	1.1	15
89	Primary Semiclassical Kinetic Hydrogen Isotope Effects in Identity Carbon-to-Carbon Proton- and Hydride-Transfer Reactions, an ab Initio and DFT Computational Study. <i>Journal of Organic Chemistry</i> , 2006, 71, 5959-5968.	1.7	15
90	Carbonylation of mitochondrial aconitase with 4-hydroxy-2-(E)-nonenal: Localization and relative reactivity of addition sites. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1144-1154.	1.1	15

#	ARTICLE	IF	CITATIONS
91	Carbon acidity. 76. The remarkably low second pKa of 1-naphthylacetic acid. Lithium ion pair acidity in tetrahydrofuran. <i>Journal of the American Chemical Society</i> , 1988, 110, 4418-4419.	6.6	14
92	Dehalogenation of Arenes via S <sub>N</sub> 2 Reactions at Bromine: Competition with Nucleophilic Aromatic Substitution.. <i>Journal of Organic Chemistry</i> , 2014, 79, 11020-11028.	1.7	14
93	Protonation Energies of 1 <sup>+</sup> 5-Ring Polycyclic Aromatic Nitrogen Heterocyclics: Comparing Experiment and Theory. <i>Journal of Physical Chemistry A</i> , 2015, 119, 118-126.	1.1	14
94	Gas-phase negative-ion chemistry of diazomethane. <i>Journal of Organic Chemistry</i> , 1989, 54, 1846-1850.	1.7	13
95	Gas phase reactions of dianions. 2. The effect of a second charge on SN2 potential energy surfaces: an ab initio study. <i>International Journal of Mass Spectrometry</i> , 1999, 192, 185-190.	0.7	13
96	Modest catalysis of the decarboxylation of orotate by hydrogen bonding: a theoretical model for orotidine-5 <sup>+</sup> -monophosphate decarboxylase. <i>Bioorganic Chemistry</i> , 2004, 32, 76-81.	2.0	13
97	Mechanistic Insights into the Reactions of Co(III) Salens with Diazoacetates. <i>Organic Letters</i> , 2010, 12, 676-679.	2.4	13
98	The Stability of Aryl Carbanions Derived from Pyridine N-Oxide: The Role of Resonance in Stabilizing Aryl Anions. <i>Journal of the American Chemical Society</i> , 2010, 132, 390-395.	6.6	13
99	Calculated stabilities and structures for carbocations and singlet carbenes bearing electron-withdrawing groups. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 1023-1031.	0.9	13
100	Imidazolidin-4-ones via (3+2) cycloadditions of aza-oxyallyl cations onto (E)-N-arylideneanilines. <i>Tetrahedron Letters</i> , 2018, 59, 3674-3677.	0.7	13
101	Effect of Allylic Groups on SN2 Reactivity. <i>Journal of Organic Chemistry</i> , 2014, 79, 6410-6418.	1.7	12
102	Chapter 10. Gas phase organic ion <sup>+</sup> molecule reaction chemistry. <i>Annual Reports on the Progress of Chemistry Section B</i> , 1999, 95, 349-372.	0.8	11
103	Ab initio insights into amide bond cleavage reactions of formamide with substituted methyl cations XCH <sub>2</sub> <sup>+</sup> (X = OH, F, and Cl). <i>International Journal of Mass Spectrometry</i> , 2000, 195-196, 303-317.	0.7	11
104	Comparing the efficiencies of hydrazone labels in the study of protein carbonylation in human serum albumin. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1399-1411.	1.9	11
105	The gas-phase reactions of metal porphyrins with diazoacetate esters. <i>International Journal of Mass Spectrometry</i> , 2012, 316-318, 68-75.	0.7	11
106	Impact of Alkyl Substituents on the Gas-Phase Competition between Substitution and Elimination. <i>Journal of Organic Chemistry</i> , 2013, 78, 8606-8613.	1.7	11
107	Investigating reduced metal species via sequential ion/ion and ion/molecule reactions: The reactions of transition metal phenanthrolines with allyl iodide. <i>International Journal of Mass Spectrometry</i> , 2017, 418, 73-78.	0.7	11
108	Substitution Reactions on Iodine and Bromine: Mechanisms for Facile Halogenations of Heterocycles. <i>Journal of Organic Chemistry</i> , 2019, 84, 5757-5762.	1.7	11



#	ARTICLE	IF	CITATIONS
109	Theoretical Studies of Eliminations. 5. Intermolecular vs Intramolecular Eliminations: An ab Initio Study of the Gas-Phase Reaction of NH <sub>2</sub> -with CH <sub>3</sub> CH <sub>2</sub> SCH <sub>3</sub> . <i>Journal of Organic Chemistry</i> , 1996, 61, 9430-9433.	1.7	10
110	A cleavable biotin tagging reagent that enables the enrichment and identification of carbonylation sites in proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 865-874.	1.9	10
111	Stereoselectivity in 1,2-Elimination Reactions. The Gas-Phase Reactivity of Deuterium-Labeled 1-Methoxy-1-tert-butyl-4,4-dimethyl-2-cyclohexene and 1-Methoxy-3-tert-butyl-6,6-dimethyl-3-cyclohexene. <i>Journal of the American Chemical Society</i> , 1994, 116, 3133-3134.	6.6	9
112	Stereoselectivity in the collision-activated reactions of gas phase salt complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1509-1516.	1.2	9
113	Carbon acidity. 75. The effects of hetero-substituted pendant groups on carbanion reactivity. Kinetic acidities of 9-substituted fluorenes in tetrahydrofuran. The importance of free ions in the reactions of delocalized carbanion salts. <i>Journal of the American Chemical Society</i> , 1988, 110, 2843-2847.	6.6	8
114	A Strong Preference for a Salt-Bridge Structure in the Gas Phase: Reactions of Deprotonated Amino Acids with Borane. <i>Journal of the American Chemical Society</i> , 2001, 123, 8606-8607.	6.6	8
115	Catalysis of decarboxylation by an adjacent negative charge: a theoretical approach. <i>Bioorganic Chemistry</i> , 2003, 31, 271-277.	2.0	8
116	Gas-Phase Stereoselective Binding to Mn/Salen Catalysts. <i>Organic Letters</i> , 2008, 10, 1771-1773.	2.4	8
117	Reactivity in the nucleophilic aromatic substitution reactions of pyridinium ions. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 6175-6180.	1.5	8
118	Gas-Phase Dehydrogenation of Alkanes: C-H Activation by a Graphene-Supported Nickel Single-Atom Catalyst Model. <i>Angewandte Chemie</i> , 2019, 131, 15048-15052.	1.6	8
119	Gas phase organic ion-molecule reaction chemistry. <i>Annual Reports on the Progress of Chemistry Section B</i> , 2000, 96, 445-475.	0.8	7
120	Nucleophilic Aromatic Substitution with Dianions: Reactions Driven by the Release of Coulomb Repulsion. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 10-17.	1.2	7
121	Unusual hydroxyl effect on fulvene endoperoxide decompositions. <i>Tetrahedron Letters</i> , 2016, 57, 2190-2193.	0.7	7
122	Gold(I)-Induced Rearrangements of Propargyl Derivatives: A Gas-Phase Study. <i>Organometallics</i> , 2016, 35, 3844-3851.	1.1	7
123	Development and Evaluation of a Variable-Temperature Quadrupole Ion Trap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 339-343.	1.2	7
124	Stabilities of uracil and pyridone-based carbanions: a systematic study in the gas phase and solution and implications for the mechanism of orotidine-5'-monophosphate decarboxylase. <i>Tetrahedron</i> , 2013, 69, 5287-5292.	1.0	6
125	Pyrrolidine catalyzed reactions of cyclopentadiene with $\alpha,\beta$ -unsaturated carbonyl compounds: 1,2- versus 1,4-additions. <i>Tetrahedron</i> , 2015, 71, 2636-2642.	1.0	6
126	A Robust Analytical Approach for the Identification of Specific Protein Carbonylation Sites: Metal-Catalyzed Oxidations of Human Serum Albumin. <i>Analytical Letters</i> , 2017, 50, 567-579.	1.0	6



#	ARTICLE	IF	CITATIONS
127	New insights into the gas-phase anion chemistry of nitrous oxide. <i>European Journal of Mass Spectrometry</i> , 1995, 1, 429.	0.7	5
128	High-Level Computational Studies of Nonidentity Proton Transfer Reactions: Variations in Their Gas Phase Potential Energy Surfaces. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8932-8938.	1.1	5
129	Gas-phase ligand binding to Jacobsen's manganese salen catalyst: Functional group and steric effects. <i>International Journal of Mass Spectrometry</i> , 2011, 305, 40-44.	0.7	5
130	Temperature-dependent, competitive 1,3-acyl shift versus decarbonylation of a cyclopropanone intermediate. <i>Tetrahedron</i> , 2013, 69, 5044-5047.	1.0	5
131	Carbanions. , 2005, , 69-119.		4
132	Polarization in the structures of uracil and thiouracils: Implication for binding with orotidine 5'-monophosphate decarboxylase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 6341-6342.	1.0	4
133	Electron Delocalization Is Not a Satisfactory Explanation for the Preference for Branching in the Alkanes. <i>Chemistry - A European Journal</i> , 2013, 19, 11090-11092.	1.7	4
134	Paraquat exposure and Sod2 knockdown have dissimilar impacts on the <i>Drosophila melanogaster</i> carbonylated protein proteome. <i>Proteomics</i> , 2014, 14, 2566-2577.	1.3	4
135	Are Copper(I) Carbenes Capable Intermediates for Cyclopropanations? The Case for Ylide Intermediates. <i>Chemistry - A European Journal</i> , 2015, 21, 12702-12708.	1.7	4
136	Intermolecular C-H Bond Activation by a Cationic Iridium(III) Dichloride Phenanthroline Complex. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6475-6478.	7.2	4
137	The gas-phase reactions of localized and delocalized carbanions with aryl halides: Competition between attack on the $\pi$ -system and the periphery. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 31-37.	0.7	4
138	Singlet oxygenation of triquinacene, barrelene, and homobarrelene. <i>Tetrahedron Letters</i> , 2020, 61, 151779.	0.7	4
139	Gas-phase acidities of acrolein and methyl acrylate. <i>Journal of Physical Organic Chemistry</i> , 1990, 3, 346-348.	0.9	3
140	Two ways to transfer a proton. An ab initio study of the identity reaction of silyl (1-) + silane and comparisons to the reactions of aluminum hydride (AlH <sub>3</sub> ) and phosphine. <i>Organometallics</i> , 1993, 12, 3805-3807.	1.1	3
141	The Competition between Elimination Pathways in the Reactions of a Wide Variety of Bases with 2-Fluoro- and 2-Chlorobutane in the Gas Phase. <i>Journal of Organic Chemistry</i> , 2015, 80, 10787-10793.	1.7	3
142	Cyclopentadienones via a Tandem C-Cyclopropyl Nitrene Cyclization-Cycloreversion Sequence. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5147-5153.	1.2	3
143	The mechanisms of the gas phase reactions of HO $\cdot$ with oxirane and HS $\cdot$ with thiirane. An ab initio study. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 117, 115-128.	1.9	1
144	AB INITIO STUDIES OF ELIMINATION REACTION MECHANISMS. , 1997, , 33-88.		1

#	ARTICLE	IF	CITATIONS
145	A mass spectrometric method for rapidly assaying the chiral selectivities of the copper(I) complexes of C <sub>2</sub> asymmetric ligands. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1279-1287.	0.7	1
146	Gas Phase Studies of the Competition Between Substitution and Elimination Reactions. <i>ChemInform</i> , 2004, 35, no.	0.1	0
147	Quadrupole Ion Trap Studies of Fundamental Organic Reactions. <i>ChemInform</i> , 2005, 36, no.	0.1	0
148	Diverse Modes of Reactivity of 6-(Chloromethyl)methylfulvene. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2925-2931.	1.2	0
149	An Oxyanion Accelerated [1,5]-Quinone Methide Shift During the Nucleophilic Epoxidation of Salicylfulvene. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 362-366.	1.2	0
150	Remote functional group directed C-H activation by an Ir(III) phenanthroline complex. <i>Chemical Communications</i> , 2020, 56, 15569-15572.	2.2	0