

Paul G Wenthold

List of Publications by Year in descending order

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88
papers

3,121
citations

159585

30
h-index

161849

54
g-index

92
all docs

92
docs citations

92
times ranked

1904
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultraviolet Photoelectron Spectroscopy of the <i>ortho</i> -, <i>meta</i> -, and <i>para</i> -Benzyne Negative Ions. Electron Affinities and Singlet-Triplet Splittings for <i>ortho</i> -, <i>meta</i> -, and <i>para</i> -Benzyne. <i>Journal of the American Chemical Society</i> , 1998, 120, 5279-5290.	13.7	311
2	Biradical Thermochemistry from Collision-Induced Dissociation Threshold Energy Measurements. Absolute Heats of Formation of <i>ortho</i> -, <i>meta</i> -, and <i>para</i> -Benzyne. <i>Journal of the American Chemical Society</i> , 1994, 116, 6401-6412.	13.7	186
3	Photoelectron Spectroscopy of the Trimethylene-methane Negative Ion. The Singlet-Triplet Splitting of Trimethylenemethane. <i>Journal of the American Chemical Society</i> , 1996, 118, 475-476.	13.7	175
4	Bond Dissociation Energies of F ₂ ⁻ and HF ₂ ⁻ . A Gas-Phase Experimental and G2 Theoretical Study. <i>The Journal of Physical Chemistry</i> , 1995, 99, 2002-2005.	2.9	151
5	Photoelectron Spectroscopy of <i>m</i> -Xylylene Anion. <i>Journal of the American Chemical Society</i> , 1997, 119, 1354-1359.	13.7	123
6	A tandem selected ion flow tube-triple quadrupole instrument. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 130, 89-105.	1.8	94
7	<i>ortho</i> -, <i>meta</i> -, and <i>para</i> -Benzyne Negative Ions in the Gas Phase: Synthesis, Authentication, and Thermochemistry. <i>Journal of the American Chemical Society</i> , 1996, 118, 11865-11871.	13.7	94
8	Negative Ion Photoelectron Spectroscopy Studies of Organic Reactive Intermediates. <i>Accounts of Chemical Research</i> , 1999, 32, 597-604.	15.6	94
9	Regioselective Synthesis of Biradical Negative Ions in the Gas Phase. Generation of Trimethylenemethane, <i>m</i> -Benzyne, and <i>p</i> -Benzyne Anions. <i>Journal of the American Chemical Society</i> , 1994, 116, 6961-6962.	13.7	89
10	Experimental and Theoretical Studies of the Mechanism and Thermochemistry of Formation of α,ω -Dehydrotoluene Biradicals from Gas-Phase Halide Elimination Reactions. <i>Journal of the American Chemical Society</i> , 1994, 116, 7378-7392.	13.7	83
11	Photoelectron spectroscopy, gas phase acidity, and thermochemistry of <i>tert</i> -butyl hydroperoxide: Mechanisms for the rearrangement of peroxy radicals. <i>Journal of Chemical Physics</i> , 1998, 109, 10293-10310.	3.0	71
12	Properties of Diazocarbene [CNN] and the Diazomethyl Radical [HCNN] via Ion Chemistry and Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1998, 102, 7100-7112.	2.5	69
13	Water Dimer Proton Affinity from the Kinetic Method: Dissociation Energy of the Water Dimer. <i>European Journal of Mass Spectrometry</i> , 2004, 10, 837-845.	1.0	62
14	Gas-Phase Properties and Reactivity of the Acetate Radical Anion. Determination of the C-H Bond Strengths in Acetic Acid and Acetate Ion. <i>Journal of the American Chemical Society</i> , 1994, 116, 11890-11897.	13.7	61
15	An Experimental and Computational Study of the Electron Affinity of Boron Oxide. <i>Journal of Physical Chemistry A</i> , 1997, 101, 4472-4474.	2.5	61
16	5-Dehydro-1,3-quinodimethane: A Hydrocarbon with an Open-Shell Doublet Ground State. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 742-745.	13.8	58
17	Properties of tetramethyleneethane (TME) as revealed by ion chemistry and ion photoelectron spectroscopy. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 1015-1022.	0.9	55
18	Photoelectron Spectroscopy of the Allyl and 2-Methylallyl Anions. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6920-6926.	2.9	53

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19	A Density Functional Molecular Orbital Study of the C2 ⁺ C7 and C2 ⁺ C6 Cyclization Pathways of 1,2,4-Heptatrien-6-yne. The Role of Benzannulation. <i>Journal of the American Chemical Society</i> , 2000, 122, 9265-9270.	13.7	53
20	Photoelectron spectroscopy of HCCN ⁺ and HCNC ⁺ reveals the quasilinear triplet carbenes, HCCN and HCNC. <i>Journal of Chemical Physics</i> , 2002, 117, 4323-4339.	3.0	52
21	Is the 1,3,5-Tridehydrobenzene Triradical a Cyclopropenyl Radical Analogue?. <i>Journal of the American Chemical Society</i> , 2002, 124, 12612-12618.	13.7	49
22	α,3-Dehydrotoluene: experimental and theoretical evidence for a singlet ground state. <i>Journal of the American Chemical Society</i> , 1993, 115, 12611-12612.	13.7	44
23	Ultraviolet photoelectron spectroscopy of the chromium dioxide negative ion. <i>Journal of Chemical Physics</i> , 1997, 106, 9961-9962.	3.0	40
24	Experimental and Computational Studies of the Structures and Energetics of Cyclooctatetraene and Its Derivatives. <i>Journal of the American Chemical Society</i> , 1997, 119, 7863-7864.	13.7	38
25	The Binding Energy and Bonding in Dialane. <i>Journal of the American Chemical Society</i> , 2005, 127, 11684-11689.	13.7	38
26	Gas-phase hydride affinities of neutral molecules. <i>International Journal of Mass Spectrometry</i> , 2006, 257, 1-11.	1.5	35
27	Determination of the electron affinities of 1- and 2-naphthyl radicals using the kinetic method with full entropy analysis. The C-H bond dissociation energies of naphthalene. <i>Journal of Mass Spectrometry</i> , 2001, 36, 607-615.	1.6	33
28	Synthesis, Characterization, and Reactivity of the m-Xylylene Anion in the Gas Phase. The Enthalpy of Formation of m-Xylylene. <i>Journal of the American Chemical Society</i> , 2000, 122, 11203-11211.	13.7	32
29	Photoelectron Spectroscopy of Chloro-Substituted Phenyl Nitrene Anions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9467-9473.	2.5	32
30	Triradical Thermochemistry from Collision-Induced Dissociation Threshold Energy Measurements. The Heat of Formation of 1,3,5-Trimethylenebenzene. <i>Journal of the American Chemical Society</i> , 2001, 123, 12311-12317.	13.7	31
31	Gas-phase reactions of the benzyne negative ions. <i>Journal of Mass Spectrometry</i> , 1998, 33, 796-802.	1.6	29
32	Bonding and Electronic Structure of XeF ₃ ⁻ . <i>Journal of the American Chemical Society</i> , 2007, 129, 846-852.	13.7	29
33	Thermochemical Properties of the Benzyne. <i>Australian Journal of Chemistry</i> , 2010, 63, 1091.	0.9	29
34	Determination of the proton affinities of bromo- and iodoacetonitrile using the kinetic method with full entropy analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 601-605.	2.8	28
35	The Curtin-Hammett Principle in Mass Spectrometry. <i>Accounts of Chemical Research</i> , 2009, 42, 1480-1488.	15.6	28
36	Determination of the gas-phase acidities of halogen-substituted aromatic compounds using the silane-cleavage method. <i>Journal of Mass Spectrometry</i> , 1995, 30, 17-24.	1.6	27

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37	Regioselectivity of Pyridine Deprotonation in the Gas Phase. <i>Journal of Organic Chemistry</i> , 2007, 72, 1645-1651.	3.2	25
38	Experimental Enthalpy of Formation of Isonitrile from Collision-Induced Dissociation Threshold Energy Measurements. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5612-5616.	2.5	24
39	Structure, vibrational frequencies, ionization energies, and photoelectron spectrum of the para-benzyne radical anion. <i>Theoretical Chemistry Accounts</i> , 2008, 120, 45-58.	1.4	24
40	Gas-phase acidities of o-, m- and p-dehydrobenzoic acid radicals. Determination of the substituent constants for a phenyl radical site. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998, 175, 215-224.	1.8	23
41	Spin-State Dependent Radical Stabilization in Nitrenes: The Unusually Small Singlet-Triplet Splitting in 2-Furanyl Nitrene. <i>Journal of Organic Chemistry</i> , 2012, 77, 208-214.	3.2	23
42	An Electron-Catalyzed Cope Cyclization. The Structure of the 2,5-Dicyano-1,5-hexadiene Radical Anion in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2003, 125, 10796-10797.	13.7	22
43	Ultraviolet Photoelectron Spectroscopy of o-, m-, and p-Halobenzyl Anions. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10833-10841.	2.5	21
44	The negative ion chemistry of nitric oxide in the gas phase. <i>Mass Spectrometry Reviews</i> , 2006, 25, 112-126.	5.4	21
45	Bond Dissociation Energy and Lewis Acidity of the Xenon Fluoride Cation. <i>Inorganic Chemistry</i> , 2003, 42, 4293-4298.	4.0	19
46	Toward the Systematic Decomposition of Benzene. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7170-7172.	13.8	18
47	Photoelectron Spectroscopy Study of Quinonimides. <i>Journal of the American Chemical Society</i> , 2017, 139, 11138-11148.	13.7	18
48	Photoelectron spectroscopy of OH ⁻ (N ₂ O) _{n=1-5} . <i>Journal of Chemical Physics</i> , 1998, 108, 830-837.	3.0	17
49	Formation and Decomposition of Hydroxysiliconates in the Gas Phase. <i>Organometallics</i> , 2004, 23, 2573-2582.	2.3	17
50	Modeling the Competitive Dissociation of Protonated 2,3-Butanedione. The Enthalpy of Formation of Methylhydroxycarbene. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2183-2189.	2.5	17
51	Experimental Investigation of the Absolute Enthalpies of Formation of 2,3-, 2,4-, and 3,4-Pyridynes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10353-10362.	2.5	17
52	Dehydrocyclooctatetraene. Photoelectron Spectroscopy of the C ₈ H ₆ Anion. <i>Journal of the American Chemical Society</i> , 1997, 119, 7772-7777.	13.7	16
53	Gas-phase negative ion chemistry of molecular fluorine. Synthesis of distonic radical anions and related species. <i>International Journal of Mass Spectrometry</i> , 1998, 179-180, 173-183.	1.5	16
54	Reactivity and Structure of the 5-Dehydro-m-xylene Anion. <i>Journal of Organic Chemistry</i> , 2004, 69, 5735-5741.	3.2	16

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55	A computational study of the hydride affinities of Group I and Group II metals. <i>International Journal of Mass Spectrometry</i> , 2000, 195-196, 319-325.	1.5	15
56	Studies of the Electron-Promoted Cope Cyclization of 2,5-Phenyl-Substituted 1,5-Hexadiene Radical Anions. <i>Journal of Organic Chemistry</i> , 2007, 72, 494-501.	3.2	15
57	Investigation of the Electronic Structure of Aryl-Bridged Dinuclear U(III) and U(IV) Compounds. <i>Organometallics</i> , 2019, 38, 1031-1040.	2.3	14
58	Gas-phase ion chemistry and ion thermochemistry of phenyltrifluorosilane. <i>International Journal of Mass Spectrometry</i> , 2003, 227, 303-314.	1.5	13
59	Dissociation of chloride from ortho-, meta- and para-chloromethylphenoxides: The enthalpy of formation of meta-quinomethane. <i>International Journal of Mass Spectrometry</i> , 2007, 267, 277-283.	1.5	13
60	Fluorotrimethylsilane affinities of anionic nucleophiles: A study of fluoride-induced desilylation. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 697-707.	2.8	12
61	Benzoylnitrene radical anion: A new reagent for the generation of M-2H anions. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2014-2016.	2.8	12
62	Anionic Substituent Control of the Electronic Structure of Aromatic Nitrenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 683-690.	13.7	12
63	Structure and Reactivity of Benzoylnitrene Radical Anion in the Gas Phase. <i>Journal of Organic Chemistry</i> , 2007, 72, 9518-9522.	3.2	11
64	Reaction of the Butadiene Cation with Ethylene in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10550-10553.	2.5	10
65	Thermochemical Studies of Benzoylnitrene Radical Anion: The N-H Bond Dissociation Energy in Benzamide in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10712-10716.	2.5	10
66	Nucleophilic Addition to Singlet Diradicals: Heterosymmetric Diradicals. <i>Journal of Organic Chemistry</i> , 2018, 83, 12397-12403.	3.2	10
67	Organic gas-phase ion chemistry. <i>Annual Reports on the Progress of Chemistry Section B</i> , 2003, 99, 420.	0.9	9
68	Nucleophilic Addition to Singlet Diradicals: Homosymmetric Diradicals. <i>Journal of Organic Chemistry</i> , 2018, 83, 12390-12396.	3.2	9
69	The structure of ionized 1,5 hexadiene in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 840-845.	2.8	6
70	The energetics of nitric oxide generation upon protonation of diazeniumdiolates. <i>International Journal of Mass Spectrometry</i> , 2003, 222, 269-279.	1.5	6
71	Organic gas-phase ion chemistry. <i>Annual Reports on the Progress of Chemistry Section B</i> , 2005, 101, 305.	0.9	6
72	In situ generation of HCN for mass spectrometric studies. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 51-55.	2.8	6

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73	Singlet stabilization of oxazole- and isoxazolenitrene-n-oxides by radical delocalization. Computational and Theoretical Chemistry, 2013, 1020, 180-186.	2.5	5
74	Mass spectrometric study of the decomposition pathways of canonical amino acids and lactones in the gas phase. Journal of Physical Organic Chemistry, 2015, 28, 635-644.	1.9	5
75	Organic gas-phase ion chemistry. Annual Reports on the Progress of Chemistry Section B, 2004, 100, 377-405.	0.9	4
76	Collision-induced dissociation studies of protonated ether (H ₂ O) _n (n = 1–3) clusters. Journal of Mass Spectrometry, 2006, 41, 242-247.	1.6	4
77	Thermochemical studies of substituted phenylnitrenes: Enthalpies of formation of chlorophenylnitrenes. Journal of Chemical Thermodynamics, 2014, 73, 213-217.	2.0	4
78	Infrared spectroscopic confirmation of lactone formation in the dissociation of a gaseous amino acid. Journal of Physical Organic Chemistry, 2017, 30, e3606.	1.9	4
79	Mass spectrometric detection of the Gibbs reaction for phenol analysis. Journal of Mass Spectrometry, 2018, 53, 947-953.	1.6	3
80	The low-lying triplet state in p-nitrobenzaldimide. International Journal of Mass Spectrometry, 2015, 377, 496-501.	1.5	2
81	Reactivity of 3- and 4-pyridinylnitrene-n-oxide radical anions. International Journal of Mass Spectrometry, 2015, 378, 69-75.	1.5	2
82	Participation of C-H Protons in the Dissociation of a Proton Deficient Dipeptide. Journal of the American Society for Mass Spectrometry, 2017, 28, 1313-1323.	2.8	2
83	Studies of the Thermochemical Properties of Reactive Intermediates by Mass Spectrometric Methods. , 0, , 207-246.		1
84	Fluoride affinities of fluorinated alanes. International Journal of Mass Spectrometry, 2011, 299, 9-12.	1.5	1
85	Mass spectrometry studies of nitrene anions. Mass Spectrometry Reviews, 2023, 42, 1604-1624.	5.4	1
86	Cover Picture: 5-Dehydro-1,3-quinodimethane: A Hydrocarbon with an Open-Shell Doublet Ground State (Angew. Chem. Int. Ed. 6/2004). Angewandte Chemie - International Edition, 2004, 43, 647-647.	13.8	0
87	Toward the Systematic Decomposition of Benzene. ChemInform, 2006, 37, no.	0.0	0
88	Investigation of the Substituent Effects of the Azide Functional Group Using the Gas-Phase Acidities of 3- and 4-Azidophenols. Journal of Organic Chemistry, 2022, 87, 985-992.	3.2	0