

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	Mass spectrometry studies of nitrene anions. <i>Mass Spectrometry Reviews</i> , 2023, 42, 1604-1624.	5.4	1
2	Investigation of the Substituent Effects of the Azide Functional Group Using the Gas-Phase Acidities of 3- and 4-Azidophenols. <i>Journal of Organic Chemistry</i> , 2022, 87, 985-992.	3.2	0
3	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
4	Nucleophilic Addition to Singlet Diradicals: Homosymmetric Diradicals. <i>Journal of Organic Chemistry</i> , 2018, 83, 12390-12396.	3.2	9
5	Nucleophilic Addition to Singlet Diradicals: Heterosymmetric Diradicals. <i>Journal of Organic Chemistry</i> , 2018, 83, 12397-12403.	3.2	10
6	Mass spectrometric detection of the Gibbs reaction for phenol analysis. <i>Journal of Mass Spectrometry</i> , 2018, 53, 947-953.	1.6	3
7	Photoelectron Spectroscopy Study of Quinonimides. <i>Journal of the American Chemical Society</i> , 2017, 139, 11138-11148.	13.7	18
8	Participation of C-H Protons in the Dissociation of a Proton Deficient Dipeptide. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1313-1323.	2.8	2
9	Infrared spectroscopic confirmation of β -lactone formation in the dissociation of a gaseous amino acid. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3606.	1.9	4
10	Mass spectrometric study of the decomposition pathways of canonical amino acids and β -lactones in the gas phase. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 635-644.	1.9	5
11	The low-lying triplet state in p-nitrobenzaldimide. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 496-501.	1.5	2
12	Reactivity of 3- and 4-pyridynyl nitrene-n-oxide radical anions. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 69-75.	1.5	2
13	Thermochemical studies of substituted phenylnitrenes: Enthalpies of formation of chlorophenylnitrenes. <i>Journal of Chemical Thermodynamics</i> , 2014, 73, 213-217.	2.0	4
14	Singlet stabilization of oxazole- and isoxazolenitrene-n-oxides by radical delocalization. <i>Computational and Theoretical Chemistry</i> , 2013, 1020, 180-186.	2.5	5
15	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
16	Spin-State Dependent Radical Stabilization in Nitrenes: The Unusually Small Singlet-Triplet Splitting in 2-Furanylnitrene. <i>Journal of Organic Chemistry</i> , 2012, 77, 208-214.	3.2	23
17	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
18	Fluoride affinities of fluorinated alanes. <i>International Journal of Mass Spectrometry</i> , 2011, 299, 9-12.	1.5	1

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19	Thermochemical Properties of the Benzyne. Australian Journal of Chemistry, 2010, 63, 1091.	0.9	29
20	Photoelectron Spectroscopy of Chloro-Substituted Phenylnitrene Anions. Journal of Physical Chemistry A, 2009, 113, 9467-9473.	2.5	32
21	The Curtin-Hammett Principle in Mass Spectrometry. Accounts of Chemical Research, 2009, 42, 1480-1488.	15.6	28
22	Structure, vibrational frequencies, ionization energies, and photoelectron spectrum of the para-benzyne radical anion. Theoretical Chemistry Accounts, 2008, 120, 45-58.	1.4	24
23	Structure and Reactivity of Benzoylnitrene Radical Anion in the Gas Phase. Journal of Organic Chemistry, 2007, 72, 9518-9522.	3.2	11
24	Regioselectivity of Pyridine Deprotonation in the Gas Phase. Journal of Organic Chemistry, 2007, 72, 1645-1651.	3.2	25
25	Studies of the Electron-Promoted Cope Cyclization of 2,5-Phenyl-Substituted 1,5-Hexadiene Radical Anions. Journal of Organic Chemistry, 2007, 72, 494-501.	3.2	15
26	Bonding and Electronic Structure of XeF ₃ ⁻ . Journal of the American Chemical Society, 2007, 129, 846-852.	13.7	29
27	Benzoylnitrene radical anion: A new reagent for the generation of M-2H anions. Journal of the American Society for Mass Spectrometry, 2007, 18, 2014-2016.	2.8	12
28	Thermochemical Studies of Benzoylnitrene Radical Anion: The N-H Bond Dissociation Energy in Benzamide in the Gas Phase. Journal of Physical Chemistry A, 2007, 111, 10712-10716.	2.5	10
29	Dissociation of chloride from ortho-, meta- and para-chloromethylphenoxides: The enthalpy of formation of meta-quinomethane. International Journal of Mass Spectrometry, 2007, 267, 277-283.	1.5	13
30	Gas-phase hydride affinities of neutral molecules. International Journal of Mass Spectrometry, 2006, 257, 1-11.	1.5	35
31	In situ generation of HCN for mass spectrometric studies. Journal of the American Society for Mass Spectrometry, 2006, 17, 51-55.	2.8	6
32	Toward the Systematic Decomposition of Benzene. ChemInform, 2006, 37, no.	0.0	0
33	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
34	The negative ion chemistry of nitric oxide in the gas phase. Mass Spectrometry Reviews, 2006, 25, 112-126.	5.4	21
35	Fluorotrimethylsilane affinities of anionic nucleophiles: A study of fluoride-induced desilylation. Journal of the American Society for Mass Spectrometry, 2005, 16, 697-707.	2.8	12
36	Toward the Systematic Decomposition of Benzene. Angewandte Chemie - International Edition, 2005, 44, 7170-7172.	13.8	18

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37	12 Organic gas-phase ion chemistry. Annual Reports on the Progress of Chemistry Section B, 2005, 101, 305.	0.9	6
38	Modeling the Competitive Dissociation of Protonated 2,3-Butanedione. The Enthalpy of Formation of Methylhydroxycarbene. Journal of Physical Chemistry A, 2005, 109, 2183-2189.	2.5	17
39	The Binding Energy and Bonding in Dialane. Journal of the American Chemical Society, 2005, 127, 11684-11689.	13.7	38
40	5-Dehydro-1,3-quinodimethane: A Hydrocarbon with an Open-Shell Doublet Ground State. Angewandte Chemie - International Edition, 2004, 43, 742-745.	13.8	58
41	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
42	Reactivity and Structure of the 5-Dehydro-m-xylene Anion. Journal of Organic Chemistry, 2004, 69, 5735-5741.	3.2	16
43	14 Organic gas-phase ion chemistry. Annual Reports on the Progress of Chemistry Section B, 2004, 100, 377-405.	0.9	4
44	Formation and Decomposition of Hydroxysiliconates in the Gas Phase. Organometallics, 2004, 23, 2573-2582.	2.3	17
45	Water Dimer Proton Affinity from the Kinetic Method: Dissociation Energy of the Water Dimer. European Journal of Mass Spectrometry, 2004, 10, 837-845.	1.0	62
46	The energetics of nitric oxide generation upon protonation of diazeniumdiolates. International Journal of Mass Spectrometry, 2003, 222, 269-279.	1.5	6
47	Gas-phase ion chemistry and ion thermochemistry of phenyltrifluorosilane. International Journal of Mass Spectrometry, 2003, 227, 303-314.	1.5	13
48	An Electron-Catalyzed Cope Cyclization. The Structure of the 2,5-Dicyano-1,5-hexadiene Radical Anion in the Gas Phase. Journal of the American Chemical Society, 2003, 125, 10796-10797.	13.7	22
49	Bond Dissociation Energy and Lewis Acidity of the Xenon Fluoride Cation. Inorganic Chemistry, 2003, 42, 4293-4298.	4.0	19
50	12 Organic gas-phase ion chemistry. Annual Reports on the Progress of Chemistry Section B, 2003, 99, 420.	0.9	9
51	Photoelectron spectroscopy of HCCN ⁺ and HCNC ⁺ reveals the quasilinear triplet carbenes, HCCN and HCNC. Journal of Chemical Physics, 2002, 117, 4323-4339.	3.0	52
52	Reaction of the Butadiene Cation with Ethylene in the Gas Phase. Journal of Physical Chemistry A, 2002, 106, 10550-10553.	2.5	10
53	Is the 1,3,5-Tridehydrobenzene Triradical a Cyclopropenyl Radical Analogue?. Journal of the American Chemical Society, 2002, 124, 12612-12618.	13.7	49
54	Triradical Thermochemistry from Collision-Induced Dissociation Threshold Energy Measurements. The Heat of Formation of 1,3,5-Trimethylenebenzene. Journal of the American Chemical Society, 2001, 123, 12311-12317.	13.7	31

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55	The structure of ionized 1,5 hexadiene in the gas phase. Journal of the American Society for Mass Spectrometry, 2001, 12, 840-845.	2.8	6
56	Determination of the electron affinities of α - and β -naphthyl radicals using the kinetic method with full entropy analysis. The C-H bond dissociation energies of naphthalene. Journal of Mass Spectrometry, 2001, 36, 607-615.	1.6	33
57	A computational study of the hydride affinities of Group I and Group II metals. International Journal of Mass Spectrometry, 2000, 195-196, 319-325.	1.5	15
58	Determination of the proton affinities of bromo- and iodoacetonitrile using the kinetic method with full entropy analysis. Journal of the American Society for Mass Spectrometry, 2000, 11, 601-605.	2.8	28
59	Experimental Enthalpy of Formation of Isonitrile from Collision-Induced Dissociation Threshold Energy Measurements. Journal of Physical Chemistry A, 2000, 104, 5612-5616.	2.5	24
60	A Density Functional Molecular Orbital Study of the C ₂ ⁺ C ₇ and C ₂ ⁺ C ₆ Cyclization Pathways of 1,2,4-Heptatrien-6-yne. The Role of Benzannulation. Journal of the American Chemical Society, 2000, 122, 9265-9270.	13.7	53
61	Synthesis, Characterization, and Reactivity of the m-Xylylene Anion in the Gas Phase. The Enthalpy of Formation of m-Xylylene. Journal of the American Chemical Society, 2000, 122, 11203-11211.	13.7	32
62	Negative Ion Photoelectron Spectroscopy Studies of Organic Reactive Intermediates. Accounts of Chemical Research, 1999, 32, 597-604.	15.6	94
63	Ultraviolet Photoelectron Spectroscopy of o-, m-, and p-Halobenzyl Anions. Journal of Physical Chemistry A, 1999, 103, 10833-10841.	2.5	21
64	Gas-phase reactions of the benzyne negative ions. Journal of Mass Spectrometry, 1998, 33, 796-802.	1.6	29
65	Gas-phase negative ion chemistry of molecular fluorine. Synthesis of distonic radical anions and related species. International Journal of Mass Spectrometry, 1998, 179-180, 173-183.	1.5	16
66	Gas-phase acidities of o-, m- and p-dehydrobenzoic acid radicals. Determination of the substituent constants for a phenyl radical site. International Journal of Mass Spectrometry and Ion Processes, 1998, 175, 215-224.	1.8	23
67	Properties of tetramethyleneethane (TME) as revealed by ion chemistry and ion photoelectron spectroscopy. Journal of the Chemical Society Perkin Transactions II, 1998, , 1015-1022.	0.9	55
68	Ultraviolet Photoelectron Spectroscopy of the o-, m-, and p-Benzyne Negative Ions. Electron Affinities and Singlet-Triplet Splittings for o-, m-, and p-Benzyne. Journal of the American Chemical Society, 1998, 120, 5279-5290.	13.7	311
69	Properties of Diazocarbene [CNN] and the Diazomethyl Radical [HCNN] via Ion Chemistry and Spectroscopy. Journal of Physical Chemistry A, 1998, 102, 7100-7112.	2.5	69
70	Photoelectron spectroscopy of OH ⁻ (N ₂ O) _{n=1-5} . Journal of Chemical Physics, 1998, 108, 830-837.	3.0	17
71	Photoelectron spectroscopy, gas phase acidity, and thermochemistry of tert-butyl hydroperoxide: Mechanisms for the rearrangement of peroxy radicals. Journal of Chemical Physics, 1998, 109, 10293-10310.	3.0	71
72	Ultraviolet photoelectron spectroscopy of the chromium dioxide negative ion. Journal of Chemical Physics, 1997, 106, 9961-9962.	3.0	40

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73	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
74	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
75	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
76	Photoelectron Spectroscopy of m-Xylylene Anion. <i>Journal of the American Chemical Society</i> , 1997, 119, 1354-1359.	13.7	123
77	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
78	o-,m-, and p-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
79	Photoelectron Spectroscopy of the Allyl and 2-Methylallyl Anions. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6920-6926.	2.9	53
80	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
81	Bond Dissociation Energies of F ₂ - and HF ₂ -. A Gas-Phase Experimental and G ₂ Theoretical Study. <i>The Journal of Physical Chemistry</i> , 1995, 99, 2002-2005.	2.9	151
82	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
83	Experimental and Theoretical Studies of the Mechanism and Thermochemistry of Formation of α ,n-Dehydrotoluene Biradicals from Gas-Phase Halide Elimination Reactions. <i>Journal of the American Chemical Society</i> , 1994, 116, 7378-7392.	13.7	83
84	Regioselective Synthesis of Biradical Negative Ions in the Gas Phase. Generation of Trimethylenemethane, m-Benzyne, and p-Benzyne Anions. <i>Journal of the American Chemical Society</i> , 1994, 116, 6961-6962.	13.7	89
85	Biradical Thermochemistry from Collision-Induced Dissociation Threshold Energy Measurements. Absolute Heats of Formation of ortho-, meta-, and para-Benzyne. <i>Journal of the American Chemical Society</i> , 1994, 116, 6401-6412.	13.7	186
86	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
87	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
88	Studies of the Thermochemical Properties of Reactive Intermediates by Mass Spectrometric Methods. , 0, , 207-246.		1