Kent M Ervin

List of Publications by Year
in descending order

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84 papers	7,226 citations	57631 44 h-index	54797 84 g-index
86 all docs	86 docs citations	86 times ranked	3585 citing authors

#	Article	IF	Citations
1	Radical Thermometers, Thermochemistry, and Photoelectron Spectra: A Photoelectron Photoion Coincidence Spectroscopy Study of the Methyl Peroxy Radical. Journal of Physical Chemistry Letters, 2018, 9, 534-539.	2.1	39
2	Conformational Effects on Gas-Phase Acidities of Isomeric C₃ and C₅ Alkanols. Journal of Physical Chemistry A, 2018, 122, 7797-7807.	1.1	3
3	Anchoring the Gas-Phase Acidity Scale from Hydrogen Sulfide to Pyrrole. Experimental Bond Dissociation Energies of Nitromethane, Ethanethiol, and Cyclopentadiene. Journal of Physical Chemistry A, 2015, 119, 7169-7179.	1.1	11
4	Capture Collisions of Polyynide Anions with Hydrogen Atoms: Effect of the Ion Dipole, Quadrupole, and Anisotropic Polarizability. International Journal of Mass Spectrometry, 2015, 378, 48-53.	0.7	6
5	Energy-Resolved Collision-Induced Dissociation of Peroxyformate Anion: Enthalpies of Formation of Peroxyformic Acid and Peroxyformyl Radical. Journal of Physical Chemistry A, 2013, 117, 1021-1029.	1.1	3
6	Optimization of a quadrupole ion storage trap as a source for timeâ€ofâ€flight mass spectrometry. Journal of Mass Spectrometry, 2012, 47, 41-48.	0.7	4
7	Photoelectron spectra of dihalomethyl anions: Testing the limits of normal mode analysis. Journal of Chemical Physics, 2011, 134, 184306.	1.2	11
8	Pulsed ion extraction diagnostics in a quadrupole ion trap linear time-of-flight mass spectrometer. Review of Scientific Instruments, 2010, 81, 063302.	0.6	4
9	Low-energy photoelectron imaging spectroscopy of nitromethane anions: Electron affinity, vibrational features, anisotropies, and the dipole-bound state. Journal of Chemical Physics, 2009, 130, 074307.	1.2	47
10	Fluorescence and photodissociation of rhodamine 575 cations in a quadrupole ion trap. Journal of the American Society for Mass Spectrometry, 2009, 20, 96-104.	1.2	30
11	The photoelectron spectrum of CCl2â¯: the convergence of theory and experiment after a decade of debate. Physical Chemistry Chemical Physics, 2009, 11, 4745.	1.3	29
12	Statistical Rate Theory and Kinetic Energy-Resolved Ion Chemistry: Theory and Applications. Journal of Physical Chemistry A, 2008, 112, 10071-10085.	1.1	110
13	Threshold Collision-Induced Dissociation of Hydrogen-Bonded Dimers of Carboxylic Acids. Journal of Physical Chemistry A, 2008, 112, 1773-1782.	1.1	26
14	Hydrogen Atom Transfer Reactions of C₂⁻, C₄⁻, and C₆⁻:â€‰ Bond Dissociation Energies of Linear Hâ¯C₂_n⁻ and Hâ¯C₂_n (n = 1, 2, 3). Journal of Physical Chemistry A, 2008, 112, 1261-1267.	1.1	4
15	Photodissociation and collisional cooling of rhodamine 575 cations in a quadrupole ion trap. Journal of Chemical Physics, 2008, 128, 234305.	1.2	13
16	Collision-Induced Dissociation of HS-(HCN):Â Unsymmetrical Hydrogen Bonding in a Proton-Bound Dimer Anionâ€. Journal of Physical Chemistry A, 2006, 110, 1342-1349.	1.1	13
17	Gas-Phase Acidities and Oâ¯H Bond Dissociation Enthalpies of Phenol, 3-Methylphenol, 2,4,6-Trimethylphenol, and Ethanoic Acid. Journal of Physical Chemistry A, 2006, 110, 10392-10403.	1.1	50
18	Photoelectron spectroscopy of phosphorus hydride anions. Journal of Chemical Physics, 2005, 122, 194303.	1.2	22

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19	Threshold collision-induced dissociation of diatomic molecules: A case study of the energetics and dynamics of O2â˙ collisions with Ar and Xe. Journal of Chemical Physics, 2005, 123, 064308.	1.2	6
20	Systematic and random errors in ion affinities and activation entropies from the extended kinetic method. Journal of Mass Spectrometry, 2004, 39, 1004-1015.	0.7	77
21	Competitive Threshold Collision-Induced Dissociation:Â Gas-Phase Acidity and Oâ˙H Bond Dissociation Enthalpy of Phenol. Journal of Physical Chemistry A, 2004, 108, 8346-8352.	1.1	41
22	Gas-Phase Reactions of the Iodide Ion with Chloromethane and Bromomethane:Â Competition between Nucleophilic Displacement and Halogen Abstractionâ€. Journal of Physical Chemistry A, 2004, 108, 9827-9833.	1.1	25
23	Gas-Phase SN2 and Bromine Abstraction Reactions of Chloride Ion with Bromomethane:Â Reaction Cross Sections and Energy Disposal into Products. Journal of the American Chemical Society, 2003, 125, 1014-1027.	6.6	65
24	The Only Stable State of O2-Is the X2ÎgGround State and It (Still!) Has an Adiabatic Electron Detachment Energy of 0.45 eV. Journal of Physical Chemistry A, 2003, 107, 8521-8529.	1.1	240
25	Gas-phase hydrogen atom abstraction reactions of Sâ˙ with H2, CH4, and C2H6. Journal of Chemical Physics, 2003, 119, 8996-9007.	1.2	8
26	Dynamics of the Gas-Phase Reactions of Chloride Ion with Fluoromethane:â€‰ High Excess Translational Activation Energy for an Endothermic SN2 Reaction. Journal of the American Chemical Society, 2002, 124, 336-345.	6.6	34
27	Anchoring the Gas-Phase Acidity Scaleâ€. Journal of Physical Chemistry A, 2002, 106, 9947-9956.	1.1	190
28	Microcanonical analysis of the kinetic method. The meaning of the â€œapparent entropyâ€• Journal of the American Society for Mass Spectrometry, 2002, 13, 435-452.	1.2	75
29	Experimental Techniques in Gas-Phase Ion Thermochemistry. Chemical Reviews, 2001, 101, 391-444.	23.0	222
30	Dynamics of the Gas-Phase Reactions of Fluoride Ions with Chloromethane. Journal of Physical Chemistry A, 2001, 105, 4042-4051.	1.1	66
31	Naphthyl Radical:â€‰ Negative Ion Photoelectron Spectroscopy, Franckâ˙Condon Simulation, and Thermochemistry. Journal of Physical Chemistry A, 2001, 105, 10822-10831.	1.1	128
32	Metal-ligand interactions: Gas-phase transition metal cluster carbonyls. International Reviews in Physical Chemistry, 2001, 20, 127-164.	0.9	79
33	Photodesorption of carbonyl from Pt3(CO)nâ˙ (n = 1â€“6). International Journal of Mass Spectrometry, 2001, 204, 197-208.	0.7	8
34	Microcanonical analysis of the kinetic method.. International Journal of Mass Spectrometry, 2000, 195-196, 271-284.	0.7	68
35	Time-resolved photodissociation and threshold collision-induced dissociation of anionic gold clusters. Chemical Physics, 2000, 262, 75-91.	0.9	44
36	Gas-phase acidity and Câ€“H bond energy of diacetylene. Chemical Physics Letters, 2000, 318, 149-154.	1.2	22

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37	Collisional activation of the endoergic hydrogen atom transfer reaction Sâ˜'(2P)+H2â†'SHâ˜'+H. Journal of Chemical Physics, 2000, 112, 4579-4590.	1.2	23
38	Threshold collision-induced dissociation of anionic copper clusters and copper cluster monocarbonyls. Journal of Chemical Physics, 2000, 112, 1713-1720.	1.2	112
39	Measurement of the dissociation energies of anionic silver clusters (Agnâ˜', n=2â€"11) by collision-induced dissociation. Journal of Chemical Physics, 1999, 110, 5208-5217.	1.2	67
40	Competitive fragmentation and electron loss kinetics of photoactivated silver cluster anions: Dissociation energies of Agnâ˜' (n=7â€"11). Journal of Chemical Physics, 1999, 111, 938-949.	1.2	50
41	Orientational effects in the direct Clâ˜' + CH3Cl SN2 reaction at elevated collision energies: hard-ovoid line-of-centers collision model. International Journal of Mass Spectrometry, 1999, 185-187, 343-350.	0.7	18
42	Competitive Threshold Collision-Induced Dissociation:â€‰ Gas-Phase Acidities and Bond Dissociation Energies for a Series of Alcohols. Journal of Physical Chemistry A, 1999, 103, 6911-6920.	1.1	94
43	Dynamics of Endoergic Bimolecular Proton Transfer Reactions:Â F-+ ROH â†' HF + RO-(R = H, CH3, CH3CH2,) Tj ETQq1 1 0.784314 rgBT	1.1	23
44	Proton transfer between Clâ˜' and C6H5OH. Oî—¸H bond energy of phenol. International Journal of Mass Spectrometry and Ion Processes, 1998, 175, 123-132.	1.9	35
45	Binding energies of palladium carbonyl cluster anions: Collision-induced dissociation of Pd3(CO)nâ˜' (n=0â€"6). Journal of Chemical Physics, 1998, 109, 5344-5350.	1.2	44
46	Catalytic oxidation of carbon monoxide by platinum cluster anions. Journal of Chemical Physics, 1998, 108, 1757-1760.	1.2	125
47	Statistical modeling of collision-induced dissociation thresholds. Journal of Chemical Physics, 1997, 106, 4499-4508.	1.2	441
48	Translational Activation of the SN2 Nucleophilic Displacement Reactions Cl-+ CH3Cl (CD3Cl) â†' ClCH3(ClCD3) + Cl-:Â A Guided Ion Beam Study. Journal of Physical Chemistry A, 1997, 101, 5969-5986.	1.1	119
49	Reactions of Cobalt Cluster Anions with Oxygen, Nitrogen, and Carbon Monoxide. Journal of Physical Chemistry A, 1997, 101, 8460-8469.	1.1	45
50	Ligand and metal binding energies in platinum carbonyl cluster anions: Collision-induced dissociation of Ptmâ˜' and Ptm(CO)nâ˜'. Journal of Chemical Physics, 1997, 106, 9580-9593.	1.2	69
51	Reactivity of niobium cluster anions with nitrogen and carbon monoxide. International Journal of Mass Spectrometry and Ion Processes, 1997, 161, 161-174.	1.9	26
52	Models for statistical decomposition of metal clusters: Decay on multiple electronic states. Journal of Chemical Physics, 1996, 104, 8470-8484.	1.2	10
53	Models for statistical decomposition of metal clusters: Vibrational frequency distributions. Journal of Chemical Physics, 1996, 104, 8458-8469.	1.2	42
54	Chemisorption and oxidation reactions of nickel group cluster anions with N2, O2, CO2, and N2O. Journal of Chemical Physics, 1995, 103, 7897-7906.	1.2	78

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55	Binding Energies of Terminal and Bridging Carbonyls in Pt3(CO)6-. Journal of the American Chemical Society, 1995, 117, 11612-11613.	6.6	38
56	Reactions of Copper Group Cluster Anions with Oxygen and Carbon Monoxide. The Journal of Physical Chemistry, 1994, 98, 10023-10031.	2.9	211
57	Nickel group cluster anion reactions with carbon monoxide: Rate coefficients and chemisorption efficiency. Journal of Chemical Physics, 1994, 100, 5715-5725.	1.2	47
58	Photoelectron spectroscopy of nickel group dimers: Niâ^'2, Pdâ^'2, and Ptâ^'2. Journal of Chemical Physics, 1993, 99, 8542-8551.	1.2	137
59	Photoelectron spectroscopy of the monofluorovinylidene and difluorovinylidene anions: the monofluorovinylidene-fluoroacetylene rearrangement. Journal of the American Chemical Society, 1993, 115, 1031-1038.	6.6	48
60	Chemisorption of carbon monoxide on platinum cluster anions. Journal of Chemical Physics, 1993, 99, 3575-3587.	1.2	29
61	Negative ion photoelectron spectroscopy of halocarbene anions (HCF-, HCCl-, HCBr-, and HCI-); photoelectron angular distributions and neutral triplet excitation energies. The Journal of Physical Chemistry, 1992, 96, 1130-1141.	2.9	123
62	Reactions of tin and lead cluster anions with oxygen. Chemical Physics Letters, 1992, 198, 229-235.	1.2	14
63	The ultraviolet photoelectron spectrum of SOâ^'. Journal of Chemical Physics, 1991, 94, 6926-6927.	1.2	18
64	Photoelectron spectra of dicarbon(1-) and ethynyl(1-). The Journal of Physical Chemistry, 1991, 95, 1167-1177.	2.9	168
65	A study of the electronic structures of Pdâ^'2 and Pd2 by photoelectron spectroscopy. Journal of Chemical Physics, 1991, 95, 4845-4853.	1.2	70
66	Photoelectron spectroscopy of metal cluster anions: Cuâ^'n, Agâ^'n, and Auâ^'n. Journal of Chemical Physics, 1990, 93, 6987-7002.	1.2	553
67	Bond strengths of ethylene and acetylene. Journal of the American Chemical Society, 1990, 112, 5750-5759.	6.6	387
68	Spinâ€"orbit stateâ€selected reactions of Xe+(2P3/2 and 2P1/2) with H2, D2, and HD. Journal of Chemical Physics, 1989, 90, 118-126.	1.2	31
69	A study of the singlet and triplet states of vinylidene by photoelectron spectroscopy of H2C=Câ^', D2C=Câ^', and HDC=Câ^'. Vinylideneâ€"acetylene isomerization. Journal of Chemical Physics, 1989, 91, 5974-5992.	1.2	369
70	NH2electron affinity. Journal of Chemical Physics, 1989, 91, 2762-2763.	1.2	61
71	Ultraviolet photoelectron spectrum of nitrite anion. The Journal of Physical Chemistry, 1988, 92, 5405-5412.	2.9	242
72	Electronic and vibrational structure of transition metal trimers: Photoelectron spectra of Niâ^'3, Pdâ^'3, and Ptâ^'3. Journal of Chemical Physics, 1988, 89, 4514-4521.	1.2	138

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73	Translational energy dependence of O+(4S)+N2â†'NO++N from thermal energies to 30 eV c.m.. Journal of Chemical Physics, 1987, 86, 1944-1953.	1.2	59
74	Hydrogen atom transfer reactions of He+ and Ne+ with H2, D2, and HD. Journal of Chemical Physics, 1987, 86, 6240-6250.	1.2	31
75	Energy dependence, kinetic isotope effects, and thermochemistry of the nearly thermoneutral reactions N+(3P)+H2(HD,D2)â†'NH+(ND+)+H(D). Journal of Chemical Physics, 1987, 86, 2659-2673.	1.2	92
76	Translational energy dependence of O+(4S) + H2(D2, HD) â†' OH+(OD+) + H(D) from thermal energies to 30 eV c.m.. International Journal of Mass Spectrometry and Ion Processes, 1987, 80, 153-175.	1.9	98
77	C+(2P)+H2(D2,HD)â†'CH+(CD+)+H(D). I. Reaction cross sections and kinetic isotope effects from threshold to 15 eV c.m.. Journal of Chemical Physics, 1986, 84, 6738-6749.	1.2	72
78	C+(2P)+H2(D2,HD)â†'CH+(CD+)+H(D). II. Statistical phase space theory. Journal of Chemical Physics, 1986, 84, 6750-6760.	1.2	47
79	Spinâ€orbit stateâ€selected reactions of Kr+(2P3/2and2P1/2) with H2, D2, and HD from thermal energies to 20 eV c.m.. Journal of Chemical Physics, 1986, 85, 6380-6395.	1.2	43
80	Translational energy dependence of Ar++XYâ†'ArX++Y (XY=H2,D2,HD) from thermal to 30 eVâ€‰c.m.. Journal of Chemical Physics, 1985, 83, 166-189.	1.2	753
81	Threshold behavior of endothermic reactions: C+(2P)+H2â€‰â†'â€‰CH++H. Journal of Chemical Physics, 1984, 80, 2978-2980.	1.2	36
82	Infrared spectra of matrix-isolated tungsten oxides. Journal of Molecular Spectroscopy, 1981, 89, 145-158.	0.4	34
83	Anharmonicity and bond angle of matrix-isolated ozone. Journal of Molecular Spectroscopy, 1981, 88, 51-63.	0.4	26
84	Metal-ligand interactions: Gas-phase transition metal cluster carbonyls. , 0, .		1