

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
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86
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86
docs citations

86
times ranked

3585
citing authors

#	ARTICLE	IF	CITATIONS
1	Translational energy dependence of $\text{Ar}^{++}\text{XY}^{\dagger}\text{ArX}^{++}\text{Y}$ ($\text{XY}=\text{H}_2, \text{D}_2, \text{HD}$) from thermal to 30 eV \AA^{-1} . Journal of Chemical Physics, 1985, 83, 166-189.	1.2	753
2	Photoelectron spectroscopy of metal cluster anions: $\text{Cu}^{\sim n}$, $\text{Ag}^{\sim n}$, and $\text{Au}^{\sim n}$. Journal of Chemical Physics, 1990, 93, 6987-7002.	1.2	553
3	Statistical modeling of collision-induced dissociation thresholds. Journal of Chemical Physics, 1997, 106, 4499-4508.	1.2	441
4	Bond strengths of ethylene and acetylene. Journal of the American Chemical Society, 1990, 112, 5750-5759.	6.6	387
5	A study of the singlet and triplet states of vinylidene by photoelectron spectroscopy of $\text{H}_2\text{C}=\text{C}^{\sim}$, $\text{D}_2\text{C}=\text{C}^{\sim}$, and $\text{HDC}=\text{C}^{\sim}$. Vinylidene \leftrightarrow acetylene isomerization. Journal of Chemical Physics, 1989, 91, 5974-5992.	1.2	369
6	Ultraviolet photoelectron spectrum of nitrite anion. The Journal of Physical Chemistry, 1988, 92, 5405-5412.	2.9	242
7	The Only Stable State of O_2 -Is the $X^2\text{g}$ Ground 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
8	Experimental Techniques in Gas-Phase Ion Thermochemistry. Chemical Reviews, 2001, 101, 391-444.	23.0	222
9	Reactions of Copper Group Cluster Anions with Oxygen and Carbon Monoxide. The Journal of Physical Chemistry, 1994, 98, 10023-10031.	2.9	211
10	Anchoring the Gas-Phase Acidity Scale \AA^{-1} . Journal of Physical Chemistry A, 2002, 106, 9947-9956.	1.1	190
11	Photoelectron spectra of dicarbon(1-) and ethynyl(1-). The Journal of Physical Chemistry, 1991, 95, 1167-1177.	2.9	168
12	Electronic and vibrational structure of transition metal trimers: Photoelectron spectra of $\text{Ni}^{\sim 3}$, $\text{Pd}^{\sim 3}$, and $\text{Pt}^{\sim 3}$. Journal of Chemical Physics, 1988, 89, 4514-4521.	1.2	138
13	Photoelectron spectroscopy of nickel group dimers: $\text{Ni}^{\sim 2}$, $\text{Pd}^{\sim 2}$, and $\text{Pt}^{\sim 2}$. Journal of Chemical Physics, 1993, 99, 8542-8551.	1.2	137
14	Naphthyl Radical: \AA^{-1} Negative Ion Photoelectron Spectroscopy, Franck-Condon Simulation, and Thermochemistry. Journal of Physical Chemistry A, 2001, 105, 10822-10831.	1.1	128
15	Catalytic oxidation of carbon monoxide by platinum cluster anions. Journal of Chemical Physics, 1998, 108, 1757-1760.	1.2	125
16	Negative ion photoelectron spectroscopy of halocarbene anions (HCF^- , HCCl^- , HCB^- , and HCl^-); photoelectron angular distributions and neutral triplet excitation energies. The Journal of Physical Chemistry, 1992, 96, 1130-1141.	2.9	123
17	Translational Activation of the $\text{S}_{\text{N}}2$ Nucleophilic Displacement Reactions $\text{Cl}^+ \text{CH}_3\text{Cl}$ (CD_3Cl) \leftrightarrow ClCH_3 (ClCD_3) + Cl^- : A Guided Ion Beam Study. Journal of Physical Chemistry A, 1997, 101, 5969-5986.	1.1	119
18	Threshold collision-induced dissociation of anionic copper clusters and copper cluster monocarbonyls. Journal of Chemical Physics, 2000, 112, 1713-1720.	1.2	112

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19	Statistical Rate Theory and Kinetic Energy-Resolved Ion Chemistry: Theory and Applications. Journal of Physical Chemistry A, 2008, 112, 10071-10085.	1.1	110
20	Translational energy dependence of $O^+(4S) + H_2(D_2, HD) \rightarrow OH^+(OD^+) + H(D)$ from thermal energies to 30 eV c.m.. International Journal of Mass Spectrometry and Ion Processes, 1987, 80, 153-175.	1.9	98
21	Competitive Threshold Collision-Induced Dissociation: Gas-Phase Acidities and Bond Dissociation Energies for a Series of Alcohols. Journal of Physical Chemistry A, 1999, 103, 6911-6920.	1.1	94
22	Energy dependence, kinetic isotope effects, and thermochemistry of the nearly thermoneutral reactions $N^+(3P) + H_2(HD, D_2) \rightarrow NH^+(ND^+) + H(D)$. Journal of Chemical Physics, 1987, 86, 2659-2673.	1.2	92
23	Metal-ligand interactions: Gas-phase transition metal cluster carbonyls. International Reviews in Physical Chemistry, 2001, 20, 127-164.	0.9	79
24	Chemisorption and oxidation reactions of nickel group cluster anions with N_2 , O_2 , CO_2 , and N_2O . Journal of Chemical Physics, 1995, 103, 7897-7906.	1.2	78
25	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
26	Microcanonical analysis of the kinetic method. The meaning of the "apparent entropy". Journal of the American Society for Mass Spectrometry, 2002, 13, 435-452.	1.2	75
27	$C^+(2P) + H_2(D_2, HD) \rightarrow CH^+(CD^+) + H(D)$. 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
28	A study of the electronic structures of Pd^{+2} and Pd_2 by photoelectron spectroscopy. Journal of Chemical Physics, 1991, 95, 4845-4853.	1.2	70
29	Ligand and metal binding energies in platinum carbonyl cluster anions: Collision-induced dissociation of Ptm^{+} and $Ptm(CO)_n^{+}$. Journal of Chemical Physics, 1997, 106, 9580-9593.	1.2	69
30	Microcanonical analysis of the kinetic method.. International Journal of Mass Spectrometry, 2000, 195-196, 271-284.	0.7	68
31	Measurement of the dissociation energies of anionic silver clusters (Ag_n^{+} , $n=2-11$) by collision-induced dissociation. Journal of Chemical Physics, 1999, 110, 5208-5217.	1.2	67
32	Dynamics of the Gas-Phase Reactions of Fluoride Ions with Chloromethane. Journal of Physical Chemistry A, 2001, 105, 4042-4051.	1.1	66
33	Gas-Phase S_N2 and Bromine Abstraction Reactions of Chloride Ion with Bromomethane: Reaction Cross Sections and Energy Disposal into Products. Journal of the American Chemical Society, 2003, 125, 1014-1027.	6.6	65
34	NH_2 electron affinity. Journal of Chemical Physics, 1989, 91, 2762-2763.	1.2	61
35	Translational energy dependence of $O^+(4S) + N_2 \rightarrow NO^+ + N$ from thermal energies to 30 eV c.m.. Journal of Chemical Physics, 1987, 86, 1944-1953.	1.2	59
36	Competitive fragmentation and electron loss kinetics of photoactivated silver cluster anions: Dissociation energies of Ag_n^{+} ($n=7-11$). Journal of Chemical Physics, 1999, 111, 938-949.	1.2	50

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37	Gas-Phase Acidities and O-H Bond Dissociation Enthalpies of Phenol, 3-Methylphenol, 2,4,6-Trimethylphenol, and Ethanoic Acid. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10392-10403.	1.1	50
38	Photoelectron spectroscopy of the monofluorovinylidene and difluorovinylidene anions: the monofluorovinylidene-fluoroacetylene rearrangement. <i>Journal of the American Chemical Society</i> , 1993, 115, 1031-1038.	6.6	48
39	C+(2P)+H2(D2,HD)→CH+(CD+)+H(D). II. Statistical phase space theory. <i>Journal of Chemical Physics</i> , 1986, 84, 6750-6760.	1.2	47
40	Nickel group cluster anion reactions with carbon monoxide: Rate coefficients and chemisorption efficiency. <i>Journal of Chemical Physics</i> , 1994, 100, 5715-5725.	1.2	47
41	Low-energy photoelectron imaging spectroscopy of nitromethane anions: Electron affinity, vibrational features, anisotropies, and the dipole-bound state. <i>Journal of Chemical Physics</i> , 2009, 130, 074307.	1.2	47
42	Reactions of Cobalt Cluster Anions with Oxygen, Nitrogen, and Carbon Monoxide. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8460-8469.	1.1	45
43	Binding energies of palladium carbonyl cluster anions: Collision-induced dissociation of Pd3(CO)n ⁻ (n=0-6). <i>Journal of Chemical Physics</i> , 1998, 109, 5344-5350.	1.2	44
44	Time-resolved photodissociation and threshold collision-induced dissociation of anionic gold clusters. <i>Chemical Physics</i> , 2000, 262, 75-91.	0.9	44
45	Spin-orbit state-selected reactions of Kr+(2P3/2 and 2P1/2) with H2, D2, and HD from thermal energies to 20 eV c.m.. <i>Journal of Chemical Physics</i> , 1986, 85, 6380-6395.	1.2	43
46	Models for statistical decomposition of metal clusters: Vibrational frequency distributions. <i>Journal of Chemical Physics</i> , 1996, 104, 8458-8469.	1.2	42
47	Competitive Threshold Collision-Induced Dissociation: Gas-Phase Acidity and O-H Bond Dissociation Enthalpy of Phenol. <i>Journal of Physical Chemistry A</i> , 2004, 108, 8346-8352.	1.1	41
48	Radical Thermometers, Thermochemistry, and Photoelectron Spectra: A Photoelectron Photoion Coincidence Spectroscopy Study of the Methyl Peroxy Radical. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 534-539.	2.1	39
49	Binding Energies of Terminal and Bridging Carbonyls in Pt3(CO)6 ⁻ . <i>Journal of the American Chemical Society</i> , 1995, 117, 11612-11613.	6.6	38
50	Threshold behavior of endothermic reactions: C+(2P)+H2→CH+H. <i>Journal of Chemical Physics</i> , 1984, 80, 2978-2980.	1.2	36
51	Proton transfer between Cl ⁻ and C6H5OH. O-H bond energy of phenol. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998, 175, 123-132.	1.9	35
52	Infrared spectra of matrix-isolated tungsten oxides. <i>Journal of Molecular Spectroscopy</i> , 1981, 89, 145-158.	0.4	34
53	Dynamics of the Gas-Phase Reactions of Chloride Ion with Fluoromethane: High Excess Translational Activation Energy for an Endothermic SN2 Reaction. <i>Journal of the American Chemical Society</i> , 2002, 124, 336-345.	6.6	34
54	Hydrogen atom transfer reactions of He ⁺ and Ne ⁺ with H2, D2, and HD. <i>Journal of Chemical Physics</i> , 1987, 86, 6240-6250.	1.2	31

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55	Spin-orbit state-selected reactions of Xe+(2P _{3/2} and 2P _{1/2}) with H ₂ , D ₂ , and HD. Journal of Chemical Physics, 1989, 90, 118-126.	1.2	31
56	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
57	Chemisorption of carbon monoxide on platinum cluster anions. Journal of Chemical Physics, 1993, 99, 3575-3587.	1.2	29
58	The photoelectron spectrum of CCl ₂ ⁻ : the convergence of theory and experiment after a decade of debate. Physical Chemistry Chemical Physics, 2009, 11, 4745.	1.3	29
59	Anharmonicity and bond angle of matrix-isolated ozone. Journal of Molecular Spectroscopy, 1981, 88, 51-63.	0.4	26
60	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
61	Threshold Collision-Induced Dissociation of Hydrogen-Bonded Dimers of Carboxylic Acids. Journal of Physical Chemistry A, 2008, 112, 1773-1782.	1.1	26
62	Gas-Phase Reactions of the Iodide Ion with Chloromethane and Bromomethane: A Competition between Nucleophilic Displacement and Halogen Abstraction. Journal of Physical Chemistry A, 2004, 108, 9827-9833.	1.1	25
63	Dynamics of Endoergic Bimolecular Proton Transfer Reactions: F ⁻ + ROH → HF + RO ⁻ (R = H, CH ₃ , CH ₃ CH ₂). J. Phys. Chem. A, 2001, 105, 10784-10791.	1.1	23
64	Collisional activation of the endoergic hydrogen atom transfer reaction S ⁻ (2P) + H ₂ S → SH ⁻ + H. Journal of Chemical Physics, 2000, 112, 4579-4590.	1.2	23
65	Gas-phase acidity and C-H bond energy of diacetylene. Chemical Physics Letters, 2000, 318, 149-154.	1.2	22
66	Photoelectron spectroscopy of phosphorus hydride anions. Journal of Chemical Physics, 2005, 122, 194303.	1.2	22
67	The ultraviolet photoelectron spectrum of SO ⁻ . Journal of Chemical Physics, 1991, 94, 6926-6927.	1.2	18
68	Orientational effects in the direct Cl ⁻ + CH ₃ Cl S _N 2 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
69	Reactions of tin and lead cluster anions with oxygen. Chemical Physics Letters, 1992, 198, 229-235.	1.2	14
70	Collision-Induced Dissociation of HS ⁻ (HCN): A Unsymmetrical Hydrogen Bonding in a Proton-Bound Dimer Anion. Journal of Physical Chemistry A, 2006, 110, 1342-1349.	1.1	13
71	Photodissociation and collisional cooling of rhodamine 575 cations in a quadrupole ion trap. Journal of Chemical Physics, 2008, 128, 234305.	1.2	13
72	Photoelectron spectra of dihalomethyl anions: Testing the limits of normal mode analysis. Journal of Chemical Physics, 2011, 134, 184306.	1.2	11

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73	Anchoring the Gas-Phase Acidity Scale from Hydrogen Sulfide to Pyrrole. Experimental Bond Dissociation Energies of Nitromethane, Ethanethiol, and Cyclopentadiene. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7169-7179.	1.1	11
74	Models for statistical decomposition of metal clusters: Decay on multiple electronic states. <i>Journal of Chemical Physics</i> , 1996, 104, 8470-8484.	1.2	10
75	Photodesorption of carbonyl from Pt ₃ (CO) _n ⁺ (n = 1-6). <i>International Journal of Mass Spectrometry</i> , 2001, 204, 197-208.	0.7	8
76	Gas-phase hydrogen atom abstraction reactions of S ⁺ with H ₂ , CH ₄ , and C ₂ H ₆ . <i>Journal of Chemical Physics</i> , 2003, 119, 8996-9007.	1.2	8
77	Threshold collision-induced dissociation of diatomic molecules: A case study of the energetics and dynamics of O ₂ ⁺ collisions with Ar and Xe. <i>Journal of Chemical Physics</i> , 2005, 123, 064308.	1.2	6
78	Capture Collisions of Polyynide Anions with Hydrogen Atoms: Effect of the Ion Dipole, Quadrupole, and Anisotropic Polarizability. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 48-53.	0.7	6
79	Hydrogen Atom Transfer Reactions of C ₂ ⁺ , C ₄ ⁺ , and C ₆ ⁺ : Bond Dissociation Energies of Linear H ⁺ C ₂ ⁿ and H ⁺ C ₂ ⁿ (n = 1, 2, 3). <i>Journal of Physical Chemistry A</i> , 2008, 112, 1261-1267.	1.1	4
80	Pulsed ion extraction diagnostics in a quadrupole ion trap linear time-of-flight mass spectrometer. <i>Review of Scientific Instruments</i> , 2010, 81, 063302.	0.6	4
81	Optimization of a quadrupole ion storage trap as a source for time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2012, 47, 41-48.	0.7	4
82	Energy-Resolved Collision-Induced Dissociation of Peroxyformate Anion: Enthalpies of Formation of Peroxyformic Acid and Peroxyformyl Radical. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1021-1029.	1.1	3
83	Conformational Effects on Gas-Phase Acidities of Isomeric C ₃ and C ₅ Alkanols. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7797-7807.	1.1	3
84	Metal-ligand interactions: Gas-phase transition metal cluster carbonyls. , 0, .		1