## James M Farrar

List of Publications by Year in descending order

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687363 580821 45 668 13 25 citations h-index g-index papers 46 46 46 359 times ranked docs citations citing authors all docs

#	Article	IF	CITATIONS
1	Entropies of dissociation of some moderately strong acids. Journal of the American Chemical Society, 1969, 91, 6057-6062.	13.7	57
2	Velocity Map Imaging Study of Charge-Transfer and Proton-Transfer Reactions of CH <sub>3</sub> Radicals with H <sub>3</sub> <sup>+</sup> . Journal of Physical Chemistry Letters, 2015, 6, 1684-1689.	4.6	51
3	Size-dependent reactivity in open shell metal-ion polar solvent clusters: spectroscopic probes of electronic-vibration coupling, oxidation and ionization. International Reviews in Physical Chemistry, 2003, 22, 593-640.	2.3	50
4	Spectroscopic studies of mass selected clusters of Sr+ solvated by H2O and D2O. Journal of Chemical Physics, 1999, 111, 8469-8480.	3.0	49
5	Kinetic Energy Release in molecular dications fragmentation after VUV and EUV ionization and escape from planetary atmospheres. Planetary and Space Science, 2014, 99, 149-157.	1.7	49
6	Spectroscopy and reactivity of size-selected Mg+–methanol clusters. Journal of Chemical Physics, 2001, 114, 6180-6189.	3.0	36
7	Ion Reaction Dynamics. Annual Review of Physical Chemistry, 1995, 46, 525-554.	10.8	33
8	Dynamics of the reaction of N+ with H2. V. Reactive and nonreactive scattering of N+(3P) at relative energies below 3.6 eV. Journal of Chemical Physics, 1980, 73, 3750-3762.	3.0	27
9	Frequency- and time-resolved cluster photodissociation dynamics in Sr+(H2O) n , Sr+(NH3) n and Sr+(CH3OH) n. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1457.	1.7	27
10	Quantum-State Controlled Reaction Channels in Chemi-ionization Processes: Radiative (Optical–Physical) and Exchange (Oxidative–Chemical) Mechanisms. Accounts of Chemical Research, 2020, 53, 2248-2260.	15.6	27
11	Imaging ion-molecule reactions: Charge transfer and C-N bond formation in the C+ + NH3 system. Journal of Chemical Physics, 2012, 136, 204305.	3.0	24
12	Spectroscopy and reactivity of size-selected Mg[sup +]-ammonia clusters. Journal of Chemical Physics, 2004, 121, 8375.	3.0	20
13	lon imaging study of reaction dynamics in the N+ + CH4 system. Journal of Chemical Physics, 2012, 137, 154312.	3.0	15
14	Angular and energy distributions of fragment ions in dissociative double photoionization of acetylene molecules in the 31.9-50.0 eV photon energy range. Journal of Chemical Physics, 2016, 145, 114308.	3.0	13
15	A New Insight on Stereo-Dynamics of Penning Ionization Reactions. Frontiers in Chemistry, 2019, 7, 445.	3.6	13
16	Cluster size specific chemistry: deuterium atom pickup in Sr+ solvated by ammonia. Chemical Physics Letters, 1999, 304, 350-356.	2.6	12
17	Proton transfer dynamics of the reaction H3O+(NH3,H2O)NH4+ studied using the crossed molecular beam technique. Journal of Chemical Physics, 2004, 120, 199-205.	3.0	12
18	Reaction Dynamics of H2O+(D2O+) + NH3Studied with Crossed Molecular Beams and Density Functional Theory Calculationsâ€. Journal of Physical Chemistry A, 2004, 108, 9876-9886.	2.5	11

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19	Imaging ion-molecule reactions: Charge transfer and halide transfer reactions of O+ with CH3Cl, CH3Br, and CH3I. International Journal of Mass Spectrometry, 2015, 377, 93-100.	1.5	11
20	Experimental and theoretical studies of charge transfer and deuterium ion transfer between D2O+ and C2H4. Journal of Chemical Physics, 2004, 121, 3495-3506.	3.0	10
21	Dynamics of the reaction of C(+) with HCl. Astrophysical Journal, 1988, 335, 491.	4.5	10
22	Dynamics of the OHâ^'+D2 isotope exchange reaction: Reactive and nonreactive decay of the collision complex. Journal of Chemical Physics, 2000, 113, 581-595.	3.0	9
23	lon imaging study of dissociative charge transfer in the N2+ + CH4 system. Journal of Chemical Physics, 2013, 138, 124304.	3.0	9
24	Velocity Map Imaging Study of Ion–Radical Chemistry: Charge Transfer and Carbon–Carbon Bond Formation in the Reactions of Allyl Radicals with C <sup>+</sup> . Journal of Physical Chemistry A, 2016, 120, 6122-6128.	2.5	9
25	Experimental and theoretical studies of charge transfer and hydride transfer in the reactions of OD+ and C2H4. International Journal of Mass Spectrometry, 2005, 241, 271-282.	1.5	8
26	Chemi-Ionization Reactions and Basic Stereodynamical Effects in Collisions of Atom-Molecule Reagents. Journal of Physical Chemistry A, 2021, 125, 3307-3315.	2.5	8
27	Ethyl trichloroacetate hydrolysis. I. Kinetic evidence for a common tetrahedral intermediate in the acid-catalyzed and water-catalyzed hydrolyses. Journal of the American Chemical Society, 1975, 97, 2250-2254.	13.7	7
28	Vibrational state-resolved study of the Oâ^'+H2 reaction: Isotope effects on the product energy partitioning. Journal of Chemical Physics, 1999, 111, 7348-7358.	3.0	7
29	Photodissociation Spectra for Size-Selected Sr+(CH3OH)nand Sr+(CH3OD)nClustersâ€. Journal of Physical Chemistry A, 2002, 106, 9993-9998.	2.5	7
30	Dynamics study of the reaction OHâ^'+C2H2â†'C2Hâ^'+H2O with crossed beams and density-functional theory calculations. Journal of Chemical Physics, 2006, 124, 124317.	3.0	7
31	Reactive scattering from double-minimum potentials. Faraday Discussions of the Chemical Society, 1987, 84, 281.	2.2	6
32	Hot and Cold Clusters:  Photodissociation of Sr+(CH3OD)n through Vibrationally Excited Intermediates. Journal of Physical Chemistry A, 2002, 106, 11882-11890.	2.5	6
33	Ion-molecule reaction dynamics: Velocity map imaging studies of N+ and O+ with CD3OD. Journal of Chemical Physics, 2015, 143, 084304.	3.0	6
34	Quantum State-Resolved Study of the Four-Atom Reaction OH- $(X\hat{l}_{\pm}+) + D2 (X\hat{l}_{\pm}g+, v = 0) \hat{a}^{\dagger} + OD (X1A\hat{a}^{\epsilon}, v\hat{a} \in (1S)$ . Journal of Physical Chemistry A, 2005, 109, 6392-6396.	~) <sub>2.5</sub> D-	5
35	Stereo-dynamical effects in chemi-ionization reactions of atmospheric O2 and N2 molecules promoted by collisions with Ne*(3P2,0) atoms. Chemical Physics Letters, 2021, 778, 138813.	2.6	5
36	Reaction dynamics of OH+( $\hat{i}$ £ $\hat{a}$ ^3)+C2H2 studied with crossed beams and density functional theory calculations. Journal of Chemical Physics, 2006, 125, 133117.	3.0	3

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37	Hydride transfer reaction dynamics of OD++C3H6. Journal of Chemical Physics, 2007, 126, 244315.	3.0	2
38	Singlet and triplet state dynamics of charge and hydride transfer reactions of OD+ (X3 $\hat{1}$ £ $\hat{a}$ ^2) with propyne. International Journal of Mass Spectrometry, 2009, 280, 154-161.	1.5	2
39	Vibrationalâ^'Rotational Energy Distributions in the Reaction O <sup>â^'</sup> + D <sub>2</sub> â†' OD + D <sup>â^'</sup> . Journal of Physical Chemistry A, 2009, 113, 15233-15239.	2.5	2
40	Dynamics of the reaction of O- with D2 at low collision energies: reagent rotational energy effects. Physical Chemistry Chemical Physics, 2000, 2, 679-685.	2.8	1
41	CHEMICAL REACTIONS: Steric and Solvent Effects in Ionic Reactions. Science, 2002, 295, 2222-2223.	12.6	1
42	A Velocity Map Imaging Study of the Reactions of O+ (4S) With CH4. Frontiers in Chemistry, 2019, 7, 227.	3.6	1
43	Highlights: Ventures in freshman chemistry. Journal of Chemical Education, 1993, 70, 847.	2.3	0
44	Low energy crossed beam studies of OD+and D2O+with C2H4: covalent and electrostatic complexes. Physica Scripta, 2007, 76, C48-C55.	2.5	0
45	Experiment and theory elucidate the pathways for H <sub>3</sub> <sup>+</sup> formation in the ultrafast double ionization in methanol. Natural Sciences, 2022, 2, .	2.1	0