James M Farrar

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Experiment and theory elucidate the pathways for H₃⁺formation in the ultrafast double ionization in methanol. Natural Sciences, 2022, 2, .	2.1	0
2	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
3	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
4	Quantum-State Controlled Reaction Channels in Chemi-ionization Processes: Radiative (Opticalâ€“Physical) and Exchange (Oxidativeâ€“Chemical) Mechanisms. Accounts of Chemical Research, 2020, 53, 2248-2260.	15.6	27
5	A New Insight on Stereo-Dynamics of Penning Ionization Reactions. Frontiers in Chemistry, 2019, 7, 445.	3.6	13
6	A Velocity Map Imaging Study of the Reactions of O+ (4S) With CH4. Frontiers in Chemistry, 2019, 7, 227.	3.6	1
7	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
8	Velocity Map Imaging Study of Ionâ€“Radical Chemistry: Charge Transfer and Carbonâ€“Carbon Bond Formation in the Reactions of Allyl Radicals with C⁺. Journal of Physical Chemistry A, 2016, 120, 6122-6128.	2.5	9
9	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
10	Velocity Map Imaging Study of Charge-Transfer and Proton-Transfer Reactions of CH₃ Radicals with H₃⁺. Journal of Physical Chemistry Letters, 2015, 6, 1684-1689.	4.6	51
11	Ion-molecule reaction dynamics: Velocity map imaging studies of N+ and O+ with CD3OD. Journal of Chemical Physics, 2015, 143, 084304.	3.0	6
12	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
13	Ion imaging study of dissociative charge transfer in the N2+ + CH4 system. Journal of Chemical Physics, 2013, 138, 124304.	3.0	9
14	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
15	Ion imaging study of reaction dynamics in the N+ + CH4 system. Journal of Chemical Physics, 2012, 137, 154312.	3.0	15
16	Singlet and triplet state dynamics of charge and hydride transfer reactions of OD+ (X3Î£â¯) with propyne. International Journal of Mass Spectrometry, 2009, 280, 154-161.	1.5	2
17	Vibrationalâ¯Rotational Energy Distributions in the Reaction O^{â¯} + D₂ â† OD + D^{â¯}. Journal of Physical Chemistry A, 2009, 113, 15233-15239.	2.5	2
18	Hydride transfer reaction dynamics of OD++C3H6. Journal of Chemical Physics, 2007, 126, 244315.	3.0	2

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19	Low energy crossed beam studies of OD+and D2O+with C2H4: covalent and electrostatic complexes. Physica Scripta, 2007, 76, C48-C55.	2.5	0
20	Reaction dynamics of OH+(Î£â˜'3)+C2H2 studied with crossed beams and density functional theory calculations. Journal of Chemical Physics, 2006, 125, 133117.	3.0	3
21	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
22	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
23	Quantum State-Resolved Study of the Four-Atom Reaction OH- (XÎ£+) + D2 (X1Î£g+, v = 0) â†' HOD (X1Aâ€˜, vâ€˜)+D- (1S). Journal of Physical Chemistry A, 2005, 109, 6392-6396.	2.5	5
24	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
25	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
26	Spectroscopy and reactivity of size-selected Mg[sup +]-ammonia clusters. Journal of Chemical Physics, 2004, 121, 8375.	3.0	20
27	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
28	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
29	CHEMICAL REACTIONS: Steric and Solvent Effects in Ionic Reactions. Science, 2002, 295, 2222-2223.	12.6	1
30	Photodissociation Spectra for Size-Selected Sr+(CH3OH)nand Sr+(CH3OD)nClustersâ€. Journal of Physical Chemistry A, 2002, 106, 9993-9998.	2.5	7
31	Hot and Cold Clusters:â€‰ Photodissociation of Sr+(CH3OD)n through Vibrationally Excited Intermediates. Journal of Physical Chemistry A, 2002, 106, 11882-11890.	2.5	6
32	Spectroscopy and reactivity of size-selected Mg+â€“methanol clusters. Journal of Chemical Physics, 2001, 114, 6180-6189.	3.0	36
33	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
34	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
35	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
36	Cluster size specific chemistry: deuterium atom pickup in Sr+ solvated by ammonia. Chemical Physics Letters, 1999, 304, 350-356.	2.6	12

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37	Spectroscopic studies of mass selected clusters of Sr+ solvated by H2O and D2O. Journal of Chemical Physics, 1999, 111, 8469-8480.	3.0	49
38	Ion Reaction Dynamics. Annual Review of Physical Chemistry, 1995, 46, 525-554.	10.8	33
39	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
40	Highlights: Ventures in freshman chemistry. Journal of Chemical Education, 1993, 70, 847.	2.3	0
41	Dynamics of the reaction of C(+) with HCl. Astrophysical Journal, 1988, 335, 491.	4.5	10
42	Reactive scattering from double-minimum potentials. Faraday Discussions of the Chemical Society, 1987, 84, 281.	2.2	6
43	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
44	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
45	Entropies of dissociation of some moderately strong acids. Journal of the American Chemical Society, 1969, 91, 6057-6062.	13.7	57