Mark H Stockett

List of Publications by Year
in descending order

98	3,011	361413	161849
papers	citations	20 h-index	54 g-index

99	99	99	3967
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Complexation of Green and Red Kaede Fluorescent Protein Chromophores by a Zwitterion to Probe Electrostatic and Induction Field Effects. Journal of Physical Chemistry A, 2022, 126, 1158-1167.	2.5	5
2	Electron and ion spectroscopy of the cyclo-alanineâ€“alanine dipeptide. Physical Chemistry Chemical Physics, 2022, 24, 5855-5867.	2.8	4
3	Statistical vibrational autodetachment and radiative cooling rates of para-benzoquinone. Physical Chemistry Chemical Physics, 2022, 24, 12002-12010.	2.8	6
4	Radiative cooling rates of substituted PAH ions. Journal of Chemical Physics, 2022, 157, .	3.0	4
5	Action spectroscopy of deprotomer-selected hydroxycinnamate anions. European Physical Journal D, 2021, 75, 1.	1.3	5
6	A new setup for low-temperature gas-phase ion fluorescence spectroscopy. Review of Scientific Instruments, 2021, 92, 033105.	1.3	13
7	Competitive Dehydrogenation and Backbone Fragmentation of Superhydrogenated PAHs: A Laboratory Study. Astrophysical Journal, 2021, 913, 46.	4.5	7
8	Non-statistical fragmentation in photo-activated flavin mononucleotide anions. Journal of Chemical Physics, 2021, 155, 044305.	3.0	2
9	â€œSmart Decompositionâ€•of Cyclic Alanine-Alanine Dipeptide by VUV Radiation: A Seed for the Synthesis of Biologically Relevant Species. Journal of Physical Chemistry Letters, 2021, 12, 7379-7386.	4.6	11
10	Action spectroscopy of the isolated red Kaede fluorescent protein chromophore. Journal of Chemical Physics, 2021, 155, 124304.	3.0	9
11	Survival of polycyclic aromatic hydrocarbon knockout fragments in the interstellar medium. Nature Communications, 2021, 12, 6646.	12.8	15
12	Nonadiabatic Dynamics between Valence, Nonvalence, and Continuum Electronic States in a Heteropolycyclic Aromatic Hydrocarbon. Journal of Physical Chemistry Letters, 2021, 12, 11811-11816.	4.6	4
13	Photophysics of Isolated Rose Bengal Anions. Journal of Physical Chemistry A, 2020, 124, 8429-8438.	2.5	7
14	Radiative cooling of carbon cluster anions C2n+1â^' (nÂ=Â3â€“5). European Physical Journal D, 2020, 74, 1.	1.3	17
15	On the mechanisms of formation and decomposition of peptide bonds. Journal of Physics: Conference Series, 2020, 1412, 212007.	0.4	0
16	Radiative cooling dynamics of anthracene cations stored in DESIREE studied via the time evolution of 2-photon-absorption induced dissociation rate. Journal of Physics: Conference Series, 2020, 1412, 232013.	0.4	0
17	Negative ion relaxation and reactions in a cryogenic storage ring. Journal of Physics: Conference Series, 2020, 1412, 062006.	0.4	1
18	Unimolecular fragmentation and radiative cooling of isolated PAH ions: A quantitative study. Journal of Chemical Physics, 2020, 153, 154303.	3.0	17

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19	Cryogenic merged-ion-beam experiments in DESIREE: Final-state-resolved mutual neutralization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Li</mml:mi></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi mathvariant="normal">D</mml:mi></mml:mrow><mml:mo>â^’</mml:mo></mml:msup></mml:math>. Physical Review A, 2020, 102, .	2.5	18
20	Non-statistical fragmentation of C60 and the formation of endohedral defect fullerenes. Journal of Physics: Conference Series, 2020, 1412, 202032.	0.4	0
21	Spontaneous decay of small carbon cluster dianions Cn2â^’ (n=7-11). Journal of Physics: Conference Series, 2020, 1412, 232014.	0.4	0
22	Gas-phase FÃ¶rster resonance energy transfer in mass-selected ions with methylene or peptide linkers between two dyes: a concerted dance of charges. Physical Chemistry Chemical Physics, 2020, 22, 11095-11100.	2.8	9
23	Circular dichroism, anisotropy and absorption spectroscopy of chlorophyll b in methanol and mixed methanolâ€“water solutions. Physical Chemistry Chemical Physics, 2020, 22, 26961-26966.	2.8	0
24	Vibrational autodetachment from hot copper dimer anions: breakdown of the Born-Oppenheimer approximation. Journal of Physics: Conference Series, 2020, 1412, 232012.	0.4	0
25	Decay pathways for protonated and deprotonated adenine molecules. Journal of Chemical Physics, 2019, 151, 044306.	3.0	0
26	Going large(r): general discussion. Faraday Discussions, 2019, 217, 476-513.	3.2	1
27	Controlling internal degrees: general discussion. Faraday Discussions, 2019, 217, 138-171.	3.2	1
28	Pushing resolution in frequency and time: general discussion. Faraday Discussions, 2019, 217, 290-321.	3.2	1
29	Ultraslow radiative cooling of Cnâ^’ (n = 3â€“5). Journal of Chemical Physics, 2019, 151, 114304.	3.0	16
30	Storage time dependent photodissociation action spectroscopy of polycyclic aromatic hydrocarbon cations in the cryogenic electrostatic storage ring DESIREE. Faraday Discussions, 2019, 217, 126-137.	3.2	16
31	Photodetachment and photoreactions of substituted naphthalene anions in a tandem ion mobility spectrometer. Faraday Discussions, 2019, 217, 34-46.	3.2	13
32	Intrinsic absorption profile and radiative cooling rate of a PAH cation revealed by action spectroscopy in the cryogenic electrostatic storage ring DESIREE. Proceedings of the International Astronomical Union, 2019, 15, 127-131.	0.0	5
33	Luminescence Spectroscopy of Rhodamine Homodimer Dications in Vacuo Reveals Strong Dyeâ€Dye Interactions. ChemPhysChem, 2019, 20, 533-537.	2.1	11
34	Dianion diagnostics in DESIREE: High-sensitivity detection of Cn2â^’ from a sputter ion source. Review of Scientific Instruments, 2018, 89, 033112.	1.3	4
35	The threshold displacement energy of buckminsterfullerene C60 and formation of the endohedral defect fullerene He@C59. Carbon, 2018, 139, 906-912.	10.3	5
36	Ion mobility action spectroscopy of flavin dianions reveals deprotomer-dependent photochemistry. Physical Chemistry Chemical Physics, 2018, 20, 19672-19681.	2.8	23

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37	DESIREE electrospray ion source test bench and setup for collision induced dissociation experiments. Review of Scientific Instruments, 2018, 89, 075102.	1.3	7
38	Mutual Neutralization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mo>â^'</mml:mo></mml:mrow></mml:msup></mml:mrow></mm with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:	7.8	26
39	Absorption and luminescence spectroscopy of mass-selected flavin adenine dinucleotide mono-anions. Journal of Chemical Physics, 2018, 148, 214309.	3.0	14
40	Accessing the Intrinsic Nature of Electronic Transitions from Gasâ€Phase Spectroscopy of Molecular Ion/Zwitterion Complexes. Angewandte Chemie - International Edition, 2017, 56, 3490-3495.	13.8	19
41	Frontispiz: Accessing the Intrinsic Nature of Electronic Transitions from Gasâ€Phase Spectroscopy of Molecular Ion/Zwitterion Complexes. Angewandte Chemie, 2017, 129, .	2.0	0
42	Luminescence spectroscopy of chalcogen substituted rhodamine cations in vacuo. Photochemical and Photobiological Sciences, 2017, 16, 779-784.	2.9	9
43	Frontispiece: Accessing the Intrinsic Nature of Electronic Transitions from Gasâ€Phase Spectroscopy of Molecular Ion/Zwitterion Complexes. Angewandte Chemie - International Edition, 2017, 56, .	13.8	0
44	Spontaneous decay of small copper-cluster anions<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mi>n</mml:mi></mml:m /><mml:mo>â^'</mml:mo></mml:msup></mml:mrow></mml:math>(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 1.50 457 Td (xmlns:m on long time scales. Physical Review A, 2017, 95, .	2.8	23
45	Sibling rivalry: intrinsic luminescence from two xanthene dye monoanions, resorufin and fluorescein, provides evidence for excited-state proton transfer in the latter. Physical Chemistry Chemical Physics, 2017, 19, 24440-24444.	2.8	12
46	Photo-induced proton-coupled electron transfer and dissociation of isolated flavin adenine dinucleotide mono-anions. Physical Chemistry Chemical Physics, 2017, 19, 25829-25833.	2.8	21
47	Accessing the Intrinsic Nature of Electronic Transitions from Gasâ€Phase Spectroscopy of Molecular Ion/Zwitterion Complexes. Angewandte Chemie, 2017, 129, 3544-3549.	2.0	3
48	Strong Impact of an Axial Ligand on the Absorption by Chlorophyll a and b Pigments Determined by Gas-Phase Ion Spectroscopy Experiments. Journal of Physical Chemistry B, 2016, 120, 12105-12110.	2.6	11
49	Nile blue shows its true colors in gas-phase absorption and luminescence ion spectroscopy. Journal of Chemical Physics, 2016, 145, 104303.	3.0	26
50	A cylindrical quadrupole ion trap in combination with an electrospray ion source for gas-phase luminescence and absorption spectroscopy. Review of Scientific Instruments, 2016, 87, 053103.	1.3	42
51	PHOTO-STABILITY OF SUPER-HYDROGENATED PAHs DETERMINED BY ACTION SPECTROSCOPY EXPERIMENTS. Astrophysical Journal, 2016, 832, 24.	4.5	29
52	On the Exciton Coupling between Two Chlorophyll Pigments in the Absence of a Protein Environment: Intrinsic Effects Revealed by Theory and Experiment. Angewandte Chemie, 2016, 128, 6356-6359.	2.0	4
53	Hydrogenated pyrene: Statistical single-carbon loss below the knockout threshold. European Physical Journal D, 2016, 70, 1.	1.3	15
54	On the Exciton Coupling between Two Chlorophyll Pigments in the Absence of a Protein Environment: Intrinsic Effects Revealed by Theory and Experiment. Angewandte Chemie - International Edition, 2016, 55, 6248-6251.	13.8	19

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55	A PYP chromophore acts as a â€˜photoacidâ€™ in an isolated hydrogen bonded complex. Physical Chemistry Chemical Physics, 2016, 18, 9909-9913.	2.8	9
56	Transition energies of benzoquinone anions are immune to symmetry breaking by a single water molecule. Physical Chemistry Chemical Physics, 2016, 18, 6996-7000.	2.8	17
57	Failure of hydrogenation in protecting polycyclic aromatic hydrocarbons from fragmentation. Physical Review A, 2015, 92, .	2.5	40
58	Gas-Phase Spectroscopy of a Vinylheptafulvene Chromophore. European Journal of Mass Spectrometry, 2015, 21, 569-577.	1.0	3
59	Fragmentation studies of Hydrogenated-Pyrene Polycyclic Aromatic Hydrocarbons in collisions with He. Journal of Physics: Conference Series, 2015, 635, 022020.	0.4	0
60	Threshold Energies for Single-Carbon Knockout from Polycyclic Aromatic Hydrocarbons. Journal of Physical Chemistry Letters, 2015, 6, 4504-4509.	4.6	26
61	State-resolved measurements of mutual neutralization at subthermal collision energies. Journal of Physics: Conference Series, 2015, 635, 022043.	0.4	1
62	DESIREE: Physics with cold stored ion beams. EPJ Web of Conferences, 2015, 84, 01004.	0.3	3
63	Ion-Induced Reactivity in Pyrene Clusters. Journal of Physics: Conference Series, 2015, 583, 012011.	0.4	3
64	Non-statistical fragmentation of large molecules in collisions with atoms. Journal of Physics: Conference Series, 2015, 635, 012036.	0.4	1
65	Radiative cooling of hot C_n^{â^’}and C_nH^{â^’}molecules. Journal of Physics: Conference Series, 2015, 635, 112124.	0.4	0
66	Molecular dynamics studies of impulse driven reactions in molecules and molecular clusters. Journal of Physics: Conference Series, 2015, 635, 032043.	0.4	1
67	Spontaneous decay of small copper cluster anions, Cu^{â^’}_N = 3 â^’ 6. Journal of Physics: Conference Series, 2015, 635, 072090.	0.4	5
68	Action spectroscopy of chlorophyll and other coordination complexes.. Journal of Physics: Conference Series, 2015, 635, 112015.	0.4	0
69	Collision Induced Dissociation of PAHs and Biomolecules. Journal of Physics: Conference Series, 2015, 635, 022045.	0.4	0
70	Measuring lifetimes of Polycyclic Aromatic Hydrocarbon fragments. Journal of Physics: Conference Series, 2015, 635, 032067.	0.4	0
71	Fusion reaction dynamics of fullerene molecules. Journal of Physics: Conference Series, 2015, 635, 032093.	0.4	0
72	H₂ formation from Polycyclic Aromatic Hydrocarbon molecules. Journal of Physics: Conference Series, 2015, 635, 032081.	0.4	1

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73	Isomer effects in fragmentation of Polycyclic Aromatic Hydrocarbons. International Journal of Mass Spectrometry, 2015, 392, 58-62.	1.5	19
74	The Soret absorption band of isolated chlorophyll a and b tagged with quaternary ammonium ions. Physical Chemistry Chemical Physics, 2015, 17, 25793-25798.	2.8	41
75	Molecular Growth Inside of Polycyclic Aromatic Hydrocarbon Clusters Induced by Ion Collisions. Journal of Physical Chemistry Letters, 2015, 6, 1536-1542.	4.6	62
76	Communication: Does a single CH3CN molecule attached to Ru(bipy)32+ affect its absorption spectrum?. Journal of Chemical Physics, 2015, 142, 171102.	3.0	15
77	Formation of H2 from internally heated polycyclic aromatic hydrocarbons: Excitation energy dependence. Journal of Chemical Physics, 2015, 142, 144305.	3.0	43
78	High-energy collisions of protonated enantiopure amino acids with a chiral target gas. International Journal of Mass Spectrometry, 2015, 388, 59-64.	1.5	6
79	Absolute fragmentation cross sections in atom-molecule collisions: Scaling laws for non-statistical fragmentation of polycyclic aromatic hydrocarbon molecules. Journal of Chemical Physics, 2014, 140, 224306.	3.0	35
80	Fragmentation of anthracene C₁₄H₁₀, acridine C₁₃H₉N and phenazine C₁₂H₈N₂ions in collisions with atoms. Physical Chemistry Chemical Physics, 2014, 16, 21980-21987.	2.8	24
81	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">C</mml:mi><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>6</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup><mml:mo>â^'</mml:mo></mml:mrow><mml:mn mathvariant="normal">C</mml:mi><mml:mn>60</mml:mn></mml:msub></mml:math>collisions.	2.5	8
82	Ions colliding with mixed clusters of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>60</mml:mn></mml:msub></mml:math>and coronene: Fragmentation and bond formation. Physical Review A, 2014, 90, .	2.5	15
83	Non-statistical fragmentation of PAHs and fullerenes in collisions with atoms. International Journal of Mass Spectrometry, 2014, 365-366, 260-265.	1.5	34
84	Nonstatistical fragmentation of large molecules. Physical Review A, 2014, 89, .	2.5	57
85	Formation dynamics of fullerene dimers<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi>C</mml:mi><mml:mrow><mml:mn>118</mml:mn></mml:mrow></mml:msubsup></mml:math>, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi>C</mml:mi><mml:mrow><mml:mn>119</mml:mn></mml:mrow></mml:msubsup></mml:math> and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi>C</mml:mi><mml:mrow><mml:mn>120</mml:mn></mml:mrow></mml:msubsup></mml:math>. Physical Review A, 2014, 89, .	2.5	27
86	First results from the Double ElectroStatic Ion-Ring ExpEriment, DESIREE. Journal of Physics: Conference Series, 2014, 488, 092003.	0.4	1
87	Bond formation in C+59 â€“ C60 collisions. Journal of Physics: Conference Series, 2014, 488, 012028.	0.4	0
88	Commissioning of the DESIREE storage rings â€“ a new facility for cold ion-ion collisions. Journal of Physics: Conference Series, 2014, 488, 012040.	0.4	2
89	Ions colliding with polycyclic aromatic hydrocarbon clusters. Physica Scripta, 2013, T156, 014062.	2.5	1
90	First storage of ion beams in the Double Electrostatic Ion-Ring Experiment: DESIREE. Review of Scientific Instruments, 2013, 84, 055115.	1.3	116

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91	Ions colliding with clusters of fullerenesâ€"Decay pathways and covalent bond formations. Journal of Chemical Physics, 2013, 139, 034309.	3.0	21
92	Formations of Dumbbell<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">C</mml:mi><mml:mn>118</mml:mn></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">C</mml:mi><mml:mn>119</mml:mn></mml:msub></mml:math>inside Clusters of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:m	7.8	61
93	A cryogenic circulating advective multi-pass absorption cell. Review of Scientific Instruments, 2012, 83, 035104.	1.3	0
94	SDSS-III: MASSIVE SPECTROSCOPIC SURVEYS OF THE DISTANT UNIVERSE, THE MILKY WAY, AND EXTRA-SOLAR PLANETARY SYSTEMS. Astronomical Journal, 2011, 142, 72.	4.7	1,700
95	Atomic transition probabilities of Nd I. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 235003.	1.5	6
96	Echelle spectrograph optimized for a diffuse interstellar band carrier search using synchrotron radiation. Applied Optics, 2008, 47, 5390.	2.1	3
97	Improved Laboratory Transition Probabilities for Er<scp>ii</scp>and Application to the Erbium Abundances of the Sun and Fiverâ€Processâ€rich, Metalâ€poor Stars. Astrophysical Journal, Supplement Series, 2008, 178, 71-88.	7.7	67
98	Radiative lifetimes for 80 levels of singly ionized erbium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 4529-4536.	1.5	6