

Mark H Stockett

List of Publications by Year in descending order

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98
papers

3,011
citations

361413

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161849

54
g-index

99
all docs

99
docs citations

99
times ranked

3967
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | SDSS-III: MASSIVE SPECTROSCOPIC SURVEYS OF THE DISTANT UNIVERSE, THE MILKY WAY, AND EXTRA-SOLAR PLANETARY SYSTEMS. <i>Astronomical Journal</i> , 2011, 142, 72. | 4.7 | 1,700 |
| 2 | First storage of ion beams in the Double Electrostatic Ion-Ring Experiment: DESIREE. <i>Review of Scientific Instruments</i> , 2013, 84, 055115. | 1.3 | 116 |
| 3 | Improved Laboratory Transition Probabilities for Er and Application to the Erbium Abundances of the Sun and Five ϵ -Process ϵ -rich, Metal-poor Stars. <i>Astrophysical Journal, Supplement Series</i> , 2008, 178, 71-88. | 7.7 | 67 |
| 4 | Molecular Growth Inside of Polycyclic Aromatic Hydrocarbon Clusters Induced by Ion Collisions. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1536-1542. | 4.6 | 62 |
| 5 | Formations of Dumbbells C_{118} and C_{119} inside Clusters of Polycyclic Aromatic Hydrocarbon Clusters Induced by Ion Collisions. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1536-1542. | 7.8 | 61 |
| 6 | Nonstatistical fragmentation of large molecules. <i>Physical Review A</i> , 2014, 89, . | 2.5 | 57 |
| 7 | Formation of H ₂ from internally heated polycyclic aromatic hydrocarbons: Excitation energy dependence. <i>Journal of Chemical Physics</i> , 2015, 142, 144305. | 3.0 | 43 |
| 8 | A cylindrical quadrupole ion trap in combination with an electrospray ion source for gas-phase luminescence and absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2016, 87, 053103. | 1.3 | 42 |
| 9 | The Soret absorption band of isolated chlorophyll a and b tagged with quaternary ammonium ions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25793-25798. | 2.8 | 41 |
| 10 | Failure of hydrogenation in protecting polycyclic aromatic hydrocarbons from fragmentation. <i>Physical Review A</i> , 2015, 92, . | 2.5 | 40 |
| 11 | Absolute fragmentation cross sections in atom-molecule collisions: Scaling laws for non-statistical fragmentation of polycyclic aromatic hydrocarbon molecules. <i>Journal of Chemical Physics</i> , 2014, 140, 224306. | 3.0 | 35 |
| 12 | Non-statistical fragmentation of PAHs and fullerenes in collisions with atoms. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 260-265. | 1.5 | 34 |
| 13 | PHOTO-STABILITY OF SUPER-HYDROGENATED PAHs DETERMINED BY ACTION SPECTROSCOPY EXPERIMENTS. <i>Astrophysical Journal</i> , 2016, 832, 24. | 4.5 | 29 |
| 14 | Formation dynamics of fullerene dimers C_{118} and C_{119} . <i>Physical Review A</i> , 2014, 89, . | 2.5 | 27 |
| 15 | Threshold Energies for Single-Carbon Knockout from Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4504-4509. | 4.6 | 26 |
| 16 | Nile blue shows its true colors in gas-phase absorption and luminescence ion spectroscopy. <i>Journal of Chemical Physics</i> , 2016, 145, 104303. | 3.0 | 26 |
| 17 | Mutual Neutralization of O^+ and $C_{14}H_{10}^+$ Ions. <i>Physical Review A</i> , 2014, 89, . | 7.8 | 26 |
| 18 | Fragmentation of anthracene $C_{14}H_{10}$, acridine $C_{13}H_{9}N$ and phenazine $C_{12}H_8N_2$ ions in collisions with atoms. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21980-21987. | 2.8 | 24 |

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|----|--|------|-----------|
| 19 | Spontaneous decay of small copper-cluster anions Cu_n^- on long time scales. <i>Physical Review A</i> , 2017, 95, . | 2.8 | 20 |
| 20 | Ion mobility action spectroscopy of flavin dianions reveals deprotomer-dependent photochemistry. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19672-19681. | 2.8 | 23 |
| 21 | Ions colliding with clusters of fullerenes: Decay pathways and covalent bond formations. <i>Journal of Chemical Physics</i> , 2013, 139, 034309. | 3.0 | 21 |
| 22 | Photo-induced proton-coupled electron transfer and dissociation of isolated flavin adenine dinucleotide mono-anions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25829-25833. | 2.8 | 21 |
| 23 | Isomer effects in fragmentation of Polycyclic Aromatic Hydrocarbons. <i>International Journal of Mass Spectrometry</i> , 2015, 392, 58-62. | 1.5 | 19 |
| 24 | On the Exciton Coupling between Two Chlorophyll Pigments in the Absence of a Protein Environment: Intrinsic Effects Revealed by Theory and Experiment. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6248-6251. | 13.8 | 19 |
| 25 | Accessing the Intrinsic Nature of Electronic Transitions from Gas-Phase Spectroscopy of Molecular Ion/Zwitterion Complexes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3490-3495. | 13.8 | 19 |
| 26 | Cryogenic merged-ion-beam experiments in DESIREE: Final-state-resolved mutual neutralization of Li^+ and D^- . <i>Physical Review A</i> , 2020, 102, . | 2.5 | 18 |
| 27 | Transition energies of benzoquinone anions are immune to symmetry breaking by a single water molecule. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6996-7000. | 2.8 | 17 |
| 28 | Radiative cooling of carbon cluster anions C_{2n+1}^- ($n=3-5$). <i>European Physical Journal D</i> , 2020, 74, 1. | 1.3 | 17 |
| 29 | Unimolecular fragmentation and radiative cooling of isolated PAH ions: A quantitative study. <i>Journal of Chemical Physics</i> , 2020, 153, 154303. | 3.0 | 17 |
| 30 | Ultraslow radiative cooling of C_n^- ($n=3-5$). <i>Journal of Chemical Physics</i> , 2019, 151, 114304. | 3.0 | 16 |
| 31 | Storage time dependent photodissociation action spectroscopy of polycyclic aromatic hydrocarbon cations in the cryogenic electrostatic storage ring DESIREE. <i>Faraday Discussions</i> , 2019, 217, 126-137. | 3.2 | 16 |
| 32 | Ions colliding with mixed clusters of C_60 and coronene: Fragmentation and bond formation. <i>Physical Review A</i> , 2014, 90, . | 2.5 | 15 |
| 33 | Communication: Does a single CH ₃ CN molecule attached to Ru(bipy) ₃ ²⁺ affect its absorption spectrum?. <i>Journal of Chemical Physics</i> , 2015, 142, 171102. | 3.0 | 15 |
| 34 | Hydrogenated pyrene: Statistical single-carbon loss below the knockout threshold. <i>European Physical Journal D</i> , 2016, 70, 1. | 1.3 | 15 |
| 35 | Survival of polycyclic aromatic hydrocarbon knockout fragments in the interstellar medium. <i>Nature Communications</i> , 2021, 12, 6646. | 12.8 | 15 |
| 36 | Absorption and luminescence spectroscopy of mass-selected flavin adenine dinucleotide mono-anions. <i>Journal of Chemical Physics</i> , 2018, 148, 214309. | 3.0 | 14 |

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|----|---|-----|-----------|
| 37 | Photodetachment and photoreactions of substituted naphthalene anions in a tandem ion mobility spectrometer. <i>Faraday Discussions</i> , 2019, 217, 34-46. | 3.2 | 13 |
| 38 | A new setup for low-temperature gas-phase ion fluorescence spectroscopy. <i>Review of Scientific Instruments</i> , 2021, 92, 033105. | 1.3 | 13 |
| 39 | Sibling rivalry: intrinsic luminescence from two xanthene dye monoanions, resorufin and fluorescein, provides evidence for excited-state proton transfer in the latter. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24440-24444. | 2.8 | 12 |
| 40 | Strong Impact of an Axial Ligand on the Absorption by Chlorophyll a and b Pigments Determined by Gas-Phase Ion Spectroscopy Experiments. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12105-12110. | 2.6 | 11 |
| 41 | Luminescence Spectroscopy of Rhodamine Homodimer Dications <i>in Vacuo</i> Reveals Strong Dye-Dye Interactions. <i>ChemPhysChem</i> , 2019, 20, 533-537. | 2.1 | 11 |
| 42 | Smart Decomposition of Cyclic Alanine-Alanine Dipeptide by VUV Radiation: A Seed for the Synthesis of Biologically Relevant Species. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7379-7386. | 4.6 | 11 |
| 43 | A PYP chromophore acts as a photoacid™ in an isolated hydrogen bonded complex. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9909-9913. | 2.8 | 9 |
| 44 | Luminescence spectroscopy of chalcogen substituted rhodamine cations in vacuo. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 779-784. | 2.9 | 9 |
| 45 | Gas-phase Förster resonance energy transfer in mass-selected ions with methylene or peptide linkers between two dyes: a concerted dance of charges. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11095-11100. | 2.8 | 9 |
| 46 | Action spectroscopy of the isolated red Kaede fluorescent protein chromophore. <i>Journal of Chemical Physics</i> , 2021, 155, 124304. | 3.0 | 9 |
| 47 | Multiple electron capture, excitation, and fragmentation in collisions. <i>Physical Review A</i> , 2014, 90, . | 2.5 | 8 |
| 48 | DESIREE electrospray ion source test bench and setup for collision induced dissociation experiments. <i>Review of Scientific Instruments</i> , 2018, 89, 075102. | 1.3 | 7 |
| 49 | Photophysics of Isolated Rose Bengal Anions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8429-8438. | 2.5 | 7 |
| 50 | Competitive Dehydrogenation and Backbone Fragmentation of Superhydrogenated PAHs: A Laboratory Study. <i>Astrophysical Journal</i> , 2021, 913, 46. | 4.5 | 7 |
| 51 | Radiative lifetimes for 80 levels of singly ionized erbium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 4529-4536. | 1.5 | 6 |
| 52 | Atomic transition probabilities of Nd I. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 235003. | 1.5 | 6 |
| 53 | High-energy collisions of protonated enantiopure amino acids with a chiral target gas. <i>International Journal of Mass Spectrometry</i> , 2015, 388, 59-64. | 1.5 | 6 |
| 54 | Statistical vibrational autodetachment and radiative cooling rates of para-benzoquinone. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12002-12010. | 2.8 | 6 |

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|----|--|------|-----------|
| 55 | Spontaneous decay of small copper cluster anions, Cu_n^{3-} . <i>Journal of Physics: Conference Series</i> , 2015, 635, 072090. | 0.4 | 5 |
| 56 | The threshold displacement energy of buckminsterfullerene C60 and formation of the endohedral defect fullerene He@C59. <i>Carbon</i> , 2018, 139, 906-912. | 10.3 | 5 |
| 57 | Intrinsic absorption profile and radiative cooling rate of a PAH cation revealed by action spectroscopy in the cryogenic electrostatic storage ring DESIREE. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 127-131. | 0.0 | 5 |
| 58 | Action spectroscopy of deprotomer-selected hydroxycinnamate anions. <i>European Physical Journal D</i> , 2021, 75, 1. | 1.3 | 5 |
| 59 | Complexation of Green and Red Kaede Fluorescent Protein Chromophores by a Zwitterion to Probe Electrostatic and Induction Field Effects. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1158-1167. | 2.5 | 5 |
| 60 | On the Exciton Coupling between Two Chlorophyll Pigments in the Absence of a Protein Environment: Intrinsic Effects Revealed by Theory and Experiment. <i>Angewandte Chemie</i> , 2016, 128, 6356-6359. | 2.0 | 4 |
| 61 | Dianion diagnostics in DESIREE: High-sensitivity detection of Cn^{2-} from a sputter ion source. <i>Review of Scientific Instruments</i> , 2018, 89, 033112. | 1.3 | 4 |
| 62 | Nonadiabatic Dynamics between Valence, Nonvalence, and Continuum Electronic States in a Heteropolycyclic Aromatic Hydrocarbon. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11811-11816. | 4.6 | 4 |
| 63 | Electron and ion spectroscopy of the cyclo-alanine-alanine dipeptide. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 5855-5867. | 2.8 | 4 |
| 64 | Radiative cooling rates of substituted PAH ions. <i>Journal of Chemical Physics</i> , 2022, 157, . | 3.0 | 4 |
| 65 | Echelle spectrograph optimized for a diffuse interstellar band carrier search using synchrotron radiation. <i>Applied Optics</i> , 2008, 47, 5390. | 2.1 | 3 |
| 66 | Gas-Phase Spectroscopy of a Vinylheptafulvene Chromophore. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 569-577. | 1.0 | 3 |
| 67 | DESIREE: Physics with cold stored ion beams. <i>EPJ Web of Conferences</i> , 2015, 84, 01004. | 0.3 | 3 |
| 68 | Ion-Induced Reactivity in Pyrene Clusters. <i>Journal of Physics: Conference Series</i> , 2015, 583, 012011. | 0.4 | 3 |
| 69 | Accessing the Intrinsic Nature of Electronic Transitions from Gas-Phase Spectroscopy of Molecular Ion/Zwitterion Complexes. <i>Angewandte Chemie</i> , 2017, 129, 3544-3549. | 2.0 | 3 |
| 70 | Commissioning of the DESIREE storage rings – a new facility for cold ion-ion collisions. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012040. | 0.4 | 2 |
| 71 | Non-statistical fragmentation in photo-activated flavin mononucleotide anions. <i>Journal of Chemical Physics</i> , 2021, 155, 044305. | 3.0 | 2 |
| 72 | Ions colliding with polycyclic aromatic hydrocarbon clusters. <i>Physica Scripta</i> , 2013, T156, 014062. | 2.5 | 1 |

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|----|---|-----|-----------|
| 73 | First results from the Double ElectroStatic Ion-Ring ExpEriment, DESIREE. Journal of Physics: Conference Series, 2014, 488, 092003. | 0.4 | 1 |
| 74 | State-resolved measurements of mutual neutralization at subthermal collision energies. Journal of Physics: Conference Series, 2015, 635, 022043. | 0.4 | 1 |
| 75 | Non-statistical fragmentation of large molecules in collisions with atoms. Journal of Physics: Conference Series, 2015, 635, 012036. | 0.4 | 1 |
| 76 | Molecular dynamics studies of impulse driven reactions in molecules and molecular clusters. Journal of Physics: Conference Series, 2015, 635, 032043. | 0.4 | 1 |
| 77 | H ₂ formation from Polycyclic Aromatic Hydrocarbon molecules. Journal of Physics: Conference Series, 2015, 635, 032081. | 0.4 | 1 |
| 78 | Going large(r): general discussion. Faraday Discussions, 2019, 217, 476-513. | 3.2 | 1 |
| 79 | Controlling internal degrees: general discussion. Faraday Discussions, 2019, 217, 138-171. | 3.2 | 1 |
| 80 | Pushing resolution in frequency and time: general discussion. Faraday Discussions, 2019, 217, 290-321. | 3.2 | 1 |
| 81 | Negative ion relaxation and reactions in a cryogenic storage ring. Journal of Physics: Conference Series, 2020, 1412, 062006. | 0.4 | 1 |
| 82 | A cryogenic circulating advective multi-pass absorption cell. Review of Scientific Instruments, 2012, 83, 035104. | 1.3 | 0 |
| 83 | Bond formation in C ⁺ C ₆₀ collisions. Journal of Physics: Conference Series, 2014, 488, 012028. | 0.4 | 0 |
| 84 | Fragmentation studies of Hydrogenated-Pyrene Polycyclic Aromatic Hydrocarbons in collisions with He. Journal of Physics: Conference Series, 2015, 635, 022020. | 0.4 | 0 |
| 85 | Radiative cooling of hot C _n ⁺ and C _n H ⁺ molecules. Journal of Physics: Conference Series, 2015, 635, 112124. | 0.4 | 0 |
| 86 | Action spectroscopy of chlorophyll and other coordination complexes.. Journal of Physics: Conference Series, 2015, 635, 112015. | 0.4 | 0 |
| 87 | Collision Induced Dissociation of PAHs and Biomolecules. Journal of Physics: Conference Series, 2015, 635, 022045. | 0.4 | 0 |
| 88 | Measuring lifetimes of Polycyclic Aromatic Hydrocarbon fragments. Journal of Physics: Conference Series, 2015, 635, 032067. | 0.4 | 0 |
| 89 | Fusion reaction dynamics of fullerene molecules. Journal of Physics: Conference Series, 2015, 635, 032093. | 0.4 | 0 |
| 90 | Frontispiz: Accessing the Intrinsic Nature of Electronic Transitions from Gas-Phase Spectroscopy of Molecular Ion/Zwitterion Complexes. Angewandte Chemie, 2017, 129, . | 2.0 | 0 |

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| 91 | Frontispiece: Accessing the Intrinsic Nature of Electronic Transitions from Gas-Phase Spectroscopy of Molecular Ion/Zwitterion Complexes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, . | 13.8 | 0 |
| 92 | Decay pathways for protonated and deprotonated adenine molecules. <i>Journal of Chemical Physics</i> , 2019, 151, 044306. | 3.0 | 0 |
| 93 | On the mechanisms of formation and decomposition of peptide bonds. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 212007. | 0.4 | 0 |
| 94 | Radiative cooling dynamics of anthracene cations stored in DESIREE studied via the time evolution of 2-photon-absorption induced dissociation rate. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 232013. | 0.4 | 0 |
| 95 | Non-statistical fragmentation of C ₆₀ and the formation of endohedral defect fullerenes. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 202032. | 0.4 | 0 |
| 96 | Spontaneous decay of small carbon cluster dianions C_n^{2-} (n=7-11). <i>Journal of Physics: Conference Series</i> , 2020, 1412, 232014. | 0.4 | 0 |
| 97 | Circular dichroism, anisotropy and absorption spectroscopy of chlorophyll b in methanol and mixed methanol-water solutions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26961-26966. | 2.8 | 0 |
| 98 | Vibrational autodetachment from hot copper dimer anions: breakdown of the Born-Oppenheimer approximation. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 232012. | 0.4 | 0 |