

# Sebastian H Trippel

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

3,471  
citations

147786

31  
h-index

133244

59  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2700  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Picosecond pulse-shaping for strong three-dimensional field-free alignment of generic asymmetric-top molecules. <i>Nature Communications</i> , 2022, 13, 1431.  | 12.8 | 8         |
| 2  | Shot-by-shot 250ÅkHz 3D ion and MHz photoelectron imaging using Timepix3. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2022, 55, 144001.  | 1.5  | 7         |
| 3  | Strong-field ionization of complex molecules. <i>Physical Review Research</i> , 2021, 3, .  | 3.6  | 14        |
| 4  | Ultrafast ionization and fragmentation dynamics of polycyclic aromatic hydro-carbons by XUV radiation. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 112008.                                   | 0.4  | 0         |
| 5  | Setting the photoelectron clock through molecular alignment. <i>Nature Communications</i> , 2020, 11, 2546.   | 12.8 | 26        |
| 6  | Atomic-resolution imaging of carbonyl sulfide by laser-induced electron diffraction. <i>Journal of Chemical Physics</i> , 2019, 150, 244301.  | 3.0  | 22        |
| 7  | Strong-field photoelectron momentum imaging of OCS at finely resolved incident intensities. <i>New Journal of Physics</i> , 2019, 21, 083011.   | 2.9  | 11        |
| 8  | Molecular movie of ultrafast coherent rotational dynamics of OCS. <i>Nature Communications</i> , 2019, 10, 3364.  | 12.8 | 71        |
| 9  | Pure Molecular Beam of Water Dimer. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7486-7490.  | 2.5  | 7         |
| 10 | <tt>PymePix</tt>: a python library for SPIDR readout of Timepix3. <i>Journal of Instrumentation</i> , 2019, 14, P10003-P10003.  | 1.2  | 4         |
| 11 | Strong-field physics in the molecular frame. <i>EPJ Web of Conferences</i> , 2019, 205, 07002.  | 0.3  | 0         |
| 12 | First demonstration of 3D optical readout of a TPC using a single photon sensitive Timepix3 based camera. <i>Journal of Instrumentation</i> , 2019, 14, P06001-P06001.                                      | 1.2  | 14        |
| 13 | Spatial separation of pyrrole and pyrrole-water clusters. <i>Chemical Physics Letters</i> , 2019, 721, 149-152.   | 2.6  | 13        |
| 14 | Circular dichroism of electrons photoemitted from an emitter array of Au nanospirals. , 2019, , .   |      | 0         |
| 15 | Photodissociation of aligned CH3I and C6H3F2I molecules probed with time-resolved Coulomb explosion imaging by site-selective extreme ultraviolet ionization. <i>Structural Dynamics</i> , 2018, 5, 014301. | 2.3  | 40        |
| 16 | Communication: Strong laser alignment of solvent-solute aggregates in the gas-phase. <i>Journal of Chemical Physics</i> , 2018, 148, 101103.  | 3.0  | 8         |
| 17 | Velocity-Map Imaging for Emittance Characterization of Multiphoton Electron Emission from a Gold Surface. <i>Physical Review Applied</i> , 2018, 9, .   | 3.8  | 6         |
| 18 | Time-resolved inner-shell photoelectron spectroscopy: From a bound molecule to an isolated atom. <i>Physical Review A</i> , 2018, 97, .   | 2.5  | 40        |

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|----|---|-----|-----------|
| 19 | Note: Knife edge skimming for improved separation of molecular species by the deflector. Review of Scientific Instruments, 2018, 89, 096110.  | 1.3 | 14        |
| 20 | Coulomb explosion imaging of CH <sub>3</sub> I and CH <sub>2</sub> Cl photodissociation dynamics. Journal of Chemical Physics, 2018, 149, 204313.                                     | 3.0 | 46        |
| 21 | Photophysics of indole upon X-ray absorption. Physical Chemistry Chemical Physics, 2018, 20, 20205-20216.   | 2.8 | 9         |
| 22 | Impulsive laser-induced alignment of OCS molecules at FERMI. Physical Chemistry Chemical Physics, 2017, 19, 19733-19739.  | 2.8 | 5         |
| 23 | Alignment, orientation, and Coulomb explosion of difluoroiodobenzene studied with the pixel imaging mass spectrometry (PlmMS) camera. Journal of Chemical Physics, 2017, 147, 013933. | 3.0 | 26        |
| 24 | Improved spatial separation of neutral molecules. Journal of Chemical Physics, 2017, 147, 024304.   | 3.0 | 12        |
| 25 | Jitter-correction for IR/UV-XUV pump-probe experiments at the FLASH free-electron laser. New Journal of Physics, 2017, 19, 043009.  | 2.9 | 34        |
| 26 | Coulomb-explosion imaging of concurrent $\text{CH}^+$ photodissociation dynamics. Physical Review A, 2017, 96, .  | 2.5 | 50        |
| 27 | X-ray photofragmentation study of gas-phase indole and indole-water cluster. , 2017, , .  |     | 0         |
| 28 | Imaging aligned OCS molecules by laser induced electron diffraction. , 2017, , .  |     | 0         |
| 29 | Laser induced alignment and orientation of conformer and quantum state selected gas-phase molecules and their applications. , 2017, , .   |     | 0         |
| 30 | Velocity Map Imaging for Photocathode Characterization. , 2017, , .   |     | 0         |
| 31 | Charge transfer in dissociating iodomethane and fluoromethane molecules ionized by intense femtosecond X-ray pulses. Structural Dynamics, 2016, 3, 043207.                            | 2.3 | 59        |
| 32 | Adiabatic Mixed-Field Orientation of Ground-State-Selected Carbonyl Sulfide Molecules. ChemPhysChem, 2016, 17, 3740-3746.   | 2.1 | 9         |
| 33 | Valence-Shell-Photoelectron Imaging of Controlled Biomolecules. Journal of Physics: Conference Series, 2015, 635, 112139.   | 0.4 | 0         |
| 34 | Strongly aligned gas-phase molecules at free-electron lasers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 204002.  | 1.5 | 28        |
| 35 | Spatially-controlled complex molecules and their applications. International Reviews in Physical Chemistry, 2015, 34, 557-590.  | 2.3 | 88        |
| 36 | Electron gun for diffraction experiments off controlled molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 244001.                                     | 1.5 | 2         |

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|----|---|------|-----------|
| 37 | Two-State Wave Packet for Strong Field-Free Molecular Orientation. Physical Review Letters, 2015, 114, 103003.  | 7.8  | 35        |
| 38 | Velocity Map Imaging of Electrons Strong-Field Photoemitted from Si-Nanotip Arrays. Springer Proceedings in Physics, 2015, , 663-666.   | 0.2  | 2         |
| 39 | Spatial Separation of Molecular Conformers and Clusters. Journal of Visualized Experiments, 2014, , e51137.   | 0.3  | 1         |
| 40 | Imaging molecular structure through femtosecond photoelectron diffraction on aligned and oriented gas-phase molecules. Faraday Discussions, 2014, 171, 57-80.   | 3.2  | 55        |
| 41 | Strongly driven quantum pendulum of the carbonyl sulfide molecule. Physical Review A, 2014, 89, .   | 2.5  | 30        |
| 42 | Imaging charge transfer in iodomethane upon x-ray photoabsorption. Science, 2014, 345, 288-291.   | 12.6 | 183       |
| 43 | Strongly aligned and oriented molecular samples at a kHz repetition rate. Molecular Physics, 2013, 111, 1738-1743.  | 1.7  | 41        |
| 44 | Differential Scattering Cross-Sections for the Different Product Vibrational States in the Ion-Molecule Reaction $\text{Ar}^+ + \text{C}_2\text{N}_2 \rightarrow \text{Ar} + \text{C}_2\text{N}_2^+$ . Physical Review Letters, 2013, 111, 1738-1743. | 7.8  | 30        |
| 45 | Resonance-enhanced multiple ionization of krypton at an x-ray free-electron laser. Physical Review A, 2013, 87, .   | 2.5  | 57        |
| 46 | Exit Channel Dynamics in a Micro-Hydrated $\text{S}^+ + \text{N}_2$ Reaction of the Hydroxyl Anion. Journal of Physical Chemistry A, 2013, 117, 8139-8144.  | 2.5  | 30        |
| 47 | Ultrafast Charge Rearrangement and Nuclear Dynamics upon Inner-Shell Multiple Ionization of Small Polyatomic Molecules. Physical Review Letters, 2013, 110, 053003.   | 7.8  | 98        |
| 48 | Indirect Dynamics in a Highly Exoergic Substitution Reaction. Journal of the American Chemical Society, 2013, 135, 4250-4259.   | 13.7 | 94        |
| 49 | Inner-shell multiple ionization of polyatomic molecules with an intense x-ray free-electron laser studied by coincident ion momentum imaging. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164031.                          | 1.5  | 27        |
| 50 | Femtosecond photoelectron diffraction on laser-aligned molecules: Towards time-resolved imaging of molecular structure. Physical Review A, 2013, 88, .  | 2.5  | 76        |
| 51 | Coulomb explosion imaging of small organic molecules at LCLS. Journal of Physics: Conference Series, 2012, 388, 022108.   | 0.4  | 0         |
| 52 | Reaction dynamics of temperature-variable anion water clusters studied with crossed beams and by direct dynamics. Faraday Discussions, 2012, 157, 41.   | 3.2  | 53        |
| 53 | Spatial separation of state- and size-selected neutral clusters. Physical Review A, 2012, 86, .   | 2.5  | 37        |
| 54 | Single solvent molecules can affect the dynamics of substitution reactions. Nature Chemistry, 2012, 4, 534-538.   | 13.6 | 132       |

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|----|--|------|-----------|
| 55 | ABSOLUTE PHOTODETACHMENT CROSS-SECTION MEASUREMENTS FOR HYDROCARBON CHAIN ANIONS. <i>Astrophysical Journal</i> , 2011, 742, 63.  | 4.5  | 51        |
| 56 | Nanosecond photofragment imaging of adiabatic molecular alignment. <i>Journal of Chemical Physics</i> , 2011, 134, 104306.   | 3.0  | 3         |
| 57 | Experimental studies of the dissociative recombination processes for the $C_6^+$ and $C_7^+$ ions. <i>EAS Publications Series</i> , 2011, 46, 241-249.   | 0.3  | 4         |
| 58 | DISSOCIATIVE RECOMBINATION OF PROTONATED PROPIONITRILE, $CH_3CH_2CNH^+$ : IMPLICATIONS FOR TITAN'S UPPER ATMOSPHERE. <i>Astrophysical Journal</i> , 2010, 722, 847-850.                                    | 4.5  | 13        |
| 59 | Storage of protonated water clusters in a biplanar multipole rf trap. <i>New Journal of Physics</i> , 2010, 12, 065035.  | 2.9  | 3         |
| 60 | $F^+ + CH_3 \rightarrow FCH_3 + H^+$ Reaction Dynamics. Nontraditional Atomistic Mechanisms and Formation of a Hydrogen-Bonded Complex. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2747-2752. | 4.6  | 103       |
| 61 | Dissociative recombination of the acetaldehyde cation, $CH_3CHO^+$ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11670.   | 2.8  | 8         |
| 62 | Experimental studies of the dissociative recombination of $CD_3^+$ and $CH_3CH_2OH_2^+$ . <i>Astronomy and Astrophysics</i> , 2010, 522, A90.  | 5.1  | 18        |
| 63 | Absolute photodetachment cross section measurements of the $O^{\hat{r}}$ and $OH^{\hat{r}}$ anion. <i>Journal of Chemical Physics</i> , 2009, 130, 061105.   | 3.0  | 38        |
| 64 | How can a 22-pole ion trap exhibit ten local minima in the effective potential?. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 154007.                                    | 1.5  | 29        |
| 65 | Kinematically complete chemical reaction dynamics. <i>Journal of Physics: Conference Series</i> , 2009, 194, 012046.   | 0.4  | 27        |
| 66 | Evaporation of trapped anions studied with a 22-pole ion trap in tandem time-of-flight configuration. <i>Physical Review A</i> , 2008, 78, .   | 2.5  | 27        |
| 67 | Inverse Temperature Dependent Lifetimes of Transient $S_N2$ Ion-Dipole Complexes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10448-10452.   | 2.5  | 43        |
| 68 | Imaging Nucleophilic Substitution Dynamics. <i>Science</i> , 2008, 319, 183-186.   | 12.6 | 307       |
| 69 | Nonstandard Behavior of a Negative Ion Reaction at Very Low Temperatures. <i>Physical Review Letters</i> , 2008, 101, 063201.  | 7.8  | 59        |
| 70 | Planar multipole ion trap. <i>Physical Review A</i> , 2008, 77, .  | 2.5  | 23        |
| 71 | 3D Alignment by Holding and Spinning Molecules. , 2007, , .  |      | 0         |
| 72 | Evaporation of Buffer-Gas-Thermalized Anions out of a Multipole rf Ion Trap. <i>Physical Review Letters</i> , 2007, 98, 223001.  | 7.8  | 29        |

