

# Adam J Trevitt

## List of Publications by Year in descending order

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86  
papers

2,143  
citations

218592

26  
h-index

254106

43  
g-index

90  
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90  
docs citations

90  
times ranked

2155  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Mass Spectrometry Imaging of Aromatic Antioxidants Using Sequential Matrix-Assisted Laser Desorption and Resonant Photoionisation. <i>Analysis &amp; Sensing</i> , 2022, 2, .	1.1	7
2	Solvent-Mediated Proton-Transfer Catalysis of the Gas-Phase Isomerization of Ciprofloxacin Protomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 347-354.	1.2	8
3	Ultraviolet and vacuum ultraviolet photo-processing of protonated benzonitrile (C <sub>6</sub> H <sub>5</sub> CNH <sup>+</sup> ). <i>Astronomy and Astrophysics</i> , 2022, 657, A85.	2.1	8
4	Accelerating Ozonolysis Reactions Using Supplemental RF-Activation of Ions in a Linear Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2022, 94, 3897-3903.	3.2	2
5	UV/VUV photoprocessing of protonated <i>N</i> -hetero(poly)acenes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 5656-5660.	1.6	2
6	Next-generation derivatization reagents optimized for enhanced product ion formation in photodissociation-mass spectrometry of fatty acids. <i>Analyst</i> , 2021, 146, 156-169.	1.7	23
7	Five <i>vs.</i> six membered-ring PAH products from reaction of <i>o</i> -methylphenyl radical and two C <sub>3</sub> H <sub>4</sub> isomers. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 14913-14924.	1.3	0
8	Electrostatically Tuning the Photodissociation of the Irgacure 2959 Photoinitiator in the Gas Phase by Cation Binding. <i>Journal of the American Chemical Society</i> , 2021, 143, 2331-2339.	6.6	20
9	Laser Photodissociation Action Spectroscopy for the Wavelength-Dependent Evaluation of Photoligation Reactions. <i>Analytical Chemistry</i> , 2021, 93, 8091-8098.	3.2	3
10	Reactivity Trends in the Gas-Phase Addition of Acetylene to the <i>N</i> -Protonated Aryl Radical Cations of Pyridine, Aniline, and Benzonitrile. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 537-547.	1.2	13
11	Picosecond excited-state lifetimes of protonated indazole and benzimidazole: The role of the N-N bond. <i>Journal of Chemical Physics</i> , 2021, 155, 184302.	1.2	3
12	Actinic Wavelength Action Spectroscopy of the IO <sup>+</sup> Reaction Intermediate. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11939-11944.	2.1	1
13	Reactions of a distonic peroxy radical anion influenced by SOMO $\leftrightarrow$ HOMO conversion: an example of anion-directed channel switching. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2130-2141.	1.3	9
14	Protonation isomers of highly charged protein ions can be separated in FAIMS-MS. <i>International Journal of Mass Spectrometry</i> , 2020, 457, 116425.	0.7	16
15	Discrimination between Protonation Isomers of Quinazoline by Ion Mobility and UV-Photodissociation Action Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4226-4231.	2.1	24
16	Structural elucidation of hydroxy fatty acids by photodissociation mass spectrometry with photolabile derivatives. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8741.	0.7	13
17	Gas phase reactions of iodide and bromide anions with ozone: evidence for stepwise and reversible reactions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9982-9989.	1.3	12
18	Barrierless Reactions of Three Benzonitrile Radical Cations with Ethylene. <i>Australian Journal of Chemistry</i> , 2020, 73, 705.	0.5	5

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19	Introduction of a Fixed-Charge, Photolabile Derivative for Enhanced Structural Elucidation of Fatty Acids. <i>Analytical Chemistry</i> , 2019, 91, 9901-9909.	3.2	31
20	Going large(r): general discussion. <i>Faraday Discussions</i> , 2019, 217, 476-513.	1.6	1
21	Controlling internal degrees: general discussion. <i>Faraday Discussions</i> , 2019, 217, 138-171.	1.6	1
22	Product detection study of the gas-phase oxidation of methylphenyl radicals using synchrotron photoionisation mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17939-17949.	1.3	8
23	Enhanced Sensitivity Using MALDI Imaging Coupled with Laser Postionization (MALDI-2) for Pharmaceutical Research. <i>Analytical Chemistry</i> , 2019, 91, 10840-10848.	3.2	67
24	Molecular Weight Growth in the Gas-Phase Reactions of Dehydroanilinium Radical Cations with Propene. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8881-8892.	1.1	4
25	Selecting and identifying gas-phase protonation isomers of nicotineH <sup>+</sup> using combined laser, ion mobility and mass spectrometry techniques. <i>Faraday Discussions</i> , 2019, 217, 453-475.	1.6	29
26	Reaction of ionised steryl esters with ozone in the gas phase. <i>Chemistry and Physics of Lipids</i> , 2019, 221, 198-206.	1.5	9
27	Experimental evidence for long-range stabilizing and destabilizing interactions between charge and radical sites in distonic ions. <i>International Journal of Mass Spectrometry</i> , 2019, 435, 195-203.	0.7	4
28	Meet the Associate Editors: Adam Trevitt. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 22-23.	0.7	1
29	Gas-Phase Oxidation of the Protonated Uracil-5-yl Radical Cation. <i>Journal of Physical Chemistry A</i> , 2018, 122, 890-896.	1.1	4
30	Comparing Positively and Negatively Charged Distonic Radical Ions in Phenylperoxyl Forming Reactions. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1848-1860.	1.2	9
31	Mass spectrometry-directed structure elucidation and total synthesis of ultra-long chain (O-acyl)- $\omega$ -hydroxy fatty acids. <i>Journal of Lipid Research</i> , 2018, 59, 1510-1518.	2.0	42
32	Photoelectron Spectrum and Energetics of the <i>meta</i> -Xylylene Diradical. <i>Journal of the American Chemical Society</i> , 2017, 139, 14348-14351.	6.6	34
33	Highly efficient gas-phase reactivity of protonated pyridine radicals with propene. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31072-31084.	1.3	9
34	Radical Generation from the Gas-Phase Activation of Ionized Lipid Ozonides. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1345-1358.	1.2	10
35	Photo and Collision Induced Isomerization of a Cyclic Retinal Derivative: An Ion Mobility Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1483-1490.	1.2	12
36	Drop-on-demand microdroplet generation: a very stable platform for single-droplet experimentation. <i>RSC Advances</i> , 2016, 6, 60215-60222.	1.7	20

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37	Preparation of an ion with the highest calculated proton affinity: ortho-diethynylbenzene dianion. <i>Chemical Science</i> , 2016, 7, 6245-6250.	3.7	19
38	Insights into gas-phase reaction mechanisms of small carbon radicals using isomer-resolved product detection. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5867-5882.	1.3	15
39	Formation and stability of gas-phase o-benzoquinone from oxidation of ortho-hydroxyphenyl: a combined neutral and distonic radical study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4320-4332.	1.3	24
40	Dissociation of proton-bound complexes reveals geometry and arrangement of double bonds in unsaturated lipids. <i>International Journal of Mass Spectrometry</i> , 2015, 390, 170-177.	0.7	8
41	Ultraviolet photodissociation action spectroscopy of the N-pyridinium cation. <i>Journal of Chemical Physics</i> , 2015, 142, 014301.	1.2	24
42	Molecular weight growth in Titan's atmosphere: branching pathways for the reaction of 1-propynyl radical ( $\text{H}_3\text{CCi}\dot{\text{C}}\text{E}^{\text{TM}}$ ) with small alkenes and alkynes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20754-20764.	1.3	6
43	Ultraviolet photodissociation action spectroscopy of gas-phase protonated quinoline and isoquinoline cations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25882-25890.	1.3	23
44	Are the three hydroxyphenyl radical isomers created equal? â€“ The role of the phenoxy radical â€“. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30076-30083.	1.3	35
45	An intermediate band dye-sensitised solar cell using tripletâ€“triplet annihilation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24826-24830.	1.3	77
46	Isomer-Specific Product Detection of Gas-Phase Xylyl Radical Rearrangement and Decomposition Using VUV Synchrotron Photoionization. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3593-3604.	1.1	57
47	Unimolecular reaction chemistry of a charge-tagged beta-hydroxyperoxyl radical. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24954-24964.	1.3	9
48	Photodissociation of TEMPO-modified peptides: new approaches to radical-directed dissociation of biomolecules. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4871.	1.3	21
49	Rapid Profiling of Laser-Induced Photochemistry in Single Microdroplets Using Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 2895-2899.	3.2	11
50	UV Photodissociation Action Spectroscopy of Haloanilinium Ions in a Linear Quadrupole Ion Trap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 932-940.	1.2	37
51	Does Addition of $\text{NO}_2$ to Carbon-Centered Radicals Yield RONO or $\text{RNO}_2$ ? An Investigation Using Distonic Radical Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 481-492.	1.2	5
52	Characterisation of the ionic products arising from electron photodetachment of simple dicarboxylate dianions. <i>International Journal of Mass Spectrometry</i> , 2013, 351, 81-94.	0.7	3
53	Ultraviolet Photodissociation of the <i>N</i> -Methylpyridinium Ion: Action Spectroscopy and Product Characterization. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10839-10846.	1.1	6
54	Hydroxyl radical formation in the gas phase oxidation of distonic 2-methylphenyl radical cations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20577.	1.3	16

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55	Formation of dimethylketene and methacrolein by reaction of the CH radical with acetone. Physical Chemistry Chemical Physics, 2013, 15, 4049.	1.3	22
56	Rapid differentiation of isomeric lipids by photodissociation mass spectrometry of fatty acid derivatives. Rapid Communications in Mass Spectrometry, 2013, 27, 805-815.	0.7	68
57	Direct Observation of Photodissociation Products from Phenylperoxyl Radicals Isolated in the Gas Phase. Journal of the American Chemical Society, 2013, 135, 9010-9014.	6.6	20
58	Ultraviolet Action Spectroscopy of Iodine Labeled Peptides and Proteins in the Gas Phase. Journal of Physical Chemistry A, 2013, 117, 1228-1232.	1.1	22
59	Product Branching Fractions of the CH + Propene Reaction from Synchrotron Photoionization Mass Spectrometry. Journal of Physical Chemistry A, 2013, 117, 6450-6457.	1.1	22
60	Isomer Specific Product Detection in the Reaction of CH with Acrolein. Journal of Physical Chemistry A, 2013, 117, 11013-11026.	1.1	13
61	Direct Observation of <i>para</i> -Xylylene as the Decomposition Product of the <i>meta</i> -Xylyl Radical Using VUV Synchrotron Radiation. Journal of Physical Chemistry Letters, 2013, 4, 2546-2550.	2.1	56
62	Direct Detection of a Persistent Carbonyloxyl Radical in the Gas Phase. Angewandte Chemie - International Edition, 2013, 52, 9301-9304.	7.2	10
63	BIOPHYSICHEM2011: A Joint Meeting of the Australian Society for Biophysics and the RACI Physical Chemistry Division. Australian Journal of Chemistry, 2012, 65, 439.	0.5	0
64	Gas-phase reactions of aryl radicals with 2-butyne: experimental and theoretical investigation employing the N-methyl-pyridinium-4-yl radical cation. Physical Chemistry Chemical Physics, 2012, 14, 2417.	1.3	56
65	Isolation and characterization of charge-tagged phenylperoxyl radicals in the gas phase: direct evidence for products and pathways in low temperature benzene oxidation. Physical Chemistry Chemical Physics, 2012, 14, 16719.	1.3	33
66	Product Detection of the CH Radical Reaction with Acetaldehyde. Journal of Physical Chemistry A, 2012, 116, 6091-6106.	1.1	29
67	Differentiation of Complex Lipid Isomers by Radical-Directed Dissociation Mass Spectrometry. Analytical Chemistry, 2012, 84, 7525-7532.	3.2	135
68	Concerted HO <sub>2</sub> Elimination from $\alpha$ -Aminoalkylperoxyl Free Radicals: Experimental and Theoretical Evidence from the Gas-Phase NH <sub>2</sub> <sup>+</sup> CHCO <sub>2</sub> <sup>+</sup> + O <sub>2</sub> Reaction. Journal of Physical Chemistry Letters, 2012, 3, 805-811.	2.1	29
69	Laser-initiated iodine radical chemistry in single microdroplets. Chemical Physics Letters, 2012, 551, 134-138.	1.2	4
70	Comment on the Ionization Energy of B2F4. Journal of Physical Chemistry A, 2012, 116, 9214-9215.	1.1	5
71	Chemically activated reactions on the C7H5 energy surface: propargyl + diacetylene, i-C5H3 + acetylene, and n-C5H3 + acetylene. Physical Chemistry Chemical Physics, 2011, 13, 8940.	1.3	34
72	Reactions of simple and peptidic alpha-carboxylate radical anions with dioxygen in the gas phase. Physical Chemistry Chemical Physics, 2011, 13, 16314.	1.3	45

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73	Branching Fractions of the CN + C <sub>3</sub> H <sub>6</sub> Reaction Using Synchrotron Photoionization Mass Spectrometry: Evidence for the 3-Cyanopropene Product. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13467-13473.	1.1	14
74	Pyrolysis of fulvenallene (C <sub>7</sub> H <sub>6</sub> ) and fulvenallenyl (C <sub>7</sub> H <sub>5</sub> ): Theoretical kinetics and experimental product detection. <i>Chemical Physics Letters</i> , 2011, 517, 144-148.	1.2	40
75	Reaction of the C <sub>2</sub> H Radical with 1-Butyne (C <sub>4</sub> H <sub>6</sub> ): Low-Temperature Kinetics and Isomer-Specific Product Detection. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3340-3354.	1.1	57
76	Reactions of the CN Radical with Benzene and Toluene: Product Detection and Low-Temperature Kinetics. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1749-1755.	1.1	56
77	Products of the Benzene + O( <sup>3</sup> P) Reaction. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3355-3370.	1.1	92
78	Direct detection of pyridine formation by the reaction of CH (CD) with pyrrole: a ring expansion reaction. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8750.	1.3	49
79	Isomer-specific product detection of CN radical reactions with ethene and propene by tunable VUV photoionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 113-118.	0.7	34
80	Cyclic Versus Linear Isomers Produced by Reaction of the Methylidyne Radical (CH) with Small Unsaturated Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2009, 131, 993-1005.	6.6	77
81	Coalescence of levitated polystyrene microspheres. <i>Journal of Aerosol Science</i> , 2009, 40, 431-438.	1.8	17
82	Direct Observation of the Gas-Phase Criegee Intermediate (CH <sub>2</sub> OO). <i>Journal of the American Chemical Society</i> , 2008, 130, 11883-11885.	6.6	189
83	Morphology-Dependent Resonance Emission from Individual Micron-Sized Particles. <i>Springer Series on Fluorescence</i> , 2007, , 415-429.	0.8	2
84	Calibration of a quadrupole ion trap for particle mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007, 262, 241-246.	0.7	28
85	Observation of nondegenerate cavity modes for a distorted polystyrene microsphere. <i>Optics Letters</i> , 2006, 31, 2211.	1.7	12
86	Infrared Laser Desorption of Hydroquinone from a Water/Ethanol Liquid Beam. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6130-6135.	1.1	9