

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
all docs

90
docs citations

90
times ranked

2155
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Observation of the Gas-Phase Criegee Intermediate (CH ₂ OO). Journal of the American Chemical Society, 2008, 130, 11883-11885.	6.6	189
2	Differentiation of Complex Lipid Isomers by Radical-Directed Dissociation Mass Spectrometry. Analytical Chemistry, 2012, 84, 7525-7532.	3.2	135
3	Products of the Benzene + O(³ P) Reaction. Journal of Physical Chemistry A, 2010, 114, 3355-3370.	1.1	92
4	Cyclic Versus Linear Isomers Produced by Reaction of the Methyldyne Radical (CH) with Small Unsaturated Hydrocarbons. Journal of the American Chemical Society, 2009, 131, 993-1005.	6.6	77
5	An intermediate band dye-sensitised solar cell using triplet-triplet annihilation. Physical Chemistry Chemical Physics, 2015, 17, 24826-24830.	1.3	77
6	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
7	Enhanced Sensitivity Using MALDI Imaging Coupled with Laser Postionization (MALDI-2) for Pharmaceutical Research. Analytical Chemistry, 2019, 91, 10840-10848.	3.2	67
8	Reaction of the C ₂ H Radical with 1-Butyne (C ₄ H ₆): Low-Temperature Kinetics and Isomer-Specific Product Detection. Journal of Physical Chemistry A, 2010, 114, 3340-3354.	1.1	57
9	Isomer-Specific Product Detection of Gas-Phase Xylyl Radical Rearrangement and Decomposition Using VUV Synchrotron Photoionization. Journal of Physical Chemistry A, 2014, 118, 3593-3604.	1.1	57
10	Reactions of the CN Radical with Benzene and Toluene: Product Detection and Low-Temperature Kinetics. Journal of Physical Chemistry A, 2010, 114, 1749-1755.	1.1	56
11	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
12	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
13	Direct detection of pyridine formation by the reaction of CH (CD) with pyrrole: a ring expansion reaction. Physical Chemistry Chemical Physics, 2010, 12, 8750.	1.3	49
14	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
15	Mass spectrometry-directed structure elucidation and total synthesis of ultra-long chain (O-acyl)- ω -hydroxy fatty acids. Journal of Lipid Research, 2018, 59, 1510-1518.	2.0	42
16	Pyrolysis of fulvenallene (C ₇ H ₆) and fulvenallenyl (C ₇ H ₅): Theoretical kinetics and experimental product detection. Chemical Physics Letters, 2011, 517, 144-148.	1.2	40
17	UV Photodissociation Action Spectroscopy of Haloanilinium Ions in a Linear Quadrupole Ion Trap Mass Spectrometer. Journal of the American Society for Mass Spectrometry, 2013, 24, 932-940.	1.2	37
18	Are the three hydroxyphenyl radical isomers created equal? The role of the phenoxy radical. Physical Chemistry Chemical Physics, 2015, 17, 30076-30083.	1.3	35

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19	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
20	Chemically activated reactions on the C ₇ H ₅ energy surface: propargyl + diacetylene, i-C ₅ H ₃ + acetylene, and n-C ₅ H ₃ + acetylene. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8940.	1.3	34
21	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
22	Isolation and characterization of charge-tagged phenylperoxyl radicals in the gas phase: direct evidence for products and pathways in low temperature benzene oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 16719.	1.3	33
23	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
24	Product Detection of the CH Radical Reaction with Acetaldehyde. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6091-6106.	1.1	29
25	Concerted HO ₂ Elimination from $\dot{\pm}$ -Aminoalkylperoxyl Free Radicals: Experimental and Theoretical Evidence from the Gas-Phase NH ₂ ⁺ CHCO ₂ ⁺ + O ₂ Reaction. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 805-811.	2.1	29
26	Selecting and identifying gas-phase protonation isomers of nicotineH ⁺ using combined laser, ion mobility and mass spectrometry techniques. <i>Faraday Discussions</i> , 2019, 217, 453-475.	1.6	29
27	Calibration of a quadrupole ion trap for particle mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007, 262, 241-246.	0.7	28
28	Ultraviolet photodissociation action spectroscopy of the N-pyridinium cation. <i>Journal of Chemical Physics</i> , 2015, 142, 014301.	1.2	24
29	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
30	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
31	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
32	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
33	Formation of dimethylketene and methacrolein by reaction of the CH radical with acetone. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4049.	1.3	22
34	Ultraviolet Action Spectroscopy of Iodine Labeled Peptides and Proteins in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1228-1232.	1.1	22
35	Product Branching Fractions of the CH + Propene Reaction from Synchrotron Photoionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6450-6457.	1.1	22
36	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

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37	Direct Observation of Photodissociation Products from Phenylperoxyl Radicals Isolated in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2013, 135, 9010-9014.	6.6	20
38	Drop-on-demand microdroplet generation: a very stable platform for single-droplet experimentation. <i>RSC Advances</i> , 2016, 6, 60215-60222.	1.7	20
39	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
40	Preparation of an ion with the highest calculated proton affinity: ortho-diethynylbenzene dianion. <i>Chemical Science</i> , 2016, 7, 6245-6250.	3.7	19
41	Coalescence of levitated polystyrene microspheres. <i>Journal of Aerosol Science</i> , 2009, 40, 431-438.	1.8	17
42	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
43	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
44	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
45	Branching Fractions of the CN + C ₃ H ₆ 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
46	Isomer Specific Product Detection in the Reaction of CH with Acrolein. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11013-11026.	1.1	13
47	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
48	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
49	Observation of nondegenerate cavity modes for a distorted polystyrene microsphere. <i>Optics Letters</i> , 2006, 31, 2211.	1.7	12
50	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
51	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
52	Rapid Profiling of Laser-Induced Photochemistry in Single Microdroplets Using Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 2895-2899.	3.2	11
53	Direct Detection of a Persistent Carbonyloxyl Radical in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9301-9304.	7.2	10
54	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

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55	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
56	Unimolecular reaction chemistry of a charge-tagged beta-hydroxyperoxyl radical. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24954-24964.	1.3	9
57	Highly efficient gas-phase reactivity of protonated pyridine radicals with propene. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31072-31084.	1.3	9
58	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
59	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
60	Reactions of a distonic peroxy radical anion influenced by SOMO to HOMO conversion: an example of anion-directed channel switching. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2130-2141.	1.3	9
61	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
62	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
63	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
64	Ultraviolet and vacuum ultraviolet photo-processing of protonated benzonitrile ($C_6H_5CNH^+$). <i>Astronomy and Astrophysics</i> , 2022, 657, A85.	2.1	8
65	Selective Mass Spectrometry Imaging of Aromatic Antioxidants Using Sequential Matrix-Assisted Laser Desorption and Resonant Photoionisation. <i>Analysis & Sensing</i> , 2022, 2, .	1.1	7
66	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
67	Molecular weight growth in Titan's atmosphere: branching pathways for the reaction of 1-propynyl radical ($C_3CC\dot{C}$) with small alkenes and alkynes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20754-20764.	1.3	6
68	Comment on the Ionization Energy of B2F4. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9214-9215.	1.1	5
69	Does Addition of NO_2 to Carbon-Centered Radicals Yield RONO or 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
70	Barrierless Reactions of Three Benzonitrile Radical Cations with Ethylene. <i>Australian Journal of Chemistry</i> , 2020, 73, 705.	0.5	5
71	Laser-initiated iodine radical chemistry in single microdroplets. <i>Chemical Physics Letters</i> , 2012, 551, 134-138.	1.2	4
72	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

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73	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
74	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
75	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
76	Laser Photodissociation Action Spectroscopy for the Wavelength-Dependent Evaluation of Photoligation Reactions. <i>Analytical Chemistry</i> , 2021, 93, 8091-8098.	3.2	3
77	Picosecond excited-state lifetimes of protonated indazole and benzimidazole: The role of the N-H bond. <i>Journal of Chemical Physics</i> , 2021, 155, 184302.	1.2	3
78	Morphology-Dependent Resonance Emission from Individual Micron-Sized Particles. <i>Springer Series on Fluorescence</i> , 2007, , 415-429.	0.8	2
79	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
80	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
81	Going large(r): general discussion. <i>Faraday Discussions</i> , 2019, 217, 476-513.	1.6	1
82	Controlling internal degrees: general discussion. <i>Faraday Discussions</i> , 2019, 217, 138-171.	1.6	1
83	Meet the Associate Editors: Adam Trevitt. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 22-23.	0.7	1
84	Actinic Wavelength Action Spectroscopy of the IO ⁺ Reaction Intermediate. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11939-11944.	2.1	1
85	BIOPHYSICHEM2011: A Joint Meeting of the Australian Society for Biophysics and the RACI Physical Chemistry Division. <i>Australian Journal of Chemistry</i> , 2012, 65, 439.	0.5	0
86	Five vs. six membered-ring PAH products from reaction of <i>o</i> -methylphenyl radical and two C ₃ H ₄ isomers. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 14913-14924.	1.3	0