Scott W Hopkins

List of Publications by Year
in descending order

76 papers	1,438 citations	304743 22 h-index	395702 33 g-index
78 all docs	78 docs citations	78 times ranked	1242 citing authors

#	Article	IF	Citations
1	Improved First-Principles Model of Differential Mobility Using Higher Order Two-Temperature Theory. Journal of the American Society for Mass Spectrometry, 2022, 33, 535-547.	2.8	10
2	Protonationâ€Induced Chirality Drives Separation by Differential Ion Mobility Spectrometry. Angewandte Chemie - International Edition, 2022, 61, .	13.8	9
3	Frontispiz: Protonationâ€Induced Chirality Drives Separation by Differential Ion Mobility Spectrometry. Angewandte Chemie, 2022, 134, .	2.0	0
4	Frontispiece: Protonationâ€Induced Chirality Drives Separation by Differential Ion Mobility Spectrometry. Angewandte Chemie - International Edition, 2022, 61, .	13.8	2
5	Rapid separation of cannabinoid isomer sets using differential mobility spectrometry and mass spectrometry. Analyst, The, 2022, 147, 2198-2206.	3.5	5
6	UVPD spectroscopy of differential mobility-selected prototropic isomers of protonated adenine. Physical Chemistry Chemical Physics, 2021, 23, 19892-19900.	2.8	8
7	Carboxylic acids as anchoring components on aluminum oxide for the alignment relay technique of single-walled carbon nanotubes. New Journal of Chemistry, 2021, 45, 5340-5349.	2.8	4
8	<i>N</i>-Oxide Sâ€“O chalcogen bonding in conjugated materials. Chemical Science, 2021, 12, 2304-2312.	7.4	17
9	Predicting differential ion mobility behaviour <i>in silico</i> using machine learning. Analyst, The, 2021, 146, 4737-4743.	3.5	19
10	The Charge-State and Structural Stability of Peptides Conferred by Microsolvating Environments in Differential Mobility Spectrometry. Journal of the American Society for Mass Spectrometry, 2021, 32, 956-968.	2.8	12
11	Assessing collision cross section calculations using MobCal-MPI with a variety of commonly used computational methods. Materials Today Communications, 2021, 27, 102226.	1.9	18
12	Determining Collision Cross Sections from Differential Ion Mobility Spectrometry. Analytical Chemistry, 2021, 93, 8937-8944.	6.5	11
13	â€œThermometerâ€•Ions Can Fragment Through an Unexpected Intramolecular Elimination: These Are Not the Fragments You Are Looking For. Journal of Physical Chemistry Letters, 2021, 12, 5994-5999.	4.6	2
14	UVPD Spectroscopy of Differential Mobility-Selected Prototropic Isomers of Rivaroxaban. Journal of Physical Chemistry A, 2021, 125, 8187-8195.	2.5	5
15	Action spectroscopy of the isolated red Kaede fluorescent protein chromophore. Journal of Chemical Physics, 2021, 155, 124304.	3.0	9
16	Electronic spectroscopy of differential mobility-selected prototropic isomers of protonated <i>para</i>-aminobenzoic acid. Physical Chemistry Chemical Physics, 2021, 23, 20607-20614.	2.8	8
17	Measuring Electronic Spectra of Differential Mobility-Selected Ions in the Gas Phase. Journal of the American Society for Mass Spectrometry, 2020, 31, 405-410.	2.8	13
18	Ligand specificity and affinity in the sulforhodamine B binding RNA aptamer. Biochemical and Biophysical Research Communications, 2020, 529, 666-671.	2.1	5

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19	Separating chiral isomers of amphetamine and methamphetamine using chemical derivatization and differential mobility spectrometry. Analytical Science Advances, 2020, 1, 233-244.	2.8	10
20	Application of in vivo solid phase microextraction (SPME) in capturing metabolome of apple (Malus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.3	31
21	Understanding Nontraditional Differential Mobility Behavior: A Case Study of the Tricarbastannatrane Cation, N(CH₂CH₂CH₂)₃Sn⁺. Journal of the American Society for Mass Spectrometry, 2020, 31, 796-802.	2.8	15
22	How Hot Are Your Ions in Differential Mobility Spectrometry?. Journal of the American Society for Mass Spectrometry, 2020, 31, 582-593.	2.8	21
23	Unravelling the factors that drive separation in differential mobility spectrometry: A case study of regioisomeric phosphatidylcholine adducts. International Journal of Mass Spectrometry, 2019, 444, 116182.	1.5	7
24	Blue LED Irradiation of Iodonium Ylides Gives Diradical Intermediates for Efficient Metalâ€free Cyclopropanation with Alkenes. Angewandte Chemie, 2019, 131, 17115-17121.	2.0	10
25	Blue LED Irradiation of Iodonium Ylides Gives Diradical Intermediates for Efficient Metalâ€free Cyclopropanation with Alkenes. Angewandte Chemie - International Edition, 2019, 58, 16959-16965.	13.8	28
26	Innentitelbild: Blue LED Irradiation of Iodonium Ylides Gives Diradical Intermediates for Efficient Metalâ€free Cyclopropanation with Alkenes (Angew. Chem. 47/2019). Angewandte Chemie, 2019, 131, 16854-16854.	2.0	0
27	Preferential Ion Microsolvation in Mixed-Modifier Environments Observed Using Differential Mobility Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2222-2227.	2.8	11
28	Trapping a Photoelectron behind a Repulsive Coulomb Barrier in Solution. Journal of Physical Chemistry Letters, 2019, 10, 5742-5747.	4.6	2
29	A parallelized molecular collision cross section package with optimized accuracy and efficiency. Analyst, The, 2019, 144, 1660-1670.	3.5	57
30	Dynamic Clustering and Ion Microsolvation. Comprehensive Analytical Chemistry, 2019, 83, 83-122.	1.3	9
31	The structure of proton-bound Triethylammonia (Xâ€‰=â€‰F, Cl) Clusters. Molecular Physics, 2019, 117, 2972-2979.	1.7	2
32	A First Principle Model of Differential Ion Mobility: the Effect of Ion-Solvent Clustering. Journal of the American Society for Mass Spectrometry, 2019, 30, 2711-2725.	2.8	25
33	Mode-Selective Laser Control of Palladium Catalyst Decomposition. Journal of Physical Chemistry Letters, 2018, 9, 157-162.	4.6	3
34	Identifying Fenton-Reacted Trimethoprim Transformation Products Using Differential Mobility Spectrometry. Analytical Chemistry, 2018, 90, 5352-5357.	6.5	8
35	Separating and probing tautomers of protonated nucleobases using differential mobility spectrometry. International Journal of Mass Spectrometry, 2018, 429, 174-181.	1.5	32
36	Applying Machine Learning to Vibrational Spectroscopy. Journal of Physical Chemistry A, 2018, 122, 167-171.	2.5	35

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37	Characterizing the Tautomers of Protonated Aniline Using Differential Mobility Spectrometry and Mass Spectrometry. Journal of Physical Chemistry A, 2018, 122, 3858-3865.	2.5	31
38	The structures and properties of anionic tryptophan complexes. Physical Chemistry Chemical Physics, 2018, 20, 26532-26541.	2.8	4
39	Determining molecular properties with differential mobility spectrometry and machine learning. Nature Communications, 2018, 9, 5096.	12.8	30
40	Infrared-Driven Charge-Transfer in Transition Metal-Containing B₁₂X₁₂^{2â€“} (X = H, F) Clusters. Journal of Physical Chemistry A, 2018, 122, 7051-7061.	2.5	5
41	What stoichiometries determined by mass spectrometry reveal about the ligand binding mode to G-quadruplex nucleic acids. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1353-1361.	2.4	33
42	Assessing Physicochemical Properties of Drug Molecules via Microsolvation Measurements with Differential Mobility Spectrometry. ACS Central Science, 2017, 3, 101-109.	11.3	37
43	Intramolecular cationâ€“Ï€ interactions in protonated phenylalanine derivatives. Physical Chemistry Chemical Physics, 2017, 19, 729-734.	2.8	13
44	Interaction of B₁₂F₁₂^{2â€“} with All-<i>cis</i> 1,2,3,4,5,6 Hexafluorocyclohexane in the Gas Phase. Journal of Physical Chemistry Letters, 2017, 8, 109-113.	4.6	33
45	Janus Face Aspect of All-cis 1,2,3,4,5,6-Hexafluorocyclohexane Dictates Remarkable Anion and Cation Interactions In the Gas Phase. Journal of the American Chemical Society, 2016, 138, 7460-7463.	13.7	62
46	The structures of proton-bound dimers of glycine with phenylalanine and pentafluorophenylalanine. Journal of Molecular Spectroscopy, 2016, 330, 194-199.	1.2	14
47	Changes in Tricarbastannatrane Transannular Nâ€“Sn Bonding upon Complexation Reveal Lewis Base Donicities. Inorganic Chemistry, 2016, 55, 9579-9585.	4.0	15
48	Front Cover: Borosilicate Activation of (Difluoroiodo)toluene in thegem-Difluorination of Phenyldiazoacetate Derivatives (Eur. J. Org. Chem. 27/2016). European Journal of Organic Chemistry, 2016, 2016, 4586-4586.	2.4	0
49	Borosilicate Activation of (Difluoroiodo)toluene in the <i>gem</i>â€Difluorination of Phenyldiazoacetate Derivatives. European Journal of Organic Chemistry, 2016, 2016, 4603-4606.	2.4	28
50	Studying Gas-Phase Interconversion of Tautomers Using Differential Mobility Spectrometry. Journal of the American Society for Mass Spectrometry, 2016, 27, 1277-1284.	2.8	64
51	The structures and properties of proton- and alkali-bound cysteine dimers. Physical Chemistry Chemical Physics, 2016, 18, 4704-4710.	2.8	17
52	<i>New Views</i>Author profile. Molecular Physics, 2015, 113, 3159-3160.	1.7	0
53	Mode-specific fragmentation of amino acid-containing clusters. Physical Chemistry Chemical Physics, 2015, 17, 28548-28555.	2.8	23
54	Infrared-Driven Charge Transfer in Transition Metal B₁₂F₁₂ Clusters. Journal of Physical Chemistry A, 2015, 119, 8469-8475.	2.5	12

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55	Determining the properties of gas-phase clusters. Molecular Physics, 2015, 113, 3151-3158.	1.7	24
56	Using differential mobility spectrometry to measure ion solvation: an examination of the roles of solvents and ionic structures in separating quinoline-based drugs. Analyst, The, 2015, 140, 6897-6903.	3.5	51
57	Assessing the impact of anionâ€“Ï€ effects on phenylalanine ion structures using IRMPD spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 24223-24234.	2.8	18
58	Density Functional Theory Study of Rh_{<i>n</i>}S^{0,Â±} and Rh_{<i>n</i>+1}^{0,Â±} (<i>n</i> = 1â€“9). Journal of Physical Chemistry A, 2014, 118, 4278-4287.	2.5	30
59	Ion-Molecule Clustering in Differential Mobility Spectrometry: Lessons Learned from Tetraalkylammonium Cations and their Isomers. Journal of the American Society for Mass Spectrometry, 2014, 25, 1583-1591.	2.8	71
60	Persistent Intramolecular Câ€“HÂ·Â·Â·X (X = O or S) Hydrogen-Bonding in Benzyl Meldrumâ€™s Acid Derivatives. Journal of Physical Chemistry A, 2014, 118, 3795-3803.	2.5	16
61	Proton-Bound 3-Cyanophenylalanine Trimethylamine Clusters: Isomer-Specific Fragmentation Pathways and Evidence of Gas-Phase Zwitterions. Journal of Physical Chemistry A, 2013, 117, 10714-10718.	2.5	30
62	Dissociation dynamics of the low-lying Rydberg states of Xe₂: a velocity map imaging study. Molecular Physics, 2012, 110, 2465-2475.	1.7	5
63	Effects of Coadsorbed Oxygen on the Infrared Driven Decomposition of N₂O on Isolated Rh₅⁺ Clusters. Journal of Physical Chemistry Letters, 2011, 2, 3053-3057.	4.6	39
64	Photodissociation Dynamics of Li(NH3)4: A Velocity Map Imaging Study. Journal of Physical Chemistry Letters, 2011, 2, 257-261.	4.6	10
65	Infrared-Induced Reactivity of N₂O on Small Gas-Phase Rhodium Clusters. Journal of Physical Chemistry A, 2011, 115, 2489-2497.	2.5	57
66	Communication: Imaging wavefunctions in dissociative photoionization. Journal of Chemical Physics, 2011, 135, 081104.	3.0	12
67	RG+ formation following photolysis of NOâ€“RG via the AÌƒâ€“XÌƒ transition: A velocity map imaging study. Journal of Chemical Physics, 2011, 135, 034308.	3.0	17
68	Xe+ formation following photolysis of Auâ€“Xe: A velocity map imaging study. Journal of Chemical Physics, 2011, 134, 094311.	3.0	8
69	A velocity map imaging study of gold-rare gas complexes: Auâ€“Ar, Auâ€“Kr, and Auâ€“Xe. Journal of Chemical Physics, 2010, 132, 214303.	3.0	20
70	Infrared Induced Reactivity on the Surface of Isolated Size-Selected Clusters: Dissociation of N₂O on Rhodium Clusters. Journal of the American Chemical Society, 2010, 132, 1448-1449.	13.7	72
71	The electronic spectrum of vanadium monoxide across the visible: New bands and new insight. Journal of Chemical Physics, 2009, 130, 144308.	3.0	19
72	VUV photodissociation dynamics of diatomic gold, Au2: A velocity map imaging study at 157nm. Chemical Physics Letters, 2009, 483, 10-15.	2.6	21

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73	Quantitative (Ï…, N, Ka) Product State Distributions near the Triplet Threshold for the Reaction H2CO â†' H + HCO Measured by Rydberg Tagging and Laser-Induced Fluorescence. Journal of Physical Chemistry A, 2008, 112, 9283-9289.	2.5	8
74	State-selective photodissociation dynamics of formaldehyde: Near threshold studies of the H+HCO product channel. Journal of Chemical Physics, 2007, 127, 064301.	3.0	15
75	A visible spectrum of jet-cooled rhodium monosulfide. Journal of Molecular Spectroscopy, 2005, 234, 211-215.	1.2	11
76	Protonationâ€Induced Chirality Drives Separation by Differential Ion Mobility Spectrometry. Angewandte Chemie, 0, , .	2.0	0