

# James H Scrivens

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1170273/publications.pdf>

Version: 2024-02-01

100  
papers

5,332  
citations

81900

39  
h-index

85541

71  
g-index

105  
all docs

105  
docs citations

105  
times ranked

4311  
citing authors

#	ARTICLE	IF	CITATIONS
1	An investigation of the mobility separation of some peptide and protein ions using a new hybrid quadrupole/travelling wave IMS/oa-ToF instrument. <i>International Journal of Mass Spectrometry</i> , 2007, 261, 1-12.	1.5	749
2	A Comparison of Labeling and Label-Free Mass Spectrometry-Based Proteomics Approaches. <i>Journal of Proteome Research</i> , 2009, 8, 3752-3759.	3.7	245
3	Characterization of Phosphorylated Peptides Using Traveling Wave-Based and Drift Cell Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 248-254.	6.5	223
4	The use of recently described ionisation techniques for the rapid analysis of some common drugs and samples of biological origin. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1447-1456.	1.5	185
5	Protomers of Benzocaine: Solvent and Permittivity Dependence. <i>Journal of the American Chemical Society</i> , 2015, 137, 4236-4242.	13.7	172
6	Travelling wave ion mobility mass spectrometry studies of protein structure: biological significance and comparison with X-ray crystallography and nuclear magnetic resonance spectroscopy measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3297-3304.	1.5	164
7	Gas-Phase Conformations of Synthetic Polymers: Poly(ethylene glycol), Poly(propylene glycol), and Poly(tetramethylene glycol). <i>Journal of the American Chemical Society</i> , 2000, 122, 4692-4699.	13.7	143
8	Rapid accurate mass desorption electrospray ionisation tandem mass spectrometry of pharmaceutical samples. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3643-3650.	1.5	133
9	Bacterial flavin-containing monooxygenase is trimethylamine monooxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17791-17796.	7.1	132
10	Characterization of simple isomeric oligosaccharides and the rapid separation of glycan mixtures by ion mobility mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2010, 298, 119-127.	1.5	114
11	A Study of Cation Attachment to Polystyrene by Means of Matrix-assisted Laser Desorption/Ionization and Electrospray Ionization-Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 57-62.	1.5	107
12	The Application of Matrix-assisted Laser Desorption/Ionization Combined with Collision-induced Dissociation to the Analysis of Synthetic Polymers. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 1668-1674.	1.5	96
13	Characterisation of synthetic polymer systems. <i>International Journal of Mass Spectrometry</i> , 2000, 200, 261-276.	1.5	93
14	Ion mobility mass spectrometry of proteins in a modified commercial mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2004, 236, 55-63.	1.5	89
15	Time-lag focusing and cation attachment in the analysis of synthetic polymers by matrix-assisted laser desorption/ionization-time-of-flight-mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 132-139.	2.8	87
16	Estimating Collision Cross Sections of Negatively Charged N-Glycans using Traveling Wave Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 10789-10795.	6.5	86
17	Coupling desorption electrospray ionisation and neutral desorption/extractive electrospray ionisation with a travelling wave based ion mobility mass spectrometer for the analysis of drugs. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 187-196.	1.5	84
18	Desorption electrospray ionisation mass spectrometry and tandem mass spectrometry of low molecular weight synthetic polymers. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2717-2727.	1.5	76

#	ARTICLE	IF	CITATIONS
19	Poly (ethylene terephthalate) oligomers cationized by alkali ions: Structures, energetics, and their effect on mass spectra and the matrix-assisted laser desorption/ionization process. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 883-895.	2.8	73
20	Gas-phase conformations of cationized poly(styrene) oligomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 499-505.	2.8	72
21	Structural Analysis of Synthetic Polymer Mixtures Using Ion Mobility and Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 9720-9725.	6.5	72
22	Microstructural and conformational studies of polyether copolymers. <i>International Journal of Mass Spectrometry</i> , 2004, 238, 287-297.	1.5	71
23	Gas phase conformations of synthetic polymers: poly (methyl methacrylate) oligomers cationized by sodium ions. <i>International Journal of Mass Spectrometry</i> , 1999, 188, 121-130.	1.5	70
24	Urbilaterian origin of paralogous GnRH and corazonin neuropeptide signalling pathways. <i>Scientific Reports</i> , 2016, 6, 28788.	3.3	70
25	Probing hemoglobin structure by means of traveling-wave ion mobility mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 625-631.	2.8	67
26	Ion Mobility Mass Spectrometry for Extracting Spectra of N-Glycans Directly from Incubation Mixtures Following Glycan Release: Application to Glycans from Engineered Glycoforms of Intact, Folded HIV gp120. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 568-581.	2.8	65
27	The Effect of Calcium Ions and Peptide Ligands on the Relative Stabilities of the Calmodulin Dumbbell and Compact Structures. <i>Journal of Physical Chemistry B</i> , 2010, 114, 437-447.	2.6	56
28	Generation of average mass values and end group information of polymers by means of a combination of matrix-assisted laser desorption/ionization-mass spectrometry and liquid secondary ion-tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 76-85.	2.8	55
29	Utilizing matrix-assisted laser desorption/ionization-collision induced dissociation for the generation of structural information from poly(alkyl methacrylate)s. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 1206-1213.	2.8	55
30	Methodology for measuring conformation of solvent-disrupted protein subunits using T-WAVE ion mobility MS: An investigation into eukaryotic initiation factors. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1699-1706.	2.8	54
31	A combined approach for comparative exoproteome analysis of <i>Corynebacterium pseudotuberculosis</i> . <i>BMC Microbiology</i> , 2011, 11, 12.	3.3	52
32	MALDI-MS/MS with Traveling Wave Ion Mobility for the Structural Analysis of N-Linked Glycans. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1955-1966.	2.8	52
33	New Structural Insights into Mechanically Interlocked Polymers Revealed by Ion Mobility Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2012, 134, 9193-9198.	13.7	52
34	Collision-induced fragmentation pathways including odd-electron ion formation from desorption electrospray ionisation generated protonated and deprotonated drugs derived from tandem accurate mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2006, 41, 1277-1286.	1.6	50
35	Utilizing Time-lag Focusing Matrix-assisted Laser Desorption/Ionization Mass Spectrometry for the End Group Analysis of Synthetic Polymers. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 520-526.	1.5	49
36	Travelling wave ion mobility and negative ion fragmentation for the structural determination of N-linked glycans. <i>Electrophoresis</i> , 2013, 34, 2368-2378.	2.4	49

#	ARTICLE	IF	CITATIONS
37	Structural analysis of prion proteins by means of drift cell and traveling wave ion mobility mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 845-854.	2.8	47
38	Matrix-assisted laser desorption/ionization-collision induced dissociation of poly(styrene). <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 269-274.	2.8	46
39	Integrated multi-omics analysis of ovarian cancer using variational autoencoders. <i>Scientific Reports</i> , 2021, 11, 6265.	3.3	42
40	The characterization of polystyrene oligomers by field-desorption mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1990, 4, 355-359.	1.5	41
41	Characterisation of poly(alkyl methacrylate)s by means of electrospray ionisation tandem mass spectrometry (ESI-MS/MS). <i>International Journal of Mass Spectrometry</i> , 2004, 238, 265-277.	1.5	39
42	Birch reduction of C <sub>60</sub> a new appraisal. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1149-1152.	2.0	38
43	The effect of counter ions in matrix-assisted laser desorption/ionization of poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50	0.7	38
44	Folding Energetics and Dynamics of Macromolecules in the Gas Phase: Alkali Ion-Cationized Poly(ethylene terephthalate) Oligomers. <i>Journal of the American Chemical Society</i> , 1999, 121, 1421-1422.	13.7	38
45	Utility of spatially-resolved atmospheric pressure surface sampling and ionization techniques as alternatives to mass spectrometric imaging (MSI) in drug metabolism. <i>Xenobiotica</i> , 2011, 41, 720-734.	1.1	38
46	Discovery of a novel neurophysin-associated neuropeptide that triggers cardiac stomach contraction and retraction in starfish. <i>Journal of Experimental Biology</i> , 2013, 216, 4047-53.	1.7	37
47	Polarity Switching Accurate Mass Measurement of Pharmaceutical Samples Using Desorption Electrospray Ionization and a Dual Ion Source Interfaced to an Orthogonal Acceleration Time-of-Flight Mass Spectrometer. <i>Analytical Chemistry</i> , 2006, 78, 7440-7445.	6.5	35
48	Travelling-wave ion mobility and negative ion fragmentation of high-mannose N-glycans. <i>Journal of Mass Spectrometry</i> , 2016, 51, 219-235.	1.6	34
49	Discovery and functional characterisation of a luqin-type neuropeptide signalling system in a deuterostome. <i>Scientific Reports</i> , 2018, 8, 7220.	3.3	34
50	Ancient role of vasopressin/oxytocin-type neuropeptides as regulators of feeding revealed in an echinoderm. <i>BMC Biology</i> , 2019, 17, 60.	3.8	33
51	Mass Spectrometric Strategies to Improve the Identification of Pt(II)-Modification Sites on Peptides and Proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1217-1227.	2.8	32
52	The rapid characterisation of poly(ethylene glycol) oligomers using desorption electrospray ionisation tandem mass spectrometry combined with novel product ion peak assignment software. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1693-1704.	1.5	30
53	Conformational Stability of Syrian Hamster Prion Protein PrP(90~231). <i>Journal of the American Chemical Society</i> , 2010, 132, 8816-8818.	13.7	29
54	Localisation of adenine nucleotides in heat-stabilised mouse brains using ion mobility enabled MALDI imaging. <i>International Journal of Mass Spectrometry</i> , 2013, 345-347, 19-27.	1.5	29

#	ARTICLE	IF	CITATIONS
55	Ion Mobility Mass Spectrometry for Ion Recovery and Clean-Up of MS and MS/MS Spectra Obtained from Low Abundance Viral Samples. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1754-1767.	2.8	28
56	Travelling-wave ion mobility mass spectrometry and negative ion fragmentation of hybrid and complex N-glycans. <i>Journal of Mass Spectrometry</i> , 2016, 51, 1064-1079.	1.6	28
57	Global and Local Conformation of Human IgG Antibody Variants Rationalizes Loss of Thermodynamic Stability. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15156-15159.	13.8	27
58	Structural Plasticity of the Semliki Forest Virus Glycome upon Interspecies Transmission. <i>Journal of Proteome Research</i> , 2014, 13, 1702-1712.	3.7	26
59	Fragmentation of negative ions from N-linked carbohydrates: Part 6. Glycans containing one N-acetylglucosamine in the core. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2008-2018.	1.5	25
60	Native electrospray mass spectrometry approaches to probe the interaction between zinc and an anti-angiogenic peptide from histidine-rich glycoprotein. <i>Scientific Reports</i> , 2018, 8, 8646.	3.3	25
61	Linked scanning and metastable ion mapping. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1982, 44, 91-107.	1.3	23
62	Analysis of cyclic oligomers of poly(ethylene terephthalate) by liquid chromatography/mass spectrometry. <i>Polymer</i> , 1997, 38, 2549-2555.	3.8	22
63	Uukuniemi Phlebovirus Assembly and Secretion Leave a Functional Imprint on the Virion Glycome. <i>Journal of Virology</i> , 2014, 88, 10244-10251.	3.4	22
64	The implementation and application of precursor-ion scanning using a four-sector instrument. <i>Rapid Communications in Mass Spectrometry</i> , 1992, 6, 272-277.	1.5	21
65	Novel software for the assignment of peaks from tandem mass spectrometry spectra of synthetic polymers. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1324-1331.	2.8	21
66	Analysis of a Five-component Mixture of Polymer Additives by Means of High Energy Mass Spectrometry and Tandem Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 1449-1458.	1.5	19
67	A Role for Sigma Factor $\sigma^E$ in <i>Corynebacterium pseudotuberculosis</i> Resistance to Nitric Oxide/Peroxide Stress. <i>Frontiers in Microbiology</i> , 2012, 3, 126.	3.5	19
68	End-group characterisation of poly(propylene glycol)s by means of electrospray ionisation-tandem mass spectrometry (ESI-MS/MS). <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 643-650.	3.7	18
69	The application of electrospray ionisation and tandem mass spectrometry to the analysis of polymer additives. <i>European Journal of Mass Spectrometry</i> , 1996, 2, 115.	0.7	17
70	Comparison of One- and Two-dimensional Liquid Chromatography Approaches in the Label-free Quantitative Analysis of <i>Methylocella silvestris</i> . <i>Journal of Proteome Research</i> , 2012, 11, 4755-4763.	3.7	16
71	Characterization of Complex Polysorbate Formulations by Means of Shape-Selective Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 6521-6529.	6.5	16
72	A proteomic approach to the identification of the major virion structural proteins of the marine cyanomyovirus S-PM2. <i>Microbiology (United Kingdom)</i> , 2008, 154, 1775-1782.	1.8	15

#	ARTICLE	IF	CITATIONS
73	Isolation of component spectra in the analysis of mixtures by mass spectrometry and <sup>13</sup> C nuclear magnetic resonance spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1987, 1, 167-176.	3.5	14
74	Fibrillation of transferrin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 427-436.	2.4	14
75	Design and Application of a Data-Independent Precursor and Product Ion Repository. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1808-1820.	2.8	13
76	The characterization of complex mixtures by field desorption-tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1998, 12, 1914-1924.	1.5	12
77	Ion mobility augments the utility of mass spectrometry in the identification of human hemoglobin variants. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3179-3186.	1.5	12
78	Tailor-made recombinant prokaryotic lectins for characterisation of glycoproteins. <i>Analytica Chimica Acta</i> , 2021, 1155, 338352.	5.4	12
79	Noncovalent Shiga-like Toxin Assemblies: Characterization by Means of Mass Spectrometry and Tandem Mass Spectrometry. <i>Biochemistry</i> , 2005, 44, 8282-8290.	2.5	11
80	Some results from an investigation into the analytical potential of mass spectrometry's mass spectrometry techniques, with particular reference to industrial applications. <i>Journal of Chromatography A</i> , 1985, 328, 167-177.	3.7	10
81	Sequential product-ion spectra (MS <sup>3</sup> and MS <sup>4</sup> ) with array detection and reaction-intermediate scanning on a four-sector mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1992, 6, 553-559.	1.5	10
82	The Effects of Internal Energy Deposition During Ionization on the Collision-induced Decomposition Spectra of an Organic Polymer Additive. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 1459-1462.	1.5	10
83	High energy collision-induced dissociation (CID) product ion spectra of isomeric polyhydroxy sugars. <i>International Journal of Mass Spectrometry</i> , 2003, 230, 201-208.	1.5	10
84	Resolution of a paradox by native mass spectrometry: facile occupation of all four metal binding sites in the dimeric zinc sensor SmtB. <i>Chemical Communications</i> , 2013, 49, 813-815.	4.1	10
85	Benzoquinones and related compounds. Part 2. Preferred conformations of some acyl-1,4-benzoquinones in solution. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1980, , 860.	0.9	9
86	Thermal characterisation of polymeric systems by mass spectrometry. <i>British Polymer Journal</i> , 1989, 21, 37-44.	0.7	8
87	A study of the gas-phase reaction between protonated acetaldehyde and methanol. <i>Journal of the American Society for Mass Spectrometry</i> , 1990, 1, 481-488.	2.8	8
88	Utilising precursor ion and second-generation product ion scanning techniques in a four-sector mass spectrometer for the analysis of polymer additives. <i>European Journal of Mass Spectrometry</i> , 1997, 3, 113.	0.7	8
89	The determination of atmospheric bis (chloromethyl) ether by gas chromatography/tandem mass spectrometry. <i>Biomedical &amp; Environmental Mass Spectrometry</i> , 1989, 18, 775-779.	1.6	6
90	Gas Phase Characterization of the Noncovalent Quaternary Structure of Cholera Toxin and the Cholera Toxin B Subunit Pentamer. <i>Biophysical Journal</i> , 2006, 90, 3246-3254.	0.5	6

#	ARTICLE	IF	CITATIONS
91	Hb Leeds [ $^256(D7)Gly\hat{+}Cys$ ]: A New Hemoglobin that Aggravates Anemia in a child with $^20$ -Thalassemia Trait. Hemoglobin, 2007, 31, 367-373.	0.8	6
92	Characterisation of end groups in poly(2-hydroxyethyl methacrylate) by means of electrospray ionisation-mass spectrometry/mass spectrometry (ESI-MS/MS). Polymer, 2010, 51, 1418-1424.	3.8	6
93	A study of solvent motion in acetone-PMMA solutions using $^{13}C$ and $^1H$ spin-lattice relaxation measurements. Polymer, 1975, 16, 489-492.	3.8	5
94	Thermal desorption gas chromatography mass spectrometry studies of commercial polypropylene samples. International Journal of Mass Spectrometry and Ion Processes, 1989, 89, 157-169.	1.8	5
95	The use of tandem mass spectrometry as a problem-solving tool in the industrial environment. Rapid Communications in Mass Spectrometry, 1990, 4, 454-460.	1.5	5
96	Is the higher risk of cardiovascular disease amongst South Asian populations linked to abnormalities of haemoglobin? A preliminary case control study. Atherosclerosis, 2013, 226, 198-200.	0.8	3
97	Applications of Traveling Wave Ion Mobility-Mass Spectrometry. , 2009, , 205-236.		3
98	Evaluation Of Mass Spectrometry Based Approaches For The Diagnosis Of Hemoglobinopathies. Blood, 2013, 122, 4679-4679.	1.4	2
99	Coupled relaxation in AX2 spin systems. Dependence of effective relaxation times on method of measurement and application to determining internuclear distances. Journal of the Chemical Society, Faraday Transactions 2, 1976, 72, 2164.	1.1	1
100	Scrivens Biographical Sketch. International Journal of Mass Spectrometry, 2013, 345-347, 6-7.	1.5	0