

# James H Scrivens

## List of Publications by Year in descending order

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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	Integrated multi-omics analysis of ovarian cancer using variational autoencoders. <i>Scientific Reports</i> , 2021, 11, 6265.	3.3	42
2	Tailor-made recombinant prokaryotic lectins for characterisation of glycoproteins. <i>Analytica Chimica Acta</i> , 2021, 1155, 338352.	5.4	12
3	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
4	Discovery and functional characterisation of a luqin-type neuropeptide signalling system in a deuterostome. <i>Scientific Reports</i> , 2018, 8, 7220.	3.3	34
5	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
6	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
7	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
8	Urbilaterian origin of paralogous GnRH and corazonin neuropeptide signalling pathways. <i>Scientific Reports</i> , 2016, 6, 28788.	3.3	70
9	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
10	Protomers of Benzocaine: Solvent and Permittivity Dependence. <i>Journal of the American Chemical Society</i> , 2015, 137, 4236-4242.	13.7	172
11	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
12	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
13	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
14	Structural Plasticity of the Semliki Forest Virus Glycome upon Interspecies Transmission. <i>Journal of Proteome Research</i> , 2014, 13, 1702-1712.	3.7	26
15	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
16	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
17	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
18	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

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19	Is the higher risk of cardiovascular disease amongst South Asian populations linked to abnormalities of haemoglobin? A preliminary case control study. <i>Atherosclerosis</i> , 2013, 226, 198-200.	0.8	3
20	Scrivens Biographical Sketch. <i>International Journal of Mass Spectrometry</i> , 2013, 345-347, 6-7.	1.5	0
21	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
22	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
23	Evaluation Of Mass Spectrometry Based Approaches For The Diagnosis Of Hemoglobinopathies. <i>Blood</i> , 2013, 122, 4679-4679.	1.4	2
24	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
25	MALDI-MS/MS with Traveling Wave Ion Mobility for the Structural Analysis of <i>N</i> -Linked Glycans. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1955-1966.	2.8	52
26	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
27	Characterization of Complex Polysorbate Formulations by Means of Shape-Selective Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 6521-6529.	6.5	16
28	Fibrillation of transferrin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 427-436.	2.4	14
29	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
30	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
31	Ion Mobility Mass Spectrometry for Extracting Spectra of <i>N</i> -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
32	A combined approach for comparative exoproteome analysis of <i>Corynebacterium pseudotuberculosis</i> . <i>BMC Microbiology</i> , 2011, 11, 12.	3.3	52
33	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
34	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
35	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
36	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

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37	Characterisation of end groups in poly(2-hydroxyethyl methacrylate) by means of electrospray ionisation-mass spectrometry/mass spectrometry (ESI-MS/MS). <i>Polymer</i> , 2010, 51, 1418-1424.	3.8	6
38	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
39	Conformational Stability of Syrian Hamster Prion Protein PrP(90 <sup>~</sup> 231). <i>Journal of the American Chemical Society</i> , 2010, 132, 8816-8818.	13.7	29
40	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
41	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
42	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
43	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
44	Applications of Traveling Wave Ion Mobility-Mass Spectrometry. , 2009, , 205-236.		3
45	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
46	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
47	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
48	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
49	Structural Analysis of Synthetic Polymer Mixtures Using Ion Mobility and Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 9720-9725.	6.5	72
50	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
51	Hb Leeds [ <sup>1256</sup> (D7)Gly <sup>+</sup> Cys]: A New Hemoglobin that Aggravates Anemia in a child with <sup>120</sup> -Thalassemia Trait. <i>Hemoglobin</i> , 2007, 31, 367-373.	0.8	6
52	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
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	Microstructural and conformational studies of polyether copolymers. <i>International Journal of Mass Spectrometry</i> , 2004, 238, 287-297.	1.5	71
63	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
64	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
65	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
66	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
67	Characterisation of synthetic polymer systems. <i>International Journal of Mass Spectrometry</i> , 2000, 200, 261-276.	1.5	93
68	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
69	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
70	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
71	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
72	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

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73	Matrix-assisted laser desorption/ionization-collision induced dissociation of poly(styrene). Journal of the American Society for Mass Spectrometry, 1998, 9, 269-274.	2.8	46
74	The effect of counter ions in matrix-assisted laser desorption/ionization of poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,702 Td (m	0.7	38
75	Utilising precursor ion and second-generation product ion scanning techniques in a four-sector mass spectrometer for the analysis of polymer additives. European Journal of Mass Spectrometry, 1997, 3, 113.	0.7	8
76	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. Journal of the American Society for Mass Spectrometry, 1997, 8, 76-85.	2.8	55
77	Time-lag focusing and cation attachment in the analysis of synthetic polymers by matrix-assisted laser desorption/ionization-time-of-flight-mass spectrometry. Journal of the American Society for Mass Spectrometry, 1997, 8, 132-139.	2.8	87
78	Utilizing matrix-assisted laser desorption/ionization-collision induced dissociation for the generation of structural information from poly(alkyl methacrylate)s. Journal of the American Society for Mass Spectrometry, 1997, 8, 1206-1213.	2.8	55
79	Analysis of cyclic oligomers of poly(ethylene terephthalate) by liquid chromatography/mass spectrometry. Polymer, 1997, 38, 2549-2555.	3.8	22
80	A Study of Cation Attachment to Polystyrene by Means of Matrix-assisted Laser Desorption/Ionization and Electrospray Ionization-Mass Spectrometry. Rapid Communications in Mass Spectrometry, 1997, 11, 57-62.	1.5	107
81	Utilizing Time-lag Focusing Matrix-assisted Laser Desorption/Ionization Mass Spectrometry for the End Group Analysis of Synthetic Polymers. Rapid Communications in Mass Spectrometry, 1997, 11, 520-526.	1.5	49
82	The application of electrospray ionisation and tandem mass spectrometry to the analysis of polymer additives. European Journal of Mass Spectrometry, 1996, 2, 115.	0.7	17
83	Analysis of a Five-component Mixture of Polymer Additives by Means of High Energy Mass Spectrometry and Tandem Mass Spectrometry. Rapid Communications in Mass Spectrometry, 1996, 10, 1449-1458.	1.5	19
84	The Effects of Internal Energy Deposition During Ionization on the Collision-induced Decomposition Spectra of an Organic Polymer Additive. Rapid Communications in Mass Spectrometry, 1996, 10, 1459-1462.	1.5	10
85	The Application of Matrix-assisted Laser Desorption/Ionization Combined with Collision-induced Dissociation to the Analysis of Synthetic Polymers. Rapid Communications in Mass Spectrometry, 1996, 10, 1668-1674.	1.5	96
86	Birch reduction of C60â€”a new appraisal. Journal of the Chemical Society Chemical Communications, 1993, , 1149-1152.	2.0	38
87	The implementation and application of precursor-ion scanning using a four-sector instrument. Rapid Communications in Mass Spectrometry, 1992, 6, 272-277.	1.5	21
88	Sequential product-ion spectra (MS3 and MS4) with array detection and reaction-intermediate scanning on a four-sector mass spectrometer. Rapid Communications in Mass Spectrometry, 1992, 6, 553-559.	1.5	10
89	A study of the gas-phase reaction between protonated acetaldehyde and methanol. Journal of the American Society for Mass Spectrometry, 1990, 1, 481-488.	2.8	8
90	The characterization of polystyrene oligomers by field-desorption mass spectrometry. Rapid Communications in Mass Spectrometry, 1990, 4, 355-359.	1.5	41

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91	The use of tandem mass spectrometry as a problem-solving tool in the industrial environment. <i>Rapid Communications in Mass Spectrometry</i> , 1990, 4, 454-460.	1.5	5
92	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
93	Thermal desorption "gas chromatography" mass spectrometry studies of commercial polypropylene samples. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989, 89, 157-169.	1.8	5
94	Thermal characterisation of polymeric systems by mass spectrometry. <i>British Polymer Journal</i> , 1989, 21, 37-44.	0.7	8
95	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
96	Some results from an investigation into the analytical potential of mass spectrometry "mass spectrometry techniques, with particular reference to industrial applications. <i>Journal of Chromatography A</i> , 1985, 328, 167-177.	3.7	10
97	Linked scanning and metastable ion mapping. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1982, 44, 91-107.	1.3	23
98	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
99	Coupled relaxation in AX <sub>2</sub> spin systems. Dependence of effective relaxation times on method of measurement and application to determining internuclear distances. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1976, 72, 2164.	1.1	1
100	A study of solvent motion in acetone-PMMA solutions using <sup>13</sup> C and <sup>1</sup> H spin-lattice relaxation measurements. <i>Polymer</i> , 1975, 16, 489-492.	3.8	5