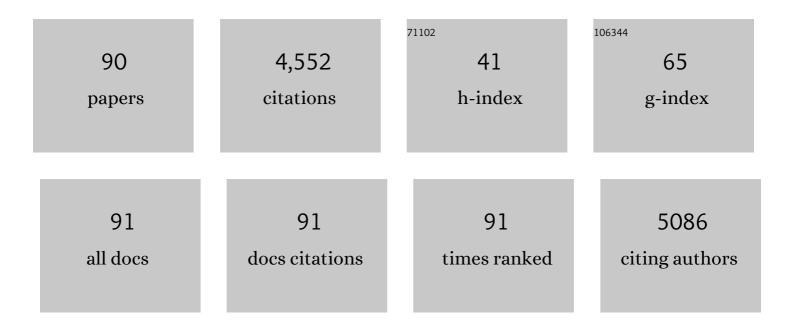
## Alison E Ashcroft

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3197822/publications.pdf Version: 2024-02-01



ALISON F ASHCROFT

#	Article	IF	CITATIONS
1	Deciphering Drift Time Measurements from Travelling Wave Ion Mobility Spectrometry-Mass Spectrometry Studies. European Journal of Mass Spectrometry, 2009, 15, 113-130.	1.0	312
2	Screening and classifying small-molecule inhibitors of amyloid formation using ion mobility spectrometry–mass spectrometry. Nature Chemistry, 2015, 7, 73-81.	13.6	255
3	Donor-Strand Exchange in Chaperone-Assisted Pilus Assembly Proceeds through a Concerted β Strand Displacement Mechanism. Molecular Cell, 2006, 22, 831-842.	9.7	159
4	lon Mobility Spectrometry–Mass Spectrometry Defines the Oligomeric Intermediates in Amylin Amyloid Formation and the Mode of Action of Inhibitors. Journal of the American Chemical Society, 2014, 136, 660-670.	13.7	158
5	Lateral opening in the intact Î <sup>2</sup> -barrel assembly machinery captured by cryo-EM. Nature Communications, 2016, 7, 12865.	12.8	157
6	Elongated oligomers in <i>β</i> <sub>2</sub> -microglobulin amyloid assembly revealed by ion mobility spectrometry-mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6794-6798.	7.1	147
7	Direct Observation of Oligomeric Species formed in the Early Stages of Amyloid Fibril Formation using Electrospray Ionisation Mass Spectrometry. Journal of Molecular Biology, 2006, 364, 9-19.	4.2	137
8	A Simple, RNA-Mediated Allosteric Switch Controls the Pathway to Formation of a T=3 Viral Capsid. Journal of Molecular Biology, 2007, 369, 541-552.	4.2	128
9	Monitoring copopulated conformational states during protein folding events using electrospray ionization-ion mobility spectrometry-mass spectrometry. Journal of the American Society for Mass Spectrometry, 2007, 18, 2180-2190.	2.8	122
10	Widespread, routine occurrence of pharmaceuticals in sewage effluent, combined sewer overflows and receiving waters. Environmental Pollution, 2017, 220, 1447-1455.	7.5	95
11	Ligand binding to distinct states diverts aggregation of an amyloid-forming protein. Nature Chemical Biology, 2011, 7, 730-739.	8.0	93
12	The Effect of Dimethylbiguanide on Thrombin Activity, FXIII Activation, Fibrin Polymerization, and Fibrin Clot Formation. Diabetes, 2002, 51, 189-197.	0.6	90
13	Engineering the surface properties of a human monoclonal antibody prevents self-association and rapid clearance in vivo. Scientific Reports, 2016, 6, 38644.	3.3	89
14	Skp is a multivalent chaperone of outer-membrane proteins. Nature Structural and Molecular Biology, 2016, 23, 786-793.	8.2	82
15	Determining the topology of virus assembly intermediates using ion mobility spectrometry–mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 3033-3042.	1.5	81
16	Inducing protein aggregation by extensional flow. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4673-4678.	7.1	77
17	Small molecule probes of protein aggregation. Current Opinion in Chemical Biology, 2017, 39, 90-99.	6.1	77
18	An in vivo platform for identifying inhibitors of protein aggregation. Nature Chemical Biology, 2016, 12, 94-101.	8.0	75

#	Article	IF	CITATIONS
19	Considerations in experimental and theoretical collision cross-section measurements of small molecules using travelling wave ion mobility spectrometry-mass spectrometry. International Journal of Mass Spectrometry, 2010, 298, 17-23.	1.5	72
20	Co-populated Conformational Ensembles of β2-Microglobulin Uncovered Quantitatively by Electrospray Ionization Mass Spectrometry. Journal of Biological Chemistry, 2004, 279, 27069-27077.	3.4	68
21	The dhnA gene of Escherichia coli encodes a Class I fructose bisphosphate aldolase. Biochemical Journal, 1998, 331, 437-445.	3.7	65
22	Engineering Thermal Stability in RNA Phage Capsids via Disulphide Bonds. Journal of Nanoscience and Nanotechnology, 2005, 5, 2034-2041.	0.9	64
23	The Impact of Viral RNA on Assembly Pathway Selection. Journal of Molecular Biology, 2010, 401, 298-308.	4.2	64
24	Thermodynamic origins of protein folding, allostery, and capsid formation in the human hepatitis B virus core protein. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2782-91.	7.1	64
25	Effects of Periplasmic Chaperones and Membrane Thickness on BamA-Catalyzed Outer-Membrane Protein Folding. Journal of Molecular Biology, 2017, 429, 3776-3792.	4.2	63
26	Mass spectrometry and the amyloid problem—How far can we go in the gas phase?. Journal of the American Society for Mass Spectrometry, 2010, 21, 1087-1096.	2.8	61
27	Amphipathic Polymers Enable the Study of Functional Membrane Proteins in the Gas Phase. Analytical Chemistry, 2012, 84, 9841-9847.	6.5	61
28	Viral Genomic Single-Stranded RNA Directs the Pathway Toward a T=3 Capsid. Journal of Molecular Biology, 2010, 395, 924-936.	4.2	60
29	GroEL accelerates the refolding of hen lysozyme without changing its folding mechanism. Nature Structural Biology, 1999, 6, 683-690.	9.7	59
30	Investigating the structural properties of amyloid-like fibrils formedin vitro fromβ2-microglobulin using limited proteolysis and electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 1628-1636.	1.5	58
31	Recent developments in electrospray ionisation mass spectrometry: noncovalently bound protein complexes. Natural Product Reports, 2005, 22, 452.	10.3	57
32	Mass spectrometric methods to analyze the structural organization of macromolecular complexes. Methods, 2015, 89, 13-21.	3.8	55
33	Separation of?2-microglobulin conformers by high-field asymmetric waveform ion mobility spectrometry (FAIMS) coupled to electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 2229-2234.	1.5	54
34	Molecular insights into the surface-catalyzed secondary nucleation of amyloid-β <sub>40</sub> (Aβ) Tj ETQqQ	0 0 0 rgBT /0 10.3	Overlock 10 T
35	Amphipols Outperform Dodecylmaltoside Micelles in Stabilizing Membrane Protein Structure in the Gas Phase. Analytical Chemistry, 2015, 87, 1118-1126.	6.5	50

<sup>36</sup>ESI-IMSâ€"MS: A method for rapid analysis of protein aggregation and its inhibition by small molecules.<br/>Methods, 2016, 95, 62-69.3.850

ALISON E ASHCROFT

#	Article	IF	CITATIONS
37	Insights into the consequences of co-polymerisation in the early stages of IAPP and $A\hat{l}^2$ peptide assembly from mass spectrometry. Analyst, The, 2015, 140, 6990-6999.	3.5	48
38	Inter-domain dynamics in the chaperone SurA and multi-site binding to its outer membrane protein clients. Nature Communications, 2020, 11, 2155.	12.8	48
39	Protein and peptide identification: the rÃ1e of mass spectrometry in proteomics. Natural Product Reports, 2003, 20, 202-215.	10.3	47
40	Insights into virus capsid assembly from non ovalent mass spectrometry. Mass Spectrometry Reviews, 2008, 27, 575-595.	5.4	47
41	Comparing Hydrogen Deuterium Exchange and Fast Photochemical Oxidation of Proteins: a Structural Characterisation of Wild-Type and ΔN6 β <sub>2</sub> -Microglobulin. Journal of the American Society for Mass Spectrometry, 2018, 29, 2413-2426.	2.8	43
42	Investigating the Structural Compaction of Biomolecules Upon Transition to the Gas-Phase Using ESI-TWIMS-MS. Journal of the American Society for Mass Spectrometry, 2017, 28, 1855-1862.	2.8	42
43	HDX-ESI-MS reveals enhanced conformational dynamics of the amyloidogenic protein <i>l²</i> <sub>2</sub> -microglobulin upon release from the MHC-1. Journal of the American Society for Mass Spectrometry, 2009, 20, 278-286.	2.8	37
44	Determination of testosterone and epitestosterone glucuronides in urine by ultra performance liquid chromatography-ion mobility-mass spectrometry. Analyst, The, 2011, 136, 3911.	3.5	37
45	Understanding co-polymerization in amyloid formation by direct observation of mixed oligomers. Chemical Science, 2017, 8, 5030-5040.	7.4	37
46	Expanding the Repertoire of Amyloid Polymorphs by Co-polymerization of Related Protein Precursors. Journal of Biological Chemistry, 2013, 288, 7327-7337.	3.4	36
47	A nearâ€native state on the slow refolding pathway of hen lysozyme. Protein Science, 1999, 8, 35-44.	7.6	35
48	Molecular dissection of membrane-transport proteins: mass spectrometry and sequence determination of the galactose–H+ symport protein, GalP, of Escherichia coli and quantitative assay of the incorporation of [ring-2-13C]histidine and 15NH3. Biochemical Journal, 2002, 363, 243-252.	3.7	33
49	Examination of Ataxin-3 (atx-3) Aggregation by Structural Mass Spectrometry Techniques: A Rationale for Expedited Aggregation upon Polyglutamine (polyQ) Expansion*. Molecular and Cellular Proteomics, 2015, 14, 1241-1253.	3.8	33
50	FPOP-LC-MS/MS Suggests Differences in Interaction Sites of Amphipols and Detergents with Outer Membrane Proteins. Journal of the American Society for Mass Spectrometry, 2017, 28, 50-55.	2.8	33
51	RNA aptamers for the MS2 bacteriophage coat protein and the wild-type RNA operator have similar solution behaviour. Nucleic Acids Research, 2000, 28, 489-497.	14.5	32
52	Structural Plasticity and Noncovalent Substrate Binding in the GroEL Apical Domain. Journal of Biological Chemistry, 2002, 277, 33115-33126.	3.4	31
53	Using hydroxyl radical footprinting to explore the free energy landscape of protein folding. Methods, 2015, 89, 38-44.	3.8	31
54	Systematic analysis of the use of amphipathic polymers for studies of outer membrane proteins using mass spectrometry. International Journal of Mass Spectrometry, 2015, 391, 54-61.	1.5	30

ALISON E ASHCROFT

#	Article	IF	CITATIONS
55	Topological Dissection of the Membrane Transport Protein Mhp1 Derived from Cysteine Accessibility and Mass Spectrometry. Analytical Chemistry, 2017, 89, 8844-8852.	6.5	28
56	Structure and Dynamics of Oligomeric Intermediates in β2-Microglobulin Self-Assembly. Biophysical Journal, 2011, 101, 1238-1247.	0.5	25
57	Unraveling Lactococcal Phage Baseplate Assembly by Mass Spectrometry. Molecular and Cellular Proteomics, 2011, 10, M111.009787.	3.8	24
58	The role of conformational flexibility in β 2 â€microglobulin amyloid fibril formation at neutral pH. Rapid Communications in Mass Spectrometry, 2012, 26, 1783-1792.	1.5	24
59	Assembly Pathway of Hepatitis B Core Virus-like Particles from Genetically Fused Dimers. Journal of Biological Chemistry, 2015, 290, 16238-16245.	3.4	24
60	Insights into the role of the beta-2 microglobulin D-strand in amyloid propensity revealed by mass spectrometry. Molecular BioSystems, 2014, 10, 412-420.	2.9	22
61	Hydrodynamics of the VanA-type VanS histidine kinase: an extended solution conformation and first evidence for interactions with vancomycin. Scientific Reports, 2017, 7, 46180.	3.3	22
62	An in vivo platform to select and evolve aggregation-resistant proteins. Nature Communications, 2020, 11, 1816.	12.8	22
63	Using Ion Mobility Spectrometry–Mass Spectrometry to Decipher the Conformational and Assembly Characteristics of the Hepatitis B Capsid Protein. Biophysical Journal, 2013, 105, 1258-1267.	O.5	21
64	The Role of Ion Mobility Spectrometry–Mass Spectrometry in the Analysis of Protein Reference Standards. Analytical Chemistry, 2013, 85, 7205-7212.	6.5	21
65	Conformational flexibility within the nascent polypeptide–associated complex enables its interactions with structurally diverse client proteins. Journal of Biological Chemistry, 2018, 293, 8554-8568.	3.4	20
66	Long-Range Conformational Changes in Monoclonal Antibodies Revealed Using FPOP-LC-MS/MS. Analytical Chemistry, 2019, 91, 15163-15170.	6.5	18
67	Mass spectrometry-based studies of virus assembly. Current Opinion in Virology, 2019, 36, 17-24.	5.4	16
68	Mass Spectrometry Characterization of Higher Order Structural Changes Associated with the Fc-glycan Structure of the NISTmAb Reference Material, RM 8761. Journal of the American Society for Mass Spectrometry, 2020, 31, 553-564.	2.8	16
69	A study of human coagulation factor XIII A-subunit by electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2000, 14, 1607-1611.	1.5	15
70	A tale of a tail: Structural insights into the conformational properties of the polyglutamine protein ataxin-3. International Journal of Mass Spectrometry, 2013, 345-347, 63-70.	1.5	15
71	The Feeding Tube of Cyst Nematodes: Characterisation of Protein Exclusion. PLoS ONE, 2014, 9, e87289.	2.5	14
72	Monitoring oligomer formation from self-aggregating amylin peptides using ESI-IMS-MS. International Journal for Ion Mobility Spectrometry, 2013, 16, 29-39.	1.4	13

ALISON E ASHCROFT

#	Article	IF	CITATIONS
73	RNA Packing Specificity and Folding during Assembly of the Bacteriophage MS2. Computational and Mathematical Methods in Medicine, 2008, 9, 339-349.	1.3	12
74	Defining topological features of membrane proteins by nanoelectrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 276-284.	1.5	12
75	Changes in protein structure monitored by use of gasâ€phase hydrogen/deuterium exchange. Proteomics, 2015, 15, 2842-2850.	2.2	12
76	Characterization of Amyloid Oligomers by Electrospray Ionization-Ion Mobility Spectrometry-Mass Spectrometry (ESI-IMS-MS). Methods in Molecular Biology, 2016, 1345, 115-132.	0.9	10
77	Real-Time Measurement of Myosin–Nucleotide Noncovalent Complexes by Electrospray Ionization Mass Spectrometry. Biophysical Journal, 2007, 93, 914-919.	0.5	6
78	<i>De novo</i> sequencing of short interfering ribonucleic acids facilitated by use of tandem mass spectrometry with ion mobility spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 2247-2254.	1.5	6
79	Probing Bunyavirus N protein oligomerisation using mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 793-800.	1.5	6
80	A comparison of the folding characteristics of free and ribosomeâ€ŧethered polypeptide chains using limited proteolysis and mass spectrometry. Protein Science, 2015, 24, 1282-1291.	7.6	6
81	Critical concentrations of <i>β</i> â€sheet peptide selfâ€assembly quantified directly by nanoelectrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 1611-1614.	1.5	4
82	A snapshot of electrified nanodroplets undergoing Coulomb fission. Applied Physics Letters, 2012, 100, 074103.	3.3	4
83	Identification of a novel site of interaction between ataxin-3 and the amyloid aggregation inhibitor polyglutamine binding peptide 1. European Journal of Mass Spectrometry, 2018, 24, 129-140.	1.0	4
84	Reference Protocol to Assess Analytical Performance of Higher Order Structural Analysis Measurements: Results from an Interlaboratory Comparison. Analytical Chemistry, 2021, 93, 9041-9048.	6.5	4
85	Validation of ion mobility spectrometry ―mass spectrometry as a screening tool to identify type II kinase inhibitors of FGFR1 kinase. Rapid Communications in Mass Spectrometry, 2021, , e9130.	1.5	4
86	Investigation of D76N β <sub>2</sub> -Microglobulin Using Protein Footprinting and Structural Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2021, 32, 1583-1592.	2.8	3
87	Review. Journal of the American Society for Mass Spectrometry, 2007, 18, R3-R4.	2.8	2
88	Protein Misfolding and Toxicity in Dialysis-Related Amyloidosis. , 2012, , 377-405.		2
89	An Investigation into the Properties of a Chaperone Domain and Analysis of the Non-covalently Bound Complexes with Peptide Substrates using Mass Spectrometry. Biochemical Society Transactions, 2000, 28, A70-A70.	3.4	0
90	A comparison of the electromechanical properties of structurally diverse proteins by molecular dynamics simulation. Journal of Biomolecular Structure and Dynamics, 2014, 32, 1734-1741.	3.5	0