Kevin Pagel

List of Publications by Year
in descending order

129	5,025	71102	102487
papers	citations	41 h-index	66 g-index

139	139	139	4495
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recommendations for reporting ion mobility Mass Spectrometry measurements. Mass Spectrometry Reviews, 2019, 38, 291-320.	5.4	315
2	Identification of carbohydrate anomers using ion mobilityâ€“mass spectrometry. Nature, 2015, 526, 241-244.	27.8	287
3	Protomers of Benzocaine: Solvent and Permittivity Dependence. Journal of the American Chemical Society, 2015, 137, 4236-4242.	13.7	172
4	An infrared spectroscopy approach to follow Î²-sheet formation in peptide amyloid assemblies. Nature Chemistry, 2017, 9, 39-44.	13.6	163
5	Alternate Dissociation Pathways Identified in Charge-Reduced Protein Complex Ions. Analytical Chemistry, 2010, 82, 5363-5372.	6.5	145
6	Glycan Analysis by Ion Mobilityâ€“Mass Spectrometry. Angewandte Chemie - International Edition, 2017, 56, 8342-8349.	13.8	129
7	Ion Mobilityâ€“Mass Spectrometry of Complex Carbohydrates: Collision Cross Sections of Sodiated N-linked Glycans. Analytical Chemistry, 2013, 85, 5138-5145.	6.5	121
8	Glycan Fingerprinting via Coldâ€Ion Infrared Spectroscopy. Angewandte Chemie - International Edition, 2017, 56, 11248-11251.	13.8	116
9	Random Coils, Î²-Sheet Ribbons, and Î±-Helical Fibers:Â One Peptide Adopting Three Different Secondary Structures at Will. Journal of the American Chemical Society, 2006, 128, 2196-2197.	13.7	109
10	Advancing Solutions to the Carbohydrate Sequencing Challenge. Journal of the American Chemical Society, 2019, 141, 14463-14479.	13.7	108
11	Retention of Native Protein Structures in the Absence of Solvent: A Coupled Ion Mobility and Spectroscopic Study. Angewandte Chemie - International Edition, 2016, 55, 14173-14176.	13.8	106
12	Automated glycan assembly using the Glyconeer 2.1 synthesizer. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3385-E3389.	7.1	92
13	Distinguishing N-acetylneuraminic acid linkage isomers on glycopeptides by ion mobility-mass spectrometry. Chemical Communications, 2016, 52, 4381-4384.	4.1	91
14	Photodissociation of Conformer-Selected Ubiquitin Ions Reveals Site-Specific Cis/Trans Isomerization of Proline Peptide Bonds. Journal of the American Chemical Society, 2014, 136, 10308-10314.	13.7	88
15	Estimating Collision Cross Sections of Negatively Charged N-Glycans using Traveling Wave Ion Mobility-Mass Spectrometry. Analytical Chemistry, 2014, 86, 10789-10795.	6.5	86
16	Intrinsically Disordered p53 and Its Complexes Populate Compact Conformations in the Gas Phase. Angewandte Chemie - International Edition, 2013, 52, 361-365.	13.8	85
17	Interaction of the p53 DNA-Binding Domain with Its N-Terminal Extension Modulates the Stability of the p53 Tetramer. Journal of Molecular Biology, 2011, 409, 358-368.	4.2	81
18	Protein Structure in the Gas Phase: The Influence of Side-Chain Microsolvation. Journal of the American Chemical Society, 2013, 135, 1177-1180.	13.7	77

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19	Secondary Structure of Ac-Ala_n-LysH⁺ Polyalanine Peptides (n =) Tj ETQq1 1 0.784314 rgBT /Ov	4.6	76
20	Remote Participation during Glycosylation Reactions of Galactose Building Blocks: Direct Evidence from Cryogenic Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 6166-6171.	13.8	76
21	GlycoMob: an ion mobility-mass spectrometry collision cross section database for glycomics. Glycoconjugate Journal, 2016, 33, 399-404.	2.7	73
22	Modular detergents tailor the purification and structural analysis of membrane proteins including G-protein coupled receptors. Nature Communications, 2020, 11, 564.	12.8	72
23	Mass Spectrometry-Based Techniques to Elucidate the Sugar Code. Chemical Reviews, 2022, 122, 7840-7908.	47.7	67
24	The impact of environment and resonance effects on the site of protonation of aminobenzoic acid derivatives. Physical Chemistry Chemical Physics, 2016, 18, 25474-25482.	2.8	66
25	Chargeâ€Induced Unzipping of Isolated Proteins to a Defined Secondary Structure. Angewandte Chemie - International Edition, 2016, 55, 3295-3299.	13.8	64
26	Amide-I and -II Vibrations of the Cyclic Î²-Sheet Model Peptide Gramicidin S in the Gas Phase. Journal of the American Chemical Society, 2010, 132, 2085-2093.	13.7	62
27	Glycan analysis by ion mobility-mass spectrometry and gas-phase spectroscopy. Current Opinion in Chemical Biology, 2018, 42, 16-24.	6.1	62
28	Unravelling the structure of glycosyl cations via cold-ion infrared spectroscopy. Nature Communications, 2018, 9, 4174.	12.8	60
29	Identification of Lewis and Blood Group Carbohydrate Epitopes by Ion Mobility-Tandem-Mass Spectrometry Fingerprinting. Analytical Chemistry, 2017, 89, 2318-2325.	6.5	57
30	Ion mobility separation of deprotonated oligosaccharide isomers â€“ evidence for gas-phase charge migration. Chemical Communications, 2016, 52, 12353-12356.	4.1	56
31	Infrared spectrum and structure of the homochiral serine octamerâ€“dichloride complex. Nature Chemistry, 2017, 9, 1263-1268.	13.6	56
32	How Metal Ions Affect Amyloid Formation: Cu²⁺â€•and Zn²⁺â€Sensitive Peptides. ChemBioChem, 2008, 9, 531-536.	2.6	53
33	In-depth structural analysis of glycans in the gas phase. Chemical Science, 2019, 10, 1272-1284.	7.4	52
34	Following polypeptide folding and assembly with conformational switches. Current Opinion in Chemical Biology, 2008, 12, 730-739.	6.1	51
35	Fucose Migration in Intact Protonated Glycan Ions: A Universal Phenomenon in Mass Spectrometry. Angewandte Chemie - International Edition, 2018, 57, 7440-7443.	13.8	51
36	Polysulfates Block SARSâ€CoVâ€2 Uptake through Electrostatic Interactions**. Angewandte Chemie - International Edition, 2021, 60, 15870-15878.	13.8	49

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37	Exploring the conformational preferences of 20-residue peptides in isolation: Ac-Ala₁₉-Lys + H⁺vs. Ac-Lys-Ala₁₉ + H⁺ and the current reach of DFT. Physical Chemistry Chemical Physics, 2015, 17, 7373-7385.	2.8	48
38	NFGAIL Amyloid Oligomers: The Onset of Beta-Sheet Formation and the Mechanism for Fibril Formation. Journal of the American Chemical Society, 2018, 140, 244-249.	13.7	47
39	Surprising solvent-induced structural rearrangements in large [Nâ¯I⁺â¯N] halogen-bonded supramolecular capsules: an ion mobility-mass spectrometry study. Chemical Science, 2018, 9, 8343-8351.	7.4	47
40	Emergence of low-symmetry foldamers from single monomers. Nature Chemistry, 2020, 12, 1180-1186.	13.6	47
41	Energy-Resolved Ion Mobility-Mass Spectrometryâ€"A Concept to Improve the Separation of Isomeric Carbohydrates. Journal of the American Society for Mass Spectrometry, 2014, 25, 471-479.	2.8	46
42	Analyzing the higher order structure of proteins with conformerâ€selective ultraviolet photodissociation. Proteomics, 2015, 15, 2804-2812.	2.2	45
43	From Î±-helix to Î²-sheet â€" a reversible metal ion induced peptide secondary structure switch. Organic and Biomolecular Chemistry, 2005, 3, 2500.	2.8	42
44	Directing the secondary structure of polypeptides at will: from helices to amyloids and back again?. Organic and Biomolecular Chemistry, 2005, 3, 3843.	2.8	40
45	Glycan Isomer Identification Using Ultraviolet Photodissociation Initiated Radical Chemistry. Analytical Chemistry, 2018, 90, 11581-11588.	6.5	39
46	Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. Nature Communications, 2020, 11, 1481.	12.8	39
47	Collision cross sections of high-mannose N-glycans in commonly observed adduct states â€" identification of gas-phase conformers unique to [M â^' H]^{â^'} ions. Analyst, The, 2015, 140, 6799-6803.	3.5	37
48	How Cations Change Peptide Structure. Chemistry - A European Journal, 2013, 19, 11224-11234.	3.3	36
49	Unravelling the structural complexity of glycolipids with cryogenic infrared spectroscopy. Nature Communications, 2021, 12, 1201.	12.8	36
50	Travellingâ€wave ion mobility and negative ion fragmentation of highâ€mannose Nâ€glycans. Journal of Mass Spectrometry, 2016, 51, 219-235.	1.6	34
51	Global N-Glycan Site Occupancy of HIV-1 gp120 by Metabolic Engineering and High-Resolution Intact Mass Spectrometry. ACS Chemical Biology, 2017, 12, 357-361.	3.4	34
52	Ion mobilityâ€"mass spectrometry as a tool to investigate proteinâ€"ligand interactions. Analytical and Bioanalytical Chemistry, 2017, 409, 4305-4310.	3.7	33
53	Intramolecular Charge Interactions as a Tool to Control the Coiledâ€Coilâ€toâ€Amyloid Transformation. Chemistry - A European Journal, 2008, 14, 11442-11451.	3.3	31
54	Ion mobility-mass spectrometry and orthogonal gas-phase techniques to study amyloid formation and inhibition. Current Opinion in Structural Biology, 2017, 46, 7-15.	5.7	31

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55	An Intrinsic Hydrophobicity Scale for Amino Acids and Its Application to Fluorinated Compounds. Angewandte Chemie - International Edition, 2019, 58, 8216-8220.	13.8	30
56	Travellingâ€wave ion mobility mass spectrometry and negative ion fragmentation of hybrid and complex Nâ€glycans. Journal of Mass Spectrometry, 2016, 51, 1064-1079.	1.6	28
57	The role of the mobile proton in fucose migration. Analytical and Bioanalytical Chemistry, 2019, 411, 4637-4645.	3.7	27
58	Collision Cross Sections and Ion Mobility Separation of Fragment Ions from Complex N-Glycans. Journal of the American Society for Mass Spectrometry, 2018, 29, 1250-1261.	2.8	26
59	Online monitoring the isomerization of an azobenzene-based dendritic bolaamphiphile using ion mobility-mass spectrometry. Chemical Communications, 2015, 51, 8801-8804.	4.1	25
60	Advanced approaches for the characterization of a de novo designed antiparallel coiled coil peptide. Organic and Biomolecular Chemistry, 2005, 3, 1189.	2.8	24
61	IR action spectroscopy of glycosaminoglycan oligosaccharides. Analytical and Bioanalytical Chemistry, 2020, 412, 533-537.	3.7	24
62	Gas-Phase Structural Analysis of Supramolecular Assemblies. Accounts of Chemical Research, 2021, 54, 2445-2456.	15.6	24
63	Dissecting structure-function of 3-O-sulfated heparin and engineered heparan sulfates. Science Advances, 2021, 7, eabl6026.	10.3	23
64	Resolving Sphingolipid Isomers Using Cryogenic Infrared Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 13638-13642.	13.8	22
65	Separation of isomeric glycans by ion mobility spectrometry â€“ the impact of fluorescent labelling. Analyst, The, 2019, 144, 5292-5298.	3.5	21
66	Direct Experimental Characterization of the Ferrier Glycosyl Cation in the Gas Phase. Organic Letters, 2020, 22, 8916-8919.	4.6	21
67	A new azobenzene-based design strategy for detergents in membrane protein research. Chemical Science, 2020, 11, 3538-3546.	7.4	21
68	Structure Analysis of an Amyloid-Forming Model Peptide by a Systematic Glycine and Proline Scan. Biomacromolecules, 2011, 12, 2988-2996.	5.4	20
69	Cryogenic Infrared Spectroscopy Reveals Structural Modularity in the Vibrational Fingerprints of Heparan Sulfate Diastereomers. Analytical Chemistry, 2020, 92, 10228-10232.	6.5	20
70	Gas-phase microsolvation of ubiquitin: investigation of crown ether complexation sites using ion mobility-mass spectrometry. Analyst, The, 2016, 141, 5502-5510.	3.5	19
71	Switchable synchronisation of pirouetting motions in a redox-active [3]rotaxane. Nanoscale, 2018, 10, 21425-21433.	5.6	19
72	Gas-phase IR spectra of intact Î±-helical coiled coil protein complexes. International Journal of Mass Spectrometry, 2009, 283, 161-168.	1.5	18

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73	Side-chain effects on the structures of protonated amino acid dimers: A gas-phase infrared spectroscopy study. International Journal of Mass Spectrometry, 2018, 429, 115-120.	1.5	18
74	Fernpartizipation in Glykosylierungen von Galaktoseâ€Bausteinen: Direktnachweis durch kryogene Schwingungsspektroskopie. Angewandte Chemie, 2020, 132, 6224-6229.	2.0	17
75	Ladungsinduziertes Entwinden isolierter Proteine zu einer definierten SekundÃrstruktur. Angewandte Chemie, 2016, 128, 3356-3360.	2.0	16
76	FingerabdrÃ¼cke fÃ¼r Glykane durch Spektroskopie kalter Ionen. Angewandte Chemie, 2017, 129, 11400-11404.	2.0	16
77	Stateâ€ofâ€theâ€art glycosaminoglycan characterization. Mass Spectrometry Reviews, 2022, 41, 1040-1071.	5.4	16
78	Presynaptic Calmodulin targets: lessons from structural proteomics. Expert Review of Proteomics, 2017, 14, 223-242.	3.0	15
79	From Compact to Stringâ€"The Role of Secondary and Tertiary Structure in Charge-Induced Unzipping of Gas-Phase Proteins. Journal of the American Society for Mass Spectrometry, 2017, 28, 638-646.	2.8	15
80	Exploring the Potential of Dendritic Oligoglycerol Detergents for Protein Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 174-180.	2.8	15
81	The Impact of Leaving Group Anomericity on the Structure of Glycosyl Cations of Protected Galactosides. ChemPhysChem, 2020, 21, 1905-1907.	2.1	15
82	Unveiling Glycerolipid Fragmentation by Cryogenic Infrared Spectroscopy. Journal of the American Chemical Society, 2021, 143, 14827-14834.	13.7	15
83	Analytical challenges of glycosaminoglycans at biological interfaces. Analytical and Bioanalytical Chemistry, 2021, , 1.	3.7	15
84	Native like helices in a specially designed Î² peptide in the gas phase. Physical Chemistry Chemical Physics, 2015, 17, 5376-5385.	2.8	14
85	Noncharged and Charged Monodendronised Perylene Bisimides as Highly Fluorescent Labels and their Bioconjugates. Chemistry - A European Journal, 2017, 23, 4849-4862.	3.3	14
86	Oligomerisation of Synaptobrevin-2 Studied by Native Mass Spectrometry and Chemical Cross-Linking. Journal of the American Society for Mass Spectrometry, 2019, 30, 149-160.	2.8	14
87	Assessing the stability of alanine-based helices by conformer-selective IR spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 19950-19954.	2.8	13
88	Plate-height model of ion mobility-mass spectrometry. Analyst, The, 2020, 145, 6313-6333.	3.5	13
89	Critical Evaluation of Native Electrospray Ionization Mass Spectrometry for Fragmentâ€Based Screening. ChemMedChem, 2017, 12, 1201-1211.	3.2	12
90	Sclerotiorin Stabilizes the Assembly of Nonfibrillar Abeta42 Oligomers with Low Toxicity, Seeding Activity, and Beta-sheet Content. Journal of Molecular Biology, 2020, 432, 2080-2098.	4.2	12

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91	Dendritic Oligoglycerol Regioisomer Mixtures and Their Utility for Membrane Protein Research. Chemistry - A European Journal, 2021, 27, 2537-2542.	3.3	12
92	Gas-phase infrared spectroscopy of glycans and glycoconjugates. Current Opinion in Structural Biology, 2022, 72, 194-202.	5.7	10
93	Neighboring Group Participation of Benzoyl Protecting Groups in C3â€•and C6â€Fluorinated Glucose. European Journal of Organic Chemistry, 2022, 2022, .	2.4	10
94	Studying the Key Intermediate of RNA Autohydrolysis by Cryogenic Gasâ€Phase Infrared Spectroscopy. Angewandte Chemie - International Edition, 2022, 61, .	13.8	9
95	Non-ionic hybrid detergents for protein delipidation. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183958.	2.6	9
96	Plateâ€height model of ion mobilityâ€mass spectrometry: Part 2â€”Peakâ€toâ€peak resolution and peak capacity. Journal of Separation Science, 2021, 44, 2798-2813.	2.5	8
97	Cryogenic infrared spectroscopy provides mechanistic insight into the fragmentation of phospholipid silver adducts. Analytical and Bioanalytical Chemistry, 2022, 414, 5275-5285.	3.7	8
98	Charge-induced geometrical reorganization of DNA oligonucleotides studied by tandem mass spectrometry and ion mobility. European Journal of Mass Spectrometry, 2018, 24, 225-230.	1.0	7
99	Fucoseâ€Migration in intakten protonierten Glykanâ€Ionen â€“ ein universelles PhÃnomen in der Massenspektrometrie. Angewandte Chemie, 2018, 130, 7562-7565.	2.0	7
100	Switchable Solubility of Azobenzeneâ€Based Bolaamphiphiles. ChemPhysChem, 2019, 20, 1690-1697.	2.1	7
101	Chondroitin Sulfate Disaccharides in the Gas Phase: Differentiation and Conformational Constraints. Journal of Physical Chemistry A, 2021, 125, 4373-4379.	2.5	7
102	Protein Secondary Structure Affects Glycan Clustering in Native Mass Spectrometry. Life, 2021, 11, 554.	2.4	7
103	The protofilament architecture of a de novo designed coiled coil-based amyloidogenic peptide. Journal of Structural Biology, 2018, 203, 263-272.	2.8	6
104	Non-covalent double bond sensors for gas-phase infrared spectroscopy of unsaturated fatty acids. Analytical and Bioanalytical Chemistry, 2021, 413, 3643-3653.	3.7	5
105	Glykananalyse mittels IonenmobilitÃtsâ€Massenspektrometrie. Angewandte Chemie, 2017, 129, 8458-8466.	2.0	4
106	To Anionâ€“Ï€ or not to Anionâ€“Ï€: The Case of Anionâ€Binding to Divalent Fluorinated Pyridines in the Gas Phase. Chemistry - A European Journal, 2018, 24, 12879-12889.	3.3	4
107	Exon Inclusion Modulates Conformational Plasticity and Autoinhibition of the Intersectin 1 SH3A Domain. Structure, 2019, 27, 977-987.e5.	3.3	4
108	Comparison of the fragmentation behavior of DNA and LNA single strands and duplexes. Journal of Mass Spectrometry, 2019, 54, 402-411.	1.6	4

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109	Dextran as internal calibrant for N-glycan analysis by liquid chromatography coupled to ion mobility-mass spectrometry. Analytical and Bioanalytical Chemistry, 2022, 414, 5023-5031.	3.7	4
110	Conformational Shift of a Î²â€Hairpin Peptide upon Complex Formation with an Oligoâ€“proline Peptide Studied by Mass Spectrometry. ChemistrySelect, 2016, 1, 3651-3656.	1.5	3
111	Die Erhaltung nativer Proteinstrukturen unter Ausschluss von LÃ¶sungsmittel: eine Untersuchung mit Hilfe der Kombination von IonenmobilitÃt mit Spektroskopie. Angewandte Chemie, 2016, 128, 14380-14384.	2.0	3
112	Structural characterization of fondaparinux interaction with per-6-amino-beta-cyclodextrin: An NMR and MS study. Journal of Pharmaceutical and Biomedical Analysis, 2021, 197, 113947.	2.8	3
113	The interaction of chondroitin sulfate with a lipid monolayer observed by using nonlinear vibrational spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 13389-13395.	2.8	3
114	Photooxygenation and gasâ€phase reactivity of multiply threaded pseudorotaxanes. Journal of Mass Spectrometry, 2016, 51, 269-281.	1.6	2
115	Eine intrinsische Hydrophobieskala fÃ¼r AminosÃuren und ihre Anwendung auf fluorierte Verbindungen. Angewandte Chemie, 2019, 131, 8300-8304.	2.0	2
116	Modular Ion Mobility Calibrants for Organometallic Anions Based on Tetraorganylborate Salts. Analytical Chemistry, 2021, 93, 9797-9807.	6.5	2
117	Unterscheidung von isomeren Sphingolipiden mittels kryogener Infrarotspektroskopie. Angewandte Chemie, 2020, 132, 13740-13744.	2.0	1
118	Frontispiece: Studying the Key Intermediate of RNA Autohydrolysis by Cryogenic Gasâ€Phase Infrared Spectroscopy. Angewandte Chemie - International Edition, 2022, 61, .	13.8	1
119	Local Conformational Preferences of Peptides Near Attached Cations: Structure Determination by First-Principles Theory and IR-Spectroscopy. Biophysical Journal, 2012, 102, 46a.	0.5	0
120	Is there a Beta-Peptide Equivalent of the Alpha-Helix?. Biophysical Journal, 2014, 106, 654a.	0.5	0
121	RÃ¼cktitelbild: Die Erhaltung nativer Proteinstrukturen unter Ausschluss von LÃ¶sungsmittel: eine Untersuchung mit Hilfe der Kombination von IonenmobilitÃt mit Spektroskopie (Angew. Chem. 45/2016). Angewandte Chemie, 2016, 128, 14386-14386.	2.0	0
122	Von normalen Proteinen zu unlÃ¶slichen Ablagerungen. Nachrichten Aus Der Chemie, 2017, 65, 874-878.	0.0	0
123	Trendbericht: Analytische Chemie 2016/2017. Nachrichten Aus Der Chemie, 2018, 66, 389-399.	0.0	0
124	Innentitelbild: Unterscheidung von isomeren Sphingolipiden mittels kryogener Infrarotspektroskopie (Angew. Chem. 32/2020). Angewandte Chemie, 2020, 132, 13226-13226.	2.0	0
125	Polysulfate hemmen durch elektrostatische Wechselwirkungen die SARSâ€CoVâ€2â€Infektion**. Angewandte Chemie, 2021, 133, 16005-16014.	2.0	0
126	Untersuchung des reaktiven Intermediats der RNA Autohydrolyse mittels kryogener Infrarotspektroskopie in der Gasphase. Angewandte Chemie, 0, , .	2.0	0

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127	Kohlenhydratanalytik. , 2022, , 659-688.		0
128	Frontispiz: Untersuchung des reaktiven Intermediats der RNA Autohydrolyse mittels kryogener Infrarotspektroskopie in der Gasphase. Angewandte Chemie, 2022, 134, .	2.0	0
129	Diagnosing cancer from a drop of blood. Natural Sciences, 2022, 2, .	2.1	0