

Nicolas C Polfer

List of Publications by Year in descending order

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42
papers

1,468
citations

361413

20
h-index

315739

38
g-index

47
all docs

47
docs citations

47
times ranked

1151
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibrational spectroscopy of bare and solvated ionic complexes of biological relevance. <i>Mass Spectrometry Reviews</i> , 2009, 28, 468-494.	5.4	390
2	Infrared multiple photon dissociation spectroscopy of trapped ions. <i>Chemical Society Reviews</i> , 2011, 40, 2211.	38.1	267
3	On the Dynamics of Fragment Isomerization in Collision-Induced Dissociation of Peptides. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1286-1293.	2.5	82
4	Effects of ESI conditions on kinetic trapping of the solution-phase protonation isomer of p-aminobenzoic acid in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2017, 418, 148-155.	1.5	57
5	Amine vs. carboxylic acid protonation in ortho-, meta-, and para-aminobenzoic acid: An IRMPD spectroscopy study. <i>Journal of Molecular Spectroscopy</i> , 2017, 332, 79-85.	1.2	43
6	Peptide Bond Tautomerization Induced by Divalent Metal Ions: Characterization of the Iminol Configuration. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4591-4593.	13.8	41
7	Structures of Biomolecular Ions in the Gas Phase Probed by Infrared Light Sources. <i>Annual Review of Analytical Chemistry</i> , 2013, 6, 267-285.	5.4	37
8	Linkage and Anomeric Differentiation in Trisaccharides by Sequential Fragmentation and Variable-Wavelength Infrared Photodissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 359-368.	2.8	37
9	Infrared ion spectroscopy: an analytical tool for the study of metabolites. <i>Analyst, The</i> , 2018, 143, 1615-1623.	3.5	36
10	Making Mass Spectrometry See the Light: The Promises and Challenges of Cryogenic Infrared Ion Spectroscopy as a Bioanalytical Technique. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 757-766.	2.8	30
11	Crown Complexation of Protonated Amino Acids: Influence on IRMPD Spectra. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1181-1188.	2.5	28
12	Gas-phase infrared spectroscopy of the protonated dipeptides H+PheAla and H+AlaPhe compared to condensed-phase results. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 77-84.	1.5	27
13	On the path to glycan conformer identification: Gas-phase study of the anomers of methyl glycosides of N-acetyl-d-glucosamine and N-acetyl-d-galactosamine. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 285-294.	1.5	26
14	Vibrational Signatures of Isomeric Lithiated N-acetyl-D-hexosamines by Gas-Phase Infrared Multiple-Photon Dissociation (IRMPD) Spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 539-550.	2.8	26
15	Differentiating Sulfopeptide and Phosphopeptide Ions via Resonant Infrared Photodissociation. <i>Analytical Chemistry</i> , 2014, 86, 5547-5552.	6.5	25
16	Electron capture dissociation of polypeptides using a 3 Tesla Fourier transform ion cyclotron resonance mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 936-943.	1.5	24
17	Gas-phase structures of phosphopeptide ions: A difficult case. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 249-256.	1.5	24
18	Metal Cation Binding to Gas-Phase Pentaalanine: Divalent Ions Restructure the Complex. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1094-1101.	2.5	23

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19	Cyclic peptide as reference system for b ion structural analysis in the gas phase. <i>Journal of Mass Spectrometry</i> , 2011, 46, 1011-1015.	1.6	22
20	Screening for Phosphorylated and Nonphosphorylated Peptides by Infrared Photodissociation Spectroscopy. <i>Analytical Chemistry</i> , 2012, 84, 9907-9912.	6.5	21
21	Gas-phase IR spectra of intact α -helical coiled coil protein complexes. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 161-168.	1.5	18
22	Observation of superoxide production during catalysis of <i>Bacillus subtilis</i> oxalate decarboxylase at pH 4. <i>Free Radical Biology and Medicine</i> , 2015, 80, 59-66.	2.9	17
23	Insights into the fragmentation pathways of gas-phase protonated sulfoserine. <i>International Journal of Mass Spectrometry</i> , 2015, 379, 26-32.	1.5	17
24	Infrared ion spectroscopy inside a mass-selective cryogenic 2D linear ion trap. <i>Journal of Mass Spectrometry</i> , 2017, 52, 720-727.	1.6	17
25	Defying Entropy: Forming Large Head-to-Tail Macrocycles in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6436-6438.	13.8	16
26	Effect of phenol and acidic side chains on the protonation sites of b ₂ ions confirmed by IRMPD spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 144-151.	1.5	13
27	Probing the Structures of Solvent-Complexed Ions Formed in Electrospray Ionization Using Cryogenic Infrared Photodissociation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7427-7436.	2.5	11
28	Tandem-trapped ion mobility spectrometry/mass spectrometry coupled with ultraviolet photodissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9192.	1.5	11
29	Radical Rearrangement Chemistry in Ultraviolet Photodissociation of Iodotyrosine Systems: Insights from Metastable Dissociation, Infrared Ion Spectroscopy, and Reaction Pathway Calculations. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1791-1801.	2.8	10
30	Cryogenic infrared ion spectroscopy for the structural elucidation of drug molecules: MDMA and its metabolites. <i>International Journal of Mass Spectrometry</i> , 2019, 443, 101-108.	1.5	10
31	Gas-phase metal ion chelation investigated with IRMPD spectroscopy: A brief review of Robert Dunbar's contributions. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 86-96.	1.0	9
32	Interactively Applying the Variational Method to the Dihydrogen Molecule: Exploring Bonding and Antibonding. <i>Journal of Chemical Education</i> , 2016, 93, 1578-1585.	2.3	8
33	Influence of Experimental Conditions on the Ratio of 25-Hydroxyvitamin D ₃ Conformers for Validating a Liquid Chromatography/Ion Mobility-Mass Spectrometry Method for Routine Quantitation. <i>Analytical Chemistry</i> , 2018, 90, 13549-13556.	6.5	7
34	Operation and Performance of a Mass-Selective Cryogenic Linear Ion Trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 2115-2124.	2.8	7
35	Supercharging Proteins: How Many Charges Can a Protein Carry?. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8335-8337.	13.8	6
36	H ₂ SO ₄ and SO ₃ Transfer Reactions in a Sulfopeptide-Basic Peptide Complex. <i>Analytical Chemistry</i> , 2015, 87, 9551-9554.	6.5	5

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37	Hydrogen/deuterium exchange of phenylalanine analogs studied with infrared multiple photon dissociation. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 162-169.	1.5	4
38	Infrared Photodissociation of Biomolecular Ions. <i>Lecture Notes in Quantum Chemistry II</i> , 2013, , 71-91.	0.3	4
39	Mechanistic insights into intramolecular phosphate group transfer during collision induced dissociation of phosphopeptides. <i>Journal of Mass Spectrometry</i> , 2019, 54, 449-458.	1.6	2
40	Reaction of the C ₃ (X ¹ g ⁺) carbon cluster with H ₂ S(X ¹ A ₁), hydrogen sulfide: Photon-induced formation of C ₃ S, tricarbon sulfur. <i>Journal of Chemical Physics</i> , 2014, 141, 204310.	3.0	0
41	Hoch geladene Proteine: Wie viele Ladungen kann ein Protein tragen?. <i>Angewandte Chemie</i> , 2017, 129, 8451-8453.	2.0	0
42	Spectroscopy and the Electromagnetic Spectrum. <i>Lecture Notes in Quantum Chemistry II</i> , 2013, , 1-20.	0.3	0