

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
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47
all docs

47
docs citations

47
times ranked

1151
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Tandem-trapped ion mobility spectrometry/mass spectrometry coupled with ultraviolet photodissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9192. | 1.5 | 11 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Infrared ion spectroscopy: an analytical tool for the study of metabolites. <i>Analyst, The</i> , 2018, 143, 1615-1623. | 3.5 | 36 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Hoch geladene Proteine: Wie viele Ladungen kann ein Protein tragen?. <i>Angewandte Chemie</i> , 2017, 129, 8451-8453. | 2.0 | 0 |
| 13 | 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 |
| 14 | 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 |
| 15 | Supercharging Proteins: How Many Charges Can a Protein Carry?. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8335-8337. | 13.8 | 6 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | Insights into the fragmentation pathways of gas-phase protonated sulfoserine. <i>International Journal of Mass Spectrometry</i> , 2015, 379, 26-32. | 1.5 | 17 |
| 20 | 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 |
| 21 | 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 |
| 22 | Differentiating Sulfopeptide and Phosphopeptide Ions via Resonant Infrared Photodissociation. <i>Analytical Chemistry</i> , 2014, 86, 5547-5552. | 6.5 | 25 |
| 23 | 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 |
| 24 | Gas-phase structures of phosphopeptide ions: A difficult case. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 249-256. | 1.5 | 24 |
| 25 | 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 |
| 26 | Crown Complexation of Protonated Amino Acids: Influence on IRMPD Spectra. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1181-1188. | 2.5 | 28 |
| 27 | 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 |
| 28 | Infrared Photodissociation of Biomolecular Ions. <i>Lecture Notes in Quantum Chemistry II</i> , 2013, , 71-91. | 0.3 | 4 |
| 29 | Spectroscopy and the Electromagnetic Spectrum. <i>Lecture Notes in Quantum Chemistry II</i> , 2013, , 1-20. | 0.3 | 0 |
| 30 | 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 |
| 31 | 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 |
| 32 | Screening for Phosphorylated and Nonphosphorylated Peptides by Infrared Photodissociation Spectroscopy. <i>Analytical Chemistry</i> , 2012, 84, 9907-9912. | 6.5 | 21 |
| 33 | 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 |
| 34 | 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 |
| 35 | Infrared multiple photon dissociation spectroscopy of trapped ions. <i>Chemical Society Reviews</i> , 2011, 40, 2211. | 38.1 | 267 |
| 36 | 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 |

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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 | Vibrational spectroscopy of bare and solvated ionic complexes of biological relevance. <i>Mass Spectrometry Reviews</i> , 2009, 28, 468-494. | 5.4 | 390 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |