

Isabelle Compagnon

List of Publications by Year in descending order

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31
papers

833
citations

567281

15
h-index

501196

28
g-index

33
all docs

33
docs citations

33
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Advancing Solutions to the Carbohydrate Sequencing Challenge. <i>Journal of the American Chemical Society</i> , 2019, 141, 14463-14479.	13.7	108
2	Anomeric memory of the glycosidic bond upon fragmentation and its consequences for carbohydrate sequencing. <i>Nature Communications</i> , 2017, 8, 973.	12.8	103
3	Bottom-Up Elucidation of Glycosidic Bond Stereochemistry. <i>Analytical Chemistry</i> , 2017, 89, 4540-4549.	6.5	64
4	Online Separation and Identification of Isomers Using Infrared Multiple Photon Dissociation Ion Spectroscopy Coupled to Liquid Chromatography: Application to the Analysis of Disaccharides Regio-Isomers and Monosaccharide Anomers. <i>Analytical Chemistry</i> , 2018, 90, 11741-11745.	6.5	61
5	IRMPD Spectroscopy Sheds New (Infrared) Light on the Sulfate Pattern of Carbohydrates. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2114-2120.	2.5	49
6	Distinguishing isobaric phosphated and sulfated carbohydrates by coupling of mass spectrometry with gas phase vibrational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22131-22138.	2.8	48
7	The Mid-IR Spectra of 9-Ethyl Guanine, Guanosine, and 2-Deoxyguanosine. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7529-7536.	2.5	44
8	Globule to Helix Transition in Sodiated Polyalanines. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3320-3324.	4.6	33
9	Anharmonic simulations of the vibrational spectrum of sulfated compounds: application to the glycosaminoglycan fragment glucosamine 6-sulfate. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25705-25713.	2.8	33
10	Identification of sialic acid linkage isomers in glycans using coupled InfraRed Multiple Photon Dissociation (IRMPD) spectroscopy and mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2018, 434, 65-69.	1.5	30
11	MS/IR, a new MS-based hyphenated method for analysis of hexuronic acid epimers in glycosaminoglycans. <i>Glycoconjugate Journal</i> , 2017, 34, 421-425.	2.7	29
12	Analysis of Sulfate Patterns in Glycosaminoglycan Oligosaccharides by MS ⁿ Coupled to Infrared Ion Spectroscopy: the Case of GalNAc4S and GalNAc6S. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1242-1249.	2.8	29
13	Conformational preferences of protonated N-acetylated hexosamines probed by InfraRed Multiple Photon Dissociation (IRMPD) spectroscopy and ab initio calculations. <i>International Journal of Mass Spectrometry</i> , 2017, 421, 116-123.	1.5	27
14	Mass spectrometry hybridized with gas-phase InfraRed spectroscopy for glycan sequencing. <i>Current Opinion in Structural Biology</i> , 2020, 62, 121-131.	5.7	18
15	FAIMS-MS-IR spectroscopy workflow: a multidimensional platform for the analysis of molecular isoforms. <i>International Journal for Ion Mobility Spectrometry</i> , 2017, 20, 119-124.	1.4	16
16	Structural and Energetic Effects of O ²⁺ -Ribose Methylation of Protonated Purine Nucleosides. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9147-9160.	2.6	16
17	Discrimination of patterns of N-acetylation in chitooligosaccharides by gas phase IR spectroscopy integrated to mass spectrometry. <i>Pure and Applied Chemistry</i> , 2017, 89, 1349-1357.	1.9	15
18	Ion spectroscopy of heterogeneous mixtures: IRMPD and DFT analysis of anomers and conformers of monosaccharides. <i>International Journal of Mass Spectrometry</i> , 2020, 447, 116235.	1.5	14

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19	Distinguishing Galactoside Isomers with Mass Spectrometry and Gas-Phase Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 10509-10513.	13.7	14
20	Spectroscopic diagnostic for the ring-size of carbohydrates in the gas phase: furanose and pyranose forms of GalNAc. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12460-12467.	2.8	13
21	Lasers and ion mobility: new additions to the glycosaminoglycanomics toolkit. <i>Current Opinion in Structural Biology</i> , 2018, 50, 171-180.	5.7	12
22	On-the-Fly Femtosecond Action Spectroscopy of Charged Cyanine Dyes: Electronic Structure versus Geometry. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2300-2305.	4.6	12
23	Ultrafast Nonadiabatic Cascade and Subsequent Photofragmentation of Extreme Ultraviolet Excited Caffeine Molecule. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6927-6933.	4.6	10
24	Synthesis of an Exhaustive Library of Naturally Occurring Gal<i>f</i>-Man<i>p</i> and Gal<i>p</i>-Man<i>p</i> Disaccharides. Toward Fingerprinting According to Ring Size by Advanced Mass Spectrometry-Based IM-MS and IRMPD. <i>Journal of Organic Chemistry</i> , 2021, 86, 6390-6405.	3.2	8
25	Off-line coupling of capillary isotachopheresis separation to IRMPD spectroscopy for glycosaminoglycans analysis: Application to the chondroitin sulfate disaccharides model solutes. <i>Journal of Chromatography A</i> , 2020, 1617, 460782.	3.7	6
26	Structural and Energetic Effects of O2 ⁺ -Ribose Methylation of Protonated Pyrimidine Nucleosides. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2318-2334.	2.8	5
27	Controlled ultrafast <i>if</i> * dynamics in tryptophan-based peptides with tailored micro-environment. <i>Communications Chemistry</i> , 2021, 4, .	4.5	5
28	<i>O</i>-Acetylated sugars in the gas phase: stability, migration, positional isomers and conformation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1016-1022.	2.8	4
29	Rapid IRMPD (InfraRed multiple photon dissociation) analysis for glycomics. <i>Analyst, The</i> , 2022, 147, 312-317.	3.5	4
30	Non-ergodic fragmentation of protonated reserpine using femtosecond laser activation. <i>International Journal of Mass Spectrometry</i> , 2022, 471, 116729.	1.5	2
31	Femtosecond nonadiabatic cascade and subsequent photofragmentation of XUV excited caffeine molecule. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 142027.	0.4	0