

# Frederik Lermyte

## List of Publications by Year in descending order

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44  
papers

1,364  
citations

430874

18  
h-index

345221

36  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1727  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution Condition-Dependent Formation of Gas-Phase Protomers of Alpha-Synuclein in Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 364-372.	2.8	7
2	Multiple Protective Roles of Nanoliposome- Incorporated Baicalein against Alpha-Synuclein Aggregates. <i>Advanced Functional Materials</i> , 2021, 31, 2007765.	14.9	14
3	Cu( <sup>III</sup> )-bis-thiolato complex forms an unusual mono-thiolato Cu( <sup>III</sup> )-peroxido adduct. <i>Chemical Communications</i> , 2021, 57, 69-72.	4.1	5
4	Facile protein conjugation of platinum for light-activated cytotoxic payload release. <i>Chemical Communications</i> , 2021, 57, 7645-7648.	4.1	11
5	Biogenic metallic elements in the human brain?. <i>Science Advances</i> , 2021, 7, .	10.3	48
6	Trendbericht Biochemie: Massenspektrometrie gegen Viren. <i>Nachrichten Aus Der Chemie</i> , 2021, 69, 55-57.	0.0	0
7	Fenton-Chemistry-Based Oxidative Modification of Proteins Reflects Their Conformation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9927.	4.1	6
8	Top-Down Characterization of Denatured Proteins and Native Protein Complexes Using Electron Capture Dissociation Implemented within a Modified Ion Mobility-Mass Spectrometer. <i>Analytical Chemistry</i> , 2020, 92, 3674-3681.	6.5	35
9	Metallo drugs are unique: opportunities and challenges of discovery and development. <i>Chemical Science</i> , 2020, 11, 12888-12917.	7.4	354
10	Roles, Characteristics, and Analysis of Intrinsically Disordered Proteins: A Minireview. <i>Life</i> , 2020, 10, 320.	2.4	11
11	Analysis of neuronal iron deposits in Parkinson's disease brain tissue by synchrotron x-ray spectromicroscopy. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 62, 126555.	3.0	13
12	Metallic iron in cornflakes. <i>Food and Function</i> , 2020, 11, 2938-2942.	4.6	2
13	Iron stored in ferritin is chemically reduced in the presence of aggregating A $\beta$ (1-42). <i>Scientific Reports</i> , 2020, 10, 10332.	3.3	34
14	Determination of the Aggregate Binding Site of Amyloid Protofibrils Using Electron Capture Dissociation Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 267-276.	2.8	12
15	Label-Free Nanoimaging of Neuromelanin in the Brain by Soft X-ray Spectromicroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11984-11991.	13.8	13
16	The status of the terminal regions of $\alpha$ -synuclein in different forms of aggregates during fibrillization. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 543-550.	7.5	4
17	Label-Free Nanoimaging of Neuromelanin in the Brain by Soft X-ray Spectromicroscopy. <i>Angewandte Chemie</i> , 2020, 132, 12082-12089.	2.0	0
18	Higher-order structural characterisation of native proteins and complexes by top-down mass spectrometry. <i>Chemical Science</i> , 2020, 11, 12918-12936.	7.4	81

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19	MIND: A Double-Linear Model To Accurately Determine Monoisotopic Precursor Mass in High-Resolution Top-Down Proteomics. <i>Analytical Chemistry</i> , 2019, 91, 10310-10319.	6.5	3
20	Metal Ion Binding to the Amyloid I <sup>2</sup> Monomer Studied by Native Top-Down FTICR Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2123-2134.	2.8	47
21	Emerging Approaches to Investigate the Influence of Transition Metals in the Proteinopathies. <i>Cells</i> , 2019, 8, 1231.	4.1	19
22	Top or Middle? Up or Down? Toward a Standard Lexicon for Protein Top-Down and Allied Mass Spectrometry Approaches. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1149-1157.	2.8	92
23	Generation of maghemite nanocrystals from iron-sulfur centres. <i>Dalton Transactions</i> , 2019, 48, 9564-9569.	3.3	1
24	masstodon: A Tool for Assigning Peaks and Modeling Electron Transfer Reactions in Top-Down Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 1801-1807.	6.5	7
25	Nanoscale synchrotron X-ray speciation of iron and calcium compounds in amyloid plaque cores from Alzheimer's disease subjects. <i>Nanoscale</i> , 2018, 10, 11782-11796.	5.6	88
26	Fixed-Charge Trimethyl Pyrylium Modification for Enabling Enhanced Top-Down Mass Spectrometry Sequencing of Intact Protein Complexes. <i>Analytical Chemistry</i> , 2018, 90, 2756-2764.	6.5	19
27	Radical solutions: Principles and application of electron-based dissociation in mass spectrometry-based analysis of protein structure. <i>Mass Spectrometry Reviews</i> , 2018, 37, 750-771.	5.4	67
28	Estimation of Rates of Reactions Triggered by Electron Transfer in Top-Down Mass Spectrometry. <i>Journal of Computational Biology</i> , 2018, 25, 282-301.	1.6	2
29	Does deamidation of islet amyloid polypeptide accelerate amyloid fibril formation?. <i>Chemical Communications</i> , 2018, 54, 13853-13856.	4.1	9
30	Nanoscale Examination of Biological Tissues Using X-ray Spectromicroscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 490-491.	0.4	6
31	Specific sequences in the N-terminal domain of human small heat-shock protein HSPB6 dictate preferential hetero-oligomerization with the orthologue HSPB1. <i>Journal of Biological Chemistry</i> , 2017, 292, 9944-9957.	3.4	23
32	InSourcerer: a high-throughput method to search for unknown metabolite modifications by mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1396-1404.	1.5	5
33	Top-down/Bottom-up Mass Spectrometry Workflow Using Dissolvable Polyacrylamide Gels. <i>Analytical Chemistry</i> , 2017, 89, 8244-8250.	6.5	18
34	A broader view on ion heating in traveling-wave devices using fragmentation of Csl clusters and extent of H <sup>+</sup> migration as molecular thermometers. <i>Analyst</i> , 2017, 142, 3388-3399.	3.5	7
35	Conformational Space and Stability of ETD Charge Reduction Products of Ubiquitin. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 69-76.	2.8	27
36	Estimation of Rates of Reactions Triggered by Electron Transfer in Top-Down Mass Spectrometry. <i>Lecture Notes in Computer Science</i> , 2017, , 96-107.	1.3	0

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37	The preferential heterodimerization of human small heat shock proteins HSPB1 and HSPB6 is dictated by the N-terminal domain. Archives of Biochemistry and Biophysics, 2016, 610, 41-50.	3.0	19
38	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
39	Electron transfer dissociation provides higher-order structural information of native and partially unfolded protein complexes. Proteomics, 2015, 15, 2813-2822.	2.2	57
40	Characterization of top-down ETD in a travelling-wave ion guide. Methods, 2015, 89, 22-29.	3.8	21
41	Extensive Charge Reduction and Dissociation of Intact Protein Complexes Following Electron Transfer on a Quadrupole-Ion Mobility-Time-of-Flight MS. Journal of the American Society for Mass Spectrometry, 2015, 26, 1068-1076.	2.8	53
42	Differences in the Elemental Isotope Definition May Lead to Errors in Modern Mass-Spectrometry-Based Proteomics. Analytical Chemistry, 2015, 87, 10747-10754.	6.5	6
43	Understanding reaction pathways in top-down ETD by dissecting isotope distributions: A mammoth task. International Journal of Mass Spectrometry, 2015, 390, 146-154.	1.5	20
44	ETD Allows for Native Surface Mapping of a 150 kDa Noncovalent Complex on a Commercial Q-TWIMS-TOF Instrument. Journal of the American Society for Mass Spectrometry, 2014, 25, 343-350.	2.8	78