Michael Marty

List of Publications by Year
in descending order

65 papers	3,972 citations	201575 27 h-index	133188 59 g-index
88 all docs	88 docs citations	88 times ranked	4701 citing authors

#	Article	IF	Citations
1	Expedited Approach toward the Rational Design of Noncovalent SARS-CoV-2 Main Protease Inhibitors. Journal of Medicinal Chemistry, 2022, 65, 2848-2865.	2.9	102
2	Structural and mechanistic insights into amyloidâ€Î² and Î±â€synuclein fibril formation and polyphenol inhibitor efficacy in phospholipid bilayers. FEBS Journal, 2022, 289, 215-230.	2.2	16
3	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. Nature Methods, 2022, 19, 134-136.	9.0	35
4	Lipid tails modulate antimicrobial peptide membrane incorporation and activity. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183870.	1.4	4
5	Mass spectrometry-based approaches to understanding Î±-synuclein-lipid interactions. Biophysical Journal, 2022, 121, 80a.	0.2	0
6	Investigating Antimicrobial Peptideâ€“Membrane Interactions Using Fast Photochemical Oxidation of Peptides in Nanodiscs. Journal of the American Society for Mass Spectrometry, 2022, 33, 62-67.	1.2	4
7	Allosteric differences dictate GroEL complementation ofÂ E.Âcoli. FASEB Journal, 2022, 36, e22198.	0.2	1
8	Fourier-Transform Approach for Reconstructing Macromolecular Mass Defect Profiles. Journal of the American Society for Mass Spectrometry, 2022, 33, 172-180.	1.2	2
9	Surface Modified Nano-Electrospray Needles Improve Sensitivity for Native Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2022, 33, 1031-1037.	1.2	8
10	Deconvolving Native and Intact Protein Mass Spectra with UniDec. Methods in Molecular Biology, 2022, , 159-180.	0.4	6
11	Investigating the Lipid Selectivity of Membrane Proteins in Heterogeneous Nanodiscs. Analytical Chemistry, 2022, 94, 8497-8505.	3.2	14
12	Lipids and EGCG Affect Î±-Synuclein Association and Disruption of Nanodiscs. Biochemistry, 2022, 61, 1014-1021.	1.2	5
13	Native mass spectrometry reveals the simultaneous binding of lipids and zinc to rhodopsin. International Journal of Mass Spectrometry, 2021, 460, 116477.	0.7	13
14	Native Mass Spectrometry of Membrane Proteins. Analytical Chemistry, 2021, 93, 583-597.	3.2	71
15	Copper-Free Click Enabled Triazabutadiene for Bioorthogonal Protein Functionalization. Bioconjugate Chemistry, 2021, 32, 254-258.	1.8	8
16	Illuminating Individual Membrane Protein Complexes with Mass Photometry. CheM, 2021, 7, 16-17.	5.8	2
17	Suzuki Coupling of Protected Aryl Diazonium Ions: Expanding the Knowledge of Triazabutadiene Compatible Reactions. Organic Letters, 2021, 23, 1851-1855.	2.4	3
18	Assembly of Model Membrane Nanodiscs for Native Mass Spectrometry. Analytical Chemistry, 2021, 93, 5972-5979.	3.2	20

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19	Structural basis of omega-3 fatty acid transport across the bloodâ€“brain barrier. Nature, 2021, 595, 315-319.	13.7	61
20	Discovery of SARS-CoV-2 Papain-like Protease Inhibitors through a Combination of High-Throughput Screening and a FlipGFP-Based Reporter Assay. ACS Central Science, 2021, 7, 1245-1260.	5.3	115
21	Albumin Conjugates of Thiosemicarbazone and Imidazoleâ€2â€thione Prochelators: Iron Coordination and Antiproliferative Activity. ChemMedChem, 2021, 16, 2764-2768.	1.6	5
22	Directâ€MS analysis of antibodyâ€antigen complexes. Proteomics, 2021, 21, e2000300.	1.3	8
23	UniDecCD: Deconvolution of Charge Detection-Mass Spectrometry Data. Analytical Chemistry, 2021, 93, 14722-14729.	3.2	19
24	Protein Modification via Mild Photochemical Isomerization of Triazenes to Release Aryl Diazonium Ions. Bioconjugate Chemistry, 2021, 32, 2432-2438.	1.8	5
25	Influenza AM2 Channel Oligomerization Is Sensitive to Its Chemical Environment. Analytical Chemistry, 2021, 93, 16273-16281.	3.2	12
26	Discovery of Di- and Trihaloacetamides as Covalent SARS-CoV-2 Main Protease Inhibitors with High Target Specificity. Journal of the American Chemical Society, 2021, 143, 20697-20709.	6.6	87
27	Nanodiscs and mass spectrometry: Making membranes fly. International Journal of Mass Spectrometry, 2020, 458, 116436.	0.7	10
28	Ebselen, Disulfiram, Carmofur, PX-12, Tideglusib, and Shikonin Are Nonspecific Promiscuous SARS-CoV-2 Main Protease Inhibitors. ACS Pharmacology and Translational Science, 2020, 3, 1265-1277.	2.5	194
29	Probing the structure of nanodiscs using surface-induced dissociation mass spectrometry. Chemical Communications, 2020, 56, 15651-15654.	2.2	14
30	Structure and inhibition of the SARS-CoV-2 main protease reveal strategy for developing dual inhibitors against M ^{pro} and cathepsin L. Science Advances, 2020, 6, .	4.7	297
31	Revealing the Specificity of a Range of Antimicrobial Peptides in Lipid Nanodiscs by Native Mass Spectrometry. Biochemistry, 2020, 59, 2135-2142.	1.2	25
32	Boceprevir, GC-376, and calpain inhibitors II, XII inhibit SARS-CoV-2 viral replication by targeting the viral main protease. Cell Research, 2020, 30, 678-692.	5.7	662
33	Measuring Remodeling of the Lipid Environment Surrounding Membrane Proteins with Lipid Exchange and Native Mass Spectrometry. Analytical Chemistry, 2020, 92, 5666-5669.	3.2	21
34	Cryo-EM structure of arabinosyltransferase EmbB from Mycobacterium smegmatis. Nature Communications, 2020, 11, 3396.	5.8	14
35	A Universal Score for Deconvolution of Intact Protein and Native Electrospray Mass Spectra. Analytical Chemistry, 2020, 92, 4395-4401.	3.2	23
36	Scratching the surface: native mass spectrometry of peripheral membrane protein complexes. Biochemical Society Transactions, 2020, 48, 547-558.	1.6	20

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37	Eliminating Artifacts in Electrospray Deconvolution with a SoftMax Function. Journal of the American Society for Mass Spectrometry, 2019, 30, 2174-2177.	1.2	17
38	Imidazole Derivatives Improve Charge Reduction and Stabilization for Native Mass Spectrometry. Analytical Chemistry, 2019, 91, 14765-14772.	3.2	31
39	Validating Enterovirus D68-2A ^{pro} as an Antiviral Drug Target and the Discovery of Telaprevir as a Potent D68-2A ^{pro} Inhibitor. Journal of Virology, 2019, 93, .	1.5	44
40	Native Mass Spectrometry of Antimicrobial Peptides in Lipid Nanodiscs Elucidates Complex Assembly. Analytical Chemistry, 2019, 91, 9284-9291.	3.2	39
41	Measuring the Stoichiometry of Antimicrobial Peptides in Nanodiscs with Native Mass Spectrometry. Biophysical Journal, 2019, 116, 85a-86a.	0.2	0
42	Expanding the Types of Lipids Amenable to Native Mass Spectrometry of Lipoprotein Complexes. Journal of the American Society for Mass Spectrometry, 2019, 30, 1416-1425.	1.2	20
43	Chemical Additives Enable Native Mass Spectrometry Measurement of Membrane Protein Oligomeric State within Intact Nanodiscs. Journal of the American Chemical Society, 2019, 141, 1054-1061.	6.6	70
44	MetaUniDec: High-Throughput Deconvolution of Native Mass Spectra. Journal of the American Society for Mass Spectrometry, 2019, 30, 118-127.	1.2	85
45	Structural principles that enable oligomeric small heat-shock protein paralogs to evolve distinct functions. Science, 2018, 359, 930-935.	6.0	51
46	Rapid LCâ€“MS Method for Accurate Molecular Weight Determination of Membrane and Hydrophobic Proteins. Analytical Chemistry, 2018, 90, 13616-13623.	3.2	12
47	Engineering Nanodisc Scaffold Proteins for Native Mass Spectrometry. Analytical Chemistry, 2017, 89, 11189-11192.	3.2	43
48	Dissecting the role of the CRMP2â€“neurofibromin complex on pain behaviors. Pain, 2017, 158, 2203-2221.	2.0	50
49	Probing the Lipid Annular Belt by Gasâ€Phase Dissociation of Membrane Proteins in Nanodiscs. Angewandte Chemie, 2016, 128, 560-564.	1.6	5
50	Unraveling the Composition and Behavior of Heterogeneous Lipid Nanodiscs by Mass Spectrometry. Analytical Chemistry, 2016, 88, 6199-6204.	3.2	40
51	Probing the Lipid Annular Belt by Gasâ€Phase Dissociation of Membrane Proteins in Nanodiscs. Angewandte Chemie - International Edition, 2016, 55, 550-554.	7.2	95
52	A sliding selectivity scale for lipid binding to membrane proteins. Current Opinion in Structural Biology, 2016, 39, 54-60.	2.6	54
53	Interfacing Membrane Mimetics with Mass Spectrometry. Accounts of Chemical Research, 2016, 49, 2459-2467.	7.6	70
54	High-resolution mass spectrometry of small molecules bound to membrane proteins. Nature Methods, 2016, 13, 333-336.	9.0	205

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55	Nanoscale Synaptic Membrane Mimetic Allows Unbiased High Throughput Screen That Targets Binding Sites for Alzheimerâ€™s-Associated AÎ² Oligomers. PLoS ONE, 2015, 10, e0125263.	1.1	28
56	The Effect of Detergent, Temperature, and Lipid on the Oligomeric State of MscL Constructs: Insights from Mass Spectrometry. Chemistry and Biology, 2015, 22, 593-603.	6.2	72
57	Combining tandem mass spectrometry with ion mobility separation to determine the architecture of polydisperse proteins. International Journal of Mass Spectrometry, 2015, 377, 663-671.	0.7	16
58	Bayesian Deconvolution of Mass and Ion Mobility Spectra: From Binary Interactions to Polydisperse Ensembles. Analytical Chemistry, 2015, 87, 4370-4376.	3.2	663
59	Interpretation and Deconvolution of Nanodisc Native Mass Spectra. Journal of the American Society for Mass Spectrometry, 2014, 25, 269-277.	1.2	48
60	Interfacing Lipid Bilayer Nanodiscs and Silicon Photonic Sensor Arrays for Multiplexed Proteinâ€“Lipid and Proteinâ€“Membrane Protein Interaction Screening. Analytical Chemistry, 2013, 85, 2970-2976.	3.2	42
61	Simulating a Time-of-Flight Mass Spectrometer: A LabView Exercise. Journal of Chemical Education, 2013, 90, 239-243.	1.1	11
62	Nanodisc-solubilized membrane protein library reflects the membrane proteome. Analytical and Bioanalytical Chemistry, 2013, 405, 4009-4016.	1.9	56
63	Native Mass Spectrometry Characterization of Intact Nanodisc Lipoprotein Complexes. Analytical Chemistry, 2012, 84, 8957-8960.	3.2	95
64	Nonlinear Analyte Concentration Gradients for One-Step Kinetic Analysis Employing Optical Microring Resonators. Analytical Chemistry, 2012, 84, 5556-5564.	3.2	16
65	Ultra-thin layer MALDI mass spectrometry of membrane proteins in nanodiscs. Analytical and Bioanalytical Chemistry, 2012, 402, 721-729.	1.9	31