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	Bayesian Deconvolution of Mass and Ion Mobility Spectra: From Binary Interactions to Polydisperse Ensembles. Analytical Chemistry, 2015, 87, 4370-4376.	3.2	663
2	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
3	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
4	High-resolution mass spectrometry of small molecules bound to membrane proteins. Nature Methods, 2016, 13, 333-336.	9.0	205
5	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
6	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
7	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
8	Native Mass Spectrometry Characterization of Intact Nanodisc Lipoprotein Complexes. Analytical Chemistry, 2012, 84, 8957-8960.	3.2	95
9	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
10	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
11	MetaUniDec: High-Throughput Deconvolution of Native Mass Spectra. Journal of the American Society for Mass Spectrometry, 2019, 30, 118-127.	1.2	85
12	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
13	Native Mass Spectrometry of Membrane Proteins. Analytical Chemistry, 2021, 93, 583-597.	3.2	71
14	Interfacing Membrane Mimetics with Mass Spectrometry. Accounts of Chemical Research, 2016, 49, 2459-2467.	7.6	70
15	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
16	Structural basis of omega-3 fatty acid transport across the bloodâ€“brain barrier. Nature, 2021, 595, 315-319.	13.7	61
17	Nanodisc-solubilized membrane protein library reflects the membrane proteome. Analytical and Bioanalytical Chemistry, 2013, 405, 4009-4016.	1.9	56
18	A sliding selectivity scale for lipid binding to membrane proteins. Current Opinion in Structural Biology, 2016, 39, 54-60.	2.6	54

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19	Structural principles that enable oligomeric small heat-shock protein paralogs to evolve distinct functions. Science, 2018, 359, 930-935.	6.0	51
20	Dissecting the role of the CRMP2â€“neurofibromin complex on pain behaviors. Pain, 2017, 158, 2203-2221.	2.0	50
21	Interpretation and Deconvolution of Nanodisc Native Mass Spectra. Journal of the American Society for Mass Spectrometry, 2014, 25, 269-277.	1.2	48
22	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
23	Engineering Nanodisc Scaffold Proteins for Native Mass Spectrometry. Analytical Chemistry, 2017, 89, 11189-11192.	3.2	43
24	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
25	Unraveling the Composition and Behavior of Heterogeneous Lipid Nanodiscs by Mass Spectrometry. Analytical Chemistry, 2016, 88, 6199-6204.	3.2	40
26	Native Mass Spectrometry of Antimicrobial Peptides in Lipid Nanodiscs Elucidates Complex Assembly. Analytical Chemistry, 2019, 91, 9284-9291.	3.2	39
27	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. Nature Methods, 2022, 19, 134-136.	9.0	35
28	Ultra-thin layer MALDI mass spectrometry of membrane proteins in nanodiscs. Analytical and Bioanalytical Chemistry, 2012, 402, 721-729.	1.9	31
29	Imidazole Derivatives Improve Charge Reduction and Stabilization for Native Mass Spectrometry. Analytical Chemistry, 2019, 91, 14765-14772.	3.2	31
30	Nanoscale Synaptic Membrane Mimetic Allows Unbiased High Throughput Screen That Targets Binding Sites for Alzheimerâ€™s-Associated Aβ Oligomers. PLoS ONE, 2015, 10, e0125263.	1.1	28
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	A Universal Score for Deconvolution of Intact Protein and Native Electrospray Mass Spectra. Analytical Chemistry, 2020, 92, 4395-4401.	3.2	23
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	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
35	Assembly of Model Membrane Nanodiscs for Native Mass Spectrometry. Analytical Chemistry, 2021, 93, 5972-5979.	3.2	20
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	UniDecCD: Deconvolution of Charge Detection-Mass Spectrometry Data. Analytical Chemistry, 2021, 93, 14722-14729.	3.2	19
38	Eliminating Artifacts in Electrospray Deconvolution with a SoftMax Function. Journal of the American Society for Mass Spectrometry, 2019, 30, 2174-2177.	1.2	17
39	Nonlinear Analyte Concentration Gradients for One-Step Kinetic Analysis Employing Optical Microring Resonators. Analytical Chemistry, 2012, 84, 5556-5564.	3.2	16
40	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
41	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
42	Probing the structure of nanodiscs using surface-induced dissociation mass spectrometry. Chemical Communications, 2020, 56, 15651-15654.	2.2	14
43	Cryo-EM structure of arabinosyltransferase EmbB from Mycobacterium smegmatis. Nature Communications, 2020, 11, 3396.	5.8	14
44	Investigating the Lipid Selectivity of Membrane Proteins in Heterogeneous Nanodiscs. Analytical Chemistry, 2022, 94, 8497-8505.	3.2	14
45	Native mass spectrometry reveals the simultaneous binding of lipids and zinc to rhodopsin. International Journal of Mass Spectrometry, 2021, 460, 116477.	0.7	13
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	Influenza AM2 Channel Oligomerization Is Sensitive to Its Chemical Environment. Analytical Chemistry, 2021, 93, 16273-16281.	3.2	12
48	Simulating a Time-of-Flight Mass Spectrometer: A LabView Exercise. Journal of Chemical Education, 2013, 90, 239-243.	1.1	11
49	Nanodiscs and mass spectrometry: Making membranes fly. International Journal of Mass Spectrometry, 2020, 458, 116436.	0.7	10
50	Copper-Free Click Enabled Triazabutadiene for Bioorthogonal Protein Functionalization. Bioconjugate Chemistry, 2021, 32, 254-258.	1.8	8
51	Directâ€MS analysis of antibodyâ€antigen complexes. Proteomics, 2021, 21, e2000300.	1.3	8
52	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
53	Deconvolving Native and Intact Protein Mass Spectra with UniDec. Methods in Molecular Biology, 2022, , 159-180.	0.4	6
54	Probing the Lipid Annular Belt by Gasâ€Phase Dissociation of Membrane Proteins in Nanodiscs. Angewandte Chemie, 2016, 128, 560-564.	1.6	5

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55	Albumin Conjugates of Thiosemicarbazone and Imidazoleâ€2â€thione Prochelators: Iron Coordination and Antiproliferative Activity. ChemMedChem, 2021, 16, 2764-2768.	1.6	5
56	Protein Modification via Mild Photochemical Isomerization of Triazenes to Release Aryl Diazonium Ions. Bioconjugate Chemistry, 2021, 32, 2432-2438.	1.8	5
57	Lipids and EGCG Affect Î±-Synuclein Association and Disruption of Nanodiscs. Biochemistry, 2022, 61, 1014-1021.	1.2	5
58	Lipid tails modulate antimicrobial peptide membrane incorporation and activity. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183870.	1.4	4
59	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
60	Suzuki Coupling of Protected Aryl Diazonium Ions: Expanding the Knowledge of Triazabutadiene Compatible Reactions. Organic Letters, 2021, 23, 1851-1855.	2.4	3
61	Illuminating Individual Membrane Protein Complexes with Mass Photometry. CheM, 2021, 7, 16-17.	5.8	2
62	Fourier-Transform Approach for Reconstructing Macromolecular Mass Defect Profiles. Journal of the American Society for Mass Spectrometry, 2022, 33, 172-180.	1.2	2
63	Allosteric differences dictate GroEL complementation ofÂ <i>E.Âcoli</i>. FASEB Journal, 2022, 36, e22198.	0.2	1
64	Measuring the Stoichiometry of Antimicrobial Peptides in Nanodiscs with Native Mass Spectrometry. Biophysical Journal, 2019, 116, 85a-86a.	0.2	0
65	Mass spectrometry-based approaches to understanding Î±-synuclein-lipid interactions. Biophysical Journal, 2022, 121, 80a.	0.2	0