

# Michael Marty

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1492524/publications.pdf>

Version: 2024-02-01

65  
papers

3,972  
citations

201674

27  
h-index

133252

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. <i>Analytical Chemistry</i> , 2015, 87, 4370-4376.	6.5	663
2	Boceprevir, GC-376, and calpain inhibitors II, XII inhibit SARS-CoV-2 viral replication by targeting the viral main protease. <i>Cell Research</i> , 2020, 30, 678-692.	12.0	662
3	Structure and inhibition of the SARS-CoV-2 main protease reveal strategy for developing dual inhibitors against M <sup>pro</sup> and cathepsin L. <i>Science Advances</i> , 2020, 6, .	10.3	297
4	High-resolution mass spectrometry of small molecules bound to membrane proteins. <i>Nature Methods</i> , 2016, 13, 333-336.	19.0	205
5	Ebselen, Disulfiram, Carmofur, PX-12, Tideglusib, and Shikonin Are Nonspecific Promiscuous SARS-CoV-2 Main Protease Inhibitors. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 1265-1277.	4.9	194
6	Discovery of SARS-CoV-2 Papain-like Protease Inhibitors through a Combination of High-Throughput Screening and a FlipGFP-Based Reporter Assay. <i>ACS Central Science</i> , 2021, 7, 1245-1260.	11.3	115
7	Expedited Approach toward the Rational Design of Noncovalent SARS-CoV-2 Main Protease Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 2848-2865.	6.4	102
8	Native Mass Spectrometry Characterization of Intact Nanodisc Lipoprotein Complexes. <i>Analytical Chemistry</i> , 2012, 84, 8957-8960.	6.5	95
9	Probing the Lipid Annular Belt by Gas-Phase Dissociation of Membrane Proteins in Nanodiscs. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 550-554.	13.8	95
10	Discovery of Di- and Trihaloacetamides as Covalent SARS-CoV-2 Main Protease Inhibitors with High Target Specificity. <i>Journal of the American Chemical Society</i> , 2021, 143, 20697-20709.	13.7	87
11	MetaUniDec: High-Throughput Deconvolution of Native Mass Spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 118-127.	2.8	85
12	The Effect of Detergent, Temperature, and Lipid on the Oligomeric State of MscL Constructs: Insights from Mass Spectrometry. <i>Chemistry and Biology</i> , 2015, 22, 593-603.	6.0	72
13	Native Mass Spectrometry of Membrane Proteins. <i>Analytical Chemistry</i> , 2021, 93, 583-597.	6.5	71
14	Interfacing Membrane Mimetics with Mass Spectrometry. <i>Accounts of Chemical Research</i> , 2016, 49, 2459-2467.	15.6	70
15	Chemical Additives Enable Native Mass Spectrometry Measurement of Membrane Protein Oligomeric State within Intact Nanodiscs. <i>Journal of the American Chemical Society</i> , 2019, 141, 1054-1061.	13.7	70
16	Structural basis of omega-3 fatty acid transport across the blood-brain barrier. <i>Nature</i> , 2021, 595, 315-319.	27.8	61
17	Nanodisc-solubilized membrane protein library reflects the membrane proteome. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4009-4016.	3.7	56
18	A sliding selectivity scale for lipid binding to membrane proteins. <i>Current Opinion in Structural Biology</i> , 2016, 39, 54-60.	5.7	54

#	ARTICLE	IF	CITATIONS
19	Structural principles that enable oligomeric small heat-shock protein paralogs to evolve distinct functions. <i>Science</i> , 2018, 359, 930-935.	12.6	51
20	Dissecting the role of the CRMP2-neurofibromin complex on pain behaviors. <i>Pain</i> , 2017, 158, 2203-2221.	4.2	50
21	Interpretation and Deconvolution of Nanodisc Native Mass Spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 269-277.	2.8	48
22	Validating Enterovirus D68-2A <sup>pro</sup> as an Antiviral Drug Target and the Discovery of Telaprevir as a Potent D68-2A <sup>pro</sup> Inhibitor. <i>Journal of Virology</i> , 2019, 93, .	3.4	44
23	Engineering Nanodisc Scaffold Proteins for Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 11189-11192.	6.5	43
24	Interfacing Lipid Bilayer Nanodiscs and Silicon Photonic Sensor Arrays for Multiplexed Protein-Lipid and Protein-Membrane Protein Interaction Screening. <i>Analytical Chemistry</i> , 2013, 85, 2970-2976.	6.5	42
25	Unraveling the Composition and Behavior of Heterogeneous Lipid Nanodiscs by Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 6199-6204.	6.5	40
26	Native Mass Spectrometry of Antimicrobial Peptides in Lipid Nanodiscs Elucidates Complex Assembly. <i>Analytical Chemistry</i> , 2019, 91, 9284-9291.	6.5	39
27	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. <i>Nature Methods</i> , 2022, 19, 134-136.	19.0	35
28	Ultra-thin layer MALDI mass spectrometry of membrane proteins in nanodiscs. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 721-729.	3.7	31
29	Imidazole Derivatives Improve Charge Reduction and Stabilization for Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 14765-14772.	6.5	31
30	Nanoscale Synaptic Membrane Mimetic Allows Unbiased High Throughput Screen That Targets Binding Sites for Alzheimer's-Associated A $\beta$ Oligomers. <i>PLoS ONE</i> , 2015, 10, e0125263.	2.5	28
31	Revealing the Specificity of a Range of Antimicrobial Peptides in Lipid Nanodiscs by Native Mass Spectrometry. <i>Biochemistry</i> , 2020, 59, 2135-2142.	2.5	25
32	A Universal Score for Deconvolution of Intact Protein and Native Electrospray Mass Spectra. <i>Analytical Chemistry</i> , 2020, 92, 4395-4401.	6.5	23
33	Measuring Remodeling of the Lipid Environment Surrounding Membrane Proteins with Lipid Exchange and Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 5666-5669.	6.5	21
34	Expanding the Types of Lipids Amenable to Native Mass Spectrometry of Lipoprotein Complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1416-1425.	2.8	20
35	Assembly of Model Membrane Nanodiscs for Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 5972-5979.	6.5	20
36	Scratching the surface: native mass spectrometry of peripheral membrane protein complexes. <i>Biochemical Society Transactions</i> , 2020, 48, 547-558.	3.4	20

#	ARTICLE	IF	CITATIONS
37	UniDecCD: Deconvolution of Charge Detection-Mass Spectrometry Data. <i>Analytical Chemistry</i> , 2021, 93, 14722-14729.	6.5	19
38	Eliminating Artifacts in Electrospray Deconvolution with a SoftMax Function. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2174-2177.	2.8	17
39	Nonlinear Analyte Concentration Gradients for One-Step Kinetic Analysis Employing Optical Microring Resonators. <i>Analytical Chemistry</i> , 2012, 84, 5556-5564.	6.5	16
40	Combining tandem mass spectrometry with ion mobility separation to determine the architecture of polydisperse proteins. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 663-671.	1.5	16
41	Structural and mechanistic insights into amyloid $\beta^2$ and $\tau$ synuclein fibril formation and polyphenol inhibitor efficacy in phospholipid bilayers. <i>FEBS Journal</i> , 2022, 289, 215-230.	4.7	16
42	Probing the structure of nanodiscs using surface-induced dissociation mass spectrometry. <i>Chemical Communications</i> , 2020, 56, 15651-15654.	4.1	14
43	Cryo-EM structure of arabinosyltransferase EmbB from <i>Mycobacterium smegmatis</i> . <i>Nature Communications</i> , 2020, 11, 3396.	12.8	14
44	Investigating the Lipid Selectivity of Membrane Proteins in Heterogeneous Nanodiscs. <i>Analytical Chemistry</i> , 2022, 94, 8497-8505.	6.5	14
45	Native mass spectrometry reveals the simultaneous binding of lipids and zinc to rhodopsin. <i>International Journal of Mass Spectrometry</i> , 2021, 460, 116477.	1.5	13
46	Rapid LC-MS Method for Accurate Molecular Weight Determination of Membrane and Hydrophobic Proteins. <i>Analytical Chemistry</i> , 2018, 90, 13616-13623.	6.5	12
47	Influenza AM2 Channel Oligomerization Is Sensitive to Its Chemical Environment. <i>Analytical Chemistry</i> , 2021, 93, 16273-16281.	6.5	12
48	Simulating a Time-of-Flight Mass Spectrometer: A LabView Exercise. <i>Journal of Chemical Education</i> , 2013, 90, 239-243.	2.3	11
49	Nanodiscs and mass spectrometry: Making membranes fly. <i>International Journal of Mass Spectrometry</i> , 2020, 458, 116436.	1.5	10
50	Copper-Free Click Enabled Triazabutadiene for Bioorthogonal Protein Functionalization. <i>Bioconjugate Chemistry</i> , 2021, 32, 254-258.	3.6	8
51	Direct-MS analysis of antibody-antigen complexes. <i>Proteomics</i> , 2021, 21, e2000300.	2.2	8
52	Surface Modified Nano-Electrospray Needles Improve Sensitivity for Native Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1031-1037.	2.8	8
53	Deconvolving Native and Intact Protein Mass Spectra with UniDec. <i>Methods in Molecular Biology</i> , 2022, , 159-180.	0.9	6
54	Probing the Lipid Annular Belt by Gas-Phase Dissociation of Membrane Proteins in Nanodiscs. <i>Angewandte Chemie</i> , 2016, 128, 560-564.	2.0	5

#	ARTICLE	IF	CITATIONS
55	Albumin Conjugates of Thiosemicarbazone and Imidazole- $\alpha$ -thione Prochelators: Iron Coordination and Antiproliferative Activity. <i>ChemMedChem</i> , 2021, 16, 2764-2768.	3.2	5
56	Protein Modification via Mild Photochemical Isomerization of Triazenes to Release Aryl Diazonium Ions. <i>Bioconjugate Chemistry</i> , 2021, 32, 2432-2438.	3.6	5
57	Lipids and EGCG Affect $\alpha$ -Synuclein Association and Disruption of Nanodiscs. <i>Biochemistry</i> , 2022, 61, 1014-1021.	2.5	5
58	Lipid tails modulate antimicrobial peptide membrane incorporation and activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183870.	2.6	4
59	Investigating Antimicrobial Peptide-Membrane Interactions Using Fast Photochemical Oxidation of Peptides in Nanodiscs. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 62-67.	2.8	4
60	Suzuki Coupling of Protected Aryl Diazonium Ions: Expanding the Knowledge of Triazabutadiene Compatible Reactions. <i>Organic Letters</i> , 2021, 23, 1851-1855.	4.6	3
61	Illuminating Individual Membrane Protein Complexes with Mass Photometry. <i>CheM</i> , 2021, 7, 16-17.	11.7	2
62	Fourier-Transform Approach for Reconstructing Macromolecular Mass Defect Profiles. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 172-180.	2.8	2
63	Allosteric differences dictate GroEL complementation of $\alpha$ -E. coli. <i>FASEB Journal</i> , 2022, 36, e22198.	0.5	1
64	Measuring the Stoichiometry of Antimicrobial Peptides in Nanodiscs with Native Mass Spectrometry. <i>Biophysical Journal</i> , 2019, 116, 85a-86a.	0.5	0
65	Mass spectrometry-based approaches to understanding $\alpha$ -synuclein-lipid interactions. <i>Biophysical Journal</i> , 2022, 121, 80a.	0.5	0