# Michael Marty

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Expedited Approach toward the Rational Design of Noncovalent SARS-CoV-2 Main Protease Inhibitors. Journal of Medicinal Chemistry, 2022, 65, 2848-2865. | 6.4 | 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. | 4.7 | 16 |
| 3 | GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. Nature Methods, 2022, 19, 134-136. | 19.0 | 35 |
| 4 | Lipid tails modulate antimicrobial peptide membrane incorporation and activity. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183870. | 2.6 | 4 |
| 5 | Mass spectrometry-based approaches to understanding Î±-synuclein-lipid interactions. Biophysical Journal, 2022, 121, 80a. | 0.5 | 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. | 2.8 | 4 |
| 7 | Allosteric differences dictate GroEL complementation ofÂ E.Âcoli. FASEB Journal, 2022, 36, e22198. | 0.5 | 1 |
| 8 | Fourier-Transform Approach for Reconstructing Macromolecular Mass Defect Profiles. Journal of the American Society for Mass Spectrometry, 2022, 33, 172-180. | 2.8 | 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. | 2.8 | 8 |
| 10 | Deconvolving Native and Intact Protein Mass Spectra with UniDec. Methods in Molecular Biology, 2022, , 159-180. | 0.9 | 6 |
| 11 | Investigating the Lipid Selectivity of Membrane Proteins in Heterogeneous Nanodiscs. Analytical Chemistry, 2022, 94, 8497-8505. | 6.5 | 14 |
| 12 | Lipids and EGCG Affect Î±-Synuclein Association and Disruption of Nanodiscs. Biochemistry, 2022, 61, 1014-1021. | 2.5 | 5 |
| 13 | Native mass spectrometry reveals the simultaneous binding of lipids and zinc to rhodopsin. International Journal of Mass Spectrometry, 2021, 460, 116477. | 1.5 | 13 |
| 14 | Native Mass Spectrometry of Membrane Proteins. Analytical Chemistry, 2021, 93, 583-597. | 6.5 | 71 |
| 15 | Copper-Free Click Enabled Triazabutadiene for Bioorthogonal Protein Functionalization. Bioconjugate Chemistry, 2021, 32, 254-258. | 3.6 | 8 |
| 16 | Illuminating Individual Membrane Protein Complexes with Mass Photometry. CheM, 2021, 7, 16-17. | 11.7 | 2 |
| 17 | Suzuki Coupling of Protected Aryl Diazonium Ions: Expanding the Knowledge of Triazabutadiene Compatible Reactions. Organic Letters, 2021, 23, 1851-1855. | 4.6 | 3 |
| 18 | Assembly of Model Membrane Nanodiscs for Native Mass Spectrometry. Analytical Chemistry, 2021, 93, 5972-5979. | 6.5 | 20 |

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|---|---|---|---|
| 19 | Structural basis of omega-3 fatty acid transport across the bloodâ€“brain barrier. Nature, 2021, 595, 315-319. | 27.8 | 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. | 11.3 | 115 |
| 21 | Albumin Conjugates of Thiosemicarbazone and Imidazoleâ€2â€thione Prochelators: Iron Coordination and Antiproliferative Activity. ChemMedChem, 2021, 16, 2764-2768. | 3.2 | 5 |
| 22 | Directâ€MS analysis of antibodyâ€antigen complexes. Proteomics, 2021, 21, e2000300. | 2.2 | 8 |
| 23 | UniDecCD: Deconvolution of Charge Detection-Mass Spectrometry Data. Analytical Chemistry, 2021, 93, 14722-14729. | 6.5 | 19 |
| 24 | Protein Modification via Mild Photochemical Isomerization of Triazenes to Release Aryl Diazonium Ions. Bioconjugate Chemistry, 2021, 32, 2432-2438. | 3.6 | 5 |
| 25 | Influenza AM2 Channel Oligomerization Is Sensitive to Its Chemical Environment. Analytical Chemistry, 2021, 93, 16273-16281. | 6.5 | 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. | 13.7 | 87 |
| 27 | Nanodiscs and mass spectrometry: Making membranes fly. International Journal of Mass Spectrometry, 2020, 458, 116436. | 1.5 | 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. | 4.9 | 194 |
| 29 | Probing the structure of nanodiscs using surface-induced dissociation mass spectrometry. Chemical Communications, 2020, 56, 15651-15654. | 4.1 | 14 |
| 30 | Structure and inhibition of the SARS-CoV-2 main protease reveal strategy for developing dual inhibitors against M <sup>pro</sup> and cathepsin L. Science Advances, 2020, 6, . | 10.3 | 297 |
| 31 | Revealing the Specificity of a Range of Antimicrobial Peptides in Lipid Nanodiscs by Native Mass Spectrometry. Biochemistry, 2020, 59, 2135-2142. | 2.5 | 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. | 12.0 | 662 |
| 33 | Measuring Remodeling of the Lipid Environment Surrounding Membrane Proteins with Lipid Exchange and Native Mass Spectrometry. Analytical Chemistry, 2020, 92, 5666-5669. | 6.5 | 21 |
| 34 | Cryo-EM structure of arabinosyltransferase EmbB from Mycobacterium smegmatis. Nature Communications, 2020, 11, 3396. | 12.8 | 14 |
| 35 | A Universal Score for Deconvolution of Intact Protein and Native Electrospray Mass Spectra. Analytical Chemistry, 2020, 92, 4395-4401. | 6.5 | 23 |
| 36 | Scratching the surface: native mass spectrometry of peripheral membrane protein complexes. Biochemical Society Transactions, 2020, 48, 547-558. | 3.4 | 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. | 2.8 | 17 |
| 38 | Imidazole Derivatives Improve Charge Reduction and Stabilization for Native Mass Spectrometry. Analytical Chemistry, 2019, 91, 14765-14772. | 6.5 | 31 |
| 39 | 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. Journal of Virology, 2019, 93, . | 3.4 | 44 |
| 40 | Native Mass Spectrometry of Antimicrobial Peptides in Lipid Nanodiscs Elucidates Complex Assembly. Analytical Chemistry, 2019, 91, 9284-9291. | 6.5 | 39 |
| 41 | Measuring the Stoichiometry of Antimicrobial Peptides in Nanodiscs with Native Mass Spectrometry. Biophysical Journal, 2019, 116, 85a-86a. | 0.5 | 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. | 2.8 | 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. | 13.7 | 70 |
| 44 | MetaUniDec: High-Throughput Deconvolution of Native Mass Spectra. Journal of the American Society for Mass Spectrometry, 2019, 30, 118-127. | 2.8 | 85 |
| 45 | Structural principles that enable oligomeric small heat-shock protein paralogs to evolve distinct functions. Science, 2018, 359, 930-935. | 12.6 | 51 |
| 46 | Rapid LCâ€“MS Method for Accurate Molecular Weight Determination of Membrane and Hydrophobic Proteins. Analytical Chemistry, 2018, 90, 13616-13623. | 6.5 | 12 |
| 47 | Engineering Nanodisc Scaffold Proteins for Native Mass Spectrometry. Analytical Chemistry, 2017, 89, 11189-11192. | 6.5 | 43 |
| 48 | Dissecting the role of the CRMP2â€“neurofibromin complex on pain behaviors. Pain, 2017, 158, 2203-2221. | 4.2 | 50 |
| 49 | Probing the Lipid Annular Belt by Gasâ€Phase Dissociation of Membrane Proteins in Nanodiscs. Angewandte Chemie, 2016, 128, 560-564. | 2.0 | 5 |
| 50 | Unraveling the Composition and Behavior of Heterogeneous Lipid Nanodiscs by Mass Spectrometry. Analytical Chemistry, 2016, 88, 6199-6204. | 6.5 | 40 |
| 51 | Probing the Lipid Annular Belt by Gasâ€Phase Dissociation of Membrane Proteins in Nanodiscs. Angewandte Chemie - International Edition, 2016, 55, 550-554. | 13.8 | 95 |
| 52 | A sliding selectivity scale for lipid binding to membrane proteins. Current Opinion in Structural Biology, 2016, 39, 54-60. | 5.7 | 54 |
| 53 | Interfacing Membrane Mimetics with Mass Spectrometry. Accounts of Chemical Research, 2016, 49, 2459-2467. | 15.6 | 70 |
| 54 | High-resolution mass spectrometry of small molecules bound to membrane proteins. Nature Methods, 2016, 13, 333-336. | 19.0 | 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. | 2.5 | 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. | 6.0 | 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. | 1.5 | 16 |
| 58 | Bayesian Deconvolution of Mass and Ion Mobility Spectra: From Binary Interactions to Polydisperse Ensembles. Analytical Chemistry, 2015, 87, 4370-4376. | 6.5 | 663 |
| 59 | Interpretation and Deconvolution of Nanodisc Native Mass Spectra. Journal of the American Society for Mass Spectrometry, 2014, 25, 269-277. | 2.8 | 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. | 6.5 | 42 |
| 61 | Simulating a Time-of-Flight Mass Spectrometer: A LabView Exercise. Journal of Chemical Education, 2013, 90, 239-243. | 2.3 | 11 |
| 62 | Nanodisc-solubilized membrane protein library reflects the membrane proteome. Analytical and Bioanalytical Chemistry, 2013, 405, 4009-4016. | 3.7 | 56 |
| 63 | Native Mass Spectrometry Characterization of Intact Nanodisc Lipoprotein Complexes. Analytical Chemistry, 2012, 84, 8957-8960. | 6.5 | 95 |
| 64 | Nonlinear Analyte Concentration Gradients for One-Step Kinetic Analysis Employing Optical Microring Resonators. Analytical Chemistry, 2012, 84, 5556-5564. | 6.5 | 16 |
| 65 | Ultra-thin layer MALDI mass spectrometry of membrane proteins in nanodiscs. Analytical and Bioanalytical Chemistry, 2012, 402, 721-729. | 3.7 | 31 |