

Michael W Martynowycz

List of Publications by Year in descending order

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35
papers

1,397
citations

394286

19
h-index

395590

33
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39
all docs

39
docs citations

39
times ranked

1652
citing authors

#	ARTICLE	IF	CITATIONS
1	The CryoEM Method MicroED as a Powerful Tool for Small Molecule Structure Determination. ACS Central Science, 2018, 4, 1587-1592.	5.3	307
2	Analysis of Global and Site-Specific Radiation Damage in Cryo-EM. Structure, 2018, 26, 759-766.e4.	1.6	152
3	MicroED Structure of Au ₁₄₆ (p-MBA) ₅₇ at Subatomic Resolution Reveals a Twinned FCC Cluster. Journal of Physical Chemistry Letters, 2017, 8, 5523-5530.	2.1	100
4	Sub-Ångström cryo-EM structure of a prion protofibril reveals a polar clasp. Nature Structural and Molecular Biology, 2018, 25, 131-134.	3.6	87
5	Collection of Continuous Rotation MicroED Data from Ion Beam-Milled Crystals of Any Size. Structure, 2019, 27, 545-548.e2.	1.6	58
6	MicroED with the Falcon III direct electron detector. IUCr, 2019, 6, 921-926.	1.0	52
7	MicroED data collection with SerialEM. Ultramicroscopy, 2019, 201, 77-80.	0.8	50
8	The emerging threat of superwarfarins: history, detection, mechanisms, and countermeasures. Annals of the New York Academy of Sciences, 2016, 1374, 111-122.	1.8	48
9	Tailoring Tryptophan Synthase TrpB for Selective Quaternary Carbon Bond Formation. Journal of the American Chemical Society, 2019, 141, 19817-19822.	6.6	46
10	Hydrophobic interactions modulate antimicrobial peptoid selectivity towards anionic lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1414-1423.	1.4	43
11	Benchmarking the ideal sample thickness in cryo-EM. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	37
12	MicroED structure of the human adenosine receptor determined from a single nanocrystal in LCP. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	36
13	<i>Salmonella</i> Membrane Structural Remodeling Increases Resistance to Antimicrobial Peptide LL-37. ACS Infectious Diseases, 2019, 5, 1214-1222.	1.8	35
14	MicroED structure of lipid-embedded mammalian mitochondrial voltage-dependent anion channel. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32380-32385.	3.3	35
15	Cyclization Improves Membrane Permeation by Antimicrobial Peptoids. Langmuir, 2016, 32, 12905-12913.	1.6	33
16	Qualitative Analyses of Polishing and Precoating FIB Milled Crystals for MicroED. Structure, 2019, 27, 1594-1600.e2.	1.6	33
17	Comparing serial X-ray crystallography and microcrystal electron diffraction (MicroED) as methods for routine structure determination from small macromolecular crystals. IUCr, 2020, 7, 306-323.	1.0	32
18	Modification of Salmonella Lipopolysaccharides Prevents the Outer Membrane Penetration of Novobiocin. Biophysical Journal, 2015, 109, 2537-2545.	0.2	29

#	ARTICLE	IF	CITATIONS
19	Ab initio phasing macromolecular structures using electron-counted MicroED data. <i>Nature Methods</i> , 2022, 19, 724-729.	9.0	29
20	From electron crystallography of 2D crystals to MicroED of 3D crystals. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 34, 9-16.	3.4	20
21	Experimental Phasing of MicroED Data Using Radiation Damage. <i>Structure</i> , 2020, 28, 458-464.e2.	1.6	18
22	Membrane Cholesterol Modulates Superwarfarin Toxicity. <i>Biophysical Journal</i> , 2016, 110, 1777-1788.	0.2	16
23	Ligand Incorporation into Protein Microcrystals for MicroED by On-Grid Soaking. <i>Structure</i> , 2021, 29, 88-95.e2.	1.6	16
24	Peptoid drug discovery and optimization via surface X-ray scattering. <i>Biopolymers</i> , 2019, 110, e23274.	1.2	12
25	Microcrystal Electron Diffraction for Molecular Design of Functional Non-Fullerene Acceptor Structures. <i>Chemistry of Materials</i> , 2021, 33, 966-977.	3.2	12
26	Fragment-based determination of a proteinase K structure from MicroED data using <i>ARCIMBOLDO_SHREDDER</i> . <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 703-712.	1.1	12
27	Monomolecular Siloxane Film as a Model of Single Site Catalysts. <i>Journal of the American Chemical Society</i> , 2016, 138, 12432-12439.	6.6	11
28	Protocol for the use of focused ion-beam milling to prepare crystalline lamellae for microcrystal electron diffraction (MicroED). <i>STAR Protocols</i> , 2021, 2, 100686.	0.5	10
29	Molecular-Level Structure and Packing in Phase-Separated Arachidic Acid-Perfluorotetradecanoic Acid Monolayer Films. <i>Langmuir</i> , 2018, 34, 10673-10683.	1.6	9
30	Structural Changes in Films of Pulmonary Surfactant Induced by Surfactant Vesicles. <i>Langmuir</i> , 2020, 36, 13439-13447.	1.6	3
31	Microcrystal Electron Diffraction of Small Molecules. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	2
32	Studying Membrane Protein Structures by MicroED. <i>Methods in Molecular Biology</i> , 2021, 2302, 137-151.	0.4	2
33	Hydrophobic Interactions Modulate Peptide Cell Specificity. <i>Biophysical Journal</i> , 2018, 114, 455a.	0.2	1
34	Interaction of Novobiocin with Salmonella Sp Outer Membrane. <i>Biophysical Journal</i> , 2014, 106, 702a-703a.	0.2	0
35	Microcrystal Electron Diffraction for Molecular Design of Functional Non-Fullerene Acceptor Structures. , 0, , .		0