

Gerry Mcdermott

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,727
citations

236833

25
h-index

315616

38
g-index

49
all docs

49
docs citations

49
times ranked

2441
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Basis of Multiple Drug-Binding Capacity of the AcrB Multidrug Efflux Pump. <i>Science</i> , 2003, 300, 976-980.	6.0	372
2	Pigment-pigment interactions and energy transfer in the antenna complex of the photosynthetic bacterium <i>Rhodospseudomonas acidophila</i> . <i>Structure</i> , 1996, 4, 449-462.	1.6	265
3	X-ray tomography of whole cells. <i>Current Opinion in Structural Biology</i> , 2005, 15, 593-600.	2.6	214
4	A Periplasmic Drug-Binding Site of the AcrB Multidrug Efflux Pump: a Crystallographic and Site-Directed Mutagenesis Study. <i>Journal of Bacteriology</i> , 2005, 187, 6804-6815.	1.0	202
5	Soft X-ray tomography and cryogenic light microscopy: the cool combination in cellular imaging. <i>Trends in Cell Biology</i> , 2009, 19, 587-595.	3.6	157
6	Quantitative 3-D imaging of eukaryotic cells using soft X-ray tomography. <i>Journal of Structural Biology</i> , 2008, 162, 380-386.	1.3	152
7	Quantitative analysis of yeast internal architecture using soft X-ray tomography. <i>Yeast</i> , 2011, 28, 227-236.	0.8	146
8	Soft X-ray tomography of phenotypic switching and the cellular response to antifungal peptoids in <i>Candida albicans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19375-19380.	3.3	137
9	Conformation of the AcrB Multidrug Efflux Pump in Mutants of the Putative Proton Relay Pathway. <i>Journal of Bacteriology</i> , 2006, 188, 7290-7296.	1.0	117
10	Visualizing Cell Architecture and Molecular Location Using Soft X-Ray Tomography and Correlated Cryo-Light Microscopy. <i>Annual Review of Physical Chemistry</i> , 2012, 63, 225-239.	4.8	81
11	Crystal Structure of the Transcriptional Regulator AcrR from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2007, 374, 591-603.	2.0	79
12	Biological soft X-ray tomography on beamline 2.1 at the Advanced Light Source. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1370-1377.	1.0	78
13	Quantitatively Imaging Chromosomes by Correlated Cryo-Fluorescence and Soft X-Ray Tomographies. <i>Biophysical Journal</i> , 2014, 107, 1988-1996.	0.2	73
14	Reconstitution of the B800 bacteriochlorophylls in the peripheral light harvesting complex B800-850 of <i>Rhodospira rubra</i> 2.4.1 with BChl a and modified (bacterio-)chlorophylls. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998, 1364, 390-402.	0.5	51
15	Crystal Structure of the Transcriptional Regulator CmeR from <i>Campylobacter jejuni</i> . <i>Journal of Molecular Biology</i> , 2007, 372, 583-593.	2.0	50
16	Visualizing and quantifying cell phenotype using soft X-ray tomography. <i>BioEssays</i> , 2012, 34, 320-327.	1.2	49
17	Nanoimaging Cells Using Soft X-Ray Tomography. <i>Methods in Molecular Biology</i> , 2013, 950, 457-481.	0.4	47
18	Nuclear envelope expansion in budding yeast is independent of cell growth and does not determine nuclear volume. <i>Molecular Biology of the Cell</i> , 2019, 30, 131-145.	0.9	38

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19	Imaging and characterizing cells using tomography. Archives of Biochemistry and Biophysics, 2015, 581, 111-121.	1.4	36
20	Visualizing subcellular rearrangements in intact $\hat{1}^2$ cells using soft x-ray tomography. Science Advances, 2020, 6, .	4.7	36
21	Engineering yeast endosymbionts as a step toward the evolution of mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11796-11801.	3.3	34
22	Putting Molecules in Their Place. Journal of Cellular Biochemistry, 2014, 115, 209-216.	1.2	33
23	Correlative cryogenic tomography of cells using light and soft x-rays. Ultramicroscopy, 2014, 143, 33-40.	0.8	32
24	Mesoscale imaging with cryo-light and X-rays: Larger than molecular machines, smaller than a cell. Biology of the Cell, 2017, 109, 24-38.	0.7	31
25	Imaging cell morphology and physiology using X-rays. Biochemical Society Transactions, 2019, 47, 489-508.	1.6	29
26	Correlative microscopy methods that maximize specimen fidelity and data completeness, and improve molecular localization capabilities. Journal of Structural Biology, 2013, 184, 12-20.	1.3	26
27	Progress towards structural elucidation of Photosystem II. Photosynthesis Research, 1996, 50, 93-101.	1.6	23
28	Soft X-ray tomography to map and quantify organelle interactions at the mesoscale. Structure, 2022, 30, 510-521.e3.	1.6	22
29	Conformational change of the AcrR regulator reveals a possible mechanism of induction. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 584-588.	0.7	20
30	A protocol for full-rotation soft X-ray tomography of single cells. STAR Protocols, 2022, 3, 101176.	0.5	20
31	PSF correction in soft X-ray tomography. Journal of Structural Biology, 2018, 204, 9-18.	1.3	19
32	Switchable resolution in soft x-ray tomography of single cells. PLoS ONE, 2020, 15, e0227601.	1.1	18
33	Three-dimensional imaging of mitochondrial cristae complexity using cryo-soft X-ray tomography. Scientific Reports, 2020, 10, 21045.	1.6	10
34	Progress Toward Automatic Segmentation of Soft X-ray Tomograms Using Convolutional Neural Networks. Microscopy and Microanalysis, 2017, 23, 984-985.	0.2	5
35	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of the regulator AcrR from Escherichia coli. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 1150-1152.	0.7	4
36	Preliminary structural studies of the transcriptional regulator CmeR from Campylobacter jejuni. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 34-36.	0.7	3

#	ARTICLE	IF	CITATIONS
37	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2019, , 1-32.		3
38	The Topological Organization of the Inactive X Chromosome in its Native State. Biophysical Journal, 2014, 106, 434a-435a.	0.2	2
39	PSF Corrected Reconstruction in Soft X-ray Tomography (SXT). Microscopy and Microanalysis, 2017, 23, 978-979.	0.2	2
40	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2019, , 1-32.		2
41	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2016, , 1367-1391.		1
42	Macromolecular crystallography workshop. Synchrotron Radiation News, 2002, 15, 11-12.	0.2	0
43	The National Center for X-Ray Tomography: Status Update. Microscopy and Microanalysis, 2017, 23, 970-971.	0.2	0
44	Sorting Out the JUNQ: the Spatial Nature of Protein Quality Control. Microscopy and Microanalysis, 2017, 23, 994-995.	0.2	0
45	Quantitative Analyzing the Spatial Organization of the Organelles in Cancer Cell Using Soft X-Ray Tomography. Microscopy and Microanalysis, 2017, 23, 1392-1393.	0.2	0
46	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2020, , 1613-1644.		0