Gerry Mcdermott

List of Publications by Year in descending order

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Version: 2024-02-01

46 papers	2,727 citations	236925 25 h-index	315739 38 g-index
49 all docs	49 docs citations	49 times ranked	2441 citing authors

#	Article	IF	Citations
1	Soft X-ray tomography to map and quantify organelle interactions at the mesoscale. Structure, 2022, 30, 510-521.e3.	3.3	22
2	A protocol for full-rotation soft X-ray tomography of single cells. STAR Protocols, 2022, 3, 101176.	1.2	20
3	Three-dimensional imaging of mitochondrial cristae complexity using cryo-soft X-ray tomography. Scientific Reports, 2020, 10, 21045.	3.3	10
4	Visualizing subcellular rearrangements in intact Î² cells using soft x-ray tomography. Science Advances, 2020, 6, .	10.3	36
5	Switchable resolution in soft x-ray tomography of single cells. PLoS ONE, 2020, 15, e0227601.	2.5	18
6	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2020, , 1613-1644.		0
7	Imaging cell morphology and physiology using X-rays. Biochemical Society Transactions, 2019, 47, 489-508.	3.4	29
8	Nuclear envelope expansion in budding yeast is independent of cell growth and does not determine nuclear volume. Molecular Biology of the Cell, 2019, 30, 131-145.	2.1	38
9	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2019, , 1-32.		3
10	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2019, , 1-32.		2
11	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.	7.1	34
12	PSF correction in soft X-ray tomography. Journal of Structural Biology, 2018, 204, 9-18.	2.8	19
13	Progress Toward Automatic Segmentation of Soft X-ray Tomograms Using Convolutional Neural Networks. Microscopy and Microanalysis, 2017, 23, 984-985.	0.4	5
14	Mesoscale imaging with cryoâ€light and Xâ€rays: Larger than molecular machines, smaller than a cell. Biology of the Cell, 2017, 109, 24-38.	2.0	31
15	The National Center for X-Ray Tomography: Status Update. Microscopy and Microanalysis, 2017, 23, 970-971.	0.4	0
16	PSF Corrected Reconstruction in Soft X-ray Tomography (SXT). Microscopy and Microanalysis, 2017, 23, 978-979.	0.4	2
17	Sorting Out the JUNQ: the Spatial Nature of Protein Quality Control. Microscopy and Microanalysis, 2017, 23, 994-995.	0.4	0
18	Quantitative Analyzing the Spatial Organization of the Organelles in Cancer Cell Using Soft X-Ray Tomography. Microscopy and Microanalysis, 2017, 23, 1392-1393.	0.4	0

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19	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2016, , 1367-1391.		1
20	Imaging and characterizing cells using tomography. Archives of Biochemistry and Biophysics, 2015, 581, 111-121.	3.0	36
21	Quantitatively Imaging Chromosomes by Correlated Cryo-Fluorescence and Soft X-Ray Tomographies. Biophysical Journal, 2014, 107, 1988-1996.	0.5	73
22	Putting Molecules in Their Place. Journal of Cellular Biochemistry, 2014, 115, 209-216.	2.6	33
23	Correlative cryogenic tomography of cells using light and soft x-rays. Ultramicroscopy, 2014, 143, 33-40.	1.9	32
24	The Topological Organization of the Inactive X Chromosome in its Native State. Biophysical Journal, 2014, 106, 434a-435a.	0.5	2
25	Biological soft X-ray tomography on beamline 2.1 atÂthe Advanced Light Source. Journal of Synchrotron Radiation, 2014, 21, 1370-1377.	2.4	78
26	Correlative microscopy methods that maximize specimen fidelity and data completeness, and improve molecular localization capabilities. Journal of Structural Biology, 2013, 184, 12-20.	2.8	26
27	Nanoimaging Cells Using Soft X-Ray Tomography. Methods in Molecular Biology, 2013, 950, 457-481.	0.9	47
28	Visualizing Cell Architecture and Molecular Location Using Soft X-Ray Tomography and Correlated Cryo-Light Microscopy. Annual Review of Physical Chemistry, 2012, 63, 225-239.	10.8	81
29	Visualizing and quantifying cell phenotype using soft Xâ€ray tomography. BioEssays, 2012, 34, 320-327.	2.5	49
30	Quantitative analysis of yeast internal architecture using soft Xâ€ray tomography. Yeast, 2011, 28, 227-236.	1.7	146
31	Soft X-ray tomography of phenotypic switching and the cellular response to antifungal peptoids in Candida albicans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19375-19380.	7.1	137
32	Soft X-ray tomography and cryogenic light microscopy: the cool combination in cellular imaging. Trends in Cell Biology, 2009, 19, 587-595.	7.9	157
33	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
34	Quantitative 3-D imaging of eukaryotic cells using soft X-ray tomography. Journal of Structural Biology, 2008, 162, 380-386.	2.8	152
35	Crystal Structure of the Transcriptional Regulator CmeR from Campylobacter jejuni. Journal of Molecular Biology, 2007, 372, 583-593.	4.2	50
36	Crystal Structure of the Transcriptional Regulator AcrR from Escherichia coli. Journal of Molecular Biology, 2007, 374, 591-603.	4.2	79

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37	Preliminary structural studies of the transcriptional regulator CmeR fromCampylobacter jejuni. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 34-36.	0.7	3
38	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of the regulator AcrR fromEscherichia coli. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 1150-1152.	0.7	4
39	Conformation of the AcrB Multidrug Efflux Pump in Mutants of the Putative Proton Relay Pathway. Journal of Bacteriology, 2006, 188, 7290-7296.	2.2	117
40	X-ray tomography of whole cells. Current Opinion in Structural Biology, 2005, 15, 593-600.	5.7	214
41	A Periplasmic Drug-Binding Site of the AcrB Multidrug Efflux Pump: a Crystallographic and Site-Directed Mutagenesis Study. Journal of Bacteriology, 2005, 187, 6804-6815.	2.2	202
42	Structural Basis of Multiple Drug-Binding Capacity of the AcrB Multidrug Efflux Pump. Science, 2003, 300, 976-980.	12.6	372
43	Macromolecular crystallography workshop. Synchrotron Radiation News, 2002, 15, 11-12.	0.8	0
44	Reconstitution of the B800 bacteriochlorophylls in the peripheral light harvesting complex B800â€“850 of Rhodobacter sphaeroides 2.4.1 with BChl a and modified (bacterio-)chlorophylls. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1364, 390-402.	1.0	51
45	Pigmentâ€“pigment interactions and energy transfer in the antenna complex of the photosynthetic bacterium Rhodopseudomonas acidophila. Structure, 1996, 4, 449-462.	3.3	265
46	Progress towards structural elucidation of Photosystem II. Photosynthesis Research, 1996, 50, 93-101.	2.9	23