

Carolyn A Larabell

List of Publications by Year in descending order

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66
papers

4,456
citations

147801

31
h-index

155660

55
g-index

69
all docs

69
docs citations

69
times ranked

5443
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous driving forces give rise to proteinâRNA condensates with coexisting phases and complex material properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7889-7898.	7.1	365
2	Nuclear Aggregation of Olfactory Receptor Genes Governs Their Monogenic Expression. <i>Cell</i> , 2012, 151, 724-737.	28.9	315
3	Imaging whole <i>Escherichia coli</i> bacteria by using single-particle x-ray diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 110-112.	7.1	280
4	X-ray Tomography Generates 3-D Reconstructions of the Yeast, <i>Saccharomyces cerevisiae</i> , at 60-nm Resolution. <i>Molecular Biology of the Cell</i> , 2004, 15, 957-962.	2.1	265
5	X-ray tomography of whole cells. <i>Current Opinion in Structural Biology</i> , 2005, 15, 593-600.	5.7	214
6	Population-based 3D genome structure analysis reveals driving forces in spatial genome organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1663-72.	7.1	182
7	Imaging cellular architecture with X-rays. <i>Current Opinion in Structural Biology</i> , 2010, 20, 623-631.	5.7	158
8	Soft X-ray tomography and cryogenic light microscopy: the cool combination in cellular imaging. <i>Trends in Cell Biology</i> , 2009, 19, 587-595.	7.9	157
9	Quantitative 3-D imaging of eukaryotic cells using soft X-ray tomography. <i>Journal of Structural Biology</i> , 2008, 162, 380-386.	2.8	152
10	Quantitative analysis of yeast internal architecture using soft X-ray tomography. <i>Yeast</i> , 2011, 28, 227-236.	1.7	146
11	HU multimerization shift controls nucleoid compaction. <i>Science Advances</i> , 2016, 2, e1600650.	10.3	144
12	Soft X-ray microscopy analysis of cell volume and hemoglobin content in erythrocytes infected with asexual and sexual stages of <i>Plasmodium falciparum</i> . <i>Journal of Structural Biology</i> , 2012, 177, 224-232.	2.8	139
13	AMPK and vacuole-associated Atg14p orchestrate 1/4-lipophagy for energy production and long-term survival under glucose starvation. <i>ELife</i> , 2017, 6, .	6.0	138
14	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.	7.1	137
15	Chromosome-level genome assembly and transcriptome of the green alga <i>Chromochloris zofingiensis</i> illuminates astaxanthin production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4296-E4305.	7.1	131
16	Progressive Chromatin Condensation and H3K9 Methylation Regulate the Differentiation of Embryonic and Hematopoietic Stem Cells. <i>Stem Cell Reports</i> , 2015, 5, 728-740.	4.8	106
17	Soft X-Ray Tomography Reveals Gradual Chromatin Compaction and Reorganization during Neurogenesis In Vivo. <i>Cell Reports</i> , 2016, 17, 2125-2136.	6.4	85
18	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.	10.8	81

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19	Automatic alignment and reconstruction of images for soft X-ray tomography. <i>Journal of Structural Biology</i> , 2012, 177, 259-266.	2.8	79
20	Analysis of ER-mitochondria contacts by correlative fluorescence microscopy and soft X-ray tomography of mammalian cells. <i>Journal of Cell Science</i> , 2015, 128, 2795-804.	2.0	79
21	Biological soft X-ray tomography on beamline 2.1 at the Advanced Light Source. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1370-1377.	2.4	78
22	Quantitatively Imaging Chromosomes by Correlated Cryo-Fluorescence and Soft X-Ray Tomographies. <i>Biophysical Journal</i> , 2014, 107, 1988-1996.	0.5	73
23	Regulation of Oxygenic Photosynthesis during Trophic Transitions in the Green Alga <i>Chromochloris zofingiensis</i> . <i>Plant Cell</i> , 2019, 31, 579-601.	6.6	61
24	Cryo transmission X-ray imaging of the malaria parasite, <i>P. falciparum</i> . <i>Journal of Structural Biology</i> , 2011, 173, 161-168.	2.8	58
25	Herpes simplex virus 1 induces egress channels through marginalized host chromatin. <i>Scientific Reports</i> , 2016, 6, 28844.	3.3	53
26	Visualizing and quantifying cell phenotype using soft X-ray tomography. <i>BioEssays</i> , 2012, 34, 320-327.	2.5	49
27	Nanoimaging Cells Using Soft X-Ray Tomography. <i>Methods in Molecular Biology</i> , 2013, 950, 457-481.	0.9	47
28	A 3D cellular context for the macromolecular world. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 841-845.	8.2	47
29	Nucleoid remodeling during environmental adaptation is regulated by HU-dependent DNA bundling. <i>Nature Communications</i> , 2020, 11, 2905.	12.8	39
30	X-ray tomography of <i>Schizosaccharomyces pombe</i> . <i>Differentiation</i> , 2007, 75, 529-535.	1.9	38
31	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.	2.1	38
32	The Yeast Polo Kinase Cdc5 Regulates the Shape of the Mitotic Nucleus. <i>Current Biology</i> , 2014, 24, 2861-2867.	3.9	36
33	Imaging and characterizing cells using tomography. <i>Archives of Biochemistry and Biophysics</i> , 2015, 581, 111-121.	3.0	36
34	Visualizing subcellular rearrangements in intact $\hat{2}$ cells using soft x-ray tomography. <i>Science Advances</i> , 2020, 6, .	10.3	36
35	Putting Molecules in Their Place. <i>Journal of Cellular Biochemistry</i> , 2014, 115, 209-216.	2.6	33
36	Correlative cryogenic tomography of cells using light and soft x-rays. <i>Ultramicroscopy</i> , 2014, 143, 33-40.	1.9	32

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37	Mesoscale imaging with cryo-EM and X-rays: Larger than molecular machines, smaller than a cell. <i>Biology of the Cell</i> , 2017, 109, 24-38.	2.0	31
38	Imaging cell morphology and physiology using X-rays. <i>Biochemical Society Transactions</i> , 2019, 47, 489-508.	3.4	29
39	Soft X-ray tomography: virtual sculptures from cell cultures. <i>Current Opinion in Structural Biology</i> , 2019, 58, 324-332.	5.7	27
40	Correlative microscopy methods that maximize specimen fidelity and data completeness, and improve molecular localization capabilities. <i>Journal of Structural Biology</i> , 2013, 184, 12-20.	2.8	26
41	Using soft X-ray tomography for rapid whole-cell quantitative imaging of SARS-CoV-2-infected cells. <i>Cell Reports Methods</i> , 2021, 1, 100117.	2.9	26
42	Chromatin organization regulates viral egress dynamics. <i>Scientific Reports</i> , 2017, 7, 3692.	3.3	24
43	Soft X-ray tomography to map and quantify organelle interactions at the mesoscale. <i>Structure</i> , 2022, 30, 510-521.e3.	3.3	22
44	Visualizing red blood cell sickling and the effects of inhibition of sphingosine kinase 1 using soft x-ray tomography. <i>Journal of Cell Science</i> , 2016, 129, 3511-7.	2.0	21
45	A protocol for full-rotation soft X-ray tomography of single cells. <i>STAR Protocols</i> , 2022, 3, 101176.	1.2	20
46	PSF correction in soft X-ray tomography. <i>Journal of Structural Biology</i> , 2018, 204, 9-18.	2.8	19
47	Switchable resolution in soft x-ray tomography of single cells. <i>PLoS ONE</i> , 2020, 15, e0227601.	2.5	18
48	Quantitative Microscopy Reveals Stepwise Alteration of Chromatin Structure during Herpesvirus Infection. <i>Viruses</i> , 2019, 11, 935.	3.3	17
49	Strong intracellular signal inactivation produces sharper and more robust signaling from cell membrane to nucleus. <i>PLoS Computational Biology</i> , 2020, 16, e1008356.	3.2	16
50	Microscopic Visualization of Cell-Cell Adhesion Complexes at Micro and Nanoscale. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 819534.	3.7	16
51	Task Based Semantic Segmentation of Soft X-ray CT Images Using 3D Convolutional Neural Networks. <i>Microscopy and Microanalysis</i> , 2020, 26, 3152-3154.	0.4	7
52	Progress Toward Automatic Segmentation of Soft X-ray Tomograms Using Convolutional Neural Networks. <i>Microscopy and Microanalysis</i> , 2017, 23, 984-985.	0.4	5
53	Soft X-ray Microcopy at the ALS. <i>Synchrotron Radiation News</i> , 2003, 16, 16-27.	0.8	3
54	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2019, , 1-32.		3

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55	PSF Corrected Reconstruction in Soft X-ray Tomography (SXT). <i>Microscopy and Microanalysis</i> , 2017, 23, 978-979.	0.4	2
56	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2019, , 1-32.		2
57	Quantitative 3D analysis of structural organization of normal and tumor cells. <i>Microscopy and Microanalysis</i> , 2017, 23, 996-997.	0.4	1
58	Quantifying Changes in Nuclear Organization in Normal vs. Cancer Cells using X-ray Tomography. <i>Microscopy and Microanalysis</i> , 2014, 20, 1370-1371.	0.4	0
59	The National Center for X-Ray Tomography: Status Update. <i>Microscopy and Microanalysis</i> , 2017, 23, 970-971.	0.4	0
60	Chromatin Reorganization during Viral Infection. <i>Microscopy and Microanalysis</i> , 2017, 23, 988-989.	0.4	0
61	Sorting Out the JUNQ: the Spatial Nature of Protein Quality Control. <i>Microscopy and Microanalysis</i> , 2017, 23, 994-995.	0.4	0
62	Quantitative Analyzing the Spatial Organization of the Organelles in Cancer Cell Using Soft X-Ray Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 1392-1393.	0.4	0
63	Imaging Sub-cellular 3D Structures Using Soft X-ray Microscopy. <i>Microscopy and Microanalysis</i> , 2020, 26, 2782-2783.	0.4	0
64	Correlated Soft X-ray and Cryogenic Fluorescence Tomography Is a Powerful Tool to Explore the Role of Mitochondria-associated Membranes in Insulin Secretory Pathway. <i>Microscopy and Microanalysis</i> , 2020, 26, 3158-3159.	0.4	0
65	Advances in Soft X-ray Tomography. <i>Microscopy and Microanalysis</i> , 2020, 26, 3150-3151.	0.4	0
66	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells. , 2020, , 1613-1644.		0