

Claire M Brown

List of Publications by Year in descending order

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63
papers

4,439
citations

159585

30
h-index

114465

63
g-index

71
all docs

71
docs citations

71
times ranked

6330
citing authors

#	ARTICLE	IF	CITATIONS
1	A global view of standards for open image data formats and repositories. <i>Nature Methods</i> , 2021, 18, 1440-1446.	19.0	36
2	QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy. <i>Nature Methods</i> , 2021, 18, 1423-1426.	19.0	44
3	CD13 orients the apical-basal polarity axis necessary for lumen formation. <i>Nature Communications</i> , 2021, 12, 4697.	12.8	11
4	QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy. <i>Journal of Microscopy</i> , 2021, 284, 56-73.	1.8	33
5	Fluorescence Microscopy Light Source Review. <i>Current Protocols</i> , 2021, 1, e243.	2.9	4
6	MethodsJ2: a software tool to capture metadata and generate comprehensive microscopy methods text. <i>Nature Methods</i> , 2021, 18, 1414-1416.	19.0	10
7	Towards community-driven metadata standards for light microscopy: tiered specifications extending the OME model. <i>Nature Methods</i> , 2021, 18, 1427-1440.	19.0	25
8	Micro-Meta App: an interactive tool for collecting microscopy metadata based on community specifications. <i>Nature Methods</i> , 2021, 18, 1489-1495.	19.0	16
9	Microscope Hardware and Software Delays Cause Photo-Toxicity. <i>Microscopy Today</i> , 2020, 28, 30-36.	0.3	2
10	Tutorial: guidance for quantitative confocal microscopy. <i>Nature Protocols</i> , 2020, 15, 1585-1611.	12.0	201
11	p66ShcA functions as a contextual promoter of breast cancer metastasis. <i>Breast Cancer Research</i> , 2020, 22, 7.	5.0	10
12	The SHCA adapter protein cooperates with lipoma-preferred partner in the regulation of adhesion dynamics and invadopodia formation. <i>Journal of Biological Chemistry</i> , 2020, 295, 10535-10559.	3.4	10
13	Optimizing live-cell fluorescence imaging conditions to minimize phototoxicity. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	51
14	Paxillin S273 Phosphorylation Regulates Adhesion Dynamics and Cell Migration through a Common Protein Complex with PAK1 and FAK. <i>Scientific Reports</i> , 2019, 9, 11430.	3.3	16
15	Fluorescence microscope light source stability. <i>Histochemistry and Cell Biology</i> , 2019, 151, 357-366.	1.7	14
16	Rac activation is key to cell motility and directionality: An experimental and modelling investigation. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 1436-1452.	4.1	13
17	Emerging roles for LPP in metastatic cancer progression. <i>Journal of Cell Communication and Signaling</i> , 2018, 12, 143-156.	3.4	25
18	Careers in Core Facility Management. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a032805.	5.5	4

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19	Paxillin phosphorylation at serine 273 and its effects on Rac, Rho and adhesion dynamics. <i>PLoS Computational Biology</i> , 2018, 14, e1006303.	3.2	23
20	Reproducibility in light microscopy: Maintenance, standards and SOPs. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 89, 120-124.	2.8	30
21	Less is More: Longer Exposure Times with Low Light Intensity is Less Photo-Toxic. <i>Microscopy Today</i> , 2017, 25, 26-35.	0.3	23
22	Parallelized cytoindentation using convex micropatterned surfaces. <i>BioTechniques</i> , 2016, 61, 73-82.	1.8	7
23	Excitation Light Dose Engineering to Reduce Photo-bleaching and Photo-toxicity. <i>Scientific Reports</i> , 2016, 6, 30892.	3.3	52
24	Dorsal Horn Parvalbumin Neurons Are Gate-Keepers of Touch-Evoked Pain after Nerve Injury. <i>Cell Reports</i> , 2015, 13, 1246-1257.	6.4	248
25	A Quantitative Measure of Field Illumination. <i>Journal of Biomolecular Techniques</i> , 2015, 26, 37-44.	1.5	20
26	Any Way You Slice It—A Comparison of Confocal Microscopy Techniques. <i>Journal of Biomolecular Techniques</i> , 2015, 26, 54-65.	1.5	141
27	A high-sensitivity phospho-switch triggered by Cdk1 governs chromosome morphogenesis during cell division. <i>Genes and Development</i> , 2015, 29, 426-439.	5.9	44
28	Calibration of Wide-Field Deconvolution Microscopy for Quantitative Fluorescence Imaging. <i>Journal of Biomolecular Techniques</i> , 2014, 25, 31-40.	1.5	18
29	Mercury Free Microscopy: An Opportunity for Core Facility Directors. <i>Journal of Biomolecular Techniques</i> , 2014, 25, jbt.14-2502-001.	1.5	5
30	Live-cell techniques—Advances and challenges. <i>Cell Adhesion and Migration</i> , 2014, 8, 429-429.	2.7	0
31	Quantitative confocal microscopy. <i>Methods in Cell Biology</i> , 2014, 123, 113-134.	1.1	40
32	Fluorescence resonance energy transfer microscopy as demonstrated by measuring the activation of the serine/threonine kinase Akt. <i>Nature Protocols</i> , 2013, 8, 265-281.	12.0	122
33	A complex containing LPP and β -Actinin mediates TGF β ² -induced migration and invasion of ErbB2-expressing breast cancer cells. <i>Journal of Cell Science</i> , 2013, 126, 1981-91.	2.0	37
34	International Test Results for Objective Lens Quality, Resolution, Spectral Accuracy and Spectral Separation for Confocal Laser Scanning Microscopes. <i>Microscopy and Microanalysis</i> , 2013, 19, 1653-1668.	0.4	26
35	The endosomal adaptor protein APPL1 impairs the turnover of leading edge adhesions to regulate cell migration. <i>Molecular Biology of the Cell</i> , 2012, 23, 1486-1499.	2.1	30
36	Fluorescence Microscopy Light Sources. <i>Microscopy Today</i> , 2012, 20, 22-28.	0.3	15

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37	Epi-Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , 2012, 931, 29-59.	0.9	63
38	Live-Cell Migration and Adhesion Turnover Assays. <i>Methods in Molecular Biology</i> , 2012, 931, 61-84.	0.9	7
39	Phenylpyrrolocytosine as an Unobtrusive Base Modification for Monitoring Activity and Cellular Trafficking of siRNA. <i>ACS Chemical Biology</i> , 2011, 6, 912-919.	3.4	40
40	Measuring and interpreting point spread functions to determine confocal microscope resolution and ensure quality control. <i>Nature Protocols</i> , 2011, 6, 1929-1941.	12.0	227
41	An Adaptor Role for Cytoplasmic Sam68 in Modulating Src Activity during Cell Polarization. <i>Molecular and Cellular Biology</i> , 2009, 29, 1933-1943.	2.3	45
42	Live-cell microscopy “tips and tools. <i>Journal of Cell Science</i> , 2009, 122, 753-767.	2.0	265
43	CaMKII promotes focal adhesion turnover and cell motility by inducing tyrosine dephosphorylation of FAK and paxillin. <i>Cytoskeleton</i> , 2008, 65, 662-674.	4.4	50
44	Raster image correlation spectroscopy (RICS) for measuring fast protein dynamics and concentrations with a commercial laser scanning confocal microscope. <i>Journal of Microscopy</i> , 2008, 229, 78-91.	1.8	162
45	Oxidative stress mislocalizes and retains transport factor importin- β and nucleoporins Nup153 and Nup88 in nuclei where they generate high molecular mass complexes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 405-418.	4.1	51
46	Paxillin Dynamics Measured during Adhesion Assembly and Disassembly by Correlation Spectroscopy. <i>Biophysical Journal</i> , 2008, 94, 2819-2831.	0.5	135
47	Analysis of Signaling Events by Combining High-Throughput Screening Technology with Computer-Based Image Analysis. <i>Science Signaling</i> , 2008, 1, pl2.	3.6	28
48	Fluorescence microscopy - avoiding the pitfalls. <i>Journal of Cell Science</i> , 2007, 120, 1703-1705.	2.0	77
49	Direct interorganellar transfer of iron from endosome to mitochondrion. <i>Blood</i> , 2007, 110, 125-132.	1.4	231
50	Localization of AMP kinase is regulated by stress, cell density, and signaling through the MEK/ERK1/2 pathway. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 293, C1427-C1436.	4.6	126
51	Fluorescence microscopy “avoiding the pitfalls. <i>Journal of Cell Science</i> , 2007, 120, 3488-3488.	2.0	4
52	Probing the integrin-actin linkage using high-resolution protein velocity mapping. <i>Journal of Cell Science</i> , 2006, 119, 5204-5214.	2.0	165
53	Paxillin phosphorylation at Ser273 localizes a GIT1/PIX/PAK complex and regulates adhesion and protrusion dynamics. <i>Journal of Cell Biology</i> , 2006, 173, 587-589.	5.2	258
54	A Two-Photon FRAP Analysis of the Cytoskeleton Dynamics in the Microvilli of Intestinal Cells. <i>Biophysical Journal</i> , 2005, 88, 1467-1478.	0.5	53

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55	Fluctuation Correlation Spectroscopy with a Laser-Scanning Microscope: Exploiting the Hidden Time Structure. <i>Biophysical Journal</i> , 2005, 88, L33-L36.	0.5	195
56	Measuring Fast Dynamics in Solutions and Cells with a Laser Scanning Microscope. <i>Biophysical Journal</i> , 2005, 89, 1317-1327.	0.5	428
57	Mapping Molecular Interactions and Transport in Cell Membranes by Image Correlation Spectroscopy. , 2005, , 284-301.		0
58	Spatial mapping of integrin interactions and dynamics during cell migration by Image Correlation Microscopy. <i>Journal of Cell Science</i> , 2004, 117, 5521-5534.	2.0	211
59	Illuminating adhesion complexes in migrating cells: moving toward a bright future. <i>Current Opinion in Cell Biology</i> , 2003, 15, 614-620.	5.4	90
60	Free clathrin triskelions are required for the stability of clathrin-associated adaptor protein (AP-2) coated pit nucleation sites. <i>Biochemistry and Cell Biology</i> , 1999, 77, 439-448.	2.0	27
61	An Internalization-Competent Influenza Hemagglutinin Mutant Causes the Redistribution of AP-2 to Existing Coated Pits and Is Colocalized with AP-2 in Clathrin Free Clusters. <i>Biochemistry</i> , 1999, 38, 15166-15173.	2.5	31
62	Partitioning of Proteins into Plasma Membrane Microdomains. <i>Journal of Biological Chemistry</i> , 1997, 272, 29538-29545.	3.4	32
63	Self-Association of Ca ²⁺ -Binding Peptides Induced by Lanthanide Ions: A Fluorescence Study. <i>Analytical Biochemistry</i> , 1993, 213, 296-302.	2.4	5