Loic A Royer

List of Publications by Year
in descending order

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27	5,244	430754 18	552653 26
papers	citations	h-index	g-index

39	39	39	7316
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. Cell, 2015, 162, 1066-1077.	13.5	2,182
2	Content-aware image restoration: pushing the limits of fluorescence microscopy. Nature Methods, 2018, 15, 1090-1097.	9.0	758
3	In Toto Imaging and Reconstruction of Post-Implantation Mouse Development at the Single-Cell Level. Cell, 2018, 175, 859-876.e33.	13.5	348
4	Applications, promises, and pitfalls of deep learning for fluorescence image reconstruction. Nature Methods, 2019, 16, 1215-1225.	9.0	327
5	Democratising deep learning for microscopy with ZeroCostDL4Mic. Nature Communications, 2021, 12, 2276.	5.8	295
6	Adaptive light-sheet microscopy for long-term, high-resolution imaging in living organisms. Nature Biotechnology, 2016, 34, 1267-1278.	9.4	211
7	OpenCell: Endogenous tagging for the cartography of human cellular organization. Science, 2022, 375, eabi6983.	6.0	174
8	ClearVolume: open-source live 3D visualization for light-sheet microscopy. Nature Methods, 2015, 12, 480-481.	9.0	141
9	CLIJ: GPU-accelerated image processing for everyone. Nature Methods, 2020, 17, 5-6.	9.0	122
10	Unraveling Protein Networks with Power Graph Analysis. PLoS Computational Biology, 2008, 4, e1000108.	1.5	105
11	Cellular aspect ratio and cell division mechanics underlie the patterning of cell progeny in diverse mammalian epithelia. ELife, 2018, 7, .	2.8	69
12	DaXiâ€"high-resolution, large imaging volume and multi-view single-objective light-sheet microscopy. Nature Methods, 2022, 19, 461-469.	9.0	61
13	Pycro-Manager: open-source software for customized and reproducible microscope control. Nature Methods, 2021, 18, 226-228.	9.0	54
14	Isotropic Reconstruction of 3D Fluorescence Microscopy Images Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 126-134.	1.0	49
15	Gene mention normalization and interaction extraction with context models and sentence motifs. Genome Biology, 2008, 9, S14.	13.9	47
16	A practical guide to adaptive light-sheet microscopy. Nature Protocols, 2018, 13, 2462-2500.	5.5	34
17	GoGene: gene annotation in the fast lane. Nucleic Acids Research, 2009, 37, W300-W304.	6.5	32
18	Genome-wide expression profiling and functional network analysis upon neuroectodermal conversion of human mesenchymal stem cells suggest HIF-1 and miR-124a as important regulators. Experimental Cell Research, 2010, 316, 2760-2778.	1.2	23

#	Article	IF	Citations
19	GoPubMed: Exploring PubMed with Ontological Background Knowledge. , 2009, , 385-399.		16
20	Network Compression as a Quality Measure for Protein Interaction Networks. PLoS ONE, 2012, 7, e35729.	1.1	15
21	Parallel hierarchies: A visualization for cross-tabulating hierarchical categories. Computers and Graphics, 2018, 76, 1-17.	1.4	13
22	Improving Text Mining with Controlled Natural Language: A Case Study for Protein Interactions. Lecture Notes in Computer Science, 2006, , 66-81.	1.0	12
23	Whole blood genome-wide expression profiling and network analysis suggest MELAS master regulators. Neurological Research, 2011, 33, 638-655.	0.6	9
24	ZAF, the first open source fully automated feeder for aquatic facilities. ELife, 2021, 10, .	2.8	5
25	Whole-Genome Expression Analysis of Human Mesenchymal Stromal Cells Exposed to Ultrasmooth Tantalum vs. Titanium Oxide Surfaces. Cellular and Molecular Bioengineering, 2013, 6, 199-209.	1.0	4
26	Elimination of nurse cell nuclei that shuttle into oocytes during oogenesis. Journal of Cell Biology, 2021, 220, .	2.3	4
27	Visualising protein interaction networks with power graphs. BMC Systems Biology, 2007, 1, .	3.0	1