

# Loic A Royer

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36  
papers

2,895  
citations

17  
h-index

39  
g-index

39  
ext. papers

4,146  
ext. citations

16  
avg, IF

5.13  
L-index

#	Paper	IF	Citations
36	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. <i>Cell</i> , <b>2015</b> , 162, 1066-77	56.2	1388
35	Content-aware image restoration: pushing the limits of fluorescence microscopy. <i>Nature Methods</i> , <b>2018</b> , 15, 1090-1097	21.6	369
34	In Toto Imaging and Reconstruction of Post-Implantation Mouse Development at the Single-Cell Level. <i>Cell</i> , <b>2018</b> , 175, 859-876.e33	56.2	205
33	Applications, promises, and pitfalls of deep learning for fluorescence image reconstruction. <i>Nature Methods</i> , <b>2019</b> , 16, 1215-1225	21.6	163
32	Adaptive light-sheet microscopy for long-term, high-resolution imaging in living organisms. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 1267-1278	44.5	142
31	ClearVolume: open-source live 3D visualization for light-sheet microscopy. <i>Nature Methods</i> , <b>2015</b> , 12, 480-1	21.6	95
30	Unraveling protein networks with power graph analysis. <i>PLoS Computational Biology</i> , <b>2008</b> , 4, e1000108	5	90
29	Democratising deep learning for microscopy with ZeroCostDL4Mic. <i>Nature Communications</i> , <b>2021</b> , 12, 2276	17.4	69
28	CLIJ: GPU-accelerated image processing for everyone. <i>Nature Methods</i> , <b>2020</b> , 17, 5-6	21.6	42
27	Gene mention normalization and interaction extraction with context models and sentence motifs. <i>Genome Biology</i> , <b>2008</b> , 9 Suppl 2, S14	18.3	36
26	Cellular aspect ratio and cell division mechanics underlie the patterning of cell progeny in diverse mammalian epithelia. <i>ELife</i> , <b>2018</b> , 7,	8.9	36
25	GoGene: gene annotation in the fast lane. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, W300-4	20.1	27
24	Isotropic Reconstruction of 3D Fluorescence Microscopy Images Using Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 126-134	0.9	26
23	ZeroCostDL4Mic: an open platform to use Deep-Learning in Microscopy		24
22	A practical guide to adaptive light-sheet microscopy. <i>Nature Protocols</i> , <b>2018</b> , 13, 2462-2500	18.8	23
21	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. <i>Experimental Cell Research</i> , <b>2010</b> , 316, 2760-78	4.2	20
20	Pycro-Manager: open-source software for customized and reproducible microscope control. <i>Nature Methods</i> , <b>2021</b> , 18, 226-228	21.6	17

19	Network compression as a quality measure for protein interaction networks. <i>PLoS ONE</i> , <b>2012</b> , 7, e35729	3.7	13
18	Content-Aware Image Restoration: Pushing the Limits of Fluorescence Microscopy		13
17	GoPubMed: Exploring PubMed with Ontological Background Knowledge <b>2009</b> , 385-399		9
16	Molecular Cross-Validation for Single-Cell RNA-seq		9
15	Improving Text Mining with Controlled Natural Language: A Case Study for Protein Interactions. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 66-81	0.9	9
14	OpenCell: Endogenous tagging for the cartography of human cellular organization.. <i>Science</i> , <b>2022</b> , 375, eabi6983	33.3	9
13	Parallel hierarchies: A visualization for cross-tabulating hierarchical categories. <i>Computers and Graphics</i> , <b>2018</b> , 76, 1-17	1.8	8
12	Whole blood genome-wide expression profiling and network analysis suggest MELAS master regulators. <i>Neurological Research</i> , <b>2011</b> , 33, 638-55	2.7	7
11	Prova: Rule-Based Java Scripting for Distributed Web Applications: A Case Study in Bioinformatics. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 899-908	0.9	7
10	DaXi-high-resolution, large imaging volume and multi-view single-objective light-sheet microscopy.. <i>Nature Methods</i> , <b>2022</b> ,	21.6	7
9	Applications, Promises, and Pitfalls of Deep Learning for Fluorescence Image Reconstruction		6
8	High-Resolution, Large Imaging Volume, and Multi-View Single Objective Light-Sheet Microscopy		6
7	Self-Supervised Deep-Learning Encodes High-Resolution Features of Protein Subcellular Localization		5
6	Whole-Genome Expression Analysis of Human Mesenchymal Stromal Cells Exposed to Ultrasmooth Tantalum vs. Titanium Oxide Surfaces. <i>Cellular and Molecular Bioengineering</i> , <b>2013</b> , 6, 199-209	3.9	4
5	OpenCell: proteome-scale endogenous tagging enables the cartography of human cellular organization		4
4	Optical Aberration Correction via Phase Diversity and Deep Learning		3
3	Elimination of nurse cell nuclei that shuttle into oocytes during oogenesis. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	2
2	CLIJ: GPU-accelerated image processing for everyone		1

1 Querying Semantic Web Contents **2007**, 31-52