

# Jean-baptiste Masson

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,710  
citations

331670

21  
h-index

315739

38  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Human in the Loop Analysis of Complex Point Clouds: Advanced Visualizations, Quantifications, and Communication Features in Virtual Reality. <i>Frontiers in Bioinformatics</i> , 2022, 1, .	2.1	2
2	New Approach to Accelerated Image Annotation by Leveraging Virtual Reality and Cloud Computing. <i>Frontiers in Bioinformatics</i> , 2022, 1, .	2.1	4
3	Counting biomolecules with Bayesian inference. <i>Nature Computational Science</i> , 2022, 2, 74-75.	8.0	0
4	Hematopoietic stem cell transplantation chemotherapy causes microglia senescence and peripheral macrophage engraftment in the brain. <i>Nature Medicine</i> , 2022, 28, 517-527.	30.7	32
5	TRamWAY: mapping physical properties of individual biomolecule random motion in large-scale single-particle tracking experiments. <i>Bioinformatics</i> , 2022, 38, 3149-3150.	4.1	4
6	High-Speed Localization Microscopy and Single-Particle Tracking. , 2022, , .		0
7	DIVA, a 3D virtual reality platform, improves undergraduate craniofacial trauma education. <i>Journal of Stomatology, Oral and Maxillofacial Surgery</i> , 2021, 122, 367-371.	1.3	15
8	Management of ischiopagus twin separation with a focus on Wâ€S incision design. <i>Journal of Pediatric Surgery Case Reports</i> , 2021, 64, 101747.	0.2	3
9	Fastâ€track virtual reality for cardiac imaging in congenital heart disease. <i>Journal of Cardiac Surgery</i> , 2021, 36, 2598-2602.	0.7	21
10	Partial breast resection for multifocal lower quadrant breast tumour using virtual reality. <i>BMJ Case Reports</i> , 2021, 14, e241608.	0.5	6
11	Learning physical properties of anomalous random walks using graph neural networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 234001.	2.1	19
12	Dynamic spatiotemporal coordination of neural stem cell fate decisions occurs through local feedback in the adult vertebrate brain. <i>Cell Stem Cell</i> , 2021, 28, 1457-1472.e12.	11.1	29
13	Objective comparison of methods to decode anomalous diffusion. <i>Nature Communications</i> , 2021, 12, 6253.	12.8	109
14	Breast Magnetic Resonance Image Analysis for Surgeons Using Virtual Reality: A Comparative Study. <i>JCO Clinical Cancer Informatics</i> , 2021, 5, 1127-1133.	2.1	2
15	Mapping spatio-temporal dynamics of single biomolecules in living cells. <i>Physical Biology</i> , 2020, 17, 015003.	1.8	13
16	Genuage: visualize and analyze multidimensional single-molecule point cloud data in virtual reality. <i>Nature Methods</i> , 2020, 17, 1100-1102.	19.0	30
17	DIVA: Natural Navigation Inside 3D Images Using Virtual Reality. <i>Journal of Molecular Biology</i> , 2020, 432, 4745-4749.	4.2	15
18	Statistical Tests for Force Inference in Heterogeneous Environments. <i>Scientific Reports</i> , 2020, 10, 3783.	3.3	9

#	ARTICLE	IF	CITATIONS
19	Identifying neural substrates of competitive interactions and sequence transitions during mechanosensory responses in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2020, 16, e1008589.	3.5	23
20	Title is missing!. , 2020, 16, e1008589.		0
21	Title is missing!. , 2020, 16, e1008589.		0
22	Title is missing!. , 2020, 16, e1008589.		0
23	Title is missing!. , 2020, 16, e1008589.		0
24	Virtual Reality: Beyond Visualization. <i>Journal of Molecular Biology</i> , 2019, 431, 1315-1321.	4.2	89
25	Single molecule localisation microscopy reveals how HIV-1 Gag proteins sense membrane virus assembly sites in living host CD4 T cells. <i>Scientific Reports</i> , 2018, 8, 16283.	3.3	37
26	Gradients of Rac1 Nanoclusters Support Spatial Patterns of Rac1 Signaling. <i>Cell Reports</i> , 2017, 21, 1922-1935.	6.4	74
27	A Primer on the Bayesian Approach to High-Density Single-Molecule Trajectories Analysis. <i>Biophysical Journal</i> , 2016, 110, 1209-1215.	0.5	29
28	Competitive Disinhibition Mediates Behavioral Choice and Sequences in <i>Drosophila</i> . <i>Cell</i> , 2016, 167, 858-870.e19.	28.9	145
29	Single-Molecule Imaging of Na <sup>v</sup> 1.6 on the Surface of Hippocampal Neurons Reveals Somatic Nanoclusters. <i>Biophysical Journal</i> , 2016, 111, 1235-1247.	0.5	45
30	Dynamics of CRISPR-Cas9 genome interrogation in living cells. <i>Science</i> , 2015, 350, 823-826.	12.6	301
31	InferenceMAP: mapping of single-molecule dynamics with Bayesian inference. <i>Nature Methods</i> , 2015, 12, 594-595.	19.0	66
32	Mapping the Energy and Diffusion Landscapes of Membrane Proteins at the Cell Surface Using High-Density Single-Molecule Imaging and Bayesian Inference: Application to the Multiscale Dynamics of Glycine Receptors in the Neuronal Membrane. <i>Biophysical Journal</i> , 2014, 106, 74-83.	0.5	90
33	Using Insect Electroantennogram Sensors on Autonomous Robots for Olfactory Searches. <i>Journal of Visualized Experiments</i> , 2014, , e51704.	0.3	22
34	Calibrating optical tweezers with Bayesian inference. <i>Optics Express</i> , 2013, 21, 31578.	3.4	12
35	Olfactory searches with limited space perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11261-11266.	7.1	43
36	Probing Membrane Protein Interactions with Their Lipid Raft Environment Using Single-Molecule Tracking and Bayesian Inference Analysis. <i>PLoS ONE</i> , 2013, 8, e53073.	2.5	24

#	ARTICLE	IF	CITATIONS
37	Bayesian Decision Tree for the Classification of the Mode of Motion in Single-Molecule Trajectories. PLoS ONE, 2013, 8, e82799.	2.5	31
38	Diffraction from a subwavelength elliptic aperture: analytic approximate aperture fields. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2005.	1.5	6
39	Noninvasive inference of the molecular chemotactic response using bacterial trajectories. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1802-1807.	7.1	72
40	Inflammatory Chemokines Direct and Restrict Leukocyte Migration within Live Tissues as Glycan-Bound Gradients. Current Biology, 2012, 22, 2375-2382.	3.9	131
41	A Bayesian Inference Scheme to Extract Diffusivity and Potential Fields from Confined Single-Molecule Trajectories. Biophysical Journal, 2012, 102, 2288-2298.	0.5	74
42	Observing the Confinement Potential of Bacterial Pore-Forming Toxin Receptors Inside Rafts with Nonblinking Eu <sup>3+</sup> -Doped Oxide Nanoparticles. Biophysical Journal, 2012, 102, 2299-2308.	0.5	30
43	Quantifying Biomolecule Diffusivity Using an Optimal Bayesian Method. Biophysical Journal, 2010, 98, 596-605.	0.5	24