Thomas Boudier

List of Publications by Year
in descending order

51 papers	3,105 citations	236925 25 h-index	223800 46 g-index
61 all docs	61 docs citations	61 times ranked	5706 citing authors

#	Article	IF	Citations
1	Macrophages provide a transient muscle stem cell niche via NAMPT secretion. Nature, 2021, 591, 281-287.	27.8	111
2	Effector and stem-like memory cell fates are imprinted in distinct lymph node niches directed by CXCR3 ligands. Nature Immunology, 2021, 22, 434-448.	14.5	66
3	Chromosomes distribute randomly to, but not within, human neutrophil nuclear lobes. IScience, 2021, 24, 102161.	4.1	8
4	The site of breast cancer metastases dictates their clonal composition and reversible transcriptomic profile. Science Advances, 2021, 7, .	10.3	23
5	EM-net: Deep learning for electron microscopy image segmentation. , 2021, , .		9
6	EM-stellar: benchmarking deep learning for electron microscopy image segmentation. Bioinformatics, 2021, 37, 97-106.	4.1	16
7	An Erg-driven transcriptional program controls B cell lymphopoiesis. Nature Communications, 2020, 11, 3013.	12.8	29
8	TAPAS: Towards Automated Processing and Analysis of multi-dimensional bioimage data. F1000Research, 2020, 9, 1278.	1.6	0
9	Structural basis for delta cell paracrine regulation in pancreatic islets. Nature Communications, 2019, 10, 3700.	12.8	80
10	A novel generic dictionary-based denoising method for improving noisy and densely packed nuclei segmentation in 3D time-lapse fluorescence microscopy images. Scientific Reports, 2019, 9, 5654.	3.3	12
11	Shifting meiotic to mitotic spindle assembly in oocytes disrupts chromosome alignment. EMBO Reports, 2018, 19, 368-381.	4.5	30
12	Persistent homology for object segmentation in multidimensional grayscale images. Pattern Recognition Letters, 2018, 112, 277-284.	4.2	13
13	Rapid Synaptogenesis in the Nucleus Accumbens Is Induced by a Single Cocaine Administration and Stabilized by Mitogen-Activated Protein Kinase Interacting Kinase-1 Activity. Biological Psychiatry, 2017, 82, 806-818.	1.3	27
14	A novel toolbox to investigate tissue spatial organization applied to the study of the islets of Langerhans. Scientific Reports, 2017, 7, 44261.	3.3	17
15	DiAna, an ImageJ tool for object-based 3D co-localization and distance analysis. Methods, 2017, 115, 55-64.	3.8	132
16	NucleiNet: A convolutional encoder-decoder network for bio-image denoising. , 2017, 2017, 1986-1989.		7
17	A dictionary-based approach to reduce noise in fluorescent microscopy images. , 2017, , .		2
18	Biomineralization Patterns of Intracellular Carbonatogenesis in Cyanobacteria: Molecular Hypotheses. Minerals (Basel, Switzerland), 2016, 6, 10.	2.0	48

#	ARTICLE	IF	CITATIONS
19	Optimal processing for gel electrophoresis images: Applying Monte Carlo Tree Search in GelApp. Electrophoresis, 2016, 37, 2208-2216.	2.4	3
20	A-type Lamins Form Distinct Filamentous Networks with Differential Nuclear Pore Complex Associations. Current Biology, 2016, 26, 2651-2658.	3.9	127
21	OpenSegSPIM: a user-friendly segmentation tool for SPIM data. Bioinformatics, 2016, 32, 2075-2077.	4.1	14
22	Functional Assessment of Genetic Variants with Outcomes Adapted to Clinical Decision-Making. PLoS Genetics, 2016, 12, e1006096.	3.5	24
23	Progerin reduces LAP2Î±-telomere association in Hutchinson-Gilford progeria. ELife, 2015, 4, .	6.0	96
24	Proliferation-dependent positioning of individual centromeres in the interphase nucleus of human lymphoblastoid cell lines. Molecular Biology of the Cell, 2015, 26, 2550-2560.	2.1	12
25	Detection of high-grade atypia nuclei in breast cancer imaging. , 2015, , .		1
26	A new automated 3D detection of synaptic contacts reveals the formation of cortico-striatal synapses upon cocaine treatment in vivo. Brain Structure and Function, 2015, 220, 2953-2966.	2.3	29
27	Analysis of Nuclear Organization with TANGO, Software for High-Throughput Quantitative Analysis of 3D Fluorescence Microscopy Images. Methods in Molecular Biology, 2015, 1228, 203-222.	0.9	14
28	A generic classification-based method for segmentation of nuclei in 3D images of early embryos. BMC Bioinformatics, 2014, 15, 9.	2.6	36
29	TANGO: a generic tool for high-throughput 3D image analysis for studying nuclear organization. Bioinformatics, 2013, 29, 1840-1841.	4.1	648
30	Multiple binding of repressed mRNAs by the P-body protein Rck/p54. Rna, 2012, 18, 1702-1715.	3.5	79
31	Tangentially Migrating Neurons Assemble a Primary Cilium that Promotes Their Reorientation to the Cortical Plate. Neuron, 2012, 76, 1108-1122.	8.1	127
32	High-Speed Atomic Force Microscopy: Cooperative Adhesion and Dynamic Equilibrium of Junctional Microdomain Membrane Proteins. Journal of Molecular Biology, 2012, 423, 249-256.	4.2	27
33	Software for drift compensation, particle tracking and particle analysis of highâ€speed atomic force microscopy image series. Journal of Molecular Recognition, 2012, 25, 292-298.	2.1	39
34	Direct Image-Based Correlative Microscopy Technique for Coupling Identification and Structural Investigation of Bacterial Symbionts Associated with Metazoans. Applied and Environmental Microbiology, 2011, 77, 4172-4179.	3.1	11
35	Structural Information, Resolution, and Noise in High-Resolution Atomic Force Microscopy Topographs. Biophysical Journal, 2009, 96, 3822-3831.	0.5	51
36	Tomography of bacteriaâ€"mineral associations within the deep-sea hydrothermal vent shrimp Rimicaris exoculata. Comptes Rendus Chimie, 2008, 11, 268-280.	0.5	10

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37	3D FISH for the quantification of methane- and sulphur-oxidizing endosymbionts in bacteriocytes of the hydrothermal vent mussel *Bathymodiolus azoricus*. ISME Journal, 2008, 2, 284-292.	9.8	61
38	Electron tomography of early melanosomes: Implications for melanogenesis and the generation of fibrillar amyloid sheets. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19726-19731.	7.1	133
39	Three-Dimensional Architecture of Presynaptic Terminal Cytomatrix. Journal of Neuroscience, 2007, 27, 6868-6877.	3.6	280
40	From high-resolution AFM topographs to atomic models of supramolecular assemblies. Journal of Structural Biology, 2007, 159, 268-276.	2.8	70
41	TomoJ: tomography software for three-dimensional reconstruction in transmission electron microscopy. BMC Bioinformatics, 2007, 8, 288.	2.6	264
42	Multiple-axis tomography: applications to basal bodies from Paramecium tetraurelia. Biology of the Cell, 2006, 98, 415-425.	2.0	23
43	Analysis of synaptic ultrastructure without fixative using high-pressure freezing and tomography. European Journal of Neuroscience, 2006, 24, 3463-3474.	2.6	128
44	Simultaneous localization of MLL, AF4 and ENL genes in interphase nuclei by 3D-FISH: MLL translocation revisited. BMC Cancer, 2006, 6, 20.	2.6	18
45	Smart 3D-fish: Automation of distance analysis in nuclei of interphase cells by image processing. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 67A, 18-26.	1.5	41
46	Electron tomography of biological samples. Biochemistry (Moscow), 2004, 69, 1219-1225.	1.5	25
47	Use of cryo-negative staining in tomographic reconstruction of biological objects: application to T4 bacteriophage. Biology of the Cell, 2003, 95, 393-398.	2.0	14
48	VIDOS, a system for video editing and format conversion over the Internet. Computer Networks, 2000, 34, 931-944.	5.1	4
49	Organising multi-dimensional biological image information: The BioImage Database. Nucleic Acids Research, 1999, 27, 280-283.	14.5	28
50	Video on the Internet: An Introduction to the Digital Encoding, Compression, and Transmission of Moving Image Data. Journal of Structural Biology, 1999, 125, 133-155.	2.8	22
51	3D Analysis and Reconstruction of the Chitin Secreting Gland of Riftia pachyptila. Journal of Biological Systems, 1997, 05, 445-456.	1.4	0