

# Benoît Zuber

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

3,057  
citations

201385

27  
h-index

174990

52  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4442  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Visualization of the Outer Membrane of Mycobacteria and Corynebacteria in Their Native State. <i>Journal of Bacteriology</i> , 2008, 190, 5672-5680.	1.0	391
2	Structures of SAS-6 Suggest Its Organization in Centrioles. <i>Science</i> , 2011, 331, 1196-1199.	6.0	284
3	Quantitative analysis of the native presynaptic cytomatrix by cryoelectron tomography. <i>Journal of Cell Biology</i> , 2010, 188, 145-156.	2.3	209
4	The mammalian central nervous synaptic cleft contains a high density of periodically organized complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 19192-19197.	3.3	200
5	Cryo-EM structure of aerolysin variants reveals a novel protein fold and the pore-formation process. <i>Nature Communications</i> , 2016, 7, 12062.	5.8	144
6	Luminal particles within cellular microtubules. <i>Journal of Cell Biology</i> , 2006, 174, 759-765.	2.3	111
7	Loss of astrocyte polarization upon transient focal brain ischemia as a possible mechanism to counteract early edema formation. <i>Glia</i> , 2012, 60, 1646-1659.	2.5	97
8	Electron Cryomicroscopy of <i>E. coli</i> Reveals Filament Bundles Involved in Plasmid DNA Segregation. <i>Science</i> , 2009, 323, 509-512.	6.0	93
9	Visualization of cell microtubules in their native state. <i>Biology of the Cell</i> , 2007, 99, 45-53.	0.7	87
10	Granular Layer in the Periplasmic Space of Gram-Positive Bacteria and Fine Structures of <i>Enterococcus gallinarum</i> and <i>Streptococcus gordonii</i> Septa Revealed by Cryo-Electron Microscopy of Vitreous Sections. <i>Journal of Bacteriology</i> , 2006, 188, 6652-6660.	1.0	86
11	Direct observation of liquid crystals using cryo-TEM: Specimen preparation and low-dose imaging. <i>Microscopy Research and Technique</i> , 2014, 77, 754-772.	1.2	85
12	Cell-free reconstitution reveals centriole cartwheel assembly mechanisms. <i>Nature Communications</i> , 2017, 8, 14813.	5.8	74
13	Comparison of different methods for thin section EM analysis of <i>Mycobacterium smegmatis</i> . <i>Journal of Microscopy</i> , 2010, 237, 23-38.	0.8	70
14	Primordial GATA6 macrophages function as extravascular platelets in sterile injury. <i>Science</i> , 2021, 371, .	6.0	70
15	How to Read a Vitreous Section. <i>Methods in Cell Biology</i> , 2007, 79, 385-406.	0.5	69
16	Structure and superorganization of acetylcholine receptor-rapsyn complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10622-10627.	3.3	62
17	Synergistic interaction of sprouting and intussusceptive angiogenesis during zebrafish caudal vein plexus development. <i>Scientific Reports</i> , 2018, 8, 9840.	1.6	61
18	Active release of pneumolysin prepores and pores by mammalian cells undergoing a <i>Streptococcus pneumoniae</i> attack. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2498-2509.	1.1	55

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19	Transmission electron microscopy of the bacterial nucleoid. <i>Journal of Structural Biology</i> , 2006, 156, 246-254.	1.3	54
20	Mitochondrial impairments contribute to Spinocerebellar ataxia type 1 progression and can be ameliorated by the mitochondria-targeted antioxidant MitoQ. <i>Free Radical Biology and Medicine</i> , 2016, 97, 427-440.	1.3	52
21	Compression and crevasses in vitreous sections under different cutting conditions. <i>Journal of Microscopy</i> , 2008, 230, 167-171.	0.8	45
22	Impaired mTORC1-Dependent Expression of Homer-3 Influences SCA1 Pathophysiology. <i>Neuron</i> , 2016, 89, 129-146.	3.8	44
23	Brain endothelial tricellular junctions as novel sites for T cell diapedesis across the blood-brain barrier. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	37
24	Molecular model of the mitochondrial genome segregation machinery in <i>Trypanosoma brucei</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1809-E1818.	3.3	36
25	Activation of Metabotropic Glutamate 5 and NMDA Receptors Underlies the Induction of Persistent Bursting and Associated Long-Lasting Changes in CA3 Recurrent Connections. <i>Journal of Neuroscience</i> , 2003, 23, 5634-5644.	1.7	34
26	Peptide-Based Interactions with Calnexin Target Misassembled Membrane Proteins into Endoplasmic Reticulum-Derived Multilamellar Bodies. <i>Journal of Molecular Biology</i> , 2008, 378, 337-352.	2.0	34
27	Mitochondrial growth during the cell cycle of <i>Trypanosoma brucei</i> bloodstream forms. <i>Scientific Reports</i> , 2016, 6, 36565.	1.6	34
28	Robust Label-free, Quantitative Profiling of Circulating Plasma Microparticle (MP) Associated Proteins. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3640-3652.	2.5	33
29	TAC102 Is a Novel Component of the Mitochondrial Genome Segregation Machinery in Trypanosomes. <i>PLoS Pathogens</i> , 2016, 12, e1005586.	2.1	33
30	The fusion protein of wild-type canine distemper virus is a major determinant of persistent infection. <i>Virology</i> , 2005, 337, 312-326.	1.1	27
31	A new tool based on two micromanipulators facilitates the handling of ultrathin cryosection ribbons. <i>Journal of Structural Biology</i> , 2014, 185, 125-128.	1.3	27
32	High resolution microscopy reveals an unusual architecture of the <i>Plasmodium berghei</i> endoplasmic reticulum. <i>Molecular Microbiology</i> , 2016, 102, 775-791.	1.2	27
33	A <i>Plasmodium</i> plasma membrane reporter reveals membrane dynamics by live-cell microscopy. <i>Scientific Reports</i> , 2017, 7, 9740.	1.6	27
34	Biogenesis of the mitochondrial DNA inheritance machinery in the mitochondrial outer membrane of <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006808.	2.1	23
35	Molecular architecture of the presynaptic terminal. <i>Current Opinion in Structural Biology</i> , 2019, 54, 129-138.	2.6	20
36	Bacterial pore-forming toxin pneumolysin: Cell membrane structure and microvesicle shedding capacity determines differential survival of immune cell types. <i>FASEB Journal</i> , 2020, 34, 1665-1678.	0.2	20

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37	Preservation of high resolution protein structure by cryo-electron microscopy of vitreous sections. <i>Ultramicroscopy</i> , 2009, 110, 43-47.	0.8	16
38	Direct observation of molecular arrays in the organized smooth endoplasmic reticulum. <i>BMC Cell Biology</i> , 2009, 10, 59.	3.0	16
39	Membrane deformation and layer-by-layer peeling of giant vesicles induced by the pore-forming toxin pneumolysin. <i>Biomaterials Science</i> , 2019, 7, 3693-3705.	2.6	16
40	Hijacking of the host cell Golgi by <i>Plasmodium berghei</i> liver stage parasites. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	15
41	The highly diverged trypanosomal MICOS complex is organized in a nonessential integral membrane and an essential peripheral module. <i>Molecular Microbiology</i> , 2019, 112, 1731-1743.	1.2	14
42	The structure and symmetry of radial spoke protein complex in <i>Chlamydomonas</i> flagella. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	14
43	Multi-scale alignment of respiratory cilia and its relation to mucociliary function. <i>Journal of Structural Biology</i> , 2021, 213, 107680.	1.3	14
44	Structural Microangiopathies in Skeletal Muscle Related to Systemic Vascular Pathologies in Humans. <i>Frontiers in Physiology</i> , 2020, 11, 28.	1.3	13
45	Dissecting Out the Molecular Mechanism of Insecticidal Activity of Ostreolysin A6/Pleurotolysin B Complexes on Western Corn Rootworm. <i>Toxins</i> , 2021, 13, 455.	1.5	11
46	Supramolecular assembly of DNA-constructed vesicles. <i>Nanoscale</i> , 2020, 12, 21118-21123.	2.8	10
47	A small ribosome-associated ncRNA globally inhibits translation by restricting ribosome dynamics. <i>RNA Biology</i> , 2021, 18, 1-16.	1.5	6
48	Safe high-pressure freezing of infectious microorganisms. <i>Journal of Microscopy</i> , 2012, 246, 124-128.	0.8	5
49	iMEM: Isolation of Plasma Membrane for Cryoelectron Microscopy. <i>Structure</i> , 2016, 24, 2198-2206.	1.6	5
50	Loss of Claudin-3 Impairs Hepatic Metabolism, Biliary Barrier Function, and Cell Proliferation in the Murine Liver. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 12, 745-767.	2.3	5
51	Wt1 transcription factor impairs cardiomyocyte specification and drives a phenotypic switch from myocardium to epicardium. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	5
52	Tetraphenylethylene-DNA conjugates: influence of sticky ends and DNA sequence length on the supramolecular assembly of AIE-active vesicles. <i>Organic and Biomolecular Chemistry</i> , 2022, , .	1.5	3
53	Neurons as a model system for cryo-electron tomography. <i>Journal of Structural Biology: X</i> , 2022, 6, 100067.	0.7	2
54	Complex DNA Architectonics-Self-Assembly of Amphiphilic Oligonucleotides into Ribbons, Vesicles, and Asterosomes. <i>Bioconjugate Chemistry</i> , 2022, , .	1.8	2

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55	Ultrasensitive Label-Free Detection of Protein-Membrane Interaction Exemplified by Toxin-Liposome Insertion. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3197-3201.	2.1	2
56	Implementation of a virtual correlative light and transmission electron microscope. <i>Microscopy Research and Technique</i> , 2013, 76, 679-686.	1.2	0
57	Optimal liver metabolism and proliferation require the tight junction protein claudin-3. <i>Journal of Hepatology</i> , 2020, 73, S245-S246.	1.8	0
58	Optimal liver metabolism and proliferation require the tight junction protein claudin-3. <i>British Journal of Surgery</i> , 2021, 108, .	0.1	0
59	Cryo-electron microscopy of vitreous sections. , 2008, , 341-341.		0
60	Molecular architecture of the presynaptic compartment studied by cryo-electron tomography. , 2008, , 69-70.		0
61	Intracellular Proprotein convertase subtilisin/kexin type 9: Recruitment and regulatory role in mitochondrial architecture and bioenergetic. <i>British Journal of Surgery</i> , 2022, 109, .	0.1	0