

# Montserrat Barcena

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

3,841  
citations

236925

25  
h-index

233421

45  
g-index

57  
all docs

57  
docs citations

57  
times ranked

6453  
citing authors

#	ARTICLE	IF	CITATIONS
1	SARS-coronavirus-2 replication in Vero E6 cells: replication kinetics, rapid adaptation and cytopathology. <i>Journal of General Virology</i> , 2020, 101, 925-940.	2.9	465
2	A molecular pore spans the double membrane of the coronavirus replication organelle. <i>Science</i> , 2020, 369, 1395-1398.	12.6	372
3	A unifying structural and functional model of the coronavirus replication organelle: Tracking down RNA synthesis. <i>PLoS Biology</i> , 2020, 18, e3000715.	5.6	368
4	MERS-coronavirus replication induces severe in vitro cytopathology and is strongly inhibited by cyclosporin A or interferon- $\beta$ treatment. <i>Journal of General Virology</i> , 2013, 94, 1749-1760.	2.9	313
5	Cryo-electron tomography of mouse hepatitis virus: Insights into the structure of the coronavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 582-587.	7.1	243
6	Double-Membrane Vesicles as Platforms for Viral Replication. <i>Trends in Microbiology</i> , 2020, 28, 1022-1033.	7.7	214
7	Expression and Cleavage of Middle East Respiratory Syndrome Coronavirus nsp3-4 Polyprotein Induce the Formation of Double-Membrane Vesicles That Mimic Those Associated with Coronaviral RNA Replication. <i>MBio</i> , 2017, 8, .	4.1	176
8	Influenza virus damages the alveolar barrier by disrupting epithelial cell tight junctions. <i>European Respiratory Journal</i> , 2016, 47, 954-966.	6.7	158
9	The Transformation of Enterovirus Replication Structures: a Three-Dimensional Study of Single- and Double-Membrane Compartments. <i>MBio</i> , 2011, 2, .	4.1	138
10	Ultrastructural Characterization of Arterivirus Replication Structures: Reshaping the Endoplasmic Reticulum To Accommodate Viral RNA Synthesis. <i>Journal of Virology</i> , 2012, 86, 2474-2487.	3.4	121
11	Electron tomography in life science. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 920-930.	5.0	73
12	Internalization of Oncolytic Reovirus by Human Dendritic Cell Carriers Protects the Virus from Neutralization. <i>Clinical Cancer Research</i> , 2011, 17, 2767-2776.	7.0	73
13	A Novel Neural Network Technique for Analysis and Classification of EM Single-Particle Images. <i>Journal of Structural Biology</i> , 2001, 133, 233-245.	2.8	72
14	The DnaB-DnaC complex: a structure based on dimers assembled around an occluded channel. <i>EMBO Journal</i> , 2001, 20, 1462-1468.	7.8	71
15	Mind the gap: Micro-expansion joints drastically decrease the bending of FIB-milled cryo-lamellae. <i>Journal of Structural Biology</i> , 2019, 208, 107389.	2.8	70
16	Early Stages of Golgi Vesicle and Tubule Formation Require Diacylglycerol. <i>Molecular Biology of the Cell</i> , 2009, 20, 780-790.	2.1	69
17	Biogenesis and architecture of arterivirus replication organelles. <i>Virus Research</i> , 2016, 220, 70-90.	2.2	65
18	Sequence-related protein export NTPases encoded by the conjugative transfer region of RP4 and by the cag pathogenicity island of <i>Helicobacter pylori</i> share similar hexameric ring structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 3067-3072.	7.1	62

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19	Localization of fluorescently labeled structures in frozen-hydrated samples using integrated light electron microscopy. <i>Journal of Structural Biology</i> , 2013, 181, 283-290.	2.8	61
20	Cryo electron tomography of vitrified fibroblasts: Microtubule plus ends in situ. <i>Journal of Structural Biology</i> , 2008, 161, 459-468.	2.8	58
21	The RepA Protein of Plasmid RSF1010 Is a Replicative DNA Helicase. <i>Journal of Biological Chemistry</i> , 1997, 272, 30228-30236.	3.4	55
22	Origins of Enterovirus Replication Organelles Established by Whole-Cell Electron Microscopy. <i>MBio</i> , 2019, 10, .	4.1	51
23	Escaping Host Factor PI4KB Inhibition: Enterovirus Genomic RNA Replication in the Absence of Replication Organelles. <i>Cell Reports</i> , 2017, 21, 587-599.	6.4	41
24	Human CD8 <sup>+</sup> T Cells Damage Noninfected Epithelial Cells during Influenza Virus Infection <i>In Vitro</i> . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 536-546.	2.9	40
25	Polymorphic quaternary organization of the Bacillus subtilis bacteriophage SPP1 replicative helicase (G 40 P) 1 Edited by W. Baumeister. <i>Journal of Molecular Biology</i> , 1998, 283, 809-819.	4.2	39
26	pH-controlled quaternary states of hexameric DnaB helicase. <i>Journal of Molecular Biology</i> , 2000, 303, 383-393.	4.2	27
27	Optimisations and Challenges Involved in the Creation of Various Bioluminescent and Fluorescent Influenza A Virus Strains for In Vitro and In Vivo Applications. <i>PLoS ONE</i> , 2015, 10, e0133888.	2.5	26
28	Organoid-based expansion of patient-derived primary alveolar type 2 cells for establishment of alveolus epithelial Lung-Chip cultures. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L526-L538.	2.9	25
29	Illuminating the Sites of Enterovirus Replication in Living Cells by Using a Split-GFP-Tagged Viral Protein. <i>MSphere</i> , 2016, 1, .	2.9	24
30	Mapping and fuzzy classification of macromolecular images using self-organizing neural networks. <i>Ultramicroscopy</i> , 2000, 84, 85-99.	1.9	23
31	Antiviral Innate Immune Response Interferes with the Formation of Replication-Associated Membrane Structures Induced by a Positive-Strand RNA Virus. <i>MBio</i> , 2016, 7, .	4.1	23
32	The Origin, Dynamic Morphology, and PI4P-Independent Formation of Encephalomyocarditis Virus Replication Organelles. <i>MBio</i> , 2018, 9, .	4.1	23
33	Structural biology in the fight against COVID-19. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 2-7.	8.2	20
34	A vaccinia virus lacking A10L: viral core proteins accumulate on structures derived from the endoplasmic reticulum. <i>Cellular Microbiology</i> , 2006, 8, 427-437.	2.1	17
35	The structure of the ATP-bound state of <i>S. cerevisiae</i> phosphofructokinase determined by cryo-electron microscopy. <i>Journal of Structural Biology</i> , 2007, 159, 135-143.	2.8	17
36	Mammalian orthoreovirus T3D infects U-118 MG cell spheroids independent of junction adhesion molecule-A. <i>Gene Therapy</i> , 2014, 21, 609-617.	4.5	15

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37	Interaction with DNA of Photoactive Viologens Based on the 6-(2-Pyridinium)phenanthridinium Structure. <i>Journal of Biomolecular Structure and Dynamics</i> , 1995, 12, 827-846.	3.5	14
38	Multiscale Electron Microscopy for the Study of Viral Replication Organelles. <i>Viruses</i> , 2021, 13, 197.	3.3	13
39	DNA photocleavage by novel intercalating 6-(2-pyridinium)phenanthridinium viologens. <i>FEBS Letters</i> , 1995, 374, 426-428.	2.8	11
40	Goldâ€™ATP. <i>Journal of Structural Biology</i> , 1999, 127, 120-134.	2.8	11
41	Inducing fluorescence of uranyl acetate as a dual-purpose contrast agent for correlative light-electron microscopy with nanometre precision. <i>Scientific Reports</i> , 2017, 7, 10442.	3.3	11
42	Enhanced transduction of CAR-negative cells by protein IX-gene deleted adenovirus 5 vectors. <i>Virology</i> , 2011, 410, 192-200.	2.4	10
43	Stereospecific DNA Binding of Luminescent Atropisomeric Viologens. <i>Biochemical and Biophysical Research Communications</i> , 1995, 214, 716-722.	2.1	6
44	Adaptive Mutations in Replicase Transmembrane Subunits Can Counteract Inhibition of Equine Arteritis Virus RNA Synthesis by Cyclophilin Inhibitors. <i>Journal of Virology</i> , 2019, 93, .	3.4	5
45	A Bacterially-Expressed Recombinant Envelope Protein from Usutu Virus Induces Neutralizing Antibodies in Rabbits. <i>Vaccines</i> , 2021, 9, 157.	4.4	3
46	Title is missing!. , 2020, 18, e3000715.		1
47	193. <i>Cytokine</i> , 2013, 63, 288.	3.2	0
48	Zooming in on Cell Architecture and Molecular Structures with Correlative Light and Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 874-875.	0.4	0
49	Self-Organizing Networks for Mapping and Clustering Biological Macromolecules Images. <i>Perspectives in Neural Computing</i> , 2000, , 283-288.	0.1	0
50	Title is missing!. , 2020, 18, e3000715.		0
51	Title is missing!. , 2020, 18, e3000715.		0
52	Title is missing!. , 2020, 18, e3000715.		0