

Montserrat Barcena

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,841
citations

270111

25
h-index

263392

45
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57
all docs

57
docs citations

57
times ranked

6975
citing authors

#	ARTICLE	IF	CITATIONS
1	Organoid-based expansion of patient-derived primary alveolar type 2 cells for establishment of alveolus epithelial Lung-Chip cultures. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L526-L538.	1.3	25
2	Multiscale Electron Microscopy for the Study of Viral Replication Organelles. Viruses, 2021, 13, 197.	1.5	13
3	A Bacterially-Expressed Recombinant Envelope Protein from Usutu Virus Induces Neutralizing Antibodies in Rabbits. Vaccines, 2021, 9, 157.	2.1	3
4	Structural biology in the fight against COVID-19. Nature Structural and Molecular Biology, 2021, 28, 2-7.	3.6	20
5	A molecular pore spans the double membrane of the coronavirus replication organelle. Science, 2020, 369, 1395-1398.	6.0	372
6	Double-Membrane Vesicles as Platforms for Viral Replication. Trends in Microbiology, 2020, 28, 1022-1033.	3.5	214
7	A unifying structural and functional model of the coronavirus replication organelle: Tracking down RNA synthesis. PLoS Biology, 2020, 18, e3000715.	2.6	368
8	SARS-coronavirus-2 replication in Vero E6 cells: replication kinetics, rapid adaptation and cytopathology. Journal of General Virology, 2020, 101, 925-940.	1.3	465
9	Title is missing!. , 2020, 18, e3000715.		0
10	Title is missing!. , 2020, 18, e3000715.		0
11	Title is missing!. , 2020, 18, e3000715.		0
12	Title is missing!. , 2020, 18, e3000715.		1
13	Adaptive Mutations in Replicase Transmembrane Subunits Can Counteract Inhibition of Equine Arteritis Virus RNA Synthesis by Cyclophilin Inhibitors. Journal of Virology, 2019, 93, .	1.5	5
14	Mind the gap: Micro-expansion joints drastically decrease the bending of FIB-milled cryo-lamellae. Journal of Structural Biology, 2019, 208, 107389.	1.3	70
15	Origins of Enterovirus Replication Organelles Established by Whole-Cell Electron Microscopy. MBio, 2019, 10, .	1.8	51
16	The Origin, Dynamic Morphology, and PI4P-Independent Formation of Encephalomyocarditis Virus Replication Organelles. MBio, 2018, 9, .	1.8	23
17	Zooming in on Cell Architecture and Molecular Structures with Correlative Light and Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 874-875.	0.2	0
18	Human CD8 ⁺ T Cells Damage Noninfected Epithelial Cells during Influenza Virus Infection <i>In Vitro</i> . American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 536-546.	1.4	40

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19	Escaping Host Factor PI4KB Inhibition: Enterovirus Genomic RNA Replication in the Absence of Replication Organelles. <i>Cell Reports</i> , 2017, 21, 587-599.	2.9	41
20	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.	1.6	11
21	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, .	1.8	176
22	Illuminating the Sites of Enterovirus Replication in Living Cells by Using a Split-GFP-Tagged Viral Protein. <i>MSphere</i> , 2016, 1, .	1.3	24
23	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, .	1.8	23
24	Biogenesis and architecture of arterivirus replication organelles. <i>Virus Research</i> , 2016, 220, 70-90.	1.1	65
25	Influenza virus damages the alveolar barrier by disrupting epithelial cell tight junctions. <i>European Respiratory Journal</i> , 2016, 47, 954-966.	3.1	158
26	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.	1.1	26
27	Mammalian orthoreovirus T3D infects U-118 MG cell spheroids independent of junction adhesion molecule-A. <i>Gene Therapy</i> , 2014, 21, 609-617.	2.3	15
28	193. <i>Cytokine</i> , 2013, 63, 288.	1.4	0
29	Localization of fluorescently labeled structures in frozen-hydrated samples using integrated light electron microscopy. <i>Journal of Structural Biology</i> , 2013, 181, 283-290.	1.3	61
30	MERS-coronavirus replication induces severe in vitro cytopathology and is strongly inhibited by cyclosporin A or interferon- β treatment. <i>Journal of General Virology</i> , 2013, 94, 1749-1760.	1.3	313
31	Ultrastructural Characterization of Arterivirus Replication Structures: Reshaping the Endoplasmic Reticulum To Accommodate Viral RNA Synthesis. <i>Journal of Virology</i> , 2012, 86, 2474-2487.	1.5	121
32	Enhanced transduction of CAR-negative cells by protein IX-gene deleted adenovirus 5 vectors. <i>Virology</i> , 2011, 410, 192-200.	1.1	10
33	The Transformation of Enterovirus Replication Structures: a Three-Dimensional Study of Single- and Double-Membrane Compartments. <i>MBio</i> , 2011, 2, .	1.8	138
34	Internalization of Oncolytic Reovirus by Human Dendritic Cell Carriers Protects the Virus from Neutralization. <i>Clinical Cancer Research</i> , 2011, 17, 2767-2776.	3.2	73
35	Early Stages of Golgi Vesicle and Tubule Formation Require Diacylglycerol. <i>Molecular Biology of the Cell</i> , 2009, 20, 780-790.	0.9	69
36	Electron tomography in life science. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 920-930.	2.3	73

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37	Cryo-electron tomography of mouse hepatitis virus: Insights into the structure of the coronavirus. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 582-587.	3.3	243
38	Cryo electron tomography of vitrified fibroblasts: Microtubule plus ends in situ. Journal of Structural Biology, 2008, 161, 459-468.	1.3	58
39	The structure of the ATP-bound state of <i>S. cerevisiae</i> phosphofructokinase determined by cryo-electron microscopy. Journal of Structural Biology, 2007, 159, 135-143.	1.3	17
40	A vaccinia virus lacking A10L: viral core proteins accumulate on structures derived from the endoplasmic reticulum. Cellular Microbiology, 2006, 8, 427-437.	1.1	17
41	A Novel Neural Network Technique for Analysis and Classification of EM Single-Particle Images. Journal of Structural Biology, 2001, 133, 233-245.	1.3	72
42	The DnaB-DnaC complex: a structure based on dimers assembled around an occluded channel. EMBO Journal, 2001, 20, 1462-1468.	3.5	71
43	Mapping and fuzzy classification of macromolecular images using self-organizing neural networks. Ultramicroscopy, 2000, 84, 85-99.	0.8	23
44	pH-controlled quaternary states of hexameric DnaB helicase. Journal of Molecular Biology, 2000, 303, 383-393.	2.0	27
45	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. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3067-72.	3.3	62
46	Self-Organizing Networks for Mapping and Clustering Biological Macromolecules Images. Perspectives in Neural Computing, 2000, , 283-288.	0.1	0
47	Gold-ATP. Journal of Structural Biology, 1999, 127, 120-134.	1.3	11
48	Polymorphic quaternary organization of the <i>Bacillus subtilis</i> bacteriophage SPP1 replicative helicase (G 40 P) 1 1 Edited by W. Baumeister. Journal of Molecular Biology, 1998, 283, 809-819.	2.0	39
49	The RepA Protein of Plasmid RSF1010 Is a Replicative DNA Helicase. Journal of Biological Chemistry, 1997, 272, 30228-30236.	1.6	55
50	Interaction with DNA of Photoactive Viologens Based on the 6-(2-Pyridinium)phenanthridinium Structure. Journal of Biomolecular Structure and Dynamics, 1995, 12, 827-846.	2.0	14
51	Stereospecific DNA Binding of Luminescent Atropisomeric Viologens. Biochemical and Biophysical Research Communications, 1995, 214, 716-722.	1.0	6
52	DNA photocleavage by novel intercalating 6-(2-pyridinium)phenanthridinium viologens. FEBS Letters, 1995, 374, 426-428.	1.3	11