

# Antoni Luque

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5180251/publications.pdf>

Version: 2024-02-01

26  
papers

1,629  
citations

430442

18  
h-index

525886

27  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2252  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lytic to temperate switching of viral communities. <i>Nature</i> , 2016, 531, 466-470.	13.7	440
2	Bacteriophage Transcytosis Provides a Mechanism To Cross Epithelial Cell Layers. <i>MBio</i> , 2017, 8, .	1.8	273
3	Entropic Splitter for Particle Separation. <i>Physical Review Letters</i> , 2012, 108, 020604.	2.9	142
4	Built-In Mechanical Stress in Viral Shells. <i>Biophysical Journal</i> , 2011, 100, 1100-1108.	0.2	75
5	The chromatin fiber: multiscale problems and approaches. <i>Current Opinion in Structural Biology</i> , 2015, 31, 124-139.	2.6	68
6	Structural puzzles in virology solved with an overarching icosahedral design principle. <i>Nature Communications</i> , 2019, 10, 4414.	5.8	66
7	Variability and host density independence in inductions-based estimates of environmental lysogeny. <i>Nature Microbiology</i> , 2017, 2, 17064.	5.9	57
8	Dynamic condensation of linker histone C-terminal domain regulates chromatin structure. <i>Nucleic Acids Research</i> , 2014, 42, 7553-7560.	6.5	56
9	The interplay between mechanics and stability of viral cages. <i>Nanoscale</i> , 2014, 6, 2702-2709.	2.8	51
10	The landscape of lysogeny across microbial community density, diversity and energetics. <i>Environmental Microbiology</i> , 2021, 23, 4098-4111.	1.8	50
11	Optimal architectures of elongated viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5323-5328.	3.3	44
12	The Structure of Elongated Viral Capsids. <i>Biophysical Journal</i> , 2010, 98, 2993-3003.	0.2	36
13	Physics of shell assembly: Line tension, hole implosion, and closure catastrophe. <i>Journal of Chemical Physics</i> , 2012, 136, 184507.	1.2	31
14	Correlation among DNA Linker Length, Linker Histone Concentration, and Histone Tails in Chromatin. <i>Biophysical Journal</i> , 2016, 110, 2309-2319.	0.2	29
15	Impact of bacteria motility in the encounter rates with bacteriophage in mucus. <i>Scientific Reports</i> , 2019, 9, 16427.	1.6	28
16	Quantification of Lysogeny Caused by Phage Coinfections in Microbial Communities from Biophysical Principles. <i>MSystems</i> , 2020, 5, .	1.7	28
17	Relevance of capsid structure in the buckling and maturation of spherical viruses. <i>Physical Biology</i> , 2012, 9, 036003.	0.8	26
18	Genomic and ecological attributes of marine bacteriophages encoding bacterial virulence genes. <i>BMC Genomics</i> , 2020, 21, 126.	1.2	26

#	ARTICLE	IF	CITATIONS
19	Biophysical and physiological processes causing oxygen loss from coral reefs. <i>ELife</i> , 2019, 8, .	2.8	19
20	Theoretical Studies on Assembly, Physical Stability and Dynamics of Viruses. <i>Sub-Cellular Biochemistry</i> , 2013, 68, 553-595.	1.0	17
21	The Missing Tailed Phages: Prediction of Small Capsid Candidates. <i>Microorganisms</i> , 2020, 8, 1944.	1.6	15
22	Predicting the capsid architecture of phages from metagenomic data. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 721-732.	1.9	10
23	Space-filling and benthic competition on coral reefs. <i>PeerJ</i> , 2021, 9, e11213.	0.9	7
24	Aligning Calculus with Life Sciences Disciplines: The Argument for Integrating Statistical Reasoning. <i>Primus</i> , 2022, 32, 199-217.	0.3	3
25	The International Virus Bioinformatics Meeting 2022. <i>Viruses</i> , 2022, 14, 973.	1.5	3
26	Empirical and Theoretical Analysis of Particle Diffusion in Mucus. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	2