Jaime Iranzo

List of Publications by Year in descending order

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Version: 2024-02-01

35 papers	3,501 citations	257450 24 h-index	361022 35 g-index
40 all docs	40 docs citations	40 times ranked	4286 citing authors

#	Article	IF	Citations
1	UG/Abi: a highly diverse family of prokaryotic reverse transcriptases associated with defense functions. Nucleic Acids Research, 2022, 50, 6084-6101.	14.5	11
2	Five Challenges in the Field of Viral Diversity and Evolution. Frontiers in Virology, 2021, 1, .	1.4	6
3	Evolutionary classification of CRISPRâ€“Cas systems: a burst of class 2 and derived variants. Nature Reviews Microbiology, 2020, 18, 67-83.	28.6	1,427
4	High density of unrepaired genomic ribonucleotides leads to Topoisomerase 1-mediated severe growth defects in absence of ribonucleotide reductase. Nucleic Acids Research, 2020, 48, 4274-4297.	14.5	8
5	Game-Theoretical Modeling of Interviral Conflicts Mediated by Mini-CRISPR Arrays. Frontiers in Microbiology, 2020, 11, 381.	3.5	6
6	Genomes of the â€œ Candidatus Actinomarinalesâ€•Order: Highly Streamlined Marine Epipelagic Actinobacteria. MSystems, 2020, 5, .	3.8	24
7	Emergence of complex socioeconomic networks driven by individual and collective interests. Physical Review Research, 2020, 2, .	3.6	3
8	Reply to Holmes and DuchÃªne, â€œCan Sequence Phylogenies Safely Infer the Origin of the Global Virome?â€• Deep Phylogenetic Analysis of RNA Viruses Is Highly Challenging but Not Meaningless. MBio, 2019, 10, .	4.1	18
9	Gene gain and loss push prokaryotes beyond the homologous recombination barrier and accelerate genome sequence divergence. Nature Communications, 2019, 10, 5376.	12.8	71
10	Viruses of archaea: Structural, functional, environmental and evolutionary genomics. Virus Research, 2018, 244, 181-193.	2.2	175
11	Origins and Evolution of the Global RNA Virome. MBio, 2018, 9, .	4.1	383
12	Two RNase H2 Mutants with Differential rNMP Processing Activity Reveal a Threshold of Ribonucleotide Tolerance for Embryonic Development. Cell Reports, 2018, 25, 1135-1145.e5.	6.4	38
13	How genetic parasites persist despite the purge of natural selection. Europhysics Letters, 2018, 122, 58001.	2.0	7
14	Cancer-mutation network and the number and specificity of driver mutations. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6010-E6019.	7.1	91
15	Myosin-driven transport network in plants. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1385-E1394.	7.1	59
16	A network perspective on the virus world. Communicative and Integrative Biology, 2017, 10, e1296614.	1.4	29
17	The enigmatic archaeal virosphere. Nature Reviews Microbiology, 2017, 15, 724-739.	28.6	169
18	Disentangling the effects of selection and loss bias on gene dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5616-E5624.	7.1	44

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19	Bipartite Network Analysis of the Archaeal Virosphere: Evolutionary Connections between Viruses and Capsidless Mobile Elements. Journal of Virology, 2016, 90, 11043-11055.	3.4	84
20	Competition among networks highlights the power of the weak. Nature Communications, 2016, 7, 13273.	12.8	18
21	Inevitability of Genetic Parasites. Genome Biology and Evolution, 2016, 8, 2856-2869.	2.5	85
22	The Double-Stranded DNA Virosphere as a Modular Hierarchical Network of Gene Sharing. MBio, 2016, 7, .	4.1	151
23	Immunity, suicide or both? Ecological determinants for the combined evolution of anti-pathogen defense systems. BMC Evolutionary Biology, 2015, 15, 43.	3.2	29
24	Autoimmunity and tumor immunology: two facets of a probabilistic immune system. BMC Systems Biology, 2014, 8, 120.	3.0	9
25	Large-Scale Genomic Analysis Suggests a Neutral Punctuated Dynamics of Transposable Elements in Bacterial Genomes. PLoS Computational Biology, 2014, 10, e1003680.	3.2	32
26	Virus-host arms race at the joint origin of multicellularity and programmed cell death. Cell Cycle, 2014, 13, 3083-3088.	2.6	44
27	Evolutionary Dynamics of the Prokaryotic Adaptive Immunity System CRISPR-Cas in an Explicit Ecological Context. Journal of Bacteriology, 2013, 195, 3834-3844.	2.2	87
28	Evolutionary dynamics of genome segmentation in multipartite viruses. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3812-3819.	2.6	54
29	The impact of quasispecies dynamics on the use of therapeutics. Trends in Microbiology, 2012, 20, 595-603.	7.7	48
30	Empathy Emerges Spontaneously in the Ultimatum Game: Small Groups and Networks. PLoS ONE, 2012, 7, e43781.	2.5	59
31	Tempo and mode of inhibitorâ€“mutagen antiviral therapies: A multidisciplinary approach. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16008-16013.	7.1	38
32	The spatial Ultimatum game revisited. Journal of Theoretical Biology, 2011, 278, 1-10.	1.7	51
33	The Ultimatum Game in complex networks. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P09012.	2.3	61
34	Stochastic extinction of viral infectivity through the action of defectors. Europhysics Letters, 2009, 85, 18001.	2.0	34
35	A Network Analysis of the Human T-Cell Activation Gene Network Identifies Jagged1 as a Therapeutic Target for Autoimmune Diseases. PLoS ONE, 2007, 2, e1222.	2.5	44