

Javier Arsuaga

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,487
citations

759233

12
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

1294
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological domain structure of the Escherichia coli chromosome. <i>Genes and Development</i> , 2004, 18, 1766-1779.	5.9	399
2	Genomic transcriptional response to loss of chromosomal supercoiling in Escherichia coli. <i>Genome Biology</i> , 2004, 5, R87.	9.6	268
3	Knotting probability of DNA molecules confined in restricted volumes: DNA knotting in phage capsids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5373-5377.	7.1	230
4	DNA knots reveal a chiral organization of DNA in phage capsids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9165-9169.	7.1	212
5	Investigation of viral DNA packaging using molecular mechanics models. <i>Biophysical Chemistry</i> , 2002, 101-102, 475-484.	2.8	109
6	Chromosomes are predominantly located randomly with respect to each other in interphase human cells. <i>Journal of Cell Biology</i> , 2002, 159, 237-244.	5.2	89
7	Random state transitions of knots: a first step towards modeling unknotting by type II topoisomerases. <i>Topology and Its Applications</i> , 2007, 154, 1381-1397.	0.4	29
8	The Rab1 configuration limits topological entanglement of chromosomes in budding yeast. <i>Scientific Reports</i> , 2019, 9, 6795.	3.3	27
9	Reproducibility of 3D chromatin configuration reconstructions. <i>Biostatistics</i> , 2014, 15, 442-456.	1.5	22
10	Identification of Copy Number Aberrations in Breast Cancer Subtypes Using Persistence Topology. <i>Microarrays (Basel, Switzerland)</i> , 2015, 4, 339-369.	1.4	18
11	Comparing DNA Damage-Processing Pathways by Computer Analysis of Chromosome Painting Data. <i>Journal of Computational Biology</i> , 2004, 11, 626-641.	1.6	15
12	Orientation of DNA Minicircles Balances Density and Topological Complexity in Kinetoplast DNA. <i>PLoS ONE</i> , 2015, 10, e0130998.	2.5	15
13	Current theoretical models fail to predict the topological complexity of the human genome. <i>Frontiers in Molecular Biosciences</i> , 2015, 2, 48.	3.5	14
14	Topological analysis of gene expression arrays identifies high risk molecular subtypes in breast cancer. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2012, 23, 3-15.	0.5	9
15	Fine structure of viral dsDNA encapsidation. <i>Physical Review E</i> , 2020, 101, 022703.	2.1	7
16	Mathematical Methods in Dna Topology: Applications to Chromosome Organization and Site-Specific Recombination. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2009, , 7-36.	0.5	6
17	Bounds for minimum step number of knots confined to tubes in the simple cubic lattice. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 215601.	2.1	5
18	Quantitative Study of the Chiral Organization of the Phage Genome Induced by the Packaging Motor. <i>Biophysical Journal</i> , 2020, 118, 2103-2116.	0.5	5

#	ARTICLE	IF	CITATIONS
19	SCHIP: statistics for chromosome interphase positioning based on interchange data. Bioinformatics, 2005, 21, 3181-3182.	4.1	4
20	lon-dependent DNA configuration in bacteriophage capsids. Biophysical Journal, 2021, 120, 3292-3302.	0.5	4
21	Topology of Viral DNA. , 2010, , 255-288.		0