

Julien Dorier

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,740
citations

236925

25
h-index

330143

37
g-index

44
all docs

44
docs citations

44
times ranked

2174
citing authors

#	ARTICLE	IF	CITATIONS
1	Essential role of Cp190 in physical and regulatory boundary formation. <i>Science Advances</i> , 2022, 8, eabl8834.	10.3	27
2	CTCF loss has limited effects on global genome architecture in <i>Drosophila</i> despite critical regulatory functions. <i>Nature Communications</i> , 2021, 12, 1011.	12.8	60
3	Cell-autonomous inflammation of BRCA1-deficient ovarian cancers drives both tumor-intrinsic immunoreactivity and immune resistance via STING. <i>Cell Reports</i> , 2021, 36, 109412.	6.4	60
4	A single-cell morpho-transcriptomic map of brassinosteroid action in the <i>Arabidopsis</i> root. <i>Molecular Plant</i> , 2021, 14, 1985-1999.	8.3	40
5	<scp>SBML</scp> Level 3: an extensible format for the exchange and reuse of biological models. <i>Molecular Systems Biology</i> , 2020, 16, e9110.	7.2	178
6	Closing the DNA replication cycle: from simple circular molecules to supercoiled and knotted DNA catenanes. <i>Nucleic Acids Research</i> , 2019, 47, 7182-7198.	14.5	19
7	Are TADs supercoiled?. <i>Nucleic Acids Research</i> , 2019, 47, 521-532.	14.5	39
8	KnotProt 2.0: a database of proteins with knots and other entangled structures. <i>Nucleic Acids Research</i> , 2019, 47, D367-D375.	14.5	70
9	Introducing Supercoiling into Models of Chromosome Structure. , 2019, , 115-138.		0
10	Transcription-induced supercoiling as the driving force of chromatin loop extrusion during formation of TADs in interphase chromosomes. <i>Nucleic Acids Research</i> , 2018, 46, 1648-1660.	14.5	90
11	Knoto-ID: a tool to study the entanglement of open protein chains using the concept of knotoids. <i>Bioinformatics</i> , 2018, 34, 3402-3404.	4.1	23
12	Expert curation for building network-based dynamical models: a case study on atherosclerotic plaque formation. <i>Database: the Journal of Biological Databases and Curation</i> , 2018, 2018, .	3.0	6
13	Transcription-induced supercoiling explains formation of self-interacting chromatin domains in <i>S. pombe</i> . <i>Nucleic Acids Research</i> , 2017, 45, 9850-9859.	14.5	35
14	Molecular Dynamics Simulation of Supercoiled, Knotted, and Catenated DNA Molecules, Including Modeling of Action of DNA Gyrase. <i>Methods in Molecular Biology</i> , 2017, 1624, 339-372.	0.9	6
15	Studies of global and local entanglements of individual protein chains using the concept of knotoids. <i>Scientific Reports</i> , 2017, 7, 6309.	3.3	41
16	Topological Models for Open-Knotted Protein Chains Using the Concepts of Knotoids and Bonded Knotoids. <i>Polymers</i> , 2017, 9, 444.	4.5	38
17	Boolean regulatory network reconstruction using literature based knowledge with a genetic algorithm optimization method. <i>BMC Bioinformatics</i> , 2016, 17, 410.	2.6	37
18	How topoisomerase IV can efficiently unknot and decatenate negatively supercoiled DNA molecules without causing their torsional relaxation. <i>Nucleic Acids Research</i> , 2016, 44, 4528-4538.	14.5	33

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19	The SIB Swiss Institute of Bioinformatics's™ resources: focus on curated databases. <i>Nucleic Acids Research</i> , 2016, 44, D27-D37.	14.5	64
20	Generation of supercoils in nicked and gapped DNA drives DNA unknotting and postreplicative decatenation. <i>Nucleic Acids Research</i> , 2015, 43, 7229-7236.	14.5	26
21	Effects of physiological self-crowding of DNA on shape and biological properties of DNA molecules with various levels of supercoiling. <i>Nucleic Acids Research</i> , 2015, 43, 2390-2399.	14.5	31
22	Effects of supercoiling on enhancer-promoter contacts. <i>Nucleic Acids Research</i> , 2014, 42, 10425-10432.	14.5	35
23	Models that include supercoiling of topological domains reproduce several known features of interphase chromosomes. <i>Nucleic Acids Research</i> , 2014, 42, 2848-2855.	14.5	106
24	SBML qualitative models: a model representation format and infrastructure to foster interactions between qualitative modelling formalisms and tools. <i>BMC Systems Biology</i> , 2013, 7, 135.	3.0	145
25	Efficient computation of minimal perturbation sets in gene regulatory networks. <i>Frontiers in Physiology</i> , 2013, 4, 361.	2.8	12
26	Modelling of crowded polymers elucidate effects of double-strand breaks in topological domains of bacterial chromosomes. <i>Nucleic Acids Research</i> , 2013, 41, 6808-6815.	14.5	24
27	Structural Characterization of Torsional Destabilization in DNA. <i>Biophysical Journal</i> , 2011, 100, 176a.	0.5	0
28	Cooperative kinking at distant sites in mechanically stressed DNA. <i>Nucleic Acids Research</i> , 2011, 39, 9820-9832.	14.5	41
29	Role of Topological Exclusion in Formation and Organization of Chromosomal Territories. <i>Progress of Theoretical Physics Supplement</i> , 2011, 191, 46-54.	0.1	0
30	A Direct Observation of Highly Bent and Twisted DNA at the Single Molecule Level. <i>Biophysical Journal</i> , 2010, 98, 467a.	0.5	0
31	The role of transcription factories-mediated interchromosomal contacts in the organization of nuclear architecture. <i>Nucleic Acids Research</i> , 2010, 38, 7410-7421.	14.5	26
32	Topological origins of chromosomal territories. <i>Nucleic Acids Research</i> , 2009, 37, 6316-6322.	14.5	66
33	Magnetization plateaux in an extended Shastry-Sutherland model. <i>Journal of Physics: Conference Series</i> , 2009, 145, 012047.	0.4	2
34	Theory of Magnetization Plateaux in the Shastry-Sutherland Model. <i>Physical Review Letters</i> , 2008, 101, 250402.	7.8	66
35	Supersolid Phase Induced by Correlated Hopping in Spin- $\frac{1}{2}$ Frustrated Quantum Magnets. <i>Physical Review Letters</i> , 2008, 100, 090401.	7.8	55
36	Supersolid Phases of Hardcore Bosons on the Square Lattice: Correlated Hopping, Next-Nearest Neighbor Hopping and Frustration. <i>Progress of Theoretical Physics Supplement</i> , 2008, 176, 355-374.	0.1	8

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37	DNA supercoiling inhibits DNA knotting. Nucleic Acids Research, 2008, 36, 4956-4963.	14.5	43
38	Solids and Supersolids of Three-Body Interacting Polar Molecules on an Optical Lattice. Physical Review Letters, 2008, 101, 150405.	7.8	36
39	Single-particle versus pair condensation of hard-core bosons with correlated hopping. Physical Review B, 2006, 74, .	3.2	42
40	Quantum compass model on the square lattice. Physical Review B, 2005, 72, .	3.2	105