

Pablo D Dans

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

1,995
citations

20
h-index

44
g-index

47
ext. papers

2,534
ext. citations

10.4
avg, IF

4.67
L-index

#	Paper	IF	Citations
43	Parmbc1: a refined force field for DNA simulations. <i>Nature Methods</i> , 2016 , 13, 55-8	21.6	483
42	ABC: a systematic microsecond molecular dynamics study of tetranucleotide sequence effects in B-DNA. <i>Nucleic Acids Research</i> , 2014 , 42, 12272-83	20.1	138
41	Direct measurement of the dielectric polarization properties of DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3624-30	11.5	119
40	A Coarse Grained Model for Atomic-Detailed DNA Simulations with Explicit Electrostatics. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 1711-25	6.4	102
39	Another Coarse Grain Model for Aqueous Solvation: WAT FOUR?. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 3793-3807	6.4	90
38	Connecting proline and L-aminobutyric acid in stressed plants through non-enzymatic reactions. <i>PLoS ONE</i> , 2015 , 10, e0115349	3.7	88
37	Multiscale simulation of DNA. <i>Current Opinion in Structural Biology</i> , 2016 , 37, 29-45	8.1	85
36	The structural impact of DNA mismatches. <i>Nucleic Acids Research</i> , 2015 , 43, 4309-21	20.1	80
35	How accurate are accurate force-fields for B-DNA?. <i>Nucleic Acids Research</i> , 2017 , 45, 4217-4230	20.1	79
34	Exploring polymorphisms in B-DNA helical conformations. <i>Nucleic Acids Research</i> , 2012 , 40, 10668-78	20.1	68
33	Long-timescale dynamics of the Drew-Dickerson dodecamer. <i>Nucleic Acids Research</i> , 2016 , 44, 4052-66	20.1	68
32	Unraveling the sequence-dependent polymorphic behavior of d(CpG) steps in B-DNA. <i>Nucleic Acids Research</i> , 2014 , 42, 11304-20	20.1	63
31	Switching reversibility to irreversibility in glycogen synthase kinase 3 inhibitors: clues for specific design of new compounds. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 4042-56	8.3	60
30	Epigenetic loss of RNA-methyltransferase NSUN5 in glioma targets ribosomes to drive a stress adaptive translational program. <i>Acta Neuropathologica</i> , 2019 , 138, 1053-1074	14.3	55
29	Glyceraldehyde-3-phosphate dehydrogenase is a chaperone that allocates labile heme in cells. <i>Journal of Biological Chemistry</i> , 2018 , 293, 14557-14568	5.4	53
28	A hybrid all-atom/coarse grain model for multiscale simulations of DNA. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 18134-44	3.6	38
27	BIGNASim: a NoSQL database structure and analysis portal for nucleic acids simulation data. <i>Nucleic Acids Research</i> , 2016 , 44, D272-8	20.1	35

26	Saturation of recognition elements blocks evolution of new tRNA identities. <i>Science Advances</i> , 2016 , 2, e1501860	14.3	34
25	Breathing, bubbling, and bending: DNA flexibility from multimicrosecond simulations. <i>Physical Review E</i> , 2012 , 86, 021903	2.4	30
24	Modeling, Simulations, and Bioinformatics at the Service of RNA Structure. <i>CheM</i> , 2019 , 5, 51-73	16.2	20
23	The static and dynamic structural heterogeneities of B-DNA: extending Calladine-Dickerson rules. <i>Nucleic Acids Research</i> , 2019 , 47, 11090-11102	20.1	18
22	Subcellular localization of the interaction between the human immunodeficiency virus transactivator Tat and the nucleosome assembly protein 1. <i>Amino Acids</i> , 2010 , 38, 1583-93	3.5	17
21	Structural and Energetic Study of Cisplatin and Derivatives: Comparison of the Performance of Density Functional Theory Implementations. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 740-50 ^{6.4}	6.4	17
20	Small Details Matter: The 2'OH as a Conformational Switch in RNA. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16355-16363	16.4	16
19	The Role of Unconventional Hydrogen Bonds in Determining BII Propensities in B-DNA. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 21-28	6.4	15
18	How B-DNA Dynamics Decipher Sequence-Selective Protein Recognition. <i>Journal of Molecular Biology</i> , 2019 , 431, 3845-3859	6.5	15
17	Allosterism and signal transfer in DNA. <i>Nucleic Acids Research</i> , 2018 , 46, 7554-7565	20.1	15
16	Assessing the Accuracy of the SIRAH Force Field to Model DNA at Coarse Grain Level. <i>Lecture Notes in Computer Science</i> , 2013 , 71-81	0.9	13
15	Modulation of the helical properties of DNA: next-to-nearest neighbour effects and beyond. <i>Nucleic Acids Research</i> , 2019 , 47, 4418-4430	20.1	12
14	Antimicrobial and structural insights of a new snakin-like peptide isolated from <i>Peltophorum dubium</i> (Fabaceae). <i>Amino Acids</i> , 2018 , 50, 1245-1259	3.5	12
13	Density functional theory characterization and descriptive analysis of cisplatin and related compounds. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 1407-19	6.1	12
12	A multi-modal coarse grained model of DNA flexibility mappable to the atomistic level. <i>Nucleic Acids Research</i> , 2020 , 48, e29	20.1	10
11	An In-Depth Look at DNA Crystals through the Prism of Molecular Dynamics Simulations. <i>CheM</i> , 2019 , 5, 649-663	16.2	9
10	Isoform-specific determinants in the HP1 binding to histone 3: insights from molecular simulations. <i>Amino Acids</i> , 2010 , 38, 1571-81	3.5	8
9	Impact of DNA methylation on 3D genome structure. <i>Nature Communications</i> , 2021 , 12, 3243	17.4	8

8	Gene isolation and structural characterization of a legume tree defensin with a broad spectrum of antimicrobial activity. <i>Planta</i> , 2019 , 250, 1757-1772	4.7	4
7	VeriNA3d: an R package for nucleic acids data mining. <i>Bioinformatics</i> , 2019 , 35, 5334-5336	7.2	2
6	The Impact of the HydroxyMethylCytosine epigenetic signature on DNA structure and function. <i>PLoS Computational Biology</i> , 2021 , 17, e1009547	5	1
5	Sequence-dependent structural properties of B-DNA: what have we learned in 40 years?. <i>Biophysical Reviews</i> , 2021 , 13, 995-1005	3.7	1
4	An in-depth look at DNA crystals through the prism of molecular dynamics simulations		1
3	Molecular Determinants for Nitric Oxide Regulation of the Murine Cationic Amino Acid Transporter CAT-2A. <i>Biochemistry</i> , 2020 , 59, 4225-4237	3.2	1
2	Molecular basis of Arginine and Lysine DNA sequence-dependent thermo-stability modulation.. <i>PLoS Computational Biology</i> , 2022 , 18, e1009749	5	0
1	Antimicrobial peptides in the seedling transcriptome of the tree legume <i>Peltophorum dubium</i> . <i>Biochimie</i> , 2021 , 180, 229-242	4.6	0