Pablo D Dans

List of Publications by Year in Descending Order

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	Molecular basis of Arginine and Lysine DNA sequence-dependent thermo-stability modulation.. *PLoS Computational Biology*, **2022**, 18, e1009749	5	0
42	The Impact of the HydroxyMethylCytosine epigenetic signature on DNA structure and function. *PLoS Computational Biology*, **2021**, 17, e1009547	5	1
41	Sequence-dependent structural properties of B-DNA: what have we learned in 40 years?. *Biophysical Reviews*, **2021**, 13, 995-1005	3.7	1
40	Impact of DNA methylation on 3D genome structure. *Nature Communications*, **2021**, 12, 3243	17.4	8
39	Antimicrobial peptides in the seedling transcriptome of the tree legume Peltophorum dubium. *Biochimie*, **2021**, 180, 229-242	4.6	0
38	A multi-modal coarse grained model of DNA flexibility mappable to the atomistic level. *Nucleic Acids Research*, **2020**, 48, e29	20.1	10
37	Molecular Determinants for Nitric Oxide Regulation of the Murine Cationic Amino Acid Transporter CAT-2A. *Biochemistry*, **2020**, 59, 4225-4237	3.2	1
36	Modulation of the helical properties of DNA: next-to-nearest neighbour effects and beyond. *Nucleic Acids Research*, **2019**, 47, 4418-4430	20.1	12
35	Epigenetic loss of RNA-methyltransferase NSUN5 in glioma targets ribosomes to drive a stress adaptive translational program. *Acta Neuropathologica*, **2019**, 138, 1053-1074	14.3	55
34	Gene isolation and structural characterization of a legume tree defensin with a broad spectrum of antimicrobial activity. *Planta*, **2019**, 250, 1757-1772	4.7	4
33	How B-DNA Dynamics Decipher Sequence-Selective Protein Recognition. *Journal of Molecular Biology*, **2019**, 431, 3845-3859	6.5	15
32	VeriNA3d: an R package for nucleic acids data mining. *Bioinformatics*, **2019**, 35, 5334-5336	7.2	2
31	The static and dynamic structural heterogeneities of B-DNA: extending Calladine-Dickerson rules. *Nucleic Acids Research*, **2019**, 47, 11090-11102	20.1	18
30	An In-Depth Look at DNA Crystals through the Prism of Molecular Dynamics Simulations. *CheM*, **2019**, 5, 649-663	16.2	9
29	Modeling, Simulations, and Bioinformatics at the Service of RNA Structure. *CheM*, **2019**, 5, 51-73	16.2	20
28	Glyceraldehyde-3-phosphate dehydrogenase is a chaperone that allocates labile heme in cells. *Journal of Biological Chemistry*, **2018**, 293, 14557-14568	5.4	53
27	Antimicrobial and structural insights of a new snakin-like peptide isolated from Peltophorum dubium (Fabaceae). *Amino Acids*, **2018**, 50, 1245-1259	3.5	12

26	Allosterism and signal transfer in DNA. *Nucleic Acids Research*, **2018**, 46, 7554-7565	20.1	15
25	How accurate are accurate force-fields for B-DNA?. *Nucleic Acids Research*, **2017**, 45, 4217-4230	20.1	79
24	The Role of Unconventional Hydrogen Bonds in Determining BII Propensities in B-DNA. *Journal of Physical Chemistry Letters*, **2017**, 8, 21-28	6.4	15
23	Small Details Matter: The 2′-Hydroxyl as a Conformational Switch in RNA. *Journal of the American Chemical Society*, **2016**, 138, 16355-16363	16.4	16
22	Parmbsc1: a refined force field for DNA simulations. *Nature Methods*, **2016**, 13, 55-8	21.6	483
21	Multiscale simulation of DNA. *Current Opinion in Structural Biology*, **2016**, 37, 29-45	8.1	85
20	BIGNASim: a NoSQL database structure and analysis portal for nucleic acids simulation data. *Nucleic Acids Research*, **2016**, 44, D272-8	20.1	35
19	Saturation of recognition elements blocks evolution of new tRNA identities. *Science Advances*, **2016**, 2, e1501860	14.3	34
18	Long-timescale dynamics of the Drew-Dickerson dodecamer. *Nucleic Acids Research*, **2016**, 44, 4052-66	20.1	68
17	The structural impact of DNA mismatches. *Nucleic Acids Research*, **2015**, 43, 4309-21	20.1	80
16	Connecting proline and γ-aminobutyric acid in stressed plants through non-enzymatic reactions. *PLoS ONE*, **2015**, 10, e0115349	3.7	88
15	Direct measurement of the dielectric polarization properties of DNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3624-30	11.5	119
14	ABC: a systematic microsecond molecular dynamics study of tetranucleotide sequence effects in B-DNA. *Nucleic Acids Research*, **2014**, 42, 12272-83	20.1	138
13	Unraveling the sequence-dependent polymorphic behavior of d(CpG) steps in B-DNA. *Nucleic Acids Research*, **2014**, 42, 11304-20	20.1	63
12	Assessing the Accuracy of the SIRAH Force Field to Model DNA at Coarse Grain Level. *Lecture Notes in Computer Science*, **2013**, 71-81	0.9	13
11	Exploring polymorphisms in B-DNA helical conformations. *Nucleic Acids Research*, **2012**, 40, 10668-78	20.1	68
10	Breathing, bubbling, and bending: DNA flexibility from multimicrosecond simulations. *Physical Review E*, **2012**, 86, 021903	2.4	30
9	A hybrid all-atom/coarse grain model for multiscale simulations of DNA. *Physical Chemistry Chemical Physics*, **2011**, 13, 18134-44	3.6	38

8	Switching reversibility to irreversibility in glycogen synthase kinase 3 inhibitors: clues for specific design of new compounds. *Journal of Medicinal Chemistry*, **2011**, 54, 4042-56	8.3	60
7	Another Coarse Grain Model for Aqueous Solvation: WAT FOUR?. *Journal of Chemical Theory and Computation*, **2010**, 6, 3793-3807	6.4	90
6	A Coarse Grained Model for Atomic-Detailed DNA Simulations with Explicit Electrostatics. *Journal of Chemical Theory and Computation*, **2010**, 6, 1711-25	6.4	102
5	Isoform-specific determinants in the HP1 binding to histone 3: insights from molecular simulations. *Amino Acids*, **2010**, 38, 1571-81	3.5	8
4	Subcellular localization of the interaction between the human immunodeficiency virus transactivator Tat and the nucleosome assembly protein 1. *Amino Acids*, **2010**, 38, 1583-93	3.5	17
3	Density functional theory characterization and descriptive analysis of cisplatin and related compounds. *Journal of Chemical Information and Modeling*, **2009**, 49, 1407-19	6.1	12
2	Structural and Energetic Study of Cisplatin and Derivatives: Comparison of the Performance of Density Funtional Theory Implementations. *Journal of Chemical Theory and Computation*, **2008**, 4, 740-50	6.4	17
1	An in-depth look at DNA crystals through the prism of molecular dynamics simulations		1