Agnes Noy

List of Publications by Year
in descending order

30 papers	1,982 citations	516215 16 h-index	500791 28 g-index
39 all docs	39 docs citations	39 times ranked	2196 citing authors

#	Article	IF	Citations
1	Parmbsc1: a refined force field for DNA simulations. Nature Methods, 2016, 13, 55-58.	9.0	790
2	Theoretical methods for the simulation of nucleic acids. Chemical Society Reviews, 2003, 32, 350-364.	18.7	150
3	The relative flexibility of B-DNA and A-RNA duplexes: database analysis. Nucleic Acids Research, 2004, 32, 6144-6151.	6.5	119
4	Recent advances in the study of nucleic acid flexibility by molecular dynamics. Current Opinion in Structural Biology, 2008, 18, 185-193.	2.6	113
5	Relative Flexibility of DNA and RNA: a Molecular Dynamics Study. Journal of Molecular Biology, 2004, 343, 627-638.	2.0	94
6	Length Scale Dependence of DNA Mechanical Properties. Physical Review Letters, 2012, 109, 228101.	2.9	88
7	Base-pair resolution analysis of the effect of supercoiling on DNA flexibility and major groove recognition by triplex-forming oligonucleotides. Nature Communications, 2021, 12, 1053.	5.8	73
8	Theoretical study of large conformational transitions in DNA: the Bâ†"A conformational change in water and ethanol/water. Nucleic Acids Research, 2007, 35, 3330-3338.	6.5	71
9	Structure, Recognition Properties, and Flexibility of the DNAÂ·RNA Hybrid. Journal of the American Chemical Society, 2005, 127, 4910-4920.	6.6	64
10	The impact of monovalent ion force field model in nucleic acids simulations. Physical Chemistry Chemical Physics, 2009, 11, 10596.	1.3	62
11	Long-range correlations in the mechanics of small DNA circles under topological stress revealed by multi-scale simulation. Nucleic Acids Research, 2016, 44, gkw815.	6.5	54
12	Protein/DNA interactions in complex DNA topologies: expect the unexpected. Biophysical Reviews, 2016, 8, 233-243.	1.5	37
13	Theoretical Analysis of Antisense Duplexes:â€‰ Determinants of the RNase H Susceptibility. Journal of the American Chemical Society, 2008, 130, 3486-3496.	6.6	30
14	SerraNA: a program to determine nucleic acids elasticity from simulation data. Physical Chemistry Chemical Physics, 2020, 22, 19254-19266.	1.3	26
15	Small DNA circles as probes of DNA topology. Biochemical Society Transactions, 2013, 41, 565-570.	1.6	25
16	Rolling circle RNA synthesis catalyzed by RNA. ELife, 2022, 11, .	2.8	25
17	Comparison of Molecular Contours for Measuring Writhe in Atomistic Supercoiled DNA. Journal of Chemical Theory and Computation, 2015, 11, 2768-2775.	2.3	22
18	Diversification of DNA-Binding Specificity by Permissive and Specificity-Switching Mutations in the ParB/Noc Protein Family. Cell Reports, 2020, 32, 107928.	2.9	21

#	Article	IF	Citations
19	The emergence of sequence-dependent structural motifs in stretched, torsionally constrained DNA. Nucleic Acids Research, 2020, 48, 1748-1763.	6.5	21
20	The Chirality of DNA: Elasticity Cross-Terms at Base-Pair Level Including A-Tracts and the Influence of Ionic Strength. Journal of Physical Chemistry B, 2010, 114, 8022-8031.	1.2	18
21	Integration host factor bends and bridges DNA in a multiplicity of binding modes with varying specificity. Nucleic Acids Research, 2021, 49, 8684-8698.	6.5	18
22	Sequence-dependent structural properties of B-DNA: what have we learned in 40Âyears?. Biophysical Reviews, 2021, 13, 995-1005.	1.5	13
23	Data Mining of Molecular Dynamics Trajectories of Nucleic Acids. Journal of Biomolecular Structure and Dynamics, 2006, 23, 447-455.	2.0	12
24	Interference between Triplex and Protein Binding to Distal Sites on Supercoiled DNA. Biophysical Journal, 2017, 112, 523-531.	0.2	10
25	Protein/DNA interactions in complex DNA topologies: expect the unexpected. Biophysical Reviews, 2016, 8, 145-155.	1.5	9
26	Elucidating the Role of Topological Constraint on the Structure of Overstretched DNA Using Fluorescence Polarization Microscopy. Journal of Physical Chemistry B, 2021, 125, 8351-8361.	1.2	4
27	Atomistic Molecular Dynamics Simulations of DNA Minicircle Topoisomers: A Practical Guide to Setup, Performance, and Analysis. Methods in Molecular Biology, 2016, 1431, 195-219.	0.4	3
28	Noy and Golestanian Reply:. Physical Review Letters, 2013, 111, 179802.	2.9	2
29	Theoretical Methods for the Simulation of Nucleic Acids. ChemInform, 2004, 35, no.	0.1	0
30	Exploring the structural dynamics of DNA using fluorescence polarization microscopy and optical tweezers. Biophysical Journal, 2022, 121, 277a-278a.	0.2	0