

Farshid Mohammad-Rafiee

List of Publications by Year in descending order

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23
papers

253
citations

932766

10
h-index

996533

15
g-index

23
all docs

23
docs citations

23
times ranked

265
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Effective Charge of Hydrophobic Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3743-3749.	1.2	36
2	Theory of Nucleosome Corkscrew Sliding in the Presence of Synthetic DNA Ligands. <i>Journal of Molecular Biology</i> , 2004, 344, 47-58.	2.0	35
3	Elastic Correlations in Nucleosomal DNA Structure. <i>Physical Review Letters</i> , 2005, 94, 238102.	2.9	25
4	Effect of Bending Anisotropy on the 3D Conformation of Short DNA Loops. <i>Physical Review Letters</i> , 2008, 101, 168103.	2.9	21
5	Nucleosome Dynamics between Tension-Induced States. <i>Biophysical Journal</i> , 2012, 102, 2235-2240.	0.2	18
6	Electrostatic contribution to twist rigidity of DNA. <i>Physical Review E</i> , 2004, 69, 061919.	0.8	14
7	Stochastic model for nucleosome sliding under an external force. <i>Physical Review E</i> , 2009, 79, 031922.	0.8	12
8	Distribution of counterions and interaction between two similarly charged dielectric slabs: Roles of charge discreteness and dielectric inhomogeneity. <i>Physical Review E</i> , 2012, 85, 061925.	0.8	12
9	Active Nucleosome Displacement: A Theoretical Approach. <i>Biophysical Journal</i> , 2009, 96, 4387-4398.	0.2	11
10	The effect of anisotropic bending elasticity on the structure of bent DNA. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S1165-S1170.	0.7	10
11	Geometrical correlations in the nucleosomal DNA conformation and the role of the covalent bonds rigidity. <i>Nucleic Acids Research</i> , 2011, 39, 1220-1230.	6.5	9
12	Wrapping of a nanowire by a supported lipid membrane. <i>Soft Matter</i> , 2019, 15, 7490-7500.	1.2	9
13	Regulation of the membrane wrapping transition of a cylindrical target by cytoskeleton adhesion. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140769.	1.5	8
14	DNA conformation and energy in nucleosome core: a theoretical approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 104-114.	2.0	7
15	Modelling of <i>Dictyostelium discoideum</i> movement in a linear gradient of chemoattractant. <i>Soft Matter</i> , 2017, 13, 8209-8222.	1.2	6
16	Nonlinear mechanical response of DNA due to anisotropic bending elasticity. <i>European Physical Journal E</i> , 2003, 12, 599-604.	0.7	4
17	Twist-stretch correlation of DNA. <i>Physical Review E</i> , 2008, 78, 060901.	0.8	4
18	Influence of cross-linking and retrograde flow on formation and dynamics of lamellipodium. <i>PLoS ONE</i> , 2019, 14, e0213810.	1.1	4

#	ARTICLE	IF	CITATIONS
19	Elastic model for dinucleosome structure and energy. <i>Physical Review E</i> , 2016, 93, 042409.	0.8	2
20	Insight into the unwrapping of the dinucleosome. <i>Soft Matter</i> , 2020, 16, 4806-4813.	1.2	2
21	The characteristics of nuclear membrane fluctuations in stem cells. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20201010.	1.5	2
22	Modeling of ribosome dynamics on a ds-mRNA under an external load. <i>Journal of Chemical Physics</i> , 2016, 145, 025101.	1.2	1
23	Effects of dielectric inhomogeneity on electrostatic twist rigidity of a helical biomolecule in Debye-Hückel regime. <i>Journal of Chemical Physics</i> , 2018, 148, 135101.	1.2	1