

Jaeoh Shin

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

533
citations

840776

11
h-index

642732

23
g-index

27
all docs

27
docs citations

27
times ranked

481
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of polymer looping with macromolecular crowding: effects of volume fraction and crowder size. <i>Soft Matter</i> , 2015, 11, 472-488.	2.7	85
2	Facilitation of polymer looping and giant polymer diffusivity in crowded solutions of active particles. <i>New Journal of Physics</i> , 2015, 17, 113008.	2.9	77
3	Polymer Looping Is Controlled by Macromolecular Crowding, Spatial Confinement, and Chain Stiffness. <i>ACS Macro Letters</i> , 2015, 4, 202-206.	4.8	66
4	Mixing and segregation of ring polymers: spatial confinement and molecular crowding effects. <i>New Journal of Physics</i> , 2014, 16, 053047.	2.9	60
5	Polymer translocation under time-dependent driving forces: Resonant activation induced by attractive polymer-pore interactions. <i>Journal of Chemical Physics</i> , 2012, 136, 205104.	3.0	41
6	Elasticity-based polymer sorting in active fluids: a Brownian dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18338-18347.	2.8	29
7	Sensing Viruses by Mechanical Tension of DNA in Responsive Hydrogels. <i>Physical Review X</i> , 2014, 4, .	8.9	21
8	Self-subdiffusion in solutions of star-shaped crowders: non-monotonic effects of inter-particle interactions. <i>New Journal of Physics</i> , 2015, 17, 113028.	2.9	18
9	Molecular search with conformational change: One-dimensional discrete-state stochastic model. <i>Journal of Chemical Physics</i> , 2018, 149, 174104.	3.0	15
10	How a short double-stranded DNA bends. <i>Journal of Chemical Physics</i> , 2015, 142, 155101.	3.0	13
11	Nucleosomal arrangement affects single-molecule transcription dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12733-12738.	7.1	13
12	Target search on DNA by interacting molecules: First-passage approach. <i>Journal of Chemical Physics</i> , 2019, 151, 125101.	3.0	10
13	Surface-Assisted Dynamic Search Processes. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2243-2250.	2.6	9
14	DNA Looping and DNA Conformational Fluctuations Can Accelerate Protein Target Search. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1727-1734.	2.6	9
15	Biased Random Walk in Crowded Environment: Breaking Uphill/Downhill Symmetry of Transition Times. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4530-4535.	4.6	9
16	Non-Gaussian, transiently anomalous, and ergodic self-diffusion of flexible dumbbells in crowded two-dimensional environments: Coupled translational and rotational motions. <i>Physical Review E</i> , 2021, 104, 064603.	2.1	9
17	How Pioneer Transcription Factors Search for Target Sites on Nucleosomal DNA. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4061-4068.	2.6	8
18	Polymer escape from a metastable Kramers potential: Path integral hyperdynamics study. <i>Journal of Chemical Physics</i> , 2010, 133, 184902.	3.0	7

#	ARTICLE	IF	CITATIONS
19	Effects of static and temporally fluctuating tensions on semiflexible polymer looping. <i>Journal of Chemical Physics</i> , 2012, 136, 045101.	3.0	7
20	The effect of obstacles in multi-site protein target search with DNA looping. <i>Journal of Chemical Physics</i> , 2020, 152, 025101.	3.0	7
21	Facilitation of DNA loop formation by protein-DNA non-specific interactions. <i>Soft Matter</i> , 2019, 15, 5255-5263.	2.7	6
22	Asymmetry of forward/backward transition times as a non-equilibrium measure of complexity of microscopic mechanisms. <i>Journal of Chemical Physics</i> , 2020, 153, 124103.	3.0	5
23	Exactly solvable dynamics of forced polymer loops. <i>New Journal of Physics</i> , 2018, 20, 113005.	2.9	4
24	Crowding breaks the forward/backward symmetry of transition times in biased random walks. <i>Journal of Chemical Physics</i> , 2021, 154, 204104.	3.0	2
25	Thermal fluctuations assist mechanical signal propagation in coiled-coil proteins. <i>Physical Review E</i> , 2021, 104, 054403.	2.1	0