Jaeoh Shin

List of Publications by Year in descending order

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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	How Pioneer Transcription Factors Search for Target Sites on Nucleosomal DNA. Journal of Physical Chemistry B, 2022, 126, 4061-4068.	2.6	8
2	DNA Looping and DNA Conformational Fluctuations Can Accelerate Protein Target Search. Journal of Physical Chemistry B, 2021, 125, 1727-1734.	2.6	9
3	Crowding breaks the forward/backward symmetry of transition times in biased random walks. Journal of Chemical Physics, 2021, 154, 204104.	3.0	2
4	Thermal fluctuations assist mechanical signal propagation in coiled-coil proteins. Physical Review E, 2021, 104, 054403.	2.1	0
5	Non-Gaussian, transiently anomalous, and ergodic self-diffusion of flexible dumbbells in crowded two-dimensional environments: Coupled translational and rotational motions. Physical Review E, 2021, 104, 064603.	2.1	9
6	Asymmetry of forward/backward transition times as a non-equilibrium measure of complexity of microscopic mechanisms. Journal of Chemical Physics, 2020, 153, 124103.	3.0	5
7	The effect of obstacles in multi-site protein target search with DNA looping. Journal of Chemical Physics, 2020, 152, 025101.	3.0	7
8	Biased Random Walk in Crowded Environment: Breaking Uphill/Downhill Symmetry of Transition Times. Journal of Physical Chemistry Letters, 2020, 11, 4530-4535.	4.6	9
9	Target search on DNA by interacting molecules: First-passage approach. Journal of Chemical Physics, 2019, 151, 125101.	3.0	10
10	Facilitation of DNA loop formation by proteinâ€“DNA non-specific interactions. Soft Matter, 2019, 15, 5255-5263.	2.7	6
11	Surface-Assisted Dynamic Search Processes. Journal of Physical Chemistry B, 2018, 122, 2243-2250.	2.6	9
12	Molecular search with conformational change: One-dimensional discrete-state stochastic model. Journal of Chemical Physics, 2018, 149, 174104.	3.0	15
13	Exactly solvable dynamics of forced polymer loops. New Journal of Physics, 2018, 20, 113005.	2.9	4
14	Elasticity-based polymer sorting in active fluids: a Brownian dynamics study. Physical Chemistry Chemical Physics, 2017, 19, 18338-18347.	2.8	29
15	Nucleosomal arrangement affects single-molecule transcription dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12733-12738.	7.1	13
16	Facilitation of polymer looping and giant polymer diffusivity in crowded solutions of active particles. New Journal of Physics, 2015, 17, 113008.	2.9	77
17	Self-subdiffusion in solutions of star-shaped crowders: non-monotonic effects of inter-particle interactions. New Journal of Physics, 2015, 17, 113028.	2.9	18
18	Polymer Looping Is Controlled by Macromolecular Crowding, Spatial Confinement, and Chain Stiffness. ACS Macro Letters, 2015, 4, 202-206.	4.8	66

#	Article	IF	Citations
19	How a short double-stranded DNA bends. Journal of Chemical Physics, 2015, 142, 155101.	3.0	13
20	Kinetics of polymer looping with macromolecular crowding: effects of volume fraction and crowder size. Soft Matter, 2015, 11, 472-488.	2.7	85
21	Sensing Viruses by Mechanical Tension of DNA in Responsive Hydrogels. Physical Review X, 2014, 4, .	8.9	21
22	Mixing and segregation of ring polymers: spatial confinement and molecular crowding effects. New Journal of Physics, 2014, 16, 053047.	2.9	60
23	Polymer translocation under time-dependent driving forces: Resonant activation induced by attractive polymer-pore interactions. Journal of Chemical Physics, 2012, 136, 205104.	3.0	41
24	Effects of static and temporally fluctuating tensions on semiflexible polymer looping. Journal of Chemical Physics, 2012, 136, 045101.	3.0	7
25	Polymer escape from a metastable Kramers potential: Path integral hyperdynamics study. Journal of Chemical Physics, 2010, 133, 184902.	3.0	7