

Jan Smrek

List of Publications by Year in descending order

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papers

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484
citing authors

#	ARTICLE	IF	CITATIONS
1	Active Topological Glass Confined within a Spherical Cavity. <i>Macromolecules</i> , 2022, 55, 956-964.	4.8	8
2	Topological and threading effects in polydisperse ring polymer solutions. <i>Molecular Physics</i> , 2021, 119, .	1.7	6
3	Topological tuning of DNA mobility in entangled solutions of supercoiled plasmids. <i>Science Advances</i> , 2021, 7, .	10.3	18
4	Nanorheology of active-passive polymer mixtures differentiates between linear and ring polymer topology. <i>Soft Matter</i> , 2021, 17, 7111-7117.	2.7	0
5	Melts of nonconcatenated rings in spherical confinement. <i>Journal of Chemical Physics</i> , 2020, 153, 064903.	3.0	9
6	Threading-Induced Dynamical Transition in Tadpole-Shaped Polymers. <i>ACS Macro Letters</i> , 2020, 9, 743-748.	4.8	29
7	Active topological glass. <i>Nature Communications</i> , 2020, 11, 26.	12.8	62
8	Emergence of active topological glass through directed chain dynamics and nonequilibrium phase segregation. <i>Physical Review Research</i> , 2020, 2, .	3.6	19
9	Threading of Unconcatenated Ring Polymers at High Concentrations: Double-Folded vs Time-Equilibrated Structures. <i>ACS Macro Letters</i> , 2019, 8, 155-160.	4.8	58
10	Interfacial Properties of Active-Passive Polymer Mixtures. <i>Entropy</i> , 2018, 20, 520.	2.2	20
11	Small Activity Differences Drive Phase Separation in Active-Passive Polymer Mixtures. <i>Physical Review Letters</i> , 2017, 118, 098002.	7.8	87
12	Minimal Surfaces on Unconcatenated Polymer Rings in Melt. <i>ACS Macro Letters</i> , 2016, 5, 750-754.	4.8	63
13	Facilitated diffusion of proteins through crumpled fractal DNA globules. <i>Physical Review E</i> , 2015, 92, 012702.	2.1	7
14	Understanding the dynamics of rings in the melt in terms of the annealed tree model. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 064117.	1.8	52
15	On enumeration of Hilbert-like curves. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 195001.	2.1	1
16	From a melt of rings to chromosome territories: the role of topological constraints in genome folding. <i>Reports on Progress in Physics</i> , 2014, 77, 022601.	20.1	246
17	A novel family of space-filling curves in their relation to chromosome conformation in eukaryotes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 6375-6388.	2.6	20