

# Jan Smrek

## List of Publications by Year in descending order

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citing authors

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