

Thomas C. O'Connor

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Composite entanglement topology and extensional rheology of symmetric ring-linear polymer blends. <i>Journal of Rheology</i> , 2022, 66, 49-65.	1.3	20
2	Nonlinear Elongation Flows in Associating Polymer Melts: From Homogeneous to Heterogeneous Flow. <i>Physical Review X</i> , 2022, 12, .	2.8	7
3	Superstretchable Elastomer from Cross-linked Ring Polymers. <i>Physical Review Letters</i> , 2022, 128, .	2.9	13
4	Diffusion of Thin Nanorods in Polymer Melts. <i>Macromolecules</i> , 2021, 54, 7051-7059.	2.2	20
5	Threadingâ€“Unthreading Transition of Linear-Ring Polymer Blends in Extensional Flow. <i>ACS Macro Letters</i> , 2020, 9, 1452-1457.	2.3	36
6	Molecular models for creep in oriented polyethylene fibers. <i>Journal of Chemical Physics</i> , 2020, 153, 144904.	1.2	5
7	Topological Linking Drives Anomalous Thickening of Ring Polymers in Weak Extensional Flows. <i>Physical Review Letters</i> , 2020, 124, 027801.	2.9	53
8	Stress Relaxation in Highly Oriented Melts of Entangled Polymers. <i>Macromolecules</i> , 2019, 52, 8540-8550.	2.2	37
9	Oâ€™Connor, Alvarez, and Robbins Reply:. <i>Physical Review Letters</i> , 2019, 122, 059804.	2.9	1
10	The Bending Mechanics of Aged Paper. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	1.1	6
11	Micromechanical models for the stiffness and strength of UHMWPE microfibrils. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 116, 70-98.	2.3	17
12	Relating Chain Conformations to Extensional Stress in Entangled Polymer Melts. <i>Physical Review Letters</i> , 2018, 121, 047801.	2.9	55
13	Molecular origins of anisotropic shock propagation in crystalline and amorphous polyethylene. <i>Physical Review Materials</i> , 2018, 2, .	0.9	18
14	Shock-wave propagation and reflection in semicrystalline polyethylene: A molecular-level investigation. <i>Physical Review Materials</i> , 2017, 1, .	0.9	15
15	Chain Ends and the Ultimate Strength of Polyethylene Fibers. <i>ACS Macro Letters</i> , 2016, 5, 263-267.	2.3	37
16	AIREBO-M: A reactive model for hydrocarbons at extreme pressures. <i>Journal of Chemical Physics</i> , 2015, 142, 024903.	1.2	159
17	A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. <i>Nanoscale</i> , 2013, 5, 10212.	2.8	12