

Marat Andreev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Phase Behavior and Salt Partitioning in Polyelectrolyte Complex Coacervates. <i>Macromolecules</i> , 2018, 51, 2988-2995.	4.8	241
2	Gel phase formation in dilute triblock copolyelectrolyte complexes. <i>Nature Communications</i> , 2017, 8, 14131.	12.8	92
3	Influence of Ion Solvation on the Properties of Electrolyte Solutions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4029-4034.	2.6	88
4	Entangled Polymer Dynamics in Equilibrium and Flow Modeled Through Slip Links. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2014, 5, 367-381.	6.8	58
5	Approximations of the discrete slip-link model and their effect on nonlinear rheology predictions. <i>Journal of Rheology</i> , 2013, 57, 535-557.	2.6	53
6	Coarse-Grained Model of the Dynamics of Electrolyte Solutions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8195-8202.	2.6	49
7	Complex Coacervation in Polyelectrolytes from a Coarse-Grained Model. <i>Macromolecules</i> , 2018, 51, 6717-6723.	4.8	44
8	A multichain polymer slip-spring model with fluctuating number of entanglements for linear and nonlinear rheology. <i>Journal of Chemical Physics</i> , 2015, 143, 243147.	3.0	42
9	A multi-chain polymer slip-spring model with fluctuating number of entanglements: Density fluctuations, confinement, and phase separation. <i>Journal of Chemical Physics</i> , 2017, 146, 014903.	3.0	34
10	Dielectric Relaxation as an Independent Examination of Relaxation Mechanisms in Entangled Polymers Using the Discrete Slip-Link Model. <i>Macromolecules</i> , 2012, 45, 5728-5743.	4.8	32
11	Universality and speedup in equilibrium and nonlinear rheology predictions of the fixed slip-link model. <i>Journal of Rheology</i> , 2014, 58, 723-736.	2.6	29
12	A Detailed Examination of the Topological Constraints of Lamellae-Forming Block Copolymers. <i>Macromolecules</i> , 2018, 51, 2110-2124.	4.8	19
13	Accessible and Quantitative Entangled Polymer Rheology Predictions, Suitable for Complex Flow Calculations. <i>Macromolecules</i> , 2015, 48, 1606-1613.	4.8	18
14	Polymer rheology predictions from first principles using the slip-link model. <i>Journal of Rheology</i> , 2020, 64, 1035-1043.	2.6	17
15	Analytic slip-link expressions for universal dynamic modulus predictions of linear monodisperse polymer melts. <i>Rheologica Acta</i> , 2015, 54, 169-183.	2.4	16
16	Smoothed particle hydrodynamics simulation of viscoelastic flows with the slip-link model. <i>Molecular Systems Design and Engineering</i> , 2016, 1, 99-108.	3.4	16
17	Measuring Flow-Induced Crystallization Kinetics of Polyethylene after Processing. <i>Macromolecules</i> , 2021, 54, 2101-2112.	4.8	14
18	A slip-link model for rheology of entangled polymer melts with crystallization. <i>Journal of Rheology</i> , 2020, 64, 213-222.	2.6	12

#	ARTICLE	IF	CITATIONS
19	Rheology of crystallizing LLDPE. <i>Journal of Rheology</i> , 2020, 64, 1379-1389.	2.6	7
20	Thermodynamically consistent incorporation of entanglement spatial fluctuations in the slip-link model. <i>Physical Review E</i> , 2021, 103, 022501.	2.1	4
21	Spectroscopic analysis in molecular simulations with discretized Wiener-Khinchin theorem for Fourier-Laplace transformation. <i>Physical Review E</i> , 2020, 102, 063302.	2.1	2