

Aikaterini Foteinopoulou

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Topological analysis of polymeric melts: Chain-length effects and fast-converging estimators for entanglement length. <i>Physical Review E</i> , 2009, 80, 031803.	0.8	260
2	Primitive Path Identification and Entanglement Statistics in Polymer Melts: Results from Direct Topological Analysis on Atomistic Polyethylene Models. <i>Macromolecules</i> , 2006, 39, 4207-4216.	2.2	146
3	Structure, Dimensions, and Entanglement Statistics of Long Linear Polyethylene Chains. <i>Journal of Physical Chemistry B</i> , 2009, 113, 442-455.	1.2	60
4	Entropy-Driven Crystallization in Dense Systems of Athermal Chain Molecules. <i>Physical Review Letters</i> , 2009, 103, 045703.	2.9	53
5	Universal Scaling, Entanglements, and Knots of Model Chain Molecules. <i>Physical Review Letters</i> , 2008, 101, 265702.	2.9	49
6	The structure of random packings of freely jointed chains of tangent hard spheres. <i>Journal of Chemical Physics</i> , 2009, 130, 164908.	1.2	49
7	Random packing of model polymers: local structure, topological hindrance and universal scaling. <i>Soft Matter</i> , 2009, 5, 1762.	1.2	45
8	Modeling of crystal nucleation and growth in athermal polymers: self-assembly of layered nano-morphologies. <i>Soft Matter</i> , 2010, 6, 2160.	1.2	39
9	The characteristic crystallographic element norm: A descriptor of local structure in atomistic and particulate systems. <i>Journal of Chemical Physics</i> , 2009, 130, 074704.	1.2	38
10	Contact network in nearly jammed disordered packings of hard-sphere chains. <i>Physical Review E</i> , 2009, 80, 011307.	0.8	32
11	Numerical simulation of bubble growth in Newtonian and viscoelastic filaments undergoing stretching. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004, 122, 177-200.	1.0	26
12	Spontaneous Crystallization in Athermal Polymer Packings. <i>International Journal of Molecular Sciences</i> , 2013, 14, 332-358.	1.8	26
13	Numerical simulation of bubble dynamics in a Phan-Thien-Tanner liquid: Non-linear shape and size oscillatory response under periodic pressure. <i>Ultrasonics</i> , 2010, 50, 758-776.	2.1	22
14	The role of bond tangency and bond gap in hard sphere crystallization of chains. <i>Soft Matter</i> , 2015, 11, 1688-1700.	1.2	22
15	Numerical simulation of multiple bubbles growing in a Newtonian liquid filament undergoing stretching. <i>Physics of Fluids</i> , 2006, 18, 042106.	1.6	16
16	Computer simulations of amorphous polymers: From quantum mechanical calculations to mesoscopic models. <i>Computational and Theoretical Chemistry</i> , 2009, 898, 62-72.	1.5	13
17	Jamming and crystallization in athermal polymer packings. <i>Philosophical Magazine</i> , 2013, 93, 4108-4131.	0.7	13
18	Monte Carlo simulations of densely-packed athermal polymers in the bulk and under confinement. <i>Chemical Engineering Science</i> , 2015, 121, 118-132.	1.9	13

#	ARTICLE	IF	CITATIONS
19	Crystal, Fivefold and Glass Formation in Clusters of Polymers Interacting with the Square Well Potential. <i>Polymers</i> , 2020, 12, 1111.	2.0	13
20	Twinning of Polymer Crystals Suppressed by Entropy. <i>Symmetry</i> , 2014, 6, 758-780.	1.1	10
21	Entropy-Driven Heterogeneous Crystallization of Hard-Sphere Chains under Unidimensional Confinement. <i>Polymers</i> , 2021, 13, 1352.	2.0	10
22	Identification of Local Structure in 2-D and 3-D Atomic Systems through Crystallographic Analysis. <i>Crystals</i> , 2020, 10, 1008.	1.0	8
23	Simu-D: A Simulator-Descriptor Suite for Polymer-Based Systems under Extreme Conditions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12464.	1.8	7
24	Modeling the Effect of Cell-Associated Polymeric Fluid Layers on Force Spectroscopy Measurements. Part II: Experimental Results and Comparison with Model Predictions. <i>Langmuir</i> , 2008, 24, 9588-9597.	1.6	5
25	Modeling the Effect of Cell-Associated Polymeric Fluid Layers on Force Spectroscopy Measurements. Part I: Model Development. <i>Langmuir</i> , 2008, 24, 9575-9587.	1.6	3
26	Molecule-based Micro-Macro Methods for Complex Fluids. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
27	Effect of Bond Tangency/Gap on the Crystallization of Athermal Polymer Packings. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	0