Aikaterini Foteinopoulou

List of Publications by Year
in descending order

27	978	643344 15	651938 25
papers	citations	h-index	g-index

27	27	27	714
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Entropy-Driven Heterogeneous Crystallization of Hard-Sphere Chains under Unidimensional Confinement. Polymers, 2021, 13, 1352.	2.0	10
2	Simu-D: A Simulator-Descriptor Suite for Polymer-Based Systems under Extreme Conditions. International Journal of Molecular Sciences, 2021, 22, 12464.	1.8	7
3	Identification of Local Structure in 2-D and 3-D Atomic Systems through Crystallographic Analysis. Crystals, 2020, 10, 1008.	1.0	8
4	Crystal, Fivefold and Glass Formation in Clusters of Polymers Interacting with the Square Well Potential. Polymers, 2020, 12, 1111.	2.0	13
5	Effect of Bond Tangency/Gap on the Crystallization of Athermal Polymer Packings. Proceedings (mdpi), 2018, 2, .	0.2	0
6	The role of bond tangency and bond gap in hard sphere crystallization of chains. Soft Matter, 2015, 11, 1688-1700.	1.2	22
7	Monte Carlo simulations of densely-packed athermal polymers in the bulk and under confinement. Chemical Engineering Science, 2015, 121, 118-132.	1.9	13
8	Twinning of Polymer Crystals Suppressed by Entropy. Symmetry, 2014, 6, 758-780.	1.1	10
9	Jamming and crystallization in athermal polymer packings. Philosophical Magazine, 2013, 93, 4108-4131.	0.7	13
10	Spontaneous Crystallization in Athermal Polymer Packings. International Journal of Molecular Sciences, 2013, 14, 332-358.	1.8	26
11	Numerical simulation of bubble dynamics in a Phan-Thienâ€“Tanner liquid: Non-linear shape and size oscillatory response under periodic pressure. Ultrasonics, 2010, 50, 758-776.	2.1	22
12	Modeling of crystal nucleation and growth in athermal polymers: self-assembly of layered nano-morphologies. Soft Matter, 2010, 6, 2160.	1.2	39
13	Entropy-Driven Crystallization in Dense Systems of Athermal Chain Molecules. Physical Review Letters, 2009, 103, 045703.	2.9	53
14	The characteristic crystallographic element norm: A descriptor of local structure in atomistic and particulate systems. Journal of Chemical Physics, 2009, 130, 074704.	1.2	38
15	Computer simulations of amorphous polymers: From quantum mechanical calculations to mesoscopic models. Computational and Theoretical Chemistry, 2009, 898, 62-72.	1.5	13
16	Structure, Dimensions, and Entanglement Statistics of Long Linear Polyethylene Chains. Journal of Physical Chemistry B, 2009, 113, 442-455.	1.2	60
17	Topological analysis of polymeric melts: Chain-length effects and fast-converging estimators for entanglement length. Physical Review E, 2009, 80, 031803.	0.8	260
18	Contact network in nearly jammed disordered packings of hard-sphere chains. Physical Review E, 2009, 80, 011307.	0.8	32

#	Article	IF	Citations
19	Random packing of model polymers: local structure, topological hindrance and universal scaling. Soft Matter, 2009, 5, 1762.	1.2	45
20	The structure of random packings of freely jointed chains of tangent hard spheres. Journal of Chemical Physics, 2009, 130, 164908.	1.2	49
21	Modeling the Effect of Cell-Associated Polymeric Fluid Layers on Force Spectroscopy Measurements. Part II: Experimental Results and Comparison with Model Predictions. Langmuir, 2008, 24, 9588-9597.	1.6	5
22	Universal Scaling, Entanglements, and Knots of Model Chain Molecules. Physical Review Letters, 2008, 101, 265702.	2.9	49
23	Modeling the Effect of Cell-Associated Polymeric Fluid Layers on Force Spectroscopy Measurements. Part I: Model Development. Langmuir, 2008, 24, 9575-9587.	1.6	3
24	Molecule-based Micro-Macro Methods for Complex Fluids. AIP Conference Proceedings, 2007, , .	0.3	0
25	Primitive Path Identification and Entanglement Statistics in Polymer Melts:â€‰ Results from Direct Topological Analysis on Atomistic Polyethylene Models. Macromolecules, 2006, 39, 4207-4216.	2.2	146
26	Numerical simulation of multiple bubbles growing in a Newtonian liquid filament undergoing stretching. Physics of Fluids, 2006, 18, 042106.	1.6	16
27	Numerical simulation of bubble growth in Newtonian and viscoelastic filaments undergoing stretching. Journal of Non-Newtonian Fluid Mechanics, 2004, 122, 177-200.	1.0	26