# Aikaterini Foteinopoulou

List of Publications by Year
in descending order



| 27 | 978 | 567144 15 | 580701 25 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 27 | 27 | 27 | 623 |
|---|---|---|---|
| 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 |