

Kostas Ch Daoulas

List of Publications by Year in descending order

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docs citations

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2626
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoscopic Modeling of a Highly-Ordered Sanidic Polymer Mesophase and Comparison With Experimental Data. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2285-2298.	1.2	2
2	Ink Formulation for Printed Organic Electronics: Investigating Effects of Aggregation on Structure and Rheology of Functional Inks Based on Conjugated Polymers in Mixed Solvents. <i>Advanced Materials Technologies</i> , 2021, 6, 2000335.	3.0	17
3	Dynamic coarse-graining of polymer systems using mobility functions. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 194004.	0.7	5
4	Comparing equilibration schemes of high-molecular-weight polymer melts with topological indicators. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 204003.	0.7	7
5	Can Soft Models Describe Polymer Knots?. <i>Macromolecules</i> , 2020, 53, 10475-10486.	2.2	9
6	Exploring Disordered Morphologies of Blends and Block Copolymers for Light-Emitting Diodes with Mesoscopic Simulations. <i>Macromolecules</i> , 2020, 53, 523-538.	2.2	12
7	Top-Down Hybrid Models of Polymers. , 2020, , 1411-1430.		2
8	Generic Model for Lamellar Self-Assembly in Conjugated Polymers: Linking Mesoscopic Morphology and Charge Transport in P3HT. <i>Macromolecules</i> , 2019, 52, 968-981.	2.2	36
9	Hierarchical modelling of polystyrene melts: from soft blobs to atomistic resolution. <i>Soft Matter</i> , 2019, 15, 289-302.	1.2	35
10	Temperature-Dependence of Persistence Length Affects Phenomenological Descriptions of Aligning Interactions in Nematic Semiconducting Polymers. <i>Chemistry of Materials</i> , 2018, 30, 748-761.	3.2	17
11	Equilibrating high-molecular-weight symmetric and miscible polymer blends with hierarchical back-mapping. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 174001.	0.7	10
12	Studying polymer solutions with particle-based models linked to classical density functionals: co-non-solvency. <i>Soft Matter</i> , 2018, 14, 9282-9295.	1.2	6
13	Top-Down Hybrid Models of Polymers. , 2018, , 1-20.		0
14	Splay density coupling in semiflexible main-chain nematic polymers with hairpins. <i>Soft Matter</i> , 2018, 14, 5898-5905.	1.2	8
15	Thermodynamics of a Compressible Maier-Saupe Model Based on the Self-Consistent Field Theory of Wormlike Polymer. <i>Polymers</i> , 2017, 9, 48.	2.0	8
16	The Cassie-Wenzel transition of fluids on nanostructured substrates: Macroscopic force balance versus microscopic density-functional theory. <i>Journal of Chemical Physics</i> , 2016, 145, 134703.	1.2	13
17	Maier-Saupe model of polymer nematics: Comparing free energies calculated with Self Consistent Field theory and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2016, 145, 184901.	1.2	17
18	Studying PMMA films on silica surfaces with generic microscopic and mesoscale models. <i>European Physical Journal: Special Topics</i> , 2016, 225, 1423-1440.	1.2	4

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19	Effect of Mesoscale Ordering on the Density of States of Polymeric Semiconductors. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1047-1053.	2.0	35
20	Communication: One size fits all: Equilibrating chemically different polymer liquids through universal long-wavelength description. <i>Journal of Chemical Physics</i> , 2015, 142, 221102.	1.2	18
21	Fluctuation spectra in polymer nematics and Frank elastic constants: a coarse-grained modelling study. <i>Soft Matter</i> , 2015, 11, 532-544.	1.2	25
22	Morphology and Charge Transport in P3HT: A Theorist's Perspective. <i>Advances in Polymer Science</i> , 2014, , 139-180.	0.4	61
23	Equilibration of High Molecular Weight Polymer Melts: A Hierarchical Strategy. <i>ACS Macro Letters</i> , 2014, 3, 198-203.	2.3	67
24	Nematic Ordering, Conjugation, and Density of States of Soluble Polymeric Semiconductors. <i>Macromolecules</i> , 2013, 46, 5762-5774.	2.2	56
25	A New Coarse Grained Particle-to-Mesh Scheme for Modeling Soft Matter. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 214-224.	1.1	28
26	Exploring thermodynamic stability of the stalk fusion-intermediate with three-dimensional self-consistent field theory calculations. <i>Soft Matter</i> , 2013, 9, 4097.	1.2	13
27	Simulations of nematic homopolymer melts using particle-based models with interactions expressed through collective variables. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284121.	0.7	26
28	Polymer-solids contacts described by soft, coarse-grained models. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10491.	1.3	38
29	Quasi-Block Copolymers: Design, Synthesis, and Evidence for Their Formation in Solution and in the Melt. <i>Macromolecules</i> , 2011, 44, 9773-9781.	2.2	18
30	Speeding Up Intrinsically Slow Collective Processes in Particle Simulations by Concurrent Coupling to a Continuum Description. <i>Physical Review Letters</i> , 2011, 107, 227801.	2.9	32
31	Directed Assembly of Supramolecular Copolymers in Thin Films: Thermodynamic and Kinetic Advantages. <i>Physical Review Letters</i> , 2010, 105, 108301.	2.9	19
32	Remediation of Line Edge Roughness in Chemical Nanopatterns by the Directed Assembly of Overlying Block Copolymer Films. <i>Macromolecules</i> , 2010, 43, 2334-2342.	2.2	81
33	Measuring excess free energies of self-assembled membrane structures. <i>Faraday Discussions</i> , 2010, 144, 369-391.	1.6	34
34	Self-Assembly in Thin Films of Mixtures of Block Copolymers and Homopolymers Interacting by Hydrogen Bonds. <i>Macromolecules</i> , 2010, 43, 7734-7743.	2.2	35
35	Phase behaviour of quasi-block copolymers: A DFT-based Monte-Carlo study. <i>Soft Matter</i> , 2009, 5, 4499.	1.2	23
36	Comparison of Simulations of Lipid Membranes with Membranes of Block Copolymers. <i>Advances in Polymer Science</i> , 2009, , 43-85.	0.4	10

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37	Computing free energies of interfaces in self-assembling systems. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2087.	1.3	30
38	Comparison of Simulations of Lipid Membranes with Membranes of Block Copolymers. <i>Advances in Polymer Science</i> , 2009, , .	0.4	2
39	Directed Copolymer Assembly on Chemical Substrate Patterns: A Phenomenological and Single-Chain-in-Mean-Field Simulations Study of the Influence of Roughness in the Substrate Pattern. <i>Langmuir</i> , 2008, 24, 1284-1295.	1.6	70
40	Hierarchical Assembly of Nanoparticle Superstructures from Block Copolymer-Nanoparticle Composites. <i>Physical Review Letters</i> , 2008, 100, 148303.	2.9	126
41	Monte Carlo Simulations of a Coarse Grain Model for Block Copolymers and Nanocomposites. <i>Macromolecules</i> , 2008, 41, 4989-5001.	2.2	198
42	An Efficient Monte Carlo Algorithm for the Fast Equilibration and Atomistic Simulation of Alkanethiol Self-Assembled Monolayers on a Au(111) Substrate. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1198-1211.	1.2	20
43	Calculating the free energy of self-assembled structures by thermodynamic integration. <i>Journal of Chemical Physics</i> , 2008, 128, 024903.	1.2	87
44	Single-chain dynamics in a homogeneous melt and a lamellar microphase: A comparison between Smart Monte Carlo dynamics, slithering-snake dynamics, and slip-link dynamics. <i>Journal of Chemical Physics</i> , 2008, 129, 164906.	1.2	67
45	Ordering of Diblock Copolymer Materials on Patterned Substrates: a Single Chain in Mean Field Simulation Study. <i>Macromolecular Symposia</i> , 2007, 252, 68-75.	0.4	2
46	Directed Self-Assembly of Block Copolymers for Nanolithography: Fabrication of Isolated Features and Essential Integrated Circuit Geometries. <i>ACS Nano</i> , 2007, 1, 168-175.	7.3	424
47	Fabrication of Complex Three-Dimensional Nanostructures from Self-Assembling Block Copolymer Materials on Two-Dimensional Chemically Patterned Templates with Mismatched Symmetry. <i>Physical Review Letters</i> , 2006, 96, 036104.	2.9	110
48	Directed assembly of copolymer materials on patterned substrates: Balance of simple symmetries in complex structures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2589-2604.	2.4	19
49	Morphology of multi-component polymer systems: single chain in mean field simulation studies. <i>Soft Matter</i> , 2006, 2, 573-583.	1.2	134
50	Single chain in mean field simulations: Quasi-instantaneous field approximation and quantitative comparison with Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2006, 125, 184904.	1.2	211
51	Self-Consistent-Field Study of Compressible Semiflexible Melts Adsorbed on a Solid Substrate and Comparison with Atomistic Simulations. <i>Macromolecules</i> , 2005, 38, 7134-7149.	2.2	48
52	Molecular Dynamics Simulation of a Polymer Melt/Solid Interface: Local Dynamics and Chain Mobility in a Thin Film of Polyethylene Melt Adsorbed on Graphite. <i>Macromolecules</i> , 2005, 38, 5796-5809.	2.2	162
53	Detailed Atomistic Simulation of a Polymer Melt/Solid Interface: Structure, Density, and Conformation of a Thin Film of Polyethylene Melt Adsorbed on Graphite. <i>Macromolecules</i> , 2005, 38, 5780-5795.	2.2	185
54	Experimental and Self-Consistent-Field Theoretical Study of Styrene Block Copolymer Self-Adhesive Materials. <i>Macromolecules</i> , 2004, 37, 5093-5109.	2.2	37

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55	Variable Connectivity Methods for the Atomistic Monte Carlo Simulation of Inhomogeneous and/or Anisotropic Polymer Systems of Precisely Defined Chain Length Distribution: Tuning the Spectrum of Chain Relative Chemical Potentials. <i>Macromolecules</i> , 2003, 36, 6674-6682.	2.2	15
56	Detailed atomistic Monte Carlo simulation of grafted polymer melts: II. Orientational order and nuclear magnetic resonance spectra. <i>Journal of Chemical Physics</i> , 2003, 118, 1521-1532.	1.2	7
57	Detailed atomistic Monte Carlo simulation of grafted polymer melts. I. Thermodynamic and conformational properties. <i>Journal of Chemical Physics</i> , 2002, 116, 11028-11038.	1.2	40