

Valeriy V Ginzburg

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3724543/publications.pdf>

Version: 2024-02-01

70
papers

5,044
citations

218592

26
h-index

114418

63
g-index

73
all docs

73
docs citations

73
times ranked

4715
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal conductivity of polymer-based composites: Fundamentals and applications. Progress in Polymer Science, 2016, 59, 41-85.	11.8	1,464
2	Predicting the Mesophases of Copolymer-Nanoparticle Composites. Science, 2001, 292, 2469-2472.	6.0	701
3	Block Copolymer-Directed Assembly of Nanoparticles: Forming Mesoscopically Ordered Hybrid Materials. Macromolecules, 2002, 35, 1060-1071.	2.2	279
4	Thermodynamic Behavior of Particle/Diblock Copolymer Mixtures: Simulation and Theory. Macromolecules, 2000, 33, 8085-8096.	2.2	250
5	Modeling the Thermodynamics of the Interaction of Nanoparticles with Cell Membranes. Nano Letters, 2007, 7, 3716-3722.	4.5	234
6	Influence of Nanoparticles on Miscibility of Polymer Blends. A Simple Theory. Macromolecules, 2005, 38, 2362-2367.	2.2	225
7	Theoretical Phase Diagrams of Polymer/Clay Composites: The Role of Grafted Organic Modifiers. Macromolecules, 2000, 33, 1089-1099.	2.2	187
8	Forming Supramolecular Networks from Nanoscale Rods in Binary, Phase-Separating Mixtures. Science, 2000, 288, 1802-1804.	6.0	152
9	Multi-Scale Model for Binary Mixtures Containing Nanoscopic Particles. Journal of Physical Chemistry B, 2000, 104, 3411-3422.	1.2	139
10	Simulation of Hard Particles in a Phase-Separating Binary Mixture. Physical Review Letters, 1999, 82, 4026-4029.	2.9	126
11	Calculating Phase Diagrams of Polymer-Platelet Mixtures Using Density Functional Theory: Implications for Polymer/Clay Composites. Macromolecules, 1999, 32, 5681-5688.	2.2	124
12	Modeling the Interfacial Tension in Oil-Water-Nonionic Surfactant Mixtures Using Dissipative Particle Dynamics and Self-Consistent Field Theory. Journal of Physical Chemistry B, 2011, 115, 4654-4661.	1.2	69
13	Determining the phase behavior of nanoparticle-filled binary blends. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2389-2403.	2.4	64
14	Modeling the Dynamic Behavior of Diblock Copolymer/Particle Composites. Macromolecules, 2000, 33, 6140-6147.	2.2	61
15	Kinetic model of phase separation in binary mixtures with hard mobile impurities. Physical Review E, 1999, 60, 4352-4359.	0.8	58
16	Design, polymerization, and properties of high performance thermoplastic polyurethane elastomers from seed-oil derived soft segments. Polymer, 2013, 54, 1350-1360.	1.8	52
17	Three-dimensional simulations of diblock copolymer/particle composites. Polymer, 2002, 43, 461-466.	1.8	47
18	Polymer-Grafted Nanoparticles in Polymer Melts: Modeling Using the Combined SCFT-DFT Approach. Macromolecules, 2013, 46, 9798-9805.	2.2	42

#	ARTICLE	IF	CITATIONS
19	Theoretical modeling of the relationship between Young's modulus and formulation variables for segmented polyurethanes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2123-2135.	2.4	41
20	Spinodal decomposition of a binary fluid with fixed impurities. <i>Journal of Chemical Physics</i> , 2001, 115, 3779-3784.	1.2	39
21	Modeling polymer-induced interactions between two grafted surfaces: Comparison between interfacial statistical associating fluid theory and self-consistent field theory. <i>Journal of Chemical Physics</i> , 2009, 131, 044908.	1.2	39
22	Modeling the Morphology and Phase Behavior of One-Component Polymer-Grafted Nanoparticle Systems. <i>Macromolecules</i> , 2017, 50, 9445-9455.	2.2	37
23	Simple "Kink" Model of Melt Intercalation in Polymer-Clay Nanocomposites. <i>Physical Review Letters</i> , 2001, 86, 5073-5075.	2.9	36
24	Anisotropic self-assembly and gelation in aqueous methylcellulose theory and modeling. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1624-1636.	2.4	36
25	High-Dielectric-Constant Self-Assembled Nodular Structures in Polymer/Gold Nanoparticle Films. <i>Macromolecules</i> , 2006, 39, 3901-3906.	2.2	29
26	Shear-Dependent Interactions in Hydrophobically Modified Ethylene Oxide Urethane (HEUR) Based Coatings: Mesoscale Structure and Viscosity. <i>Macromolecules</i> , 2015, 48, 1866-1882.	2.2	29
27	Density functional theory for charged fluids. <i>Soft Matter</i> , 2018, 14, 5878-5887.	1.2	28
28	Phase Separation under Shear of Binary Mixtures Containing Hard Particles. <i>Langmuir</i> , 1999, 15, 4952-4956.	1.6	25
29	Liquid crystal phase diagram of the Gay-Berne fluid by density functional theory. <i>Liquid Crystals</i> , 1997, 23, 227-234.	0.9	24
30	Thermodynamics of Polymer-Clay Nanocomposites Revisited: Compressible Self-Consistent Field Theory Modeling of Melt-Intercalated Organoclays. <i>Macromolecules</i> , 2009, 42, 9089-9095.	2.2	23
31	Effect of hydrodynamic interactions on the evolution of chemically reactive ternary mixtures. <i>Journal of Chemical Physics</i> , 2004, 121, 6052-6063.	1.2	22
32	Modeling the Adsorption of Rheology Modifiers onto Latex Particles Using Coarse-Grained Molecular Dynamics (CG-MD) and Self-Consistent Field Theory (SCFT). <i>Macromolecules</i> , 2015, 48, 8045-8054.	2.2	22
33	Associative thickeners for waterborne paints: Structure, characterization, rheology, and modeling. <i>Progress in Polymer Science</i> , 2022, 129, 101546.	11.8	22
34	Characterization of polyurethane hard segment length distribution using soft hydrolysis/MALDI and Monte Carlo simulation. <i>Polymer</i> , 2013, 54, 5005-5015.	1.8	21
35	Studies of nematic-isotropic transition for a Gay-Berne fluid using the second virial approximation. <i>Liquid Crystals</i> , 1996, 21, 265-271.	0.9	19
36	Oscillatory and Steady Shear Rheology of Model Hydrophobically Modified Ethoxylated Urethane-Thickened Waterborne Paints. <i>Langmuir</i> , 2018, 34, 10993-11002.	1.6	19

#	ARTICLE	IF	CITATIONS
37	A simple mean-field model of glassy dynamics and glass transition. <i>Soft Matter</i> , 2020, 16, 810-825.	1.2	18
38	Annihilation rate and scaling in a two-dimensional system of charged particles. <i>Physical Review E</i> , 1995, 51, 411-417.	0.8	17
39	Self-consistent model of an annihilation-diffusion reaction with long-range interactions. <i>Physical Review E</i> , 1997, 55, 395-402.	0.8	16
40	Computational modeling of block copolymer directed self-assembly. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 90-95.	2.4	16
41	Modeling Chemoepitaxy of Block Copolymer Thin Films using Self-Consistent Field Theory. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013, 26, 817-823.	0.1	14
42	Nanocomposites Based on Coil-Comb Diblock Copolymers. <i>Macromolecules</i> , 2021, 54, 1006-1016.	2.2	14
43	Formulation-Controlled Positive and Negative First Normal Stress Differences in Waterborne Hydrophobically Modified Ethylene Oxide Urethane (HEUR)-Latex Suspensions. <i>ACS Macro Letters</i> , 2017, 6, 716-720.	2.3	13
44	Modeling reactive compatibilization of a binary blend with interacting particles. <i>Journal of Chemical Physics</i> , 2003, 118, 9044-9052.	1.2	12
45	Polymer Modeling at The Dow Chemical Company. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2004, 44, 53-85.	2.2	12
46	On the origin of oscillatory interactions between surfaces mediated by polyelectrolyte solution. <i>Journal of Chemical Physics</i> , 2019, 151, 214901.	1.2	12
47	A new potential for the description of intermolecular interactions for rigid biaxial molecules. <i>Chemical Physics</i> , 1997, 214, 253-260.	0.9	9
48	Design, polymerization, and properties of polyurethane elastomers from miscible, immiscible, and hybridized seed-coil derived soft segment blends. <i>Journal of Polymer Science Part A</i> , 2015, 53, 93-102.	2.5	9
49	Scaling theory of particle annihilation in systems with a long-range interaction. <i>Physical Review E</i> , 1995, 52, 2583-2586.	0.8	8
50	Modeling the Glass Transition and Glassy Dynamics of Random Copolymers Using the TS2 Mean-Field Approach. <i>Macromolecules</i> , 2021, 54, 2774-2782.	2.2	8
51	Nonelectrostatic Adsorption of Polyelectrolytes and Mediated Interactions between Solid Surfaces. <i>Langmuir</i> , 2021, 37, 5483-5493.	1.6	8
52	Rheology of Cellulose Ether Excipients Designed for Hot Melt Extrusion. <i>Biomacromolecules</i> , 2018, 19, 4430-4441.	2.6	7
53	Combined description of polymer <i>PVT</i> and relaxation data using a dynamic α -SL-TS2-mean-field lattice model. <i>Soft Matter</i> , 2021, 17, 9094-9106.	1.2	7
54	Modeling the Glass Transition of Free-Standing Polymer Thin Films Using the α -SL-TS2-Mean-Field Approach. <i>Macromolecules</i> , 2022, 55, 873-882.	2.2	7

#	ARTICLE	IF	CITATIONS
55	Polyolefin/Clay Nanocomposites: Theory and Simulation. , 0, , 415-448.		6
56	New materials for directed self-assembly for advanced patterning. Proceedings of SPIE, 2014, , .	0.8	6
57	Recent Developments in Theory and Modeling of Polymer-Based Nanocomposites. Advanced Structured Materials, 2019, , 205-224.	0.3	6
58	<title>Theory of chiral-racemic mixtures near the Smectic C-Smectic A transition point: dependence of spontaneous polarization and transition temperature on enantiometric excess</title>. , 1994, , .		5
59	Combining physical resist modeling and self-consistent field theory for pattern simulation in directed self-assembly. Proceedings of SPIE, 2013, , .	0.8	5
60	Influence of the first normal stress differences on model hydrophobically modified ethoxylated urethane-thickened waterborne paints brush drag. Progress in Organic Coatings, 2019, 135, 582-590.	1.9	5
61	Scaling model of annihilation-diffusion kinetics for charged particles with long-range interactions. Physical Review E, 1996, 54, R1056-R1057.	0.8	4
62	Mesoscale Modeling of Micellization and Adsorption of Surfactants and Surfactant-Like Polymers in Solution: Challenges and Opportunities. Industrial & Engineering Chemistry Research, 0, , .	1.8	4
63	Application of Mesoscale Field-Based Models to Predict Stability of Particle Dispersions in Polymer Melts. Advances in Chemical Engineering, 2010, 39, 131-164.	0.5	3
64	Predicting the Phase Behavior of Polymer-Clay Nanocomposites: The Role of End-Functionalized Chains. ACS Symposium Series, 2001, , 57-70.	0.5	2
65	Density Functional Theory-Based Modeling of Polymer Nanocomposites. Springer Series in Materials Science, 2021, , 23-44.	0.4	1
66	Modeling the Thermal Conductivity of Polymer-Inorganic Nanocomposites. Springer Series in Materials Science, 2021, , 235-257.	0.4	1
67	Phenomenological description of the crystal-liquid crystal phase diagram. Liquid Crystals, 1998, 25, 621-630.	0.9	0
68	Calculating Phase Diagrams of Polymer-Clay Mixtures by Combining Density Functional and Self-Consistent Field Theory. Materials Research Society Symposia Proceedings, 1999, 576, 143.	0.1	0
69	Multicomponent Materials as Li+ Conductors. Materials Research Society Symposia Proceedings, 2004, 856, BB12.5.1.	0.1	0
70	Designing Block Copolymers for Nanolithography using Mesoscale Modeling: Line-Space Graphoepitaxy. MRS Advances, 2016, 1, 1829-1839.	0.5	0