

Victor Pryamitsyn

List of Publications by Year in descending order

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101384

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88
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88
docs citations

88
times ranked

4379
citing authors

#	ARTICLE	IF	CITATIONS
1	AVHRR GAC Sea Surface Temperature Reanalysis Version 2. Remote Sensing, 2022, 14, 3165.	1.8	2
2	Historical and near-real time SST retrievals from MetOp AVHRR FRAC with the advanced clear-sky processor for ocean. , 2021, , .		1
3	Filtering cold outliers in SSTs retrieved from early AVHRRs for the second AVHRR GAC reanalysis. , 2021, , .		2
4	Metop First Generation AVHRR FRAC SST Reanalysis Version 1. Remote Sensing, 2021, 13, 4046.	1.8	4
5	Strain-Dependent Nanowrinkle Confinement of Block Copolymers. Nano Letters, 2020, 20, 1433-1439.	4.5	6
6	Evaluation of the initial NOAA AVHRR GAC SST reanalysis version 2 (RAN2 B01). , 2020, , .		1
7	Ionic Correlations in Random Ionomers. ACS Nano, 2018, 12, 2311-2318.	7.3	36
8	Thermodynamics of Associative Polymer Blends. Macromolecules, 2018, 51, 5918-5932.	2.2	27
9	Solubility and interfacial segregation of salts in ternary polyelectrolyte blends. Soft Matter, 2017, 13, 4830-4840.	1.2	6
10	Anomalous Phase Behavior of Ionic Polymer Blends and Ionic Copolymers. Macromolecules, 2017, 50, 5194-5207.	2.2	22
11	Influence of molecular weight and degree of segregation on local segmental dynamics of ordered block copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 859-864.	2.4	31
12	Influence of nanoparticle-ion and nanoparticle-polymer interactions on ion transport and viscoelastic properties of polymer electrolytes. Journal of Chemical Physics, 2016, 144, 154905.	1.2	20
13	Noncontinuum effects on the mobility of nanoparticles in unentangled polymer solutions. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2145-2150.	2.4	14
14	Normal Modes and Dielectric Spectra of Diblock Copolymers in Lamellar Phases. Macromolecules, 2016, 49, 2821-2831.	2.2	3
15	Pair interactions in polyelectrolyte-nanoparticle systems: Influence of dielectric inhomogeneities and the partial dissociation of polymers and nanoparticles. Journal of Chemical Physics, 2015, 143, 164904.	1.2	12
16	Interactions and Aggregation of Charged Nanoparticles in Uncharged Polymer Solutions. Langmuir, 2015, 31, 12328-12338.	1.6	17
17	Phase Behavior of Binary Blend Consisting of Asymmetric Polystyrene- <i>block</i> -poly(2-vinylpyridine) Copolymer and Asymmetric Deuterated Polystyrene- <i>block</i> -poly(4-hydroxystyrene) Copolymer. Macromolecules, 2015, 48, 1262-1266.	2.2	27
18	Multibody Interactions, Phase Behavior, and Clustering in Nanoparticle-Polyelectrolyte Mixtures. Journal of Physical Chemistry B, 2015, 119, 14536-14550.	1.2	24

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19	Effect of the Degree of Hydrogen Bonding on Asymmetric Lamellar Microdomains in Binary Block Copolymer Blends. <i>Macromolecules</i> , 2015, 48, 6347-6352.	2.2	31
20	Interplay between Depletion and Electrostatic Interactions in Polyelectrolyte–Nanoparticle Systems. <i>Macromolecules</i> , 2014, 47, 6095-6112.	2.2	31
21	Mechanisms Underlying Ionic Mobilities in Nanocomposite Polymer Electrolytes. <i>ACS Macro Letters</i> , 2013, 2, 1001-1005.	2.3	40
22	Effect of confinement on polymer-induced depletion interactions between nanoparticles. <i>Journal of Chemical Physics</i> , 2013, 138, 234905.	1.2	15
23	Molecular mass dependence of point-to-set correlation length scale in polymers. <i>Journal of Chemical Physics</i> , 2012, 137, 084904.	1.2	2
24	Phase behavior of gradient copolymer solutions: a Monte Carlo simulation study. <i>Soft Matter</i> , 2012, 8, 6471.	1.2	24
25	Highly Asymmetric Lamellar Nanopatterns <i>via</i> Block Copolymer Blends Capable of Hydrogen Bonding. <i>ACS Nano</i> , 2012, 6, 7966-7972.	7.3	65
26	Blockiness and Sequence Polydispersity Effects on the Phase Behavior and Interfacial Properties of Gradient Copolymers. <i>Macromolecules</i> , 2012, 45, 6281-6297.	2.2	43
27	Computer Simulations of Gas Diffusion in Polystyrene–C ₆₀ Fullerene Nanocomposites Using Trajectory Extending Kinetic Monte Carlo Method. <i>Journal of Physical Chemistry B</i> , 2012, 116, 95-103.	1.2	24
28	Curvature Modification of Block Copolymer Microdomains Using Blends of Block Copolymers with Hydrogen Bonding Interactions. <i>Macromolecules</i> , 2012, 45, 8729-8742.	2.2	26
29	Coarse-Grained Simulations of Penetrant Transport in Polymer Nanocomposites. <i>Macromolecules</i> , 2011, 44, 9839-9851.	2.2	19
30	Self-Assembly of Diblock Copolymer on Substrates Modified by Random Copolymer Brushes. <i>Macromolecules</i> , 2011, 44, 9867-9881.	2.2	16
31	Phase Behavior of Binary Blends of Block Copolymers Having Hydrogen Bonding. <i>Macromolecules</i> , 2011, 44, 4970-4976.	2.2	43
32	Surface Energies and Self-Assembly of Block Copolymers on Grafted Surfaces. <i>Physical Review Letters</i> , 2011, 107, 148304.	2.9	20
33	Mean field theory of charged dendrimer molecules. <i>Journal of Chemical Physics</i> , 2011, 135, 204902.	1.2	13
34	Interfacial properties of statistical copolymer brushes in contact with homopolymer melts. <i>Journal of Chemical Physics</i> , 2011, 134, 154903.	1.2	18
35	Modeling viscoelastic properties of triblock copolymers: A DPD simulation study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 15-25.	2.4	40
36	Many-body interactions and coarse-grained simulations of structure of nanoparticle-polymer melt mixtures. <i>Journal of Chemical Physics</i> , 2010, 133, 144904.	1.2	28

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37	A Comparison of the Dynamical Relaxations in a Model for Glass Transition in Polymer Nanocomposites and Polymer Thin Films. <i>Macromolecules</i> , 2010, 43, 5851-5862.	2.2	23
38	Mean-field models of structure and dispersion of polymer-nanoparticle mixtures. <i>Soft Matter</i> , 2010, 6, 4010.	1.2	109
39	Effect of anisotropic charge transport on device characteristics of polymer solar cells. <i>Applied Physics Letters</i> , 2009, 95, 194101.	1.5	11
40	Anisotropic self-assembly of spherical polymer-grafted nanoparticles. <i>Nature Materials</i> , 2009, 8, 354-359.	13.3	925
41	Dewetting of PMMA on PS ⁺ Brush Substrates. <i>Macromolecules</i> , 2009, 42, 7919-7923.	2.2	41
42	Evaluating the Role of Additive pKa on the Proton Conductivities of Blended Sulfonated Poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.2	15
43	Modeling the anisotropic self-assembly of spherical polymer-grafted nanoparticles. <i>Journal of Chemical Physics</i> , 2009, 131, 221102.	1.2	111
44	Structure of Aggregating Rod Suspensions Under Combined Shear and Electric Fields. <i>Macromolecules</i> , 2009, 42, 7184-7193.	2.2	6
45	Relation between Glass Transition Temperatures in Polymer Nanocomposites and Polymer Thin Films. <i>Physical Review Letters</i> , 2008, 101, 075702.	2.9	66
46	Screening of hydrodynamic interactions in Brownian rod suspensions. <i>Journal of Chemical Physics</i> , 2008, 128, 134901.	1.2	30
47	A Model for Self-Assembly in Side Chain Liquid Crystalline Block Copolymers. <i>Macromolecules</i> , 2008, 41, 218-229.	2.2	53
48	Dynamics of Probe Diffusion in Rod Solutions. <i>Physical Review Letters</i> , 2008, 100, 128302.	2.9	23
49	Equilibrium characteristics of semiflexible polymer solutions near probe particles. <i>Physical Review E</i> , 2008, 78, 051804.	0.8	28
50	Instabilities in Block Copolymer Films Induced by Compressible Solvents. <i>Journal of Physical Chemistry B</i> , 2007, 111, 402-407.	1.2	2
51	Origin of Dynamical Properties in PMMA ⁺ C60 Nanocomposites. <i>Macromolecules</i> , 2007, 40, 5424-5432.	2.2	106
52	Dispersion and Percolation Transitions of Nanorods in Polymer Solutions. <i>Macromolecules</i> , 2007, 40, 344-354.	2.2	58
53	Mechanisms of steady-shear rheology in polymer-nanoparticle composites. <i>Journal of Rheology</i> , 2006, 50, 655-683.	1.3	67
54	Origins of Linear Viscoelastic Behavior of Polymer ⁺ Nanoparticle Composites. <i>Macromolecules</i> , 2006, 39, 844-856.	2.2	158

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55	Noncontinuum effects in nanoparticle dynamics in polymers. <i>Journal of Chemical Physics</i> , 2006, 124, 221102.	1.2	74
56	Strong Segregation Theory of Block Copolymer-Nanoparticle Composites. <i>Macromolecules</i> , 2006, 39, 8499-8510.	2.2	87
57	Nanoparticles in Solutions of Adsorbing Polymers: Pair Interactions, Percolation, and Phase Behavior. <i>Langmuir</i> , 2006, 22, 969-981.	1.6	72
58	Polymer-bridged gels of nanoparticles in solutions of adsorbing polymers. <i>Journal of Chemical Physics</i> , 2006, 125, 064903.	1.2	58
59	Shear-Induced Phase Transitions in Ternary Polymer Blends. <i>Physical Review Letters</i> , 2006, 96, 028302.	2.9	11
60	Universality in Structure and Elasticity of Polymer-Nanoparticle Gels. <i>Physical Review Letters</i> , 2006, 96, 177805.	2.9	77
61	A coarse-grained explicit solvent simulation of rheology of colloidal suspensions. <i>Journal of Chemical Physics</i> , 2005, 122, 104906.	1.2	60
62	Depletion and pair interactions of proteins in polymer solutions. <i>Journal of Chemical Physics</i> , 2005, 122, 154901.	1.2	50
63	Self-assembly of rod-coil block copolymers. <i>Journal of Chemical Physics</i> , 2004, 120, 5824-5838.	1.2	203
64	Interfacial Phenomena in Polymer Blends: A Self-Consistent Brownian Dynamics Study. <i>Macromolecules</i> , 2004, 37, 10180-10194.	2.2	45
65	Free Energy of a Non-Gaussian Polymer Brush. <i>Macromolecular Theory and Simulations</i> , 2003, 12, 223-228.	0.6	12
66	Dynamical mean-field theory for inhomogeneous polymeric systems. <i>Journal of Chemical Physics</i> , 2003, 118, 4345-4348.	1.2	41
67	Entanglements in Inhomogeneous Polymeric Phases. <i>Macromolecules</i> , 2002, 35, 9219-9231.	2.2	7
68	Correlations in Block Copolymers under Shear. <i>Macromolecules</i> , 2002, 35, 9847-9850.	2.2	5
69	Dynamics of the Most Probable Composition Fluctuations of Diblock Copolymers near the Ordering Transition. <i>Macromolecules</i> , 2001, 34, 2156-2171.	2.2	17
70	Kinetics of microphase segregation in one-dimensional symmetric diblock copolymer systems. <i>European Physical Journal E</i> , 2001, 4, 161-171.	0.7	1
71	Computer simulation of polymer brushes under shear. <i>Rheologica Acta</i> , 2000, 39, 469-475.	1.1	7
72	Self-Consistent Brownian Dynamics Simulation of Bimodal Polymer Brushes under Shear. <i>Macromolecules</i> , 2000, 33, 2740-2747.	2.2	18

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73	Self-Consistent Brownian Dynamics Simulation of Polymer Brushes under Shear. <i>Macromolecules</i> , 1998, 31, 6662-6668.	2.2	60
74	Theory of Liquid-Crystalline (LC) Polymer Brushes: Interpenetrating Brushes. <i>Macromolecules</i> , 1998, 31, 3720-3730.	2.2	20
75	Phase transitions in polymer brushes. <i>Macromolecular Symposia</i> , 1997, 113, 151-161.	0.4	20
76	Brush Theory of Tethered Chains with a Charged Group at the Free End. <i>Macromolecules</i> , 1997, 30, 584-589.	2.2	15
77	Theory of the Collapse of the Polyelectrolyte Brush. <i>Macromolecules</i> , 1996, 29, 8260-8270.	2.2	71
78	Theory of Polymer Brushes of Liquid-Crystalline Polymers. <i>Macromolecules</i> , 1996, 29, 7240-7250.	2.2	32
79	Liquid-crystalline ordering in polymer brushes. <i>Macromolecular Theory and Simulations</i> , 1996, 5, 215-223.	0.6	23
80	Inhomogeneous Structure of Collapsed Polymer Brushes Under Deformation. <i>Macromolecules</i> , 1995, 28, 8612-8620.	2.2	97
81	Theory of monolayers of non-Gaussian polymer chains grafted onto a surface. Part 1. "General theory. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 889-893.	1.7	38
82	Coil-globule type transitions in polymers. 2. Theory of coil-globule transition in linear macromolecules. <i>Macromolecules</i> , 1991, 24, 1554-1560.	2.2	112
83	Coil-globule type transitions in polymers. 1. Collapse of layers of grafted polymer chains. <i>Macromolecules</i> , 1991, 24, 140-149.	2.2	380
84	Theory of steric stabilization of colloid dispersions by grafted polymers. <i>Journal of Colloid and Interface Science</i> , 1990, 137, 495-511.	5.0	329
85	Structure and conformational transitions in grafted polymer chain layers. A new theory. <i>Polymer Science USSR</i> , 1989, 31, 205-216.	0.2	125
86	Theory of athermal lyotropic liquid crystal systems. <i>Polymer Science USSR</i> , 1988, 30, 316-324.	0.2	43
87	Structure of densely grafted polymeric monolayers. <i>Polymer Science USSR</i> , 1988, 30, 1706-1715.	0.2	128
88	Theory of the coil-globule transition. <i>Polymer Science USSR</i> , 1987, 29, 2039-2046.	0.2	12