Goundla Srinivas

List of Publications by Year
in descending order

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42	2,626	346980 22	312153 41
papers	citations	h-index	g-index

43	43	43	3780
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular modeling and SPRi investigations of interleukin 6 (IL6) protein and DNA aptamers. Journal of Biomolecular Structure and Dynamics, 2018, 36, 1934-1947.	2.0	18
2	Molecular Dynamics Simulation Analysis of Anti-MUC1 Aptamer and Mucin 1 Peptide Binding. Journal of Physical Chemistry B, 2015, 119, 6571-6583.	1.2	44
3	Analysis and understanding of aptamer and peptide molecular interactions: Application to mucin 1 (Muc1) aptasensor. , 2015, , .		0
4	Coarse-Grain Model for Natural Cellulose Fibrils in Explicit Water. Journal of Physical Chemistry B, 2014, 118, 3026-3034.	1.2	22
5	Polymer Micelle Assisted Transport and Delivery of Model Hydrophilic Components inside a Biological Lipid Vesicle: A Coarse-Grain Simulation Study. Journal of Physical Chemistry B, 2013, 117, 12095-12104.	1.2	13
6	Molecular Simulation in the Energy Biosciences. RSC Biomolecular Sciences, 2012, , 87-114.	0.4	0
7	A Solvent-Free Coarse Grain Model for Crystalline and Amorphous Cellulose Fibrils. Journal of Chemical Theory and Computation, 2011, 7, 2539-2548.	2.3	52
8	Distance and Orientation Dependence of Excitation Energy Transfer: From Molecular Systems to Metal Nanoparticles. Journal of Physical Chemistry B, 2009, 113, 1817-1832.	1.2	126
9	Soft Patchy Nanoparticles from Solution-Phase Self-Assembly of Binary Diblock Copolymers. Nano Letters, 2008, 8, 611-618.	4.5	88
10	Molecular dynamics simulations of self-assembly and nanotube formation by amphiphilic molecules in aqueous solution: a coarse-grain approach. Nanotechnology, 2007, 18, 205703.	1.3	22
11	Interfacial Fluctuations of Block Copolymers:â€‰ A Coarse-Grain Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2007, 111, 13734-13742.	1.2	14
12	Emerging applications of polymersomes in delivery: From molecular dynamics to shrinkage of tumors. Progress in Polymer Science, 2007, 32, 838-857.	11.8	351
13	Shrinkage of a Rapidly Growing Tumor by Drug-Loaded Polymersomes:Â pH-Triggered Release through Copolymer Degradation. Molecular Pharmaceutics, 2006, 3, 340-350.	2.3	305
14	Probing Membrane Insertion Activity of Antimicrobial Polymers via Coarse-Grain Molecular Dynamics. Journal of Chemical Theory and Computation, 2006, 2, 649-655.	2.3	52
15	Molecular Dynamics Simulations of Surfactant Self-Organization at a Solidâ^'Liquid Interface. Journal of the American Chemical Society, 2006, 128, 848-853.	6.6	83
16	Modeling Surfactant Adsorption on Hydrophobic Surfaces. Physical Review Letters, 2005, 94, 228301.	2.9	33
17	Incorporating a hydrophobic solid into a coarse grain liquid framework: Graphite in an aqueous amphiphilic environment. Journal of Chemical Physics, 2005, 123, 124907.	1.2	12
18	Key Roles for Chain Flexibility in Block Copolymer Membranes that Contain Pores or Make Tubes. Nano Letters, 2005, 5, 2343-2349.	4.5	75

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19	Coarse-grain molecular dynamics simulations of diblock copolymer surfactants interacting with a lipid bilayer. Molecular Physics, 2004, 102, 883-889.	0.8	32
20	Self-assembly and properties of diblock copolymers by coarse-grain molecular dynamics. Nature Materials, 2004, 3, 638-644.	13.3	340
21	Membrane Bound Hydraphiles Facilitate Cation Translocation. Journal of Physical Chemistry B, 2004, 108, 4231-4235.	1.2	17
22	Computational approaches to nanobiotechnology: probing the interaction of synthetic molecules with phospholipid bilayers via a coarse grain model. Nanotechnology, 2004, 15, 1289-1295.	1.3	18
23	Coarse grain models and the computer simulation of soft materials. Journal of Physics Condensed Matter, 2004, 16, R481-R512.	0.7	359
24	Simulation of Diblock Copolymer Self-Assembly, Using a Coarse-Grain Model. Journal of Physical Chemistry B, 2004, 108, 8153-8160.	1.2	85
25	Study of the dynamics of protein folding through minimalistic models. Theoretical Chemistry Accounts, 2003, 109, 8-21.	0.5	9
26	A coarse grain model for n-alkanes parameterized from surface tension data. Journal of Chemical Physics, 2003, 119, 7043-7049.	1.2	121
27	Study of Pair Contact Formation among Hydrophobic Residues in a Model HP-36 Protein:Â Relationship between Contact Order Parameter and Rate of Folding and Collapse. Journal of Physical Chemistry B, 2003, 107, 11768-11773.	1.2	10
28	Foldability and the funnel of HP-36 protein sequence: Use of hydropathy scale in protein folding. Journal of Chemical Physics, 2002, 116, 8579.	1.2	24
29	Time-dependent survival probability in diffusion-controlled reactions in a polymer chain: Beyond the Wilemskiâ€“Fixman theory. Journal of Chemical Physics, 2002, 116, 7276-7282.	1.2	34
30	Detection of collapsed and ordered polymer structures by fluorescence resonance energy transfer in stiff homopolymers: Bimodality in the reaction efficiency distribution. Journal of Chemical Physics, 2002, 116, 837-844.	1.2	20
31	Intermittency, current flows, and short time diffusion in interacting finite sized one-dimensional fluids. Journal of Chemical Physics, 2002, 116, 5941-5950.	1.2	23
32	Nonideality in the composition dependence of viscosity in binary mixtures. Journal of Chemical Physics, 2001, 114, 6220-6228.	1.2	47
33	FRET by FET and Dynamics of Polymer Folding. Journal of Physical Chemistry B, 2001, 105, 2475-2478.	1.2	30
34	Reentrant Behavior of Relaxation Time with Viscosity at Varying Composition in Binary Mixtures. Physical Review Letters, 2001, 86, 5926-5929.	2.9	22
35	Effect of Orientational Motion of Mobile Chromophores on the Dynamics of FÃ¶rster Energy Transfer in Polymers. Journal of Physical Chemistry B, 2001, 105, 9370-9374.	1.2	28
36	Relaxation in binary mixtures: Non-ideality, heterogeneity and re-entrance. Journal of Chemical Sciences, 2001, 113, 393-413.	0.7	7

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37	Nonexponentiality of time dependent survival probability and the fractional viscosity dependence of the rate in diffusion controlled reactions in a polymer chain. Journal of Chemical Physics, 2001, 114, 9170-9178.	1.2	30
38	The Enskog theory for classical vibrational energy relaxation in fluids with continuous potentials. Journal of Chemical Physics, 2001, 115, 4195-4198.	1.2	8
39	The Enskog theory for transport coefficients of simple fluids with continuous potentials. Journal of Chemical Physics, 2001, 114, 6276-6285.	1.2	30
40	Distribution of reaction times in diffusion controlled reactions in polymers. Chemical Physics Letters, 2000, 328, 420-424.	1.2	8
41	Computer simulation and mode-coupling theory analysis of time-dependent diffusion in two dimensional Lennardâ€“Jones fluids. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 266, 394-399.	0.9	5
42	Understanding the anomalous 1/t3 time dependence of velocity correlation function in one dimensional Lennard-Jones systems. Journal of Chemical Physics, 2000, 112, 7557-7563.	1.2	6