# Goundla Srinivas

List of Publications by Year
in descending order

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| 42 | 2,626 | 304743 | 276875 |
|---|---|---|---|
| papers | citations | 22 h-index | 41 g-index |

| 43 | 43 | 43 | 3198 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Coarse grain models and the computer simulation of soft materials. Journal of Physics Condensed Matter, 2004, 16, R481-R512. | 1.8 | 359 |
| 2 | Emerging applications of polymersomes in delivery: From molecular dynamics to shrinkage of tumors. Progress in Polymer Science, 2007, 32, 838-857. | 24.7 | 351 |
| 3 | Self-assembly and properties of diblock copolymers by coarse-grain molecular dynamics. Nature Materials, 2004, 3, 638-644. | 27.5 | 340 |
| 4 | Shrinkage of a Rapidly Growing Tumor by Drug-Loaded Polymersomes:Â pH-Triggered Release through Copolymer Degradation. Molecular Pharmaceutics, 2006, 3, 340-350. | 4.6 | 305 |
| 5 | Distance and Orientation Dependence of Excitation Energy Transfer: From Molecular Systems to Metal Nanoparticles. Journal of Physical Chemistry B, 2009, 113, 1817-1832. | 2.6 | 126 |
| 6 | A coarse grain model for n-alkanes parameterized from surface tension data. Journal of Chemical Physics, 2003, 119, 7043-7049. | 3.0 | 121 |
| 7 | Soft Patchy Nanoparticles from Solution-Phase Self-Assembly of Binary Diblock Copolymers. Nano Letters, 2008, 8, 611-618. | 9.1 | 88 |
| 8 | Simulation of Diblock Copolymer Self-Assembly, Using a Coarse-Grain Model. Journal of Physical Chemistry B, 2004, 108, 8153-8160. | 2.6 | 85 |
| 9 | Molecular Dynamics Simulations of Surfactant Self-Organization at a Solidâ^'Liquid Interface. Journal of the American Chemical Society, 2006, 128, 848-853. | 13.7 | 83 |
| 10 | Key Roles for Chain Flexibility in Block Copolymer Membranes that Contain Pores or Make Tubes. Nano Letters, 2005, 5, 2343-2349. | 9.1 | 75 |
| 11 | Probing Membrane Insertion Activity of Antimicrobial Polymers via Coarse-Grain Molecular Dynamics. Journal of Chemical Theory and Computation, 2006, 2, 649-655. | 5.3 | 52 |
| 12 | A Solvent-Free Coarse Grain Model for Crystalline and Amorphous Cellulose Fibrils. Journal of Chemical Theory and Computation, 2011, 7, 2539-2548. | 5.3 | 52 |
| 13 | Nonideality in the composition dependence of viscosity in binary mixtures. Journal of Chemical Physics, 2001, 114, 6220-6228. | 3.0 | 47 |
| 14 | Molecular Dynamics Simulation Analysis of Anti-MUC1 Aptamer and Mucin 1 Peptide Binding. Journal of Physical Chemistry B, 2015, 119, 6571-6583. | 2.6 | 44 |
| 15 | 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. | 3.0 | 34 |
| 16 | Modeling Surfactant Adsorption on Hydrophobic Surfaces. Physical Review Letters, 2005, 94, 228301. | 7.8 | 33 |
| 17 | Coarse-grain molecular dynamics simulations of diblock copolymer surfactants interacting with a lipid bilayer. Molecular Physics, 2004, 102, 883-889. | 1.7 | 32 |
| 18 | FRET by FET and Dynamics of Polymer Folding. Journal of Physical Chemistry B, 2001, 105, 2475-2478. | 2.6 | 30 |

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|---|---|---|---|
| 19 | 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. | 3.0 | 30 |
| 20 | The Enskog theory for transport coefficients of simple fluids with continuous potentials. Journal of Chemical Physics, 2001, 114, 6276-6285. | 3.0 | 30 |
| 21 | 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. | 2.6 | 28 |
| 22 | Foldability and the funnel of HP-36 protein sequence: Use of hydropathy scale in protein folding. Journal of Chemical Physics, 2002, 116, 8579. | 3.0 | 24 |
| 23 | Intermittency, current flows, and short time diffusion in interacting finite sized one-dimensional fluids. Journal of Chemical Physics, 2002, 116, 5941-5950. | 3.0 | 23 |
| 24 | Reentrant Behavior of Relaxation Time with Viscosity at Varying Composition in Binary Mixtures. Physical Review Letters, 2001, 86, 5926-5929. | 7.8 | 22 |
| 25 | Molecular dynamics simulations of self-assembly and nanotube formation by amphiphilic molecules in aqueous solution: a coarse-grain approach. Nanotechnology, 2007, 18, 205703. | 2.6 | 22 |
| 26 | Coarse-Grain Model for Natural Cellulose Fibrils in Explicit Water. Journal of Physical Chemistry B, 2014, 118, 3026-3034. | 2.6 | 22 |
| 27 | 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. | 3.0 | 20 |
| 28 | Computational approaches to nanobiotechnology: probing the interaction of synthetic molecules with phospholipid bilayers via a coarse grain model. Nanotechnology, 2004, 15, 1289-1295. | 2.6 | 18 |
| 29 | Molecular modeling and SPRi investigations of interleukin 6 (IL6) protein and DNA aptamers. Journal of Biomolecular Structure and Dynamics, 2018, 36, 1934-1947. | 3.5 | 18 |
| 30 | Membrane Bound Hydraphiles Facilitate Cation Translocation. Journal of Physical Chemistry B, 2004, 108, 4231-4235. | 2.6 | 17 |
| 31 | Interfacial Fluctuations of Block Copolymers:â€‰ A Coarse-Grain Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2007, 111, 13734-13742. | 2.6 | 14 |
| 32 | 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. | 2.6 | 13 |
| 33 | Incorporating a hydrophobic solid into a coarse grain liquid framework: Graphite in an aqueous amphiphilic environment. Journal of Chemical Physics, 2005, 123, 124907. | 3.0 | 12 |
| 34 | 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. | 2.6 | 10 |
| 35 | Study of the dynamics of protein folding through minimalistic models. Theoretical Chemistry Accounts, 2003, 109, 8-21. | 1.4 | 9 |
| 36 | Distribution of reaction times in diffusion controlled reactions in polymers. Chemical Physics Letters, 2000, 328, 420-424. | 2.6 | 8 |

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|---|---|---|---|
| 37 | The Enskog theory for classical vibrational energy relaxation in fluids with continuous potentials. Journal of Chemical Physics, 2001, 115, 4195-4198. | 3.0 | 8 |
| 38 | Relaxation in binary mixtures: Non-ideality, heterogeneity and re-entrance. Journal of Chemical Sciences, 2001, 113, 393-413. | 1.5 | 7 |
| 39 | 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. | 3.0 | 6 |
| 40 | 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. | 2.1 | 5 |
| 41 | Molecular Simulation in the Energy Biosciences. RSC Biomolecular Sciences, 2012, , 87-114. | 0.4 | 0 |
| 42 | Analysis and understanding of aptamer and peptide molecular interactions: Application to mucin 1 (Muc1) aptasensor. , 2015, , . | | 0 |