# Shankar B Rananavare

List of Publications by Year
in descending order



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|---|---|---|---|
| 58 papers | 859 citations | 430874 18 h-index | 501196 28 g-index |
| 60 all docs | 60 docs citations | 60 times ranked | 829 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Morphology-controlled copper nanowire synthesis and magnetic field assisted self-assembly. Nanoscale, 2019, 11, 2679-2686. | 5.6 | 10 |
| 2 | Optimizing the performance of a commercial electrochemical ethylene sensor via controlled ethylene generation in situ. Sensors and Actuators B: Chemical, 2019, 281, 535-541. | 7.8 | 13 |
| 3 | The LÎ³ Phase of Pulmonary Surfactant. Langmuir, 2018, 34, 6601-6611. | 3.5 | 10 |
| 4 | Bubbling and foaming assisted clearing of mucin plugs in microfluidic Y-junctions. Journal of Biomechanics, 2017, 64, 1-7. | 2.1 | 2 |
| 5 | The L-Gamma Phase of Pulmonary Surfactant. Biophysical Journal, 2017, 112, 84a. | 0.5 | 0 |
| 6 | Use of Sacrificial Nanoparticles to Remove the Effects of Shot-noise in Contact Holes Fabricated by E-beam Lithography. Journal of Visualized Experiments, 2017, , . | 0.3 | 0 |
| 7 | A method to derivatize surface silanol groups to Si-alkyl groups in carbon-doped silicon oxides. RSC Advances, 2016, 6, 93219-93230. | 3.6 | 88 |
| 8 | Controlled Deposition of Tin Oxide and Silver Nanoparticles Using Microcontact Printing. Crystals, 2015, 5, 116-142. | 2.2 | 6 |
| 9 | Hydrophobic Surfactant Proteins Strongly Induce Negative Curvature. Biophysical Journal, 2015, 109, 95-105. | 0.5 | 23 |
| 10 | Reducing the effects of shot noise using nanoparticles. Journal of Materials Chemistry C, 2015, 3, 955-959. | 5.5 | 5 |
| 11 | The Hydrophobic Surfactant Proteins Strongly Induce Lipid Curvature. FASEB Journal, 2015, 29, 1016.3. | 0.5 | 0 |
| 12 | The Effect of the Hydrophobic Surfactant Proteins on HII-Curvature Depends on the Cylindrical Radius. Biophysical Journal, 2014, 106, 295a-296a. | 0.5 | 0 |
| 13 | An Anionic Phospholipid Enables the Hydrophobic Surfactant Proteins to Alter Spontaneous Curvature. Biophysical Journal, 2013, 104, 594-603. | 0.5 | 16 |
| 14 | An Anionic Phospholipid Enables the Hydrophobic Surfactant Proteins to Alter Spontaneous Curvature. Biophysical Journal, 2013, 104, 91a. | 0.5 | 0 |
| 15 | Single component photoacid/photobase generators: potential applications in double patterning photolithography. Journal of Materials Chemistry C, 2013, 1, 2657. | 5.5 | 15 |
| 16 | Interaction of Hydrophobic Surfactant Proteins with Oriented Phospholipid Bilayers. Biophysical Journal, 2012, 102, 491a. | 0.5 | 0 |
| 17 | Anionic Phospholipids change the Effect of the Hydrophobic Surfactant Proteins on Structures of Hexagonal Lipids. Biophysical Journal, 2012, 102, 491a. | 0.5 | 0 |
| 18 | Differential Effects of the Hydrophobic Surfactant Proteins on the Formation of Inverse Bicontinuous Cubic Phases. Langmuir, 2012, 28, 16596-16604. | 3.5 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Positional control over nanoparticle deposition into nanoholes. , 2011, , . | | 0 |
| 20 | Photochemical reactivity of bis-carbamate photobase generators. , 2011, , . | | 0 |
| 21 | Coaxial tips for infrared NSOM. , 2011, , . | | 0 |
| 22 | Synthesis and characterization of N- and P- doped tin oxide nanowires. , 2011, , . | | 1 |
| 23 | The Accelerated Late Adsorption of Pulmonary Surfactant. Langmuir, 2011, 27, 4857-4866. | 3.5 | 14 |
| 24 | Effect of Hydrophobic Surfactant Proteins on the Structure of Oriented Lipid Bilayers. Biophysical Journal, 2011, 100, 509a. | 0.5 | 0 |
| 25 | The Hydrophobic Proteins of Pulmonary Surfactant Reduce Bilayer Elasticity. Biophysical Journal, 2011, 100, 547a. | 0.5 | 0 |
| 26 | The Pivotal Plane of Phosphatidylethanolamine is Unaffected by the Hydrophobic Surfactant Proteins. Biophysical Journal, 2011, 100, 337a. | 0.5 | 0 |
| 27 | Towards p-type conductivity in SnO<sub>2</sub>nanocrystals through Li doping. Nanotechnology, 2010, 21, 035708. | 2.6 | 19 |
| 28 | Facile pyrolytic synthesis of silicon nanowires. Solid-State Electronics, 2010, 54, 1185-1191. | 1.4 | 9 |
| 29 | Corrosion Behavior of Copper Thin Films in Organic HF-Containing Cleaning Solution for Semiconductor Applications. Journal of the Electrochemical Society, 2010, 157, C24. | 2.9 | 11 |
| 30 | The Hydrophobic Surfactant Proteins Induce Cubic Phases Without Altering Spontaneous Curvature. Biophysical Journal, 2010, 98, 280a. | 0.5 | 0 |
| 31 | Hydrophobic Surfactant Proteins Induce a Phosphatidylethanolamine to Form Cubic Phases. Biophysical Journal, 2010, 98, 1549-1557. | 0.5 | 32 |
| 32 | Copper Thin-Film Dissolution/Precipitation Kinetics in Organic HF Containing Cleaning Solution. Journal of the Electrochemical Society, 2010, 157, H801. | 2.9 | 3 |
| 33 | In Memory of Pierre-Gilles de Gennes. Journal of Physical Chemistry B, 2009, 113, 3591-3592. | 2.6 | 0 |
| 34 | Facile pyrolytic synthesis of silicon nanowires. , 2009, , . | | 1 |
| 35 | The Hydrophobic Surfactant Proteins Induce Cubic-Phase Formation in a Hii Forming Phospholipid. Biophysical Journal, 2009, 96, 360a. | 0.5 | 0 |
| 36 | Room temperature Cl<sub>2</sub>sensing using thick nanoporous films of Sb-doped SnO<sub>2</sub>. Nanotechnology, 2008, 19, 245501. | 2.6 | 50 |

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|---|---|---|---|
| 37 | Differential Effects of Lysophosphatidylcholine on the Adsorption of Phospholipids to an Air/Water Interface. Biophysical Journal, 2007, 92, 493-501. | 0.5 | 27 |
| 38 | Synthesis and characterization of lithium-doped tin dioxide nanocrystalline powders. Materials Chemistry and Physics, 2007, 102, 176-180. | 4.0 | 20 |
| 39 | Aromatic pentafluoro-Î»6-sulfanyl (SF5) surfactants: m-SF5(CF2)nC6H4SO3K. Mendeleev Communications, 2006, 16, 182-184. | 1.6 | 3 |
| 40 | Mechanisms of Aging of Antimony Doped Tin Oxide Based Electrochromic Devices. Japanese Journal of Applied Physics, 2006, 45, L1300-L1303. | 1.5 | 12 |
| 41 | Effects of gramicidin-A on the adsorption of phospholipids to the airâ€“water interface. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1717, 41-49. | 2.6 | 26 |
| 42 | SF5-Terminated Fluorinated Schiff Base Liquid Crystals. Journal of Physical Chemistry B, 2004, 108, 19940-19948. | 2.6 | 37 |
| 43 | Bolaamphiphilic Phosphocholines:Â Structure and Phase Behavior in Aqueous Mediaâ€. Langmuir, 2000, 16, 128-133. | 3.5 | 42 |
| 44 | Smectic-Aâ€“smectic-Câ€“smectic-C*multicritical point in ferroelectric liquid crystals. Physical Review Letters, 1994, 72, 3558-3561. | 7.8 | 17 |
| 45 | <title>Lifshitz point in ferroelectric liquid crystals</title>. , 1994, , . |  | 0 |
| 46 | Interdigitated smectic A and B mesophases in higher homologues of the 5O.<i>m</i>series. Liquid Crystals, 1993, 13, 757-764. | 2.2 | 25 |
| 47 | Critical fluctuations and molecular dynamics at liquidâ€crystalline phase transitions. II. Electron spin resonance experiments. Journal of Chemical Physics, 1992, 96, 3912-3938. | 3.0 | 16 |
| 48 | Tetraether bolaform amphiphiles as models of archaebacterial membrane lipids: Raman spectroscopy, phosphorus-31 NMR, x-ray scattering, and electron microscopy. Journal of the American Chemical Society, 1992, 114, 9035-9042. | 13.7 | 74 |
| 49 | Heisenberg spin exchange and molecular diffusion in liquid crystals. Journal of Chemical Physics, 1989, 91, 6887-6905. | 3.0 | 49 |
| 50 | Twoâ€dimensional electronâ€“electron double resonance and electron spinâ€“echo study of solute dynamics in smectics. Journal of Chemical Physics, 1989, 90, 5764-5786. | 3.0 | 43 |
| 51 | E.S.R. and D.S.C. investigations of phase transitions in polymorphic 4-<i>n</i>-alkoxybenzylidene-4â€²-<i>n</i>-alkylanilines. Liquid Crystals, 1988, 3, 957-976. | 2.2 | 24 |
| 52 | Nematic order near a tricritical nematic-smectic a phase transition. Chemical Physics Letters, 1987, 140, 255-262. | 2.6 | 34 |
| 53 | Solvation changes induced in a lyotropic lamellar liquid crystal containing solubilized benzene. Langmuir, 1986, 2, 373-375. | 3.5 | 6 |
| 54 | The mechanism of hydrotrope action of a dicarboxylic acid. Journal of Colloid and Interface Science, 1986, 109, 487-492. | 9.4 | 26 |

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|---|---|---|---|
| 55 | Solvent-Solute Interaction in an L<sub>Î±</sub> Phase Formed With Water, Ethylene Glycol and Lecithin. Molecular Crystals and Liquid Crystals, 1986, 133, 207-222. | 0.8 | 9 |
| 56 | Dynamic structure of n-hexadecane solubilized in a nonionic surfactant bilayer measured by deuteron magnetic resonance. Langmuir, 1985, 1, 24-28. | 3.5 | 8 |
| 57 | Alignment of a nonaqueous lyotropic liquid crystalline phase with lecithin. Journal of the American Chemical Society, 1984, 106, 1848-1849. | 13.7 | 8 |
| 58 | Molecular motion and phases in an equimolar phosphatidylcholine/ethylene glycol system. The Journal of Physical Chemistry, 1984, 88, 4015-4018. | 2.9 | 4 |