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	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
2	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
3	Room temperature Cl₂sensing using thick nanoporous films of Sb-doped SnO₂. Nanotechnology, 2008, 19, 245501.	2.6	50
4	Heisenberg spin exchange and molecular diffusion in liquid crystals. Journal of Chemical Physics, 1989, 91, 6887-6905.	3.0	49
5	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
6	Bolaamphiphilic Phosphocholines:Â Structure and Phase Behavior in Aqueous Mediaâ€. Langmuir, 2000, 16, 128-133.	3.5	42
7	SF5-Terminated Fluorinated Schiff Base Liquid Crystals. Journal of Physical Chemistry B, 2004, 108, 19940-19948.	2.6	37
8	Nematic order near a tricritical nematic-smectic a phase transition. Chemical Physics Letters, 1987, 140, 255-262.	2.6	34
9	Hydrophobic Surfactant Proteins Induce a Phosphatidylethanolamine to Form Cubic Phases. Biophysical Journal, 2010, 98, 1549-1557.	0.5	32
10	Differential Effects of Lysophosphatidylcholine on the Adsorption of Phospholipids to an Air/Water Interface. Biophysical Journal, 2007, 92, 493-501.	0.5	27
11	The mechanism of hydrotrope action of a dicarboxylic acid. Journal of Colloid and Interface Science, 1986, 109, 487-492.	9.4	26
12	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
13	Interdigitated smectic A and B mesophases in higher homologues of the 5O.mseries. Liquid Crystals, 1993, 13, 757-764.	2.2	25
14	E.S.R. and D.S.C. investigations of phase transitions in polymorphic 4-n-alkoxybenzylidene-4â€²-n-alkylanilines. Liquid Crystals, 1988, 3, 957-976.	2.2	24
15	Hydrophobic Surfactant Proteins Strongly Induce Negative Curvature. Biophysical Journal, 2015, 109, 95-105.	0.5	23
16	Differential Effects of the Hydrophobic Surfactant Proteins on the Formation of Inverse Bicontinuous Cubic Phases. Langmuir, 2012, 28, 16596-16604.	3.5	21
17	Synthesis and characterization of lithium-doped tin dioxide nanocrystalline powders. Materials Chemistry and Physics, 2007, 102, 176-180.	4.0	20
18	Towards p-type conductivity in SnO₂nanocrystals through Li doping. Nanotechnology, 2010, 21, 035708.	2.6	19

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19	Smectic-Aâ€“smectic-Câ€“smectic-C*multicritical point in ferroelectric liquid crystals. Physical Review Letters, 1994, 72, 3558-3561.	7.8	17
20	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
21	An Anionic Phospholipid Enables the Hydrophobic Surfactant Proteins to Alter Spontaneous Curvature. Biophysical Journal, 2013, 104, 594-603.	0.5	16
22	Single component photoacid/photobase generators: potential applications in double patterning photolithography. Journal of Materials Chemistry C, 2013, 1, 2657.	5.5	15
23	The Accelerated Late Adsorption of Pulmonary Surfactant. Langmuir, 2011, 27, 4857-4866.	3.5	14
24	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
25	Mechanisms of Aging of Antimony Doped Tin Oxide Based Electrochromic Devices. Japanese Journal of Applied Physics, 2006, 45, L1300-L1303.	1.5	12
26	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
27	The LÎ³ Phase of Pulmonary Surfactant. Langmuir, 2018, 34, 6601-6611.	3.5	10
28	Morphology-controlled copper nanowire synthesis and magnetic field assisted self-assembly. Nanoscale, 2019, 11, 2679-2686.	5.6	10
29	Solvent-Solute Interaction in an L_{Îą} Phase Formed With Water, Ethylene Glycol and Lecithin. Molecular Crystals and Liquid Crystals, 1986, 133, 207-222.	0.8	9
30	Facile pyrolytic synthesis of silicon nanowires. Solid-State Electronics, 2010, 54, 1185-1191.	1.4	9
31	Alignment of a nonaqueous lyotropic liquid crystalline phase with lecithin. Journal of the American Chemical Society, 1984, 106, 1848-1849.	13.7	8
32	Dynamic structure of n-hexadecane solubilized in a nonionic surfactant bilayer measured by deuteron magnetic resonance. Langmuir, 1985, 1, 24-28.	3.5	8
33	Solvation changes induced in a lyotropic lamellar liquid crystal containing solubilized benzene. Langmuir, 1986, 2, 373-375.	3.5	6
34	Controlled Deposition of Tin Oxide and Silver Nanoparticles Using Microcontact Printing. Crystals, 2015, 5, 116-142.	2.2	6
35	Reducing the effects of shot noise using nanoparticles. Journal of Materials Chemistry C, 2015, 3, 955-959.	5.5	5
36	Molecular motion and phases in an equimolar phosphatidylcholine/ethylene glycol system. The Journal of Physical Chemistry, 1984, 88, 4015-4018.	2.9	4

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37	Aromatic pentafluoro-Î»6-sulfanyl (SF5) surfactants: m-SF5(CF2)nC6H4SO3K. Mendeleev Communications, 2006, 16, 182-184.	1.6	3
38	Copper Thin-Film Dissolution/Precipitation Kinetics in Organic HF Containing Cleaning Solution. Journal of the Electrochemical Society, 2010, 157, H801.	2.9	3
39	Bubbling and foaming assisted clearing of mucin plugs in microfluidic Y-junctions. Journal of Biomechanics, 2017, 64, 1-7.	2.1	2
40	Facile pyrolytic synthesis of silicon nanowires. , 2009, , .		1
41	Synthesis and characterization of N- and P- doped tin oxide nanowires. , 2011, , .		1
42	<title>Lifshitz point in ferroelectric liquid crystals</title>. , 1994, , .		0
43	In Memory of Pierre-Gilles de Gennes. Journal of Physical Chemistry B, 2009, 113, 3591-3592.	2.6	0
44	The Hydrophobic Surfactant Proteins Induce Cubic-Phase Formation in a Hii Forming Phospholipid. Biophysical Journal, 2009, 96, 360a.	0.5	0
45	The Hydrophobic Surfactant Proteins Induce Cubic Phases Without Altering Spontaneous Curvature. Biophysical Journal, 2010, 98, 280a.	0.5	0
46	Positional control over nanoparticle deposition into nanoholes. , 2011, , .		0
47	Photochemical reactivity of bis-carbamate photobase generators. , 2011, , .		0
48	Coaxial tips for infrared NSOM. , 2011, , .		0
49	Effect of Hydrophobic Surfactant Proteins on the Structure of Oriented Lipid Bilayers. Biophysical Journal, 2011, 100, 509a.	0.5	0
50	The Hydrophobic Proteins of Pulmonary Surfactant Reduce Bilayer Elasticity. Biophysical Journal, 2011, 100, 547a.	0.5	0
51	The Pivotal Plane of Phosphatidylethanolamine is Unaffected by the Hydrophobic Surfactant Proteins. Biophysical Journal, 2011, 100, 337a.	0.5	0
52	Interaction of Hydrophobic Surfactant Proteins with Oriented Phospholipid Bilayers. Biophysical Journal, 2012, 102, 491a.	0.5	0
53	Anionic Phospholipids change the Effect of the Hydrophobic Surfactant Proteins on Structures of Hexagonal Lipids. Biophysical Journal, 2012, 102, 491a.	0.5	0
54	An Anionic Phospholipid Enables the Hydrophobic Surfactant Proteins to Alter Spontaneous Curvature. Biophysical Journal, 2013, 104, 91a.	0.5	0

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55	The Effect of the Hydrophobic Surfactant Proteins on HII-Curvature Depends on the Cylindrical Radius. Biophysical Journal, 2014, 106, 295a-296a.	0.5	0
56	The L-Gamma Phase of Pulmonary Surfactant. Biophysical Journal, 2017, 112, 84a.	0.5	0
57	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
58	The Hydrophobic Surfactant Proteins Strongly Induce Lipid Curvature. FASEB Journal, 2015, 29, 1016.3.	0.5	0