Sajal Kumar Ghosh

List of Publications by Year
in descending order

48 papers	739 citations	566801 15 h-index	580395 25 g-index
49 all docs	49 docs citations	49 times ranked	717 citing authors

#	Article	IF	Citations
1	Bioinspired micro/nano structured aluminum with multifaceted applications. Colloids and Surfaces B: Biointerfaces, 2022, 211, 112311.	2.5	16
2	1,3 Dialkylated Imidazolium Ionic Liquid Causes Interdigitated Domains in a Phospholipid Membrane. Langmuir, 2022, 38, 3412-3421.	1.6	7
3	Graphene oxide coated aluminium as an efficient antibacterial surface. Environmental Technology and Innovation, 2022, 28, 102591.	3.0	7
4	Green manufacturing of nanostructured Al-Based sustainable self-cleaning metallic surfaces. Journal of Cleaner Production, 2021, 278, 123373.	4.6	24
5	Unravelling the structural changes of phospholipid membranes in presence of graphene oxide. Applied Surface Science, 2021, 539, 148252.	3.1	10
6	Ionic Liquid-Induced Phase-Separated Domains in Lipid Multilayers Probed by X-ray Scattering Studies. ACS Omega, 2021, 6, 4977-4987.	1.6	10
7	High-Performance Organic Field-Effect Transistors Gated by Imidazolium-Based Ionic Liquids. ACS Applied Electronic Materials, 2021, 3, 1496-1504.	2.0	16
8	Thermodynamics and structure of model bio-membrane of liver lipids in presence of imidazolium-based ionic liquids. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183589.	1.4	10
9	Discerning perturbed assembly of lipids in a model membrane in presence of violacein. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183647.	1.4	7
10	Structured aluminium surfaces with tunable wettability fabricated by a green approach. Materials Letters, 2021, 300, 130186.	1.3	3
11	Interaction of cyclotide Kalata B1 protein with model cellular membranes of varied electrostatics. International Journal of Biological Macromolecules, 2021, 191, 852-860.	3.6	2
12	Self-Assembly of Graphene Oxide Nanoflakes in a Lipid Monolayer at the Airâ€“Water Interface. ACS Applied Materials & Interfaces, 2021, 13, 57023-57035.	4.0	9
13	Partitioning of a Hybrid Lipid in Domains of Saturated and Unsaturated Lipids in a Model Cellular Membrane. ACS Omega, 2021, 6, 34546-34554.	1.6	7
14	Imidazolium-based ionic liquids cause mammalian cell death due to modulated structures and dynamics of cellular membrane. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183103.	1.4	61
15	Surface Activities of a Lipid Analogue Room-Temperature Ionic Liquid and Its Effects on Phospholipid Membrane. Langmuir, 2020, 36, 328-339.	1.6	25
16	Relating the physical properties of aqueous solutions of ionic liquids with their chemical structures. European Physical Journal E, 2020, 43, 55.	0.7	11
17	Enhanced Microscopic Dynamics of a Liver Lipid Membrane in the Presence of an Ionic Liquid. Frontiers in Chemistry, 2020, 8, 577508.	1.8	12
18	Effect of topography and chemical treatment on the hydrophobicity and antibacterial activities of micropatterned aluminium surfaces. Surface Topography: Metrology and Properties, 2020, 8, 025017.	0.9	9

#	Article	IF	Citations
19	Co-existence of two lamellar phases in phospholipid multilayers induced by an ionic liquid. AIP Conference Proceedings, 2020, , .	0.3	0
20	Effect of ionic liquids on the structures of ripple phases of model cellular membranes. AIP Conference Proceedings, 2020, , .	0.3	1
21	Re-entrant direct hexagonal phases in a lyotropic system of surfactant induced by an ionic liquid. Liquid Crystals, 2019, 46, 1327-1339.	0.9	7
22	One-Dimensional Anomalous Diffusion of Gold Nanoparticles in a Polymer Melt. Physical Review Letters, 2019, 122, 107802.	2.9	15
23	Probing the effect of a room temperature ionic liquid on phospholipid membranes in multilamellar vesicles. European Biophysics Journal, 2019, 48, 119-129.	1.2	19
24	Investigation of the buried planar interfaces in multi-layered inverted organic solar cells using x-ray reflectivity and impedance spectroscopy. Journal of Physics Condensed Matter, 2019, 31, 124003.	0.7	2
25	Thermodynamics of interaction of ionic liquids with lipid monolayer. Biophysical Reviews, 2018, 10, 709-719.	1.5	36
26	Resistive switching behavior in oxygen ion irradiated TiO_{2â^'x}films. Journal Physics D: Applied Physics, 2018, 51, 065306.	1.3	15
27	Structural changes in cellular membranes induced by ionic liquids: From model to bacterial membranes. Chemistry and Physics of Lipids, 2018, 215, 1-10.	1.5	36
28	X-ray Reflectivity Study of the Interaction of an Imidazolium-Based Ionic Liquid with a Soft Supported Lipid Membrane. Langmuir, 2017, 33, 1295-1304.	1.6	61
29	Differential adsorption of a membrane skeletal protein, spectrin, in phospholipid membranes. Europhysics Letters, 2017, 118, 58002.	0.7	23
30	Effects of ionic liquids on the nanoscopic dynamics and phase behaviour of a phosphatidylcholine membrane. Soft Matter, 2017, 13, 8969-8979.	1.2	52
31	Probing electron density across Ar+ irradiation-induced self-organized TiO2â^'x nanochannels for memory application. Applied Physics Letters, 2016, 108, 244104.	1.5	15
32	Cholesterol Partition and Condensing Effect in Phase-Separated Ternary Mixture Lipid Multilayers. Biophysical Journal, 2016, 110, 1355-1366.	0.2	41
33	Anomalous partitioning of water in coexisting liquid phases of lipid multilayers near 100% relative humidity. Physical Chemistry Chemical Physics, 2016, 18, 1225-1232.	1.3	8
34	Accurate calibration and control of relative humidity close to 100% by X-raying a DOPC multilayer. Physical Chemistry Chemical Physics, 2015, 17, 3570-3576.	1.3	15
35	Logarithmic Domain Growth in Ternary Mixture Lipid Multilayer Systems. Biophysical Journal, 2014, 106, 96a.	0.2	0
36	Structure and Volta Potential of Lipid Multilayers: Effect of X-ray Irradiation. Langmuir, 2013, 29, 815-824.	1.6	5

#	Article	IF	Citations
37	Highly Resolved Structure of a Floating Lipid Bilayer: Effects of Calcium Ions and Temperatue. Biophysical Journal, 2013, 104, 548a.	0.2	0
38	Phase Separation in Model Membranes Controlled by Hybrid Lipids. Biophysical Journal, 2012, 102, 294a.	0.2	0
39	X-Ray Reflectivity and Diffuse Scattering Study of Effect of Ca2+ on Cushioned Lipid Bilayer. Biophysical Journal, 2012, 102, 382a.	0.2	0
40	Tuning DNA-amphiphile condensate architecture with strongly binding counterions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6394-6398.	3.3	8
41	Measuring Ca2+-Induced Structural Changes in Lipid Monolayers: Implications for Synaptic Vesicle Exocytosis. Biophysical Journal, 2012, 102, 1394-1402.	0.2	21
42	Effect of PIP₂ on Bilayer Structure and Phase Behavior of DOPC: An Xâ€ray Scattering Study. ChemPhysChem, 2011, 12, 2633-2640.	1.0	20
43	Synaptic Vesicles Studied by SAXS: Derivation and Validation of a Model Form Factor. Journal of Physics: Conference Series, 2010, 247, 012015.	0.3	11
44	In vitrostudy of interaction of synaptic vesicles with lipid membranes. New Journal of Physics, 2010, 12, 105004.	1.2	16
45	Structure of Mesh Phases in Cationic Surfactant Systems with Strongly Bound Counterions: Influence of the Surfactant Headgroup and the Counterion. Langmuir, 2009, 25, 2622-2628.	1.6	8
46	Re-entrant Phase Behavior of a Concentrated Anionic Surfactant System with Strongly Binding Counterions. Langmuir, 2009, 25, 8497-8506.	1.6	15
47	Structure of Mesh Phases in a Cationic Surfactant System with Strongly Bound Counterions. Langmuir, 2007, 23, 3606-3614.	1.6	13
48	Phase Behavior of Concentrated Aqueous Solutions of Cetyltrimethylammonium Bromide (CTAB) and Sodium Hydroxy Naphthoate (SHN). Langmuir, 2005, 21, 10439-10443.	1.6	30