

# Sajal Kumar Ghosh

## List of Publications by Year in descending order

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48  
papers

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citations

566801

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580395

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times ranked

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#	ARTICLE	IF	CITATIONS
1	X-ray Reflectivity Study of the Interaction of an Imidazolium-Based Ionic Liquid with a Soft Supported Lipid Membrane. <i>Langmuir</i> , 2017, 33, 1295-1304.	1.6	61
2	Imidazolium-based ionic liquids cause mammalian cell death due to modulated structures and dynamics of cellular membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183103.	1.4	61
3	Effects of ionic liquids on the nanoscopic dynamics and phase behaviour of a phosphatidylcholine membrane. <i>Soft Matter</i> , 2017, 13, 8969-8979.	1.2	52
4	Cholesterol Partition and Condensing Effect in Phase-Separated Ternary Mixture Lipid Multilayers. <i>Biophysical Journal</i> , 2016, 110, 1355-1366.	0.2	41
5	Thermodynamics of interaction of ionic liquids with lipid monolayer. <i>Biophysical Reviews</i> , 2018, 10, 709-719.	1.5	36
6	Structural changes in cellular membranes induced by ionic liquids: From model to bacterial membranes. <i>Chemistry and Physics of Lipids</i> , 2018, 215, 1-10.	1.5	36
7	Phase Behavior of Concentrated Aqueous Solutions of Cetyltrimethylammonium Bromide (CTAB) and Sodium Hydroxy Naphthoate (SHN). <i>Langmuir</i> , 2005, 21, 10439-10443.	1.6	30
8	Surface Activities of a Lipid Analogue Room-Temperature Ionic Liquid and Its Effects on Phospholipid Membrane. <i>Langmuir</i> , 2020, 36, 328-339.	1.6	25
9	Green manufacturing of nanostructured Al-Based sustainable self-cleaning metallic surfaces. <i>Journal of Cleaner Production</i> , 2021, 278, 123373.	4.6	24
10	Differential adsorption of a membrane skeletal protein, spectrin, in phospholipid membranes. <i>Europhysics Letters</i> , 2017, 118, 58002.	0.7	23
11	Measuring Ca <sup>2+</sup> -Induced Structural Changes in Lipid Monolayers: Implications for Synaptic Vesicle Exocytosis. <i>Biophysical Journal</i> , 2012, 102, 1394-1402.	0.2	21
12	Effect of PIP <sub>2</sub> on Bilayer Structure and Phase Behavior of DOPC: An X-ray Scattering Study. <i>ChemPhysChem</i> , 2011, 12, 2633-2640.	1.0	20
13	Probing the effect of a room temperature ionic liquid on phospholipid membranes in multilamellar vesicles. <i>European Biophysics Journal</i> , 2019, 48, 119-129.	1.2	19
14	<i>In vitro</i> study of interaction of synaptic vesicles with lipid membranes. <i>New Journal of Physics</i> , 2010, 12, 105004.	1.2	16
15	High-Performance Organic Field-Effect Transistors Gated by Imidazolium-Based Ionic Liquids. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1496-1504.	2.0	16
16	Bioinspired micro/nano structured aluminum with multifaceted applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 211, 112311.	2.5	16
17	Re-entrant Phase Behavior of a Concentrated Anionic Surfactant System with Strongly Binding Counterions. <i>Langmuir</i> , 2009, 25, 8497-8506.	1.6	15
18	Accurate calibration and control of relative humidity close to 100% by X-raying a DOPC multilayer. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3570-3576.	1.3	15

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19	Probing electron density across Ar <sup>+</sup> irradiation-induced self-organized TiO <sub>2</sub> nanochannels for memory application. <i>Applied Physics Letters</i> , 2016, 108, 244104.	1.5	15
20	Resistive switching behavior in oxygen ion irradiated TiO <sub>2</sub> films. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 065306.	1.3	15
21	One-Dimensional Anomalous Diffusion of Gold Nanoparticles in a Polymer Melt. <i>Physical Review Letters</i> , 2019, 122, 107802.	2.9	15
22	Structure of Mesh Phases in a Cationic Surfactant System with Strongly Bound Counterions. <i>Langmuir</i> , 2007, 23, 3606-3614.	1.6	13
23	Enhanced Microscopic Dynamics of a Liver Lipid Membrane in the Presence of an Ionic Liquid. <i>Frontiers in Chemistry</i> , 2020, 8, 577508.	1.8	12
24	Synaptic Vesicles Studied by SAXS: Derivation and Validation of a Model Form Factor. <i>Journal of Physics: Conference Series</i> , 2010, 247, 012015.	0.3	11
25	Relating the physical properties of aqueous solutions of ionic liquids with their chemical structures. <i>European Physical Journal E</i> , 2020, 43, 55.	0.7	11
26	Unravelling the structural changes of phospholipid membranes in presence of graphene oxide. <i>Applied Surface Science</i> , 2021, 539, 148252.	3.1	10
27	Ionic Liquid-Induced Phase-Separated Domains in Lipid Multilayers Probed by X-ray Scattering Studies. <i>ACS Omega</i> , 2021, 6, 4977-4987.	1.6	10
28	Thermodynamics and structure of model bio-membrane of liver lipids in presence of imidazolium-based ionic liquids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183589.	1.4	10
29	Effect of topography and chemical treatment on the hydrophobicity and antibacterial activities of micropatterned aluminium surfaces. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 025017.	0.9	9
30	Self-Assembly of Graphene Oxide Nanoflakes in a Lipid Monolayer at the Air-Water Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 57023-57035.	4.0	9
31	Structure of Mesh Phases in Cationic Surfactant Systems with Strongly Bound Counterions: Influence of the Surfactant Headgroup and the Counterion. <i>Langmuir</i> , 2009, 25, 2622-2628.	1.6	8
32	Tuning DNA-amphiphile condensate architecture with strongly binding counterions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6394-6398.	3.3	8
33	Anomalous partitioning of water in coexisting liquid phases of lipid multilayers near 100% relative humidity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1225-1232.	1.3	8
34	Re-entrant direct hexagonal phases in a lyotropic system of surfactant induced by an ionic liquid. <i>Liquid Crystals</i> , 2019, 46, 1327-1339.	0.9	7
35	Discerning perturbed assembly of lipids in a model membrane in presence of violacein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183647.	1.4	7
36	1,3 Dialkylated Imidazolium Ionic Liquid Causes Interdigitated Domains in a Phospholipid Membrane. <i>Langmuir</i> , 2022, 38, 3412-3421.	1.6	7

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37	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
38	Graphene oxide coated aluminium as an efficient antibacterial surface. Environmental Technology and Innovation, 2022, 28, 102591.	3.0	7
39	Structure and Volta Potential of Lipid Multilayers: Effect of X-ray Irradiation. Langmuir, 2013, 29, 815-824.	1.6	5
40	Structured aluminium surfaces with tunable wettability fabricated by a green approach. Materials Letters, 2021, 300, 130186.	1.3	3
41	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
42	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
43	Effect of ionic liquids on the structures of ripple phases of model cellular membranes. AIP Conference Proceedings, 2020, , .	0.3	1
44	Phase Separation in Model Membranes Controlled by Hybrid Lipids. Biophysical Journal, 2012, 102, 294a.	0.2	0
45	X-Ray Reflectivity and Diffuse Scattering Study of Effect of Ca <sup>2+</sup> on Cushioned Lipid Bilayer. Biophysical Journal, 2012, 102, 382a.	0.2	0
46	Highly Resolved Structure of a Floating Lipid Bilayer: Effects of Calcium Ions and Temperature. Biophysical Journal, 2013, 104, 548a.	0.2	0
47	Logarithmic Domain Growth in Ternary Mixture Lipid Multilayer Systems. Biophysical Journal, 2014, 106, 96a.	0.2	0
48	Co-existence of two lamellar phases in phospholipid multilayers induced by an ionic liquid. AIP Conference Proceedings, 2020, , .	0.3	0