

# Subhankur Mitra

## List of Publications by Year in descending order

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90  
papers

1,227  
citations

331670

21  
h-index

477307

29  
g-index

90  
all docs

90  
docs citations

90  
times ranked

916  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of ionic liquids on the nanoscopic dynamics and phase behaviour of a phosphatidylcholine membrane. <i>Soft Matter</i> , 2017, 13, 8969-8979.	2.7	52
2	Diffusion of Propane in Zeolite NaY: A Molecular Dynamics and Quasi-Elastic Neutron Scattering Study. <i>Journal of Physical Chemistry B</i> , 2003, 107, 527-533.	2.6	44
3	Internal Dynamics in SDS Micelles: Neutron Scattering Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 17049-17056.	2.6	42
4	Quasielastic neutron scattering facility at Dhruva reactor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 474, 55-66.	1.6	39
5	Thermodynamics of interaction of ionic liquids with lipid monolayer. <i>Biophysical Reviews</i> , 2018, 10, 709-719.	3.2	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.	3.2	36
7	Rotational dynamics of propane in Na-Y zeolite: A molecular dynamics and quasielastic neutron-scattering study. <i>Physical Review E</i> , 2002, 66, 061201.	2.1	35
8	Structure and Dynamics of Ionic Micelles: MD Simulation and Neutron Scattering Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5079-5086.	2.6	35
9	Direct Observation of Coupling between Structural Fluctuation and Ultrafast Hydration Dynamics of Fluorescent Probes in Anionic Micelles. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10849-10857.	2.6	34
10	QENS and FTIR studies on binding states of benzene molecules adsorbed in zeolite HZSM-5 at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4449-4455.	2.8	33
11	Diffusion of acetylene inside Na <sup>+</sup> Zeolite: Molecular dynamics simulation studies. <i>Physical Review E</i> , 2006, 74, 041202.	2.1	30
12	Dynamic Landscape in Self-Assembled Surfactant Aggregates. <i>Langmuir</i> , 2019, 35, 14151-14172.	3.5	30
13	The dynamical landscape in CTAB micelles. <i>Soft Matter</i> , 2012, 8, 7151.	2.7	29
14	Dynamics of absorbed water in saponite clay: Neutron scattering study. <i>Chemical Physics Letters</i> , 2006, 426, 296-300.	2.6	28
15	Dynamics in Anionic Micelles: Effect of Phenyl Ring. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6250-6255.	2.6	27
16	Effect of pore characteristics on the dynamics of cyclohexane molecules confined in ZSM-5 and MCM-41 molecular sieves: FTIR and QENS study. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 3066.	2.8	25
17	Surface Activities of a Lipid Analogue Room-Temperature Ionic Liquid and Its Effects on Phospholipid Membrane. <i>Langmuir</i> , 2020, 36, 328-339.	3.5	25
18	Diffusion of water in nanoporous NF polyamide membrane. <i>Chemical Physics Letters</i> , 2009, 478, 56-60.	2.6	23

#	ARTICLE	IF	CITATIONS
19	Enhancement of Lateral Diffusion in Catanionic Vesicles during Multilamellar-to-Unilamellar Transition. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3777-3784.	2.6	23
20	Dynamical Transitions and Diffusion Mechanism in DODAB Bilayer. <i>Scientific Reports</i> , 2018, 8, 1862.	3.3	23
21	Evolution of the alkyl-chain dynamics in monolayer-protected gold clusters. <i>Physical Review B</i> , 2007, 75, .	3.2	22
22	Molecular motions of benzene adsorbed in ZSM-5 zeolite: quasielastic neutron scattering study. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1308-s1310.	2.3	21
23	Dynamics of Adsorbed Hydrocarbon in Nanoporous Zeolite Framework. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8066-8072.	2.6	20
24	Transport Mechanism of Acetamide in Deep Eutectic Solvents. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1509-1520.	2.6	20
25	Dynamics of 1,3-butadiene adsorbed in Na-Y zeolite: A molecular dynamics simulation study. <i>Physical Review E</i> , 2008, 77, 061201.	2.1	19
26	Dynamical Features in Cationic Micelles of Varied Chain Length. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9007-9015.	2.6	19
27	Effects of Hydrotropic Salt on the Nanoscopic Dynamics of DTAB Micelles. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5562-5572.	2.6	19
28	Probing the effect of a room temperature ionic liquid on phospholipid membranes in multilamellar vesicles. <i>European Biophysics Journal</i> , 2019, 48, 119-129.	2.2	19
29	Diffusion of propylene adsorbed in Na-Y and Na-ZSM5 zeolites: Neutron scattering and FTIR studies. <i>Pramana - Journal of Physics</i> , 2008, 71, 1153-1157.	1.8	18
30	Rotational dynamics of propylene in ZSM-5 zeolitic frameworks. <i>Chemical Physics Letters</i> , 2011, 501, 345-350.	2.6	18
31	Solvation and transport of lithium ions in deep eutectic solvents. <i>Journal of Chemical Physics</i> , 2020, 153, 104505.	3.0	17
32	Fourier Transform Infrared and Quasi-Elastic Neutron Scattering Investigations on the Binding States and the Dynamics of Benzene Molecules in the Pores of MCM-41 Molecular Sieves. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10923-10929.	2.6	15
33	Dynamics of Propylene adsorbed in Na-Y and Na-ZSM5 Zeolites: A QENS and MD Simulation Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010, 224, 133-152.	2.8	15
34	Heterogeneity in Dynamics of Dioctadecyldimethylammonium Bromide Bilayers: Molecular Dynamics Simulation and Neutron Scattering Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20419-20430.	3.1	15
35	Dioctadecyldimethylammonium bromide, a surfactant model for the cell membrane: Importance of microscopic dynamics. <i>Structural Dynamics</i> , 2020, 7, 051301.	2.3	15
36	Molecular reorientations in liquid crystals pentyloxybenzylidene hexylanilene (PBHA) and butyloxybenzylidene octylanilene (BBOA). <i>Physical Review E</i> , 2004, 69, 061709.	2.1	14

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37	Acetylene diffusion in Na-Y zeolite. <i>Pramana - Journal of Physics</i> , 2004, 63, 449-453.	1.8	14
38	Diffusion of 1,3-butadiene adsorbed in Na <sup>+</sup> Y zeolite: Neutron scattering study. <i>Chemical Physics Letters</i> , 2007, 442, 311-315.	2.6	14
39	Fourier Transform Infrared and Quasielectron Neutron Scattering Studies on the Binding Modes of Methanol Molecules in the Confined Spaces of HMCM-41 and HZSM-5: A Role of Pore Structure and Surface Acid Sites. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4815-4823.	2.6	13
40	Molecular Mobility in Solid Sodium Dodecyl Sulfate. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9732-9738.	2.6	13
41	Dynamics of water in prussian blue analogues: Neutron scattering study. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	13
42	Modulation of Solvation and Molecular Recognition of a Lipid Bilayer under Dynamical Phase Transition. <i>ChemPhysChem</i> , 2018, 19, 2709-2716.	2.1	12
43	Diffusion of water adsorbed in hydrotalcite: neutron scattering Study. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012167.	0.4	11
44	Ionic Liquids Confined in Silica Ionogels: Structural, Thermal, and Dynamical Behaviors. <i>Entropy</i> , 2017, 19, 140.	2.2	11
45	Dynamics of water in synthetic saponite clays: Effect of trivalent ion substitution. <i>Physical Review E</i> , 2013, 87, 062317.	2.1	10
46	Diffusion of hydrocarbon in zeolite and effect due to pore topology: Neutron scattering and MD simulation studies. <i>Chemical Physics</i> , 2014, 430, 69-77.	1.9	10
47	Effects of NSAIDs on the Dynamics and Phase Behavior of DODAB Bilayers. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9962-9972.	2.6	10
48	Can the microscopic and macroscopic transport phenomena in deep eutectic solvents be reconciled?. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22854-22873.	2.8	10
49	Rotation of propane molecules in supercages of Na <sup>+</sup> Y zeolite. <i>Chemical Physics</i> , 2003, 292, 217-222.	1.9	9
50	Dynamics of different molecules adsorbed in porous media. <i>Pramana - Journal of Physics</i> , 2004, 63, 443-448.	1.8	9
51	Diffusion of acetylene embedded in Na <sup>+</sup> Y zeolite: QENS and MD simulation studies. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 275-278.	2.7	9
52	Diffusion of water in nano-porous polyamide membranes: Quasielastic neutron scattering study. <i>European Physical Journal: Special Topics</i> , 2010, 189, 217-221.	2.6	9
53	Dynamics in Acetamide+LiNO <sub>3</sub> Deep Eutectic Solvents. <i>Physica B: Condensed Matter</i> , 2019, 562, 13-16.	2.7	9
54	Excess water dynamics in hydrotalcite: QENS study. <i>Pramana - Journal of Physics</i> , 2004, 63, 437-441.	1.8	8

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55	Diffusion of confined fluids in microporous zeolites and clay materials. Reports on Progress in Physics, 2021, 84, 066501.	20.1	8
56	Water accelerates the hydrogen-bond dynamics and abates heterogeneity in deep eutectic solvent based on acetamide and lithium perchlorate. Journal of Chemical Physics, 2021, 155, 024505.	3.0	8
57	Diffusion of water in molecular magnet $\text{Cu}_{0.75}\text{Mn}_{0.75}[\text{Fe}(\text{CN})_6]_x\text{H}_2\text{O}$ . Journal of Physics Condensed Matter, 2011, 23, 446002.	1.8	6
58	An investigation of morphological, microscopic dynamics, fluidity, and physicochemical variations in Cu-decorated metallosomes with cholesterol. Journal of Molecular Liquids, 2020, 318, 114034.	4.9	6
59	Caffeine modulates the dynamics of DODAB membranes: Role of the physical state of the bilayer. Journal of Applied Physics, 2020, 128, .	2.5	6
60	Dynamics of propane in Na-Y zeolite. Applied Physics A: Materials Science and Processing, 2002, 74, s1317-s1319.	2.3	5
61	Effect of guest-host interaction on the dynamics of ethylene glycol in H-ZSM5 zeolite. European Physical Journal: Special Topics, 2010, 189, 273-277.	2.6	5
62	Effect of Surface Passivation in Spinel Slurry Toward Hydrolysis: Neutron Scattering and Rheological Studies. Journal of Dispersion Science and Technology, 2014, 35, 1442-1448.	2.4	5
63	Quasi-elastic neutron scattering study of dynamics in condensed matter. Pramana - Journal of Physics, 2004, 63, 81-89.	1.8	4
64	Phase transitions in liquid crystal 6O.4 (p-n-hexyloxybenzylidene-p $\alpha$ -n-butylaniline). Pramana - Journal of Physics, 2008, 71, 1159-1164.	1.8	4
65	Molecular motion in restricted geometries. Pramana - Journal of Physics, 2008, 71, 809-818.	1.8	4
66	Diffusion of Water in Bentonite Clay. Journal of the Physical Society of Japan, 2013, 82, SA008.	1.6	4
67	Nanoscope dynamics in hybrid hydroxyapatite-CTAB composite. Journal of Applied Physics, 2017, 121, 245105.	2.5	4
68	Dynamical landscape in DODAB membrane system: MD simulation & neutron scattering studies. Physica B: Condensed Matter, 2019, 562, 55-58.	2.7	4
69	Microscopic insights on the structural and dynamical aspects of Imidazolium-based surface active ionic liquid micelles. Journal of Molecular Liquids, 2021, 332, 115722.	4.9	4
70	Dynamics of confined water in porous alumina: neutron-scattering study. Applied Physics A: Materials Science and Processing, 2002, 74, s1314-s1316.	2.3	3
71	Evolution of water dynamics in the Prussian blue. EPJ Web of Conferences, 2015, 83, 02012.	0.3	3
72	Microscopic diffusion in cationic vesicles across different phases. Physical Review Materials, 2022, 6, .	2.4	3

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73	Transport of acetylene adsorbed in CuBTC metal organic framework. European Physical Journal B, 2013, 86, 1.	1.5	2
74	Dynamics of Molecular Species in Confined Geometry. Journal of the Physical Society of Japan, 2013, 82, SA006.	1.6	2
75	Molecular dynamics of acetamide based ionic deep eutectic solvents. AIP Conference Proceedings, 2018, , .	0.4	2
76	Order-disorder transition in pyridinium iodide: QENS study. Applied Physics A: Materials Science and Processing, 2002, 74, s1311-s1313.	2.3	1
77	Chain Melting In Alkanethiol Protected Nano-Metal Clusters And Layered Thiolates. , 2010, , .		1
78	Dynamics of Water Confined in Saponite Clay. Journal of the Physical Society of Japan, 2013, 82, SA009.	1.6	1
79	Diffusion of water in bentonite clay: Neutron scattering study. , 2013, , .		1
80	Molecular dynamics simulation studies on ethane and acetylene mixture in CuBTC metal organic framework. , 2014, , .		1
81	Dynamics in polyvinyl alcohol-borax based hydrogel doped with carbonyl iron: Quasielastic neutron scattering study. AIP Conference Proceedings, 2019, , .	0.4	1
82	Molecular motions in condensed matter: Quasielastic neutron scattering studies at Dhruva. Neutron News, 2002, 13, 29-32.	0.2	0
83	Effect Of Zeolite Structure On The Rotational Motion Of Adsorbed Hydrocarbon. , 2010, , .		0
84	Evolution in Chain Dynamics in Sodium Dodecyl Sulphate. , 2011, , .		0
85	Dynamics of Water Confined in Synthetic Saponite Clays. , 2011, , .		0
86	Diffusion of acetylene inside the Cu-BTC metal organic framework. , 2012, , .		0
87	Pore topology and diffusion of acetylene in CuBTC metal organic framework. , 2013, , .		0
88	Dynamical motion in SDBS micelles. , 2013, , .		0
89	Dynamics of fluids in nanoscopic regimes. Neutron News, 2014, 25, 38-41.	0.2	0
90	Nanosopic diffusive dynamics in bio-mimetic membrane systems. AIP Conference Proceedings, 2020, , .	0.4	0