Subhankur Mitra

List of Publications by Year
in descending order

90	1,227	331670	477307
papers	citations	21 h-index	29 g-index

90	90	90	916
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microscopic diffusion in cationic vesicles across different phases. Physical Review Materials, 2022, 6, .	2.4	3
2	Can the microscopic and macroscopic transport phenomena in deep eutectic solvents be reconciled?. Physical Chemistry Chemical Physics, 2021, 23, 22854-22873.	2.8	10
3	Diffusion of confined fluids in microporous zeolites and clay materials. Reports on Progress in Physics, 2021, 84, 066501.	20.1	8
4	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
5	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
6	Surface Activities of a Lipid Analogue Room-Temperature Ionic Liquid and Its Effects on Phospholipid Membrane. Langmuir, 2020, 36, 328-339.	3.5	25
7	Transport Mechanism of Acetamide in Deep Eutectic Solvents. Journal of Physical Chemistry B, 2020, 124, 1509-1520.	2.6	20
8	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
9	Caffeine modulates the dynamics of DODAB membranes: Role of the physical state of the bilayer. Journal of Applied Physics, 2020, 128, .	2.5	6
10	Dioctadecyldimethylammonium bromide, a surfactant model for the cell membrane: Importance of microscopic dynamics. Structural Dynamics, 2020, 7, 051301.	2.3	15
11	Solvation and transport of lithium ions in deep eutectic solvents. Journal of Chemical Physics, 2020, 153, 104505.	3.0	17
12	Nanoscopic diffusive dynamics in bio-mimetic membrane systems. AIP Conference Proceedings, 2020, , .	0.4	0
13	Dynamics in polyvinyl alcohol-borax based hydrogel doped with carbonyl iron: Quasielastic neutron scattering study. AIP Conference Proceedings, 2019, , .	0.4	1
14	Dynamical landscape in DODAB membrane system: MD simulation & neutron scattering studies. Physica B: Condensed Matter, 2019, 562, 55-58.	2.7	4
15	Dynamics in Acetamide+LiNO3 Deep Eutectic Solvents. Physica B: Condensed Matter, 2019, 562, 13-16.	2.7	9
16	Dynamic Landscape in Self-Assembled Surfactant Aggregates. Langmuir, 2019, 35, 14151-14172.	3.5	30
17	Probing the effect of a room temperature ionic liquid on phospholipid membranes in multilamellar vesicles. European Biophysics Journal, 2019, 48, 119-129.	2.2	19
18	Dynamical Transitions and Diffusion Mechanism in DODAB Bilayer. Scientific Reports, 2018, 8, 1862.	3.3	23

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19	Thermodynamics of interaction of ionic liquids with lipid monolayer. Biophysical Reviews, 2018, 10, 709-719.	3.2	36
20	Molecular dynamics of acetamide based ionic deep eutectic solvents. AIP Conference Proceedings, 2018, , .	0.4	2
21	Effects of NSAIDs on the Dynamics and Phase Behavior of DODAB Bilayers. Journal of Physical Chemistry B, 2018, 122, 9962-9972.	2.6	10
22	Structural changes in cellular membranes induced by ionic liquids: From model to bacterial membranes. Chemistry and Physics of Lipids, 2018, 215, 1-10.	3.2	36
23	Modulation of Solvation and Molecular Recognition of a Lipid Bilayer under Dynamical Phase Transition. ChemPhysChem, 2018, 19, 2709-2716.	2.1	12
24	Heterogeneity in Dynamics of Dioctadecyldimethylammonium Bromide Bilayers: Molecular Dynamics Simulation and Neutron Scattering Study. Journal of Physical Chemistry C, 2018, 122, 20419-20430.	3.1	15
25	Effects of Hydrotropic Salt on the Nanoscopic Dynamics of DTAB Micelles. Journal of Physical Chemistry B, 2017, 121, 5562-5572.	2.6	19
26	Effects of ionic liquids on the nanoscopic dynamics and phase behaviour of a phosphatidylcholine membrane. Soft Matter, 2017, 13, 8969-8979.	2.7	52
27	Nanoscopic dynamics in hybrid hydroxyapatite-CTAB composite. Journal of Applied Physics, 2017, 121, 245105.	2.5	4
28	Ionic Liquids Confined in Silica Ionogels: Structural, Thermal, and Dynamical Behaviors. Entropy, 2017, 19, 140.	2.2	11
29	Enhancement of Lateral Diffusion in Catanionic Vesicles during Multilamellar-to-Unilamellar Transition. Journal of Physical Chemistry B, 2016, 120, 3777-3784.	2.6	23
30	Evolution of water dynamics in the Prussian blue. EPJ Web of Conferences, 2015, 83, 02012.	0.3	3
31	Direct Observation of Coupling between Structural Fluctuation and Ultrafast Hydration Dynamics of Fluorescent Probes in Anionic Micelles. Journal of Physical Chemistry B, 2015, 119, 10849-10857.	2.6	34
32	Structure and Dynamics of Ionic Micelles: MD Simulation and Neutron Scattering Study. Journal of Physical Chemistry B, 2015, 119, 5079-5086.	2.6	35
33	Molecular dynamics simulation studies on ethane and acetylene mixture in CuBTC metal organic framework. , 2014, , .		1
34	Dynamics of water in prussian blue analogues: Neutron scattering study. Journal of Applied Physics, 2014, 116, .	2.5	13
35	Dynamics of fluids in nanoscopic regimes. Neutron News, 2014, 25, 38-41.	0.2	0
36	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

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37	Diffusion of hydrocarbon in zeolite and effect due to pore topology: Neutron scattering and MD simulation studies. Chemical Physics, 2014, 430, 69-77.	1.9	10
38	Transport of acetylene adsorbed in CuBTC metal organic framework. European Physical Journal B, 2013, 86, 1.	1.5	2
39	Dynamics in Anionic Micelles: Effect of Phenyl Ring. Journal of Physical Chemistry B, 2013, 117, 6250-6255.	2.6	27
40	Dynamics of Molecular Species in Confined Geometry. Journal of the Physical Society of Japan, 2013, 82, SA006.	1.6	2
41	Dynamics of Water Confined in Saponite Clay. Journal of the Physical Society of Japan, 2013, 82, SA009.	1.6	1
42	Diffusion of Water in Bentonite Clay. Journal of the Physical Society of Japan, 2013, 82, SA008.	1.6	4
43	Dynamics of water in synthetic saponite clays: Effect of trivalent ion substitution. Physical Review E, 2013, 87, 062317.	2.1	10
44	Diffusion of water in bentonite clay: Neutron scattering study. , 2013, , .		1
45	Pore topology and diffusion of acetylene in CuBTC metal organic framework. , 2013, , .		0
46	Dynamical motion in SDBS micelles. , 2013, , .		0
47	The dynamical landscape in CTAB micelles. Soft Matter, 2012, 8, 7151.	2.7	29
48	Dynamical Features in Cationic Micelles of Varied Chain Length. Journal of Physical Chemistry B, 2012, 116, 9007-9015.	2.6	19
49	Diffusion of acetylene inside the Cu-BTC metal organic framework. , 2012, , .		0
50	Molecular Mobility in Solid Sodium Dodecyl Sulfate. Journal of Physical Chemistry B, 2011, 115, 9732-9738.	2.6	13
51	Evolution in Chain Dynamics in Sodium Dodecyl Sulphate. , 2011, , .		0
52	Rotational dynamics of propylene in ZSM-5 zeolitic frameworks. Chemical Physics Letters, 2011, 501, 345-350.	2.6	18
53	Dynamics of Water Confined in Synthetic Saponite Clays. , 2011, , .		0
54	Diffusion of water in molecular magnet Cu_{0.75}Mn_{0.75}[Fe(CN)₆]â‹…7H₂O. Journal of Physics Condensed Matter, 2011, 23, 446002.	1.8	6

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55	Diffusion of water in nano-porous polyamide membranes: Quasielastic neutron scattering study. European Physical Journal: Special Topics, 2010, 189, 217-221.	2.6	9
56	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
57	Effect Of Zeolite Structure On The Rotational Motion Of Adsorbed Hydrocarbon. , 2010, , .		0
58	Dynamics of Propylene adsorbed in Na-Y and Na-ZSM5 Zeolites: A QENS and MD Simulation Study. Zeitschrift Fur Physikalische Chemie, 2010, 224, 133-152.	2.8	15
59	Chain Melting In Alkanethiol Protected Nano-Metal Clusters And Layered Thiolates. , 2010, , .		1
60	Internal Dynamics in SDS Micelles: Neutron Scattering Study. Journal of Physical Chemistry B, 2010, 114, 17049-17056.	2.6	42
61	Diffusion of water in nanoporous NF polyamide membrane. Chemical Physics Letters, 2009, 478, 56-60.	2.6	23
62	Dynamics of Adsorbed Hydrocarbon in Nanoporous Zeolite Framework. Journal of Physical Chemistry B, 2009, 113, 8066-8072.	2.6	20
63	Diffusion of propylene adsorbed in Na-Y and Na-ZSM5 zeolites: Neutron scattering and FTIR studies. Pramana - Journal of Physics, 2008, 71, 1153-1157.	1.8	18
64	Phase transitions in liquid crystal 6O.4 (p-n-hexyloxybenzylidine-pâ€²-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	Dynamics of 1,3-butadiene adsorbed in Na-Y zeolite: A molecular dynamics simulation study. Physical Review E, 2008, 77, 061201.	2.1	19
67	Evolution of the alkyl-chain dynamics in monolayer-protected gold clusters. Physical Review B, 2007, 75, .	3.2	22
68	Diffusion of water adsorbed in hydrotalcite: neutron scattering Study. Journal of Physics: Conference Series, 2007, 92, 012167.	0.4	11
69	Diffusion of 1,3-butadiene adsorbed in Naâ€“Y zeolite: Neutron scattering study. Chemical Physics Letters, 2007, 442, 311-315.	2.6	14
70	Diffusion of acetylene insideNaâ^'Yzeolite: Molecular dynamics simulation studies. Physical Review E, 2006, 74, 041202.	2.1	30
71	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:Â Role of Pore Structure and Surface Acid Sites. Journal of Physical Chemistry B, 2006, 110, 4815-4823.	2.6	13
72	Dynamics of absorbed water in saponite clay: Neutron scattering study. Chemical Physics Letters, 2006, 426, 296-300.	2.6	28

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73	Diffusion of acetylene embedded in Naâ€“Y zeolite: QENS and MD simulation studies. Physica B: Condensed Matter, 2006, 385-386, 275-278.	2.7	9
74	Molecular reorientations in liquid crystals pentyloxybenzylidine hexylanilene (PBHA) and butyloxybenzylidine octylanilene (BBOA). Physical Review E, 2004, 69, 061709.	2.1	14
75	Quasi-elastic neutron scattering study of dynamics in condensed matter. Pramana - Journal of Physics, 2004, 63, 81-89.	1.8	4
76	Excess water dynamics in hydrotalcite: QENS study. Pramana - Journal of Physics, 2004, 63, 437-441.	1.8	8
77	Dynamics of different molecules adsorbed in porous media. Pramana - Journal of Physics, 2004, 63, 443-448.	1.8	9
78	Acetylene diffusion in Na-Y zeolite. Pramana - Journal of Physics, 2004, 63, 449-453.	1.8	14
79	Rotation of propane molecules in supercages of Naâ€“Y zeolite. Chemical Physics, 2003, 292, 217-222.	1.9	9
80	Diffusion of Propane in Zeolite NaY: A Molecular Dynamics and Quasi-Elastic Neutron Scattering Study. Journal of Physical Chemistry B, 2003, 107, 527-533.	2.6	44
81	Effect of pore characteristics on the dynamics of cyclohexane molecules confined in ZSM-5 and MCM-41 molecular sieves: FTIR and QENS study. Physical Chemistry Chemical Physics, 2003, 5, 3066.	2.8	25
82	Rotational dynamics of propane in Na-Y zeolite: A molecular dynamics and quasielastic neutron-scattering study. Physical Review E, 2002, 66, 061201.	2.1	35
83	Molecular motions in condensed matter: Quasielastic neutron scattering studies at Dhruva. Neutron News, 2002, 13, 29-32.	0.2	0
84	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. Journal of Physical Chemistry B, 2002, 106, 10923-10929.	2.6	15
85	Order-disorder transition in pyridinium iodide: QENS study. Applied Physics A: Materials Science and Processing, 2002, 74, s1311-s1313.	2.3	1
86	Dynamics of propane in Na-Y zeolite. Applied Physics A: Materials Science and Processing, 2002, 74, s1317-s1319.	2.3	5
87	Molecular motions of benzene adsorbed in ZSM-5 zeolite: quasielastic neutron scattering study. Applied Physics A: Materials Science and Processing, 2002, 74, s1308-s1310.	2.3	21
88	Dynamics of confined water in porous alumina: neutron-scattering study. Applied Physics A: Materials Science and Processing, 2002, 74, s1314-s1316.	2.3	3
89	QENS and FTIR studies on binding states of benzene molecules adsorbed in zeolite HZSM-5 at room temperature. Physical Chemistry Chemical Physics, 2001, 3, 4449-4455.	2.8	33
90	Quasielastic neutron scattering facility at Dhruva reactor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 474, 55-66.	1.6	39