Anupam Sengupta

List of Publications by Year
in descending order

30 papers	832 citations	516710 16 h-index	501196 28 g-index
35 all docs	35 docs citations	35 times ranked	742 citing authors

#	Article	IF	Citations
1	Self-regulation of phenotypic noise synchronizes emergent organization and active transport in confluent microbial environments. Nature Physics, 2022, 18, 945-951.	16.7	9
2	Surface anchoring mediates bifurcation in nematic microflows within cylindrical capillaries. Physics of Fluids, 2021, 33, .	4.0	10
3	Bistability in oxidative stress response determines the migration behavior of phytoplankton in turbulence. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
4	Time Dependent Lyotropic Chromonic Textures in Microfluidic Confinements. Crystals, 2021, 11, 35.	2.2	10
5	Novel optofluidic concepts enabled by topological microfluidics-INVITED. EPJ Web of Conferences, 2021, 255, 10002.	0.3	0
6	Microbial Active Matter: A Topological Framework. Frontiers in Physics, 2020, 8, .	2.1	12
7	Liquid Crystals at Interfaces and Under Flow: Recent Advances and Trends. , 2020, , 183-226.		0
8	Mono- to Multilayer Transition in Growing Bacterial Colonies. Physical Review Letters, 2019, 123, 178001.	7.8	28
9	Emergent biaxiality in nematic microflows illuminated by a laser beam. Molecular Physics, 2019, 117, 3715-3733.	1.7	8
10	Dark aerobic sulfide oxidation by anoxygenic phototrophs in anoxic waters. Environmental Microbiology, 2019, 21, 1611-1626.	3.8	27
11	Geometry and Mechanics of Microdomains in Growing Bacterial Colonies. Physical Review X, 2018, 8, .	8.9	37
12	Hydrodynamic cavitation in Stokes flow of anisotropic fluids. Nature Communications, 2017, 8, 15550.	12.8	23
13	Phytoplankton can actively diversify their migration strategy in response to turbulent cues. Nature, 2017, 543, 555-558.	27.8	113
14	Cross-talk between topological defects in different fields revealed by nematic microfluidics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5771-E5777.	7.1	52
15	Bacteriaâ€induced mixing in natural waters. Geophysical Research Letters, 2017, 44, 9424-9432.	4.0	38
16	Topological microfluidics: present and prospects. Liquid Crystals Today, 2015, 24, 70-80.	2.3	18
17	Liquid crystal microfluidics: surface, elastic and viscous interactions at microscales. Liquid Crystals Reviews, 2014, 2, 73-110.	4.1	92
18	Topological constraints in a microfluidic platform. Liquid Crystals, 2014, 41, 290-301.	2.2	12

#	Article	IF	Citations
19	Topological Microfluidics. Springer Theses, 2013, , .	0.1	18
20	Liquid Crystal Microfluidics for Tunable Flow Shaping. Physical Review Letters, 2013, 110, 048303.	7.8	94
21	Flow of a nematogen past a cylindrical micro-pillar. Soft Matter, 2013, 9, 1937-1946.	2.7	26
22	Topological microfluidics for flexible micro-cargo concepts. Soft Matter, 2013, 9, 7251.	2.7	50
23	Tuning Fluidic Resistance via Liquid Crystal Microfluidics. International Journal of Molecular Sciences, 2013, 14, 22826-22844.	4.1	19
24	Nematic Colloids in Microfluidic Confinement. Springer Theses, 2013, , 137-144.	0.1	2
25	Flow of Nematic Liquid Crystals in a Microfluidic Environment. Springer Theses, 2013, , 83-135.	0.1	2
26	Materials and Experimental Methods. Springer Theses, 2013, , 37-51.	0.1	0
27	Opto-fluidic velocimetry using liquid crystal microfluidics. Applied Physics Letters, 2012, 101, .	3.3	25
28	Functionalization of microfluidic devices for investigation of liquid crystal flows. Microfluidics and Nanofluidics, 2012, 13, 941-955.	2.2	41
29	Nematic textures in microfluidic environment. Soft Matter, 2011, 7, 6542.	2.7	45
30	Nematic Liquid Crystals and Nematic Colloids in Microfluidic Environment. Molecular Crystals and Liquid Crystals, 2011, 547, 203/[1893]-212/[1902].	0.9	6