Anupam Sengupta

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/283551/publications.pdf

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30	832	516710 16	501196 28
papers	citations	h-index	g-index

35	35	35	742
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phytoplankton can actively diversify their migration strategy in response to turbulent cues. Nature, 2017, 543, 555-558.	27.8	113
2	Liquid Crystal Microfluidics for Tunable Flow Shaping. Physical Review Letters, 2013, 110, 048303.	7.8	94
3	Liquid crystal microfluidics: surface, elastic and viscous interactions at microscales. Liquid Crystals Reviews, 2014, 2, 73-110.	4.1	92
4	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
5	Topological microfluidics for flexible micro-cargo concepts. Soft Matter, 2013, 9, 7251.	2.7	50
6	Nematic textures in microfluidic environment. Soft Matter, 2011, 7, 6542.	2.7	45
7	Functionalization of microfluidic devices for investigation of liquid crystal flows. Microfluidics and Nanofluidics, 2012, 13, 941-955.	2.2	41
8	Bacteriaâ€induced mixing in natural waters. Geophysical Research Letters, 2017, 44, 9424-9432.	4.0	38
9	Geometry and Mechanics of Microdomains in Growing Bacterial Colonies. Physical Review X, 2018, 8, .	8.9	37
10	Mono- to Multilayer Transition in Growing Bacterial Colonies. Physical Review Letters, 2019, 123, 178001.	7.8	28
11	Dark aerobic sulfide oxidation by anoxygenic phototrophs in anoxic waters. Environmental Microbiology, 2019, 21, 1611-1626.	3.8	27
12	Flow of a nematogen past a cylindrical micro-pillar. Soft Matter, 2013, 9, 1937-1946.	2.7	26
13	Opto-fluidic velocimetry using liquid crystal microfluidics. Applied Physics Letters, 2012, 101, .	3.3	25
14	Hydrodynamic cavitation in Stokes flow of anisotropic fluids. Nature Communications, 2017, 8, 15550.	12.8	23
15	Tuning Fluidic Resistance via Liquid Crystal Microfluidics. International Journal of Molecular Sciences, 2013, 14, 22826-22844.	4.1	19
16	Topological Microfluidics. Springer Theses, 2013, , .	0.1	18
17	Topological microfluidics: present and prospects. Liquid Crystals Today, 2015, 24, 70-80.	2.3	18
18	Topological constraints in a microfluidic platform. Liquid Crystals, 2014, 41, 290-301.	2.2	12

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19	Microbial Active Matter: A Topological Framework. Frontiers in Physics, 2020, 8, .	2.1	12
20	Surface anchoring mediates bifurcation in nematic microflows within cylindrical capillaries. Physics of Fluids, 2021, 33, .	4.0	10
21	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
22	Time Dependent Lyotropic Chromonic Textures in Microfluidic Confinements. Crystals, 2021, 11, 35.	2.2	10
23	Self-regulation of phenotypic noise synchronizes emergent organization and active transport in confluent microbial environments. Nature Physics, 2022, 18, 945-951.	16.7	9
24	Emergent biaxiality in nematic microflows illuminated by a laser beam. Molecular Physics, 2019, 117, 3715-3733.	1.7	8
25	Nematic Liquid Crystals and Nematic Colloids in Microfluidic Environment. Molecular Crystals and Liquid Crystals, 2011, 547, 203/[1893]-212/[1902].	0.9	6
26	Nematic Colloids in Microfluidic Confinement. Springer Theses, 2013, , 137-144.	0.1	2
27	Flow of Nematic Liquid Crystals in a Microfluidic Environment. Springer Theses, 2013, , 83-135.	0.1	2
28	Materials and Experimental Methods. Springer Theses, 2013, , 37-51.	0.1	0
29	Liquid Crystals at Interfaces and Under Flow: Recent Advances and Trends. , 2020, , 183-226.		0
30	Novel optofluidic concepts enabled by topological microfluidics-INVITED. EPJ Web of Conferences, 2021, 255, 10002.	0.3	0