

Arnold Jâ€™tâ€™em Mathijssen

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

732
citations

471371

17
h-index

752573

20
g-index

22
all docs

22
docs citations

22
times ranked

994
citing authors

#	ARTICLE	IF	CITATIONS
1	Upstream Swimming in Microbiological Flows. <i>Physical Review Letters</i> , 2016, 116, 028104.	2.9	84
2	Oscillatory surface rheotaxis of swimming <i>E. coli</i> bacteria. <i>Nature Communications</i> , 2019, 10, 3434.	5.8	73
3	Hydrodynamics of micro-swimmers in films. <i>Journal of Fluid Mechanics</i> , 2016, 806, 35-70.	1.4	65
4	Extended parameterisations for MSTW PDFs and their effect on lepton charge asymmetry from <i>W</i> decays. <i>European Physical Journal C</i> , 2013, 73, 1.	1.4	55
5	Collective intercellular communication through ultra-fast hydrodynamic trigger waves. <i>Nature</i> , 2019, 571, 560-564.	13.7	52
6	Multi-scale spatial heterogeneity enhances particle clearance in airway ciliary arrays. <i>Nature Physics</i> , 2020, 16, 958-964.	6.5	52
7	Lattice-Boltzmann hydrodynamics of anisotropic active matter. <i>Journal of Chemical Physics</i> , 2016, 144, 134106.	1.2	40
8	Tracer trajectories and displacement due to a micro-swimmer near a surface. <i>Journal of Fluid Mechanics</i> , 2015, 773, 498-519.	1.4	37
9	Nutrient Transport Driven by Microbial Active Carpets. <i>Physical Review Letters</i> , 2018, 121, 248101.	2.9	33
10	Collective Entrainment and Confinement Amplify Transport by Schooling Microswimmers. <i>Physical Review Letters</i> , 2021, 127, 088006.	2.9	31
11	Amphibious Transport of Fluids and Solids by Soft Magnetic Carpets. <i>Advanced Science</i> , 2021, 8, e2102510.	5.6	31
12	Hotspots of boundary accumulation: dynamics and statistics of micro-swimmers in flowing films. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20150936.	1.5	28
13	State diagram of a three-sphere microswimmer in a channel. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 254004.	0.7	27
14	Universal entrainment mechanism controls contact times with motile cells. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	27
15	Understanding the onset of oscillatory swimming in microchannels. <i>Soft Matter</i> , 2016, 12, 4704-4708.	1.2	25
16	Membrane penetration and trapping of an active particle. <i>Journal of Chemical Physics</i> , 2019, 150, 064906.	1.2	22
17	Towards an analytical description of active microswimmers in clean and in surfactant-covered drops. <i>European Physical Journal E</i> , 2020, 43, 58.	0.7	17
18	Active carpets drive non-equilibrium diffusion and enhanced molecular fluxes. <i>Nature Communications</i> , 2021, 12, 1906.	5.8	14

#	ARTICLE	IF	CITATIONS
19	Tuning the Upstream Swimming of Microrobots by Shape and Cargo Size. Physical Review Applied, 2020, 14, .	1.5	11
20	Engineering reconfigurable flow patterns via surface-driven light-controlled active matter. Physical Review Fluids, 2021, 6, .	1.0	2