

# Andreas ZÄjtjl

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3227087/publications.pdf>

Version: 2024-02-01

21  
papers

1,538  
citations

623188

14  
h-index

752256

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergent behavior in active colloids. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 253001.	0.7	327
2	Hydrodynamics Determines Collective Motion and Phase Behavior of Active Colloids in Quasi-Two-Dimensional Confinement. <i>Physical Review Letters</i> , 2014, 112, 118101.	2.9	296
3	Nonlinear Dynamics of a Microswimmer in Poiseuille Flow. <i>Physical Review Letters</i> , 2012, 108, 218104.	2.9	238
4	Detention Times of Microswimmers Close to Surfaces: Influence of Hydrodynamic Interactions and Noise. <i>Physical Review Letters</i> , 2015, 115, 038101.	2.9	117
5	Periodic and quasiperiodic motion of an elongated microswimmer in Poiseuille flow. <i>European Physical Journal E</i> , 2013, 36, 4.	0.7	103
6	Enhanced bacterial swimming speeds in macromolecular polymer solutions. <i>Nature Physics</i> , 2019, 15, 554-558.	6.5	90
7	Oscillatory surface rheotaxis of swimming <i>E. coli</i> bacteria. <i>Nature Communications</i> , 2019, 10, 3434.	5.8	73
8	Phase separation and coexistence of hydrodynamically interacting microswimmers. <i>Soft Matter</i> , 2016, 12, 9821-9831.	1.2	63
9	Focusing and Sorting of Ellipsoidal Magnetic Particles in Microchannels. <i>Physical Review Letters</i> , 2017, 119, 198002.	2.9	39
10	Microswimmers learning chemotaxis with genetic algorithms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	33
11	Simulating squirmers with multiparticle collision dynamics. <i>European Physical Journal E</i> , 2018, 41, 61.	0.7	31
12	Chirality-induced bacterial rheotaxis in bulk shear flows. <i>Science Advances</i> , 2020, 6, eabb2012.	4.7	31
13	Flow Loading Induces Oscillatory Trajectories in a Bloodstream Parasite. <i>Biophysical Journal</i> , 2012, 103, 1162-1169.	0.2	29
14	Dynamics of individual Brownian rods in a microchannel flow. <i>Soft Matter</i> , 2019, 15, 5810-5814.	1.2	15
15	Frequency-dependent higher-order Stokes singularities near a planar elastic boundary: Implications for the hydrodynamics of an active microswimmer near an elastic interface. <i>Physical Review E</i> , 2019, 100, 032610.	0.8	14
16	Far-field theory for trajectories of magnetic ellipsoids in rectangular and circular channels. <i>IMA Journal of Applied Mathematics</i> , 2018, 83, 767-782.	0.8	10
17	Biopolymer dynamics driven by helical flagella. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	9
18	Simulation of microswimmer hydrodynamics with multiparticle collision dynamics*. <i>Chinese Physics B</i> , 2020, 29, 074701.	0.7	9

#	ARTICLE	IF	CITATIONS
19	Driven spheres, ellipsoids and rods in explicitly modeled polymer solutions. Journal of Physics Condensed Matter, 2019, 31, 234001.	0.7	7
20	Mesoscale modelling of polymer aggregate digestion. Current Research in Food Science, 2020, 3, 122-133.	2.7	4
21	Exopolymer Dynamics Driven by Sessile Flagellates. Biophysical Journal, 2018, 114, 514a.	0.2	0