

# Aidan T Brown

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5697183/publications.pdf>

Version: 2024-02-01

26  
papers

1,366  
citations

471509

17  
h-index

552781

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1849  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic effects in self-propelled Pt-coated Janus swimmers. <i>Soft Matter</i> , 2014, 10, 4016-4027.	2.7	292
2	A growing bacterial colony in two dimensions as an active nematic. <i>Nature Communications</i> , 2018, 9, 4190.	12.8	120
3	Swimming in a crystal. <i>Soft Matter</i> , 2016, 12, 131-140.	2.7	97
4	Ionic screening and dissociation are crucial for understanding chemical self-propulsion in polar solvents. <i>Soft Matter</i> , 2017, 13, 1200-1222.	2.7	95
5	Annexins: Components of the Calcium and Reactive Oxygen Signaling Network. <i>Plant Physiology</i> , 2010, 152, 1824-1829.	4.8	92
6	Flickering Analysis of Erythrocyte Mechanical Properties: Dependence on Oxygenation Level, Cell Shape, and Hydration Level. <i>Biophysical Journal</i> , 2009, 97, 1606-1615.	0.5	79
7	Probing the Spatiotemporal Dynamics of Catalytic Janus Particles with Single-Particle Tracking and Differential Dynamic Microscopy. <i>Physical Review Letters</i> , 2018, 121, 078001.	7.8	72
8	Hydrodynamic oscillations and variable swimming speed in squirmers close to repulsive walls. <i>Soft Matter</i> , 2016, 12, 7959-7968.	2.7	65
9	The secret life of Pickering emulsions: particle exchange revealed using two colours of particle. <i>Scientific Reports</i> , 2016, 6, 31401.	3.3	63
10	Red blood cell dynamics: from spontaneous fluctuations to non-linear response. <i>Soft Matter</i> , 2011, 7, 2042-2051.	2.7	52
11	Soft matter science and the COVID-19 pandemic. <i>Soft Matter</i> , 2020, 16, 8310-8324.	2.7	51
12	Bacteria as living patchy colloids: Phenotypic heterogeneity in surface adhesion. <i>Science Advances</i> , 2018, 4, eaao1170.	10.3	48
13	Microfluidic pumping by micromolar salt concentrations. <i>Soft Matter</i> , 2017, 13, 1505-1518.	2.7	46
14	Particle-size effects in the formation of bicontinuous Pickering emulsions. <i>Physical Review E</i> , 2015, 92, 032308.	2.1	37
15	Individual bacteria in structured environments rely on phenotypic resistance to phage. <i>PLoS Biology</i> , 2021, 19, e3001406.	5.6	26
16	Scaling advantages and constraints in miniaturized capture assays for single cell protein analysis. <i>Lab on A Chip</i> , 2013, 13, 2066.	6.0	25
17	Hydrodynamic coupling in polygonal arrays of colloids: Experimental and analytical results. <i>Physical Review E</i> , 2010, 81, 051403.	2.1	22
18	Absolute quantification of protein copy number using a single-molecule-sensitive microarray. <i>Analyst</i> , 2014, 139, 3235.	3.5	19

#	ARTICLE	IF	CITATIONS
19	A Review of Using Mathematical Modeling to Improve Our Understanding of Bacteriophage, Bacteria, and Eukaryotic Interactions. <i>Frontiers in Microbiology</i> , 2021, 12, 724767.	3.5	17
20	Active rheology of phospholipid vesicles. <i>Physical Review E</i> , 2011, 84, 021930.	2.1	14
21	Sedimentation of a rigid helix in viscous media. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	10
22	Dynamic optical rectification and delivery of active particles. <i>Soft Matter</i> , 2019, 15, 7026-7032.	2.7	7
23	Dynamical analysis of bacteria in microscopy movies. <i>PLoS ONE</i> , 2019, 14, e0217823.	2.5	6
24	A theoretical phase diagram for an active nematic on a spherical surface. <i>Soft Matter</i> , 2020, 16, 4682-4691.	2.7	6
25	Solid microscopic rings formed via wetting and subsequent dewetting. <i>RSC Advances</i> , 2016, 6, 62624-62629.	3.6	4
26	Diffusion, phase behavior, and gelation in a two-dimensional layer of colloids in osmotic equilibrium with a polymer reservoir. <i>Journal of Chemical Physics</i> , 2021, 155, 074903.	3.0	1