

# Benjamin J Walker

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7589671/publications.pdf>

Version: 2024-02-01

19  
papers

185  
citations

1162889

8  
h-index

1199470

12  
g-index

20  
all docs

20  
docs citations

20  
times ranked

120  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boundary behaviours of <i>Leishmania mexicana</i> : A hydrodynamic simulation study. <i>Journal of Theoretical Biology</i> , 2019, 462, 311-320.	0.8	25
2	Filament mechanics in a half-space via regularised Stokeslet segments. <i>Journal of Fluid Mechanics</i> , 2019, 879, 808-833.	1.4	16
3	Pairwise hydrodynamic interactions of synchronized spermatozoa. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	15
4	Modelling Motility: The Mathematics of Spermatozoa. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 710825.	1.8	13
5	High-speed multifocal plane fluorescence microscopy for three-dimensional visualisation of beating flagella. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	12
6	Response of monoflagellate pullers to a shearing flow: A simulation study of microswimmer guidance. <i>Physical Review E</i> , 2018, 98, .	0.8	11
7	Computer-assisted beat-pattern analysis and the flagellar waveforms of bovine spermatozoa. <i>Royal Society Open Science</i> , 2020, 7, 200769.	1.1	10
8	Regularized representation of bacterial hydrodynamics. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
9	Efficient simulation of filament elastohydrodynamics in three dimensions. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
10	Control and controllability of microswimmers by a shearing flow. <i>Royal Society Open Science</i> , 2021, 8, 211141.	1.1	9
11	Emergent rheotaxis of shape-changing swimmers in Poiseuille flow. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	1.4	9
12	A regularised slender-body theory of non-uniform filaments. <i>Journal of Fluid Mechanics</i> , 2020, 899, .	1.4	8
13	Canonical orbits for rapidly deforming planar microswimmers in shear flow. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	7
14	Automated identification of flagella from videomicroscopy via the medial axis transform. <i>Scientific Reports</i> , 2019, 9, 5015.	1.6	6
15	Regularised non-uniform segments and efficient no-slip elastohydrodynamics. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	6
16	Effects of rapid yawing on simple swimmer models and planar Jeffery's orbits. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	6
17	A Morphoelastic Shell Model of the Eye. <i>Journal of Elasticity</i> , 2021, 145, 5-29.	0.9	4
18	The control of particles in the Stokes limit. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	1.4	4

#	ARTICLE	IF	CITATIONS
19	Response of monoflagellate pullers to a shearing flow: A simulation study of microswimmer guidance. <i>Physical Review E</i> , 2018, 98, 063111.	0.8	3