

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

1163117

8
h-index

1199594

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. | 1.7 | 25 |
| 2 | Filament mechanics in a half-space via regularised Stokeslet segments. <i>Journal of Fluid Mechanics</i> , 2019, 879, 808-833. | 3.4 | 16 |
| 3 | Pairwise hydrodynamic interactions of synchronized spermatozoa. <i>Physical Review Fluids</i> , 2019, 4, . | 2.5 | 15 |
| 4 | Modelling Motility: The Mathematics of Spermatozoa. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 710825. | 3.7 | 13 |
| 5 | High-speed multifocal plane fluorescence microscopy for three-dimensional visualisation of beating flagella. <i>Journal of Cell Science</i> , 2019, 132, . | 2.0 | 12 |
| 6 | Response of monoflagellate pullers to a shearing flow: A simulation study of microswimmer guidance. <i>Physical Review E</i> , 2018, 98, . | 2.1 | 11 |
| 7 | Computer-assisted beat-pattern analysis and the flagellar waveforms of bovine spermatozoa. <i>Royal Society Open Science</i> , 2020, 7, 200769. | 2.4 | 10 |
| 8 | Regularized representation of bacterial hydrodynamics. <i>Physical Review Fluids</i> , 2020, 5, . | 2.5 | 10 |
| 9 | Efficient simulation of filament elastohydrodynamics in three dimensions. <i>Physical Review Fluids</i> , 2020, 5, . | 2.5 | 10 |
| 10 | Control and controllability of microswimmers by a shearing flow. <i>Royal Society Open Science</i> , 2021, 8, 211141. | 2.4 | 9 |
| 11 | Emergent rheotaxis of shape-changing swimmers in Poiseuille flow. <i>Journal of Fluid Mechanics</i> , 2022, 944, . | 3.4 | 9 |
| 12 | A regularised slender-body theory of non-uniform filaments. <i>Journal of Fluid Mechanics</i> , 2020, 899, . | 3.4 | 8 |
| 13 | Canonical orbits for rapidly deforming planar microswimmers in shear flow. <i>Physical Review Fluids</i> , 2022, 7, . | 2.5 | 7 |
| 14 | Automated identification of flagella from videomicroscopy via the medial axis transform. <i>Scientific Reports</i> , 2019, 9, 5015. | 3.3 | 6 |
| 15 | Regularised non-uniform segments and efficient no-slip elastohydrodynamics. <i>Journal of Fluid Mechanics</i> , 2021, 915, . | 3.4 | 6 |
| 16 | Effects of rapid yawing on simple swimmer models and planar Jeffery's orbits. <i>Physical Review Fluids</i> , 2022, 7, . | 2.5 | 6 |
| 17 | A Morphoelastic Shell Model of the Eye. <i>Journal of Elasticity</i> , 2021, 145, 5-29. | 1.9 | 4 |
| 18 | The control of particles in the Stokes limit. <i>Journal of Fluid Mechanics</i> , 2022, 942, . | 3.4 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Response of monoflagellate pullers to a shearing flow: A simulation study of microswimmer guidance. Physical Review E, 2018, 98, 063111. | 2.1 | 3 |