

Shreyas Mandre

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,731
citations

361413

20
h-index

434195

31
g-index

32
all docs

32
docs citations

32
times ranked

1804
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Short-Time Dynamics of Partial Wetting. <i>Physical Review Letters</i> , 2008, 100, 234501. | 7.8 | 246 |
| 2 | Precursors to Splashing of Liquid Droplets on a Solid Surface. <i>Physical Review Letters</i> , 2009, 102, 134502. | 7.8 | 206 |
| 3 | Skating on a Film of Air: Drops Impacting on a Surface. <i>Physical Review Letters</i> , 2012, 108, 074503. | 7.8 | 183 |
| 4 | Events before droplet splashing on a solid surface. <i>Journal of Fluid Mechanics</i> , 2010, 647, 163-185. | 3.4 | 161 |
| 5 | The mechanism of a splash on a dry solid surface. <i>Journal of Fluid Mechanics</i> , 2012, 690, 148-172. | 3.4 | 127 |
| 6 | Stiffness of the human foot and evolution of the transverse arch. <i>Nature</i> , 2020, 579, 97-100. | 27.8 | 112 |
| 7 | Dynamics of roll waves. <i>Journal of Fluid Mechanics</i> , 2004, 514, 1-33. | 3.4 | 110 |
| 8 | Partial coalescence between a drop and a liquid-liquid interface. <i>Physics of Fluids</i> , 2006, 18, 051705. | 4.0 | 75 |
| 9 | Energy harvesting performance and flow structure of an oscillating hydrofoil with finite span. <i>Journal of Fluids and Structures</i> , 2017, 70, 314-326. | 3.4 | 65 |
| 10 | Mechanisms for Liquid Slip at Solid Surfaces. <i>Physical Review Letters</i> , 2004, 93, 086001. | 7.8 | 56 |
| 11 | Algorithm for a Microfluidic Assembly Line. <i>Physical Review Letters</i> , 2011, 106, 094503. | 7.8 | 38 |
| 12 | The feasibility of generating low-frequency volcano seismicity by flow through a deformable channel. <i>Geological Society Special Publication</i> , 2008, 307, 45-56. | 1.3 | 36 |
| 13 | An experimental study of the coalescence between a drop and an interface in Newtonian and polymeric liquids. <i>Physics of Fluids</i> , 2006, 18, 092103. | 4.0 | 33 |
| 14 | A generalized theory of viscous and inviscid flutter. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 141-156. | 2.1 | 28 |
| 15 | Dynamics of evaporative colloidal patterning. <i>Physics of Fluids</i> , 2015, 27, . | 4.0 | 28 |
| 16 | Dynamics of a camphoric acid boat at the air-water interface. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 1176-1180. | 2.1 | 27 |
| 17 | Hydrodynamic Signatures of Stationary Marangoni-Driven Surfactant Transport. <i>Physical Review Letters</i> , 2017, 119, 264501. | 7.8 | 26 |
| 18 | Marangoni elasticity of flowing soap films. <i>Physical Review Fluids</i> , 2017, 2, . | 2.5 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Linear stability analysis for <i>monami</i> in a submerged seagrass bed. Journal of Fluid Mechanics, 2016, 786, . | 3.4 | 24 |
| 20 | Confinement effects on energy harvesting by a heaving and pitching hydrofoil. Journal of Fluids and Structures, 2019, 84, 233-242. | 3.4 | 22 |
| 21 | Curvature-induced stiffening of a fish fin. Journal of the Royal Society Interface, 2017, 14, 20170247. | 3.4 | 17 |
| 22 | Surface tension of flowing soap films. Journal of Fluid Mechanics, 2018, 841, . | 3.4 | 17 |
| 23 | Bounds on double-diffusive convection. Journal of Fluid Mechanics, 2006, 569, 29. | 3.4 | 14 |
| 24 | Axisymmetric spreading of surfactant from a point source. Journal of Fluid Mechanics, 2017, 832, 777-792. | 3.4 | 14 |
| 25 | Capillary interactions between nearby interfacial objects. Europhysics Letters, 2013, 102, 38001. | 2.0 | 13 |
| 26 | A simple model illustrating the role of turbulence on phytoplankton blooms. Journal of Mathematical Biology, 2003, 46, 333-346. | 1.9 | 12 |
| 27 | The branch with the furthest reach. Europhysics Letters, 2012, 97, 14005. | 2.0 | 7 |
| 28 | Dynamics and stability of running on rough terrains. Royal Society Open Science, 2019, 6, 181729. | 2.4 | 6 |
| 29 | Controllable biomimetic birdsong. Journal of the Royal Society Interface, 2017, 14, 20170002. | 3.4 | 1 |
| 30 | Work-minimizing kinematics for small displacement of an infinitely long cylinder. Journal of Fluid Mechanics, 2020, 893, . | 3.4 | 1 |
| 31 | Brachistochronous motion of a flat plate parallel to its surface immersed in a fluid. Journal of Fluid Mechanics, 2022, 939, . | 3.4 | 1 |