Martin R Maxey

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6454751/publications.pdf

Version: 2024-02-01

19 papers	1,031 citations	687363 13 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	817 citing authors

#	Article	IF	Citations
1	Force-coupling method for particulate two-phase flow: Stokes flow. Journal of Computational Physics, 2003, 184, 381-405.	3.8	152
2	Simulation Methods for Particulate Flows and Concentrated Suspensions. Annual Review of Fluid Mechanics, 2017, 49, 171-193.	25.0	152
3	Numerical simulation of turbulent drag reduction using micro-bubbles. Journal of Fluid Mechanics, 2002, 468, 271-281.	3.4	143
4	Self-Cleaning of Hydrophobic Rough Surfaces by Coalescence-Induced Wetting Transition. Langmuir, 2019, 35, 2431-2442.	3.5	87
5	Simulation of concentrated suspensions using the force-coupling method. Journal of Computational Physics, 2010, 229, 2401-2421.	3.8	83
6	Dynamics of concentrated suspensions of non-colloidal particles in Couette flow. Journal of Fluid Mechanics, 2010, 649, 205-231.	3.4	77
7	Operator learning for predicting multiscale bubble growth dynamics. Journal of Chemical Physics, 2021, 154, 104118.	3.0	71
8	Numerical simulations of concentrated suspensions of monodisperse particles in a Poiseuille flow. Journal of Fluid Mechanics, 2011, 682, 491-518.	3.4	60
9	Spiral swimming of an artificial micro-swimmer. Journal of Fluid Mechanics, 2008, 598, 293-319.	3.4	46
10	Dynamics of bidisperse suspensions under Stokes flows: Linear shear flow and sedimentation. Physics of Fluids, 2006, 18, 121504.	4.0	45
11	Turbulent drag reduction by constant near-wall forcing. Journal of Fluid Mechanics, 2007, 582, 79-101.	3.4	32
12	A seamless multiscale operator neural network for inferring bubble dynamics. Journal of Fluid Mechanics, 2021, 929, .	3.4	32
13	Dynamics and rheology of concentrated, finite-Reynolds-number suspensions in a homogeneous shear flow. Physics of Fluids, 2013, 25, .	4.0	26
14	Settling of heavy particles in concentrated suspensions of neutrally buoyant particles under uniform shear. Fluid Dynamics Research, 2018, 50, 041401.	1.3	7
15	Simulation study of particle clouds in oscillating shear flow. Journal of Fluid Mechanics, 2018, 852, 484-506.	3.4	5
16	Dispersion of a suspension plug in oscillatory pressure-driven flow. Physical Review Fluids, 2017, 2, .	2.5	5
17	Droplets in turbulence: aÂnew perspective. Journal of Fluid Mechanics, 2017, 816, 1-4.	3.4	4
18	Biomimetics and cilia propulsion. Journal of Fluid Mechanics, 2011, 678, 1-4.	3.4	2

#	Article	IF	Citations
19	Characterization of swirling-flow behavior in complex pipeline using bubble trajectory method with stereo particle tracking/image velocimetry. Flow Measurement and Instrumentation, 2022, 85, 102159.	2.0	2