

Thomas Ward, Iii

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

256
citations

1163117

8
h-index

940533

16
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27
all docs

27
docs citations

27
times ranked

329
citing authors

#	ARTICLE	IF	CITATIONS
1	Drop Production and Tip-Streaming Phenomenon in a Microfluidic Flow-Focusing Device via an Interfacial Chemical Reaction. <i>Langmuir</i> , 2010, 26, 9233-9239.	3.5	50
2	Magnetic Two-Way Valves for Paper-Based Capillary-Driven Microfluidic Devices. <i>ACS Omega</i> , 2018, 3, 2049-2057.	3.5	36
3	Experimental study of gravitation effects in the flow of a particle-laden thin film on an inclined plane. <i>Physics of Fluids</i> , 2009, 21, .	4.0	32
4	Polydispersity-Driven Printing of Conformal Solid Metal Traces on Non-Adhering Biological Surfaces. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001294.	3.7	18
5	Capillary-pressure driven adhesion of rigid-planar surfaces. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 816-824.	9.4	17
6	Evaporation and instability of an unbounded-axisymmetric liquid bridge between chemically similar and different substrates. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 45-53.	9.4	14
7	Pattern search methods for pendant drops: Algorithms for rapid determination of surface tension and surfactant transport parameters. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 485, 1-10.	4.7	13
8	Gas-driven displacement of a liquid in a partially filled radial Hele-Shaw cell. <i>Physical Review E</i> , 2011, 83, 046316.	2.1	10
9	Stable and unstable miscible displacement of a shear-thinning fluid at low Reynolds number. <i>Physics of Fluids</i> , 2018, 30, .	4.0	8
10	Immiscible fluid displacement in a porous media: Effect of surfactants introduced ab initio versus surfactants formed in-situ. <i>Journal of Petroleum Science and Engineering</i> , 2019, 180, 310-319.	4.2	8
11	Passivation-driven speciation, dealloying and purification. <i>Materials Horizons</i> , 2021, 8, 925-931.	12.2	7
12	Self-similarity in particle-laden flows at constant volume. <i>Journal of Engineering Mathematics</i> , 2010, 66, 53-63.	1.2	6
13	De-pinning instability of an evaporating-bounded liquid bridge: Experiments and axisymmetric analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 596, 124664.	4.7	6
14	Surface remobilization of buoyancy-driven surfactant-laden drops at low reynolds and capillary numbers. <i>AIChE Journal</i> , 2019, 65, 294-304.	3.6	5
15	Electrohydrostatically Driven Flow and Instability in a Vertical Hele-Shaw Cell. <i>Langmuir</i> , 2008, 24, 3611-3620.	3.5	4
16	Electrostatic and aerodynamic forced vibrations of a thin flexible electrode: Quasi-periodic vs. chaotic oscillations. <i>Chaos</i> , 2016, 26, 063113.	2.5	4
17	Gravity and capillary pressure-driven drainage in a vertical Hele-Shaw cell: Thin film deposition. <i>Chemical Engineering Science</i> , 2014, 109, 147-157.	3.8	3
18	Electrocapillary drop actuation and fingering instability in a planar Hele-Shaw cell. <i>Physical Review E</i> , 2015, 91, 013012.	2.1	3

#	ARTICLE	IF	CITATIONS
19	Evaporation driven detachment of a liquid bridge from a syringe needle in repose. <i>Physics of Fluids</i> , 2020, 32, 084105.	4.0	3
20	Vibration of a semi-rigid cantilever in a uniform flow. <i>Journal of Fluids and Structures</i> , 2021, 102, 103229.	3.4	3
21	Perturbation analysis of steady and unsteady electrohydrodynamic chaotic advection inside translating drops. <i>Physical Review E</i> , 2015, 92, 023030.	2.1	2
22	Pressure-driven microfluidic flow-focusing of air through a surfactant-doped dilute polymer liquid. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 343-356.	2.2	2
23	Source-driven vibration of a semi-rigid cantilever: Soap film experiments comparing incidence angles $\hat{\Gamma}_{\pm} = 0^{\circ}$ and $\hat{\Gamma}_{\pm} = 180^{\circ}$. <i>Results in Engineering</i> , 2021, 12, 100290.	5.1	1
24	Matched asymptotic shock-layer analysis of the interaction between a planar viscous-hypersonic boundary layer and a thin inviscid layer. <i>Theoretical and Computational Fluid Dynamics</i> , 0, , .	2.2	1
25	Batch sedimentation in an impulsively heated system. <i>Journal of Petroleum Science and Engineering</i> , 2014, 118, 15-26.	4.2	0
26	Vibration of a semi-rigid cantilever in a cylinder's unsteady wake at zero incidence angle. <i>Journal of Sound and Vibration</i> , 2022, , 116948.	3.9	0