Hsien-Hung Wei

List of Publications by Year
in descending order

34	407	840776 11	794594 19
papers	citations	h-index	g-index

34	34	34	350
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of surfactant on the long-wave instability of a shear-imposed liquid flow down an inclined plane. Physics of Fluids, 2005, 17, 012103.	4.0	57
2	On the flow-induced Marangoni instability due to the presence of surfactant. Journal of Fluid Mechanics, 2005, 544, 173.	3.4	28
3	Dynamic particle trapping, release, and sorting by microvortices on a substrate. Physical Review E, 2010, 82, 026308.	2.1	26
4	Stability of a viscoelastic falling film with surfactant subjected to an interfacial shear. Physical Review E, 2005, 71, 066306.	2.1	25
5	The effects of insoluble surfactants on the linear stability of a coreâ€“annular flow. Journal of Fluid Mechanics, 2005, 541, 115.	3.4	25
6	Drastic Changes in Interfacial Hydrodynamics due to Wall Slippage: Slip-Intensified Film Thinning, Drop Spreading, and Capillary Instability. Physical Review Letters, 2013, 111, 136001.	7.8	22
7	Slip-enhanced drop formation in a liquid falling down a vertical fibre. Journal of Fluid Mechanics, 2017, 820, 42-60.	3.4	19
8	Marangoni-enhanced capillary wetting in surfactant-driven superspreading. Journal of Fluid Mechanics, 2018, 855, 181-209.	3.4	16
9	Marangoni destabilization on a core-annular film flow due to the presence of surfactant. Physics of Fluids, 2005, 17, 027101.	4.0	15
10	The Basset problem with dynamic slip: slip-induced memory effect and slipâ€“stickÂtransition. Journal of Fluid Mechanics, 2019, 866, 431-449.	3.4	15
11	Role of base flows on surfactant-driven interfacial instabilities. Physical Review E, 2007, 75, 036306.	2.1	12
12	Linear stability of a surfactant-laden annular film in a time-periodic pressure-driven flow through a capillary. Journal of Colloid and Interface Science, 2005, 285, 769-780.	9.4	11
13	Atypical non-Basset particle dynamics due to hydrodynamic slip. Physics of Fluids, 2020, 32, .	4.0	11
14	Speeding up thermocapillary migration of a confined bubble by wall slip. Journal of Fluid Mechanics, 2014, 746, 31-52.	3.4	10
15	Letter: New boundary layer structures due to strong wall slippage. Physics of Fluids, 2018, 30, 121702.	4.0	10
16	Shear-modulated electroosmotic flow on a patterned charged surface. Journal of Colloid and Interface Science, 2005, 284, 742-752.	9.4	9
17	Entropic trap, surface-mediated combing, and assembly of DNA molecules within submicrometer interfacial confinement. Physical Review E, 2009, 79, 021901.	2.1	9
18	Breakdown of the Bretherton law due to wallÂslippage. Journal of Fluid Mechanics, 2014, 741, 200-227.	3.4	9

#	Article	IF	Citations
19	Stretching DNA with electric fields beneath submicron interfacial constriction created by a closely fitting microdroplet in a microchannel. Applied Physics Letters, 2008, 93, .	3.3	8
20	Roles of solution conductivity mismatch in transient current and fluid transport in electrolyte displacement by electro-osmotic flow. Microfluidics and Nanofluidics, 2011, 10, 337-353.	2.2	8
21	Superdiffusion in dispersions of active colloids driven by an external field and their sedimentation equilibrium. Physical Review E, 2016, 93, 042611.	2.1	8
22	Probing conformational transitions of polymer chains by microrheology. Polymer, 2014, 55, 3168-3177.	3.8	7
23	Transient currents in electrolyte displacement by asymmetric electro-osmosis and determination of surface zeta potentials of composite microchannels. Applied Physics Letters, 2008, 92, 244102.	3.3	6
24	Self-propulsion and dispersion of reactive colloids due to entropic anisotropy. Journal of Fluid Mechanics, 2010, 657, 64-88.	3.4	5
25	Electrophoretic stretching of tethered polymer chains by travelling-wave electric fields: tunable stretching, expedited coilâ€“stretch transition, and a new paradigm of dynamic molecular probing. Soft Matter, 2012, 8, 1977-1990.	2.7	5
26	Slip-induced suppression of Marangoni film thickening in surfactant-retarded Landauâ€“Levichâ€“Bretherton flows. Journal of Fluid Mechanics, 2015, 781, 578-594.	3.4	5
27	Conformational transitions of single polymer adsorption in poor solvent: Wetting transition due to molecular confinement induced line tension. Physical Review E, 2016, 94, 012501.	2.1	5
28	Re-entrant history force transition for stickâ€“slip Janus swimmers: mixed Basset and slip-induced memory effects. Journal of Fluid Mechanics, 2020, 882, .	3.4	5
29	Coupled Faxen relations for non-uniform slip Janus spheres. Physics of Fluids, 2021, 33, .	4.0	5
30	Thermocapillary instability of core-annular flows. Physics of Fluids, 2005, 17, 102102.	4.0	4
31	Slipping moving contact lines: critical roles of deÂGennesâ€™s â€˜footâ€™ in dynamic wetting. Journal of Fluid Mechanics, 2019, 873, 110-150.	3.4	3
32	History hydrodynamic torque transitions in oscillatory spinning of stick-slip Janus particles. AIP Advances, 2019, 9, 125113.	1.3	2
33	Anisotropic stresslet and rheology of stickâ€“slip Janus spheres. Journal of Fluid Mechanics, 2022, 945, .	3.4	2
34	AC electrohydrodynamic Landauâ€“Squire flows around a conducting nanotip. Journal of Fluid Mechanics, 2021, 925, .	3.4	0