Joseph D Berry

List of Publications by Year
in descending order

31 papers	1,220 citations	567281 15 h-index	454955 30 g-index
31 all docs	31 docs citations	31 times ranked	1914 citing authors

#	Article	IF	Citations
1	Measurement of surface and interfacial tension using pendant drop tensiometry. Journal of Colloid and Interface Science, 2015, 454, 226-237.	9.4	704
2	Characterisation of stresses on microcarriers in a stirred bioreactor. Applied Mathematical Modelling, 2016, 40, 6787-6804.	4.2	38
3	Electrokinetics of isolated electrified drops. Soft Matter, 2016, 12, 3310-3325.	2.7	37
4	Leidenfrost Vapor Layers Reduce Drag without the Crisis in High Viscosity Liquids. Physical Review Letters, 2016, 117, 114503.	7.8	36
5	Precise measurements of capsule mechanical properties using indentation. Soft Matter, 2017, 13, 1943-1947.	2.7	35
6	Decreasing the Wettability of Cellulose Nanocrystal Surfaces Using Wrinkle-Based Alignment. ACS Applied Materials & Interfaces, 2017, 9, 15202-15211.	8.0	32
7	OpenDrop: Open-source software for pendant drop tensiometry contact angle measurements. Journal of Open Source Software, 2021, 6, 2604.	4.6	32
8	A multiphase electrokinetic flow model for electrolytes with liquid/liquid interfaces. Journal of Computational Physics, 2013, 251, 209-222.	3.8	24
9	Mapping coalescence of micron-sized drops and bubbles. Journal of Colloid and Interface Science, 2017, 487, 513-522.	9.4	24
10	Charge and Film Drainage of Colliding Oil Drops Coated with the Nonionic Surfactant C₁₂E₅. Langmuir, 2017, 33, 4913-4923.	3.5	22
11	Forces between oil drops in polymer-surfactant systems: Linking direct force measurements to microfluidic observations. Journal of Colloid and Interface Science, 2019, 544, 130-143.	9.4	22
12	Electrolytic drops in an electric field: A numerical study of drop deformation and breakup. Physical Review E, 2015, 92, 013007.	2.1	21
13	Ricocheting Droplets Moving on Superâ€Repellent Surfaces. Advanced Science, 2019, 6, 1901846.	11.2	20
14	Navier slip model of drag reduction by Leidenfrost vapor layers. Physics of Fluids, 2017, 29, .	4.0	19
15	Electrophoretically mediated partial coalescence of a charged microdrop. Chemical Engineering Science, 2017, 169, 273-283.	3.8	17
16	Viscoelastic characterization of the crosslinking of Î²-lactoglobulin on emulsion drops via microcapsule compression and interfacial dilational and shear rheology. Journal of Colloid and Interface Science, 2021, 583, 404-413.	9.4	16
17	Dynamics of stain growth from sessile droplets on paper. Journal of Colloid and Interface Science, 2019, 541, 312-321.	9.4	14
18	Lift and drag forces acting on a particle moving with zero slip in a linear shear flow near a wall. Journal of Fluid Mechanics, 2020, 904, .	3.4	14

#	Article	IF	Citations
19	Poroelastic properties of hydrogel microparticles. Soft Matter, 2020, 16, 5314-5324.	2.7	14
20	Radial Wicking of Biological Fluids in Paper. Langmuir, 2020, 36, 8209-8217.	3.5	14
21	Lift and drag forces acting on a particle moving in the presence of slip and shear near a wall. Journal of Fluid Mechanics, 2021, 915, .	3.4	10
22	Self-Assembly of Lubricin (PRG-4) Brushes on Graphene Oxide Affords Stable 2D-Nanosheets in Concentrated Electrolytes and Complex Fluids. ACS Applied Nano Materials, 2020, 3, 11527-11542.	5.0	9
23	Effect of wall permittivity on electroviscous flow through a contraction. Biomicrofluidics, 2011, 5, 044102.	2.4	8
24	Predictions for optimal mitigation of paracrine inhibitory signalling in haemopoietic stem cell cultures. Stem Cell Research and Therapy, 2015, 6, 58.	5.5	8
25	Use of microaspiration to study the mechanical properties of polymer gel microparticles. Soft Matter, 2019, 15, 7286-7294.	2.7	8
26	Mass transfer between microbubbles. Journal of Colloid and Interface Science, 2020, 571, 253-259.	9.4	7
27	Interfacial Properties of Chitosan in Interfacial Shear and Capsule Compression. ACS Applied Materials & Interfaces, 2020, 12, 48084-48092.	8.0	6
28	Numerical simulation of two-fluid flow of electrolyte solution with charged deforming interfaces. Applied Mathematical Modelling, 2016, 40, 1989-2001.	4.2	4
29	Flow dynamics of a tethered elastic capsule. Physics of Fluids, 2011, 23, 021901.	4.0	3
30	Electroviscous flow through nanofluidic junctions. Applied Mathematical Modelling, 2014, 38, 4215-4225.	4.2	2
31	Electroviscous resistance of nanofluidic bends. Physical Review E, 2014, 90, 043008.	2.1	0