Spencer H Bryngelson

List of Publications by Year
in descending order

14 papers	201 citations	1163117 8 h-index	1058476 14 g-index
15 all docs	15 docs citations	15 times ranked	143 citing authors

#	Article	IF	Citations
1	An assessment of multicomponent flow models and interface capturing schemes for spherical bubble dynamics. Journal of Computational Physics, 2020, 402, 109080.	3.8	52
2	Near-surface dynamics of a gas bubble collapsing above a crevice. Journal of Fluid Mechanics, 2020, 899, .	3.4	52
3	A quantitative comparison of phase-averaged models for bubbly, cavitating flows. International Journal of Multiphase Flow, 2019, 115, 137-143.	3.4	15
4	A Gaussian moment method and its augmentation via LSTM recurrent neural networks for the statistics of cavitating bubble populations. International Journal of Multiphase Flow, 2020, 127, 103262.	3.4	14
5	MFC: An open-source high-order multi-component, multi-phase, and multi-scale compressible flow solver. Computer Physics Communications, 2021, 266, 107396.	7.5	13
6	Capsule-train stability. Physical Review Fluids, 2016, 1, .	2.5	11
7	Global stability of flowing red blood cell trains. Physical Review Fluids, 2018, 3, .	2.5	10
8	Characterizing viscoelastic materials via ensemble-based data assimilation of bubble collapse observations. Journal of the Mechanics and Physics of Solids, 2021, 152, 104455.	4.8	9
9	Buckling and its effect on the confined flow of a model capsule suspension. Rheologica Acta, 2016, 55, 451-464.	2.4	7
10	QBMMlib: A library of quadrature-based moment methods. SoftwareX, 2020, 12, 100615.	2.6	6
11	Non-modal Floquet stability of capsules in large-amplitude oscillatory extensional flow. European Journal of Mechanics, B/Fluids, 2019, 77, 171-176.	2.5	4
12	Simulation of humpback whale bubble-net feeding models. Journal of the Acoustical Society of America, 2020, 147, 1126-1135.	1.1	4
13	Floquet stability analysis of capsules in viscous shear flow. Journal of Fluid Mechanics, 2018, 852, 663-677.	3.4	2
14	Irregular dynamics of cellular blood flow in a model microvessel. Physical Review E, 2019, 100, 012203.	2.1	2