Neil Cagney

List of Publications by Year
in descending order

27	394	759233 12	794594 19
papers	citations	h-index	g-index

27	27	27	393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Shear-thinning mediation of elasto-inertial Taylorâ€“Couette flow. Journal of Fluid Mechanics, 2021, 915, .	3.4	11
2	Fallow time determination in dentistry using aerosol measurement in mechanically and non-mechanically ventilated environments. British Dental Journal, 2021, , .	0.6	8
3	Modulation of elasto-inertial transitions in Taylorâ€“Couette flow by small particles. Journal of Fluid Mechanics, 2021, 929, .	3.4	2
4	The coupled effects of mantle mixing and a water-dependent viscosity on the surface ocean. Earth and Planetary Science Letters, 2020, 530, 115881.	4.4	3
5	Quantitative analysis of particulate matter release during orthodontic procedures: a pilot study. British Dental Journal, 2020, , .	0.6	12
6	Taylorâ€“Couette flow of polymer solutions with shear-thinning and viscoelastic rheology. Journal of Fluid Mechanics, 2020, 905, .	3.4	13
7	The efficacy of an extraoral scavenging device on reduction of splatter contamination during dental aerosol generating procedures: an exploratory study. British Dental Journal, 2020, , .	0.6	31
8	Mixing in flows past confined microfluidic cylinders: Effects of pin and fluid interface offsetting. Chemical Engineering Journal, 2020, 397, 125358.	12.7	13
9	Vortex merging and splitting: A route to elastoinertial turbulence in Taylor-Couette flow. Physical Review Fluids, 2020, 5, .	2.5	15
10	Taylor-Couette instability in disk suspensions: Experimental observation and theory. Physical Review Fluids, 2020, 5, .	2.5	10
11	Probing vortex-shedding at high frequencies in flows past confined microfluidic cylinders using high-speed microscale particle image velocimetry. Physics of Fluids, 2019, 31, .	4.0	9
12	Taylor-Couette flow of shear-thinning fluids. Physics of Fluids, 2019, 31, .	4.0	28
13	Influence of Shearâ€Thinning Rheology on the Mixing Dynamics in Taylorâ€Couette Flow. Chemical Engineering and Technology, 2019, 42, 1680-1690.	1.5	15
14	The role of the separation point in streamwise vortex-induced vibrations. Journal of Fluids and Structures, 2019, 86, 316-328.	3.4	9
15	Mode decomposition and Lagrangian structures of the flow dynamics in orbitally shaken bioreactors. Physics of Fluids, 2018, 30, .	4.0	12
16	Effects of cell motility and morphology on the rheology of algae suspensions. Journal of Applied Phycology, 2017, 29, 1145-1157.	2.8	14
17	Development of Vortex Bioreactor Technology for Decentralised Water Treatment. , 2017, , .		0
18	Lagrangian structures and mixing in the wake of a streamwise oscillating cylinder. Physics of Fluids, 2016, 28, .	4.0	12

#	Article	IF	Citations
19	Fluid forces acting on a cylinder undergoing streamwise vortex-induced vibrations. Journal of Fluids and Structures, 2016, 62, 147-155.	3.4	12
20	Dynamics and excess temperature of a plume throughout its life cycle. Geophysical Journal International, 2016, 205, 1574-1588.	2.4	2
21	Constraining the source of mantle plumes. Earth and Planetary Science Letters, 2016, 435, 55-63.	4.4	7
22	Swirl flow bioreactor containing dendritic copper-containing alginate beads: A potential rapid method for the eradication of Escherichia coli from waste water streams. Journal of Water Process Engineering, 2015, 5, 6-14.	5.6	10
23	Temperature and velocity measurements of a rising thermal plume. Geochemistry, Geophysics, Geosystems, 2015, 16, 579-599.	2.5	15
24	Streamwise vortex-induced vibrations of cylinders with one and two degrees of freedom. Journal of Fluid Mechanics, 2014, 758, 702-727.	3.4	42
25	Mode competition in streamwise-only vortex induced vibrations. Journal of Fluids and Structures, 2013, 41, 156-165.	3.4	25
26	Wake modes of a cylinder undergoing free streamwise vortex-induced vibrations. Journal of Fluids and Structures, 2013, 38, 127-145.	3.4	51
27	On multiple manifestations of the second response branch in streamwise vortex-induced vibrations. Physics of Fluids, 2013, 25, .	4.0	13