Sandro Longo

List of Publications by Year
in descending order

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78	1,286	331670	414414
papers	citations	21 h-index	32 g-index

87	87	87	751
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phyto-based sodium chloride hydrogel for highway winter maintenance of porous asphalt pavements. Construction and Building Materials, 2022, 319, 126082.	7.2	11
2	Experimental study on radial gravity currents flowing in a vegetated channel. Journal of Fluid Mechanics, 2022, 933, .	3.4	1
3	Converging gravity currents of power-law fluid. Journal of Fluid Mechanics, 2021, 918, .	3.4	5
4	Relaxation-induced flow in a smooth fracture for Ellis rheology. Advances in Water Resources, 2021, 152, 103914.	3.8	10
5	Experimental investigation on backflow of power-law fluids in planar fractures. Physics of Fluids, 2021, 33, .	4.0	9
6	Advancement in measuring the hydraulic conductivity of porous asphalt pavements. Construction and Building Materials, 2021, 300, 124110.	7.2	3
7	Experimental verification of theoretical approaches for radial gravity currents draining from an edge. Acta Mechanica, 2021, 232, 4461-4483.	2.1	1
8	Immersed and Floating Bodies. Springer Tracts in Civil Engineering, 2021, , 95-126.	0.5	0
9	Balances of Linear and Angular Momentum. Springer Tracts in Civil Engineering, 2021, , 127-202.	0.5	0
10	Industrial Hydraulic Systems. Springer Tracts in Civil Engineering, 2021, , 233-244.	0.5	0
11	Hydrostatic Forces on Submerged Curved Surfaces. Springer Tracts in Civil Engineering, 2021, , 37-94.	0.5	1
12	On the interaction between partially-reflected waves and an opposing wind. Coastal Engineering, 2020, 162, 103774.	4.0	5
13	Statistical analysis of the interaction between wind-waves and currents during early wave generation. Coastal Engineering, 2020, 159, 103672.	4.0	9
14	Dispersion induced by non-Newtonian gravity flow in a layered fracture or formation. Journal of Fluid Mechanics, 2020, 903, .	3.4	6
15	Buoyancy transfer in a two-layer system in steady state. Experiments in a Taylorâ€“Couette cell. Journal of Fluid Mechanics, 2020, 896, .	3.4	7
16	Onset of Darcyâ€“BÃ©nard convection under throughflow of a shear-thinning fluid. Journal of Fluid Mechanics, 2020, 889, .	3.4	11
17	Shear-Thinning Fluid Flow in Variable-Aperture Channels. Water (Switzerland), 2020, 12, 1152.	2.7	3
18	Non-Boussinesq gravity currents and surface waves generated by lock release in a circular-section channel: theoretical and experimental investigation. Journal of Fluid Mechanics, 2019, 869, 610-633.	3.4	5

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19	Nonâ€Newtonian Backflow in an Elastic Fracture. Water Resources Research, 2019, 55, 10144-10158.	4.2	15
20	Interaction of Swell and Sea Waves with Partially Reflective Structures for Possible Engineering Applications. Journal of Marine Science and Engineering, 2019, 7, 31.	2.6	3
21	Critical regime of gravity currents flowing in non-rectangular channels with densityÂstratification. Journal of Fluid Mechanics, 2018, 840, 579-612.	3.4	5
22	Gravity currents produced by lock-release: Theory and experiments concerning the effect of a free top in non-Boussinesq systems. Advances in Water Resources, 2018, 121, 456-471.	3.8	12
23	Flow of truncated power-law fluid in fracture channels of variable aperture. Advances in Water Resources, 2018, 122, 317-327.	3.8	18
24	Porous gravity currents: Axisymmetric propagation in horizontally graded medium and a review of similarity solutions. Advances in Water Resources, 2018, 115, 136-150.	3.8	9
25	The Reynolds wave shear stress in partially reflected waves. Coastal Engineering, 2018, 138, 220-226.	4.0	7
26	Ripple and sandbar dynamics under mid-reflecting conditions with a porous vertical breakwater. Coastal Engineering, 2017, 125, 95-118.	4.0	5
27	Thermal Instability of a Power-Law Fluid Flowing in a Horizontal Porous Layer with an Open Boundary: A Two-Dimensional Analysis. Transport in Porous Media, 2017, 118, 449-471.	2.6	12
28	Gravity-driven flow of Herschelâ€“Bulkley fluid in a fracture and in a 2D porous medium. Journal of Fluid Mechanics, 2017, 821, 59-84.	3.4	43
29	Cross-shore variability and vorticity dynamics during wave breaking on a fixed bar. Coastal Engineering, 2017, 127, 119-133.	4.0	10
30	On the propagation of particulate gravity currents in circular and semi-circular channels partially filled with homogeneous or stratified ambient fluid. Physics of Fluids, 2017, 29, 106605.	4.0	8
31	Invariants of Turbulence Reynolds Stress and of Dissipation Tensors in Regular Breaking Waves. Water (Switzerland), 2017, 9, 893.	2.7	19
32	3D flow measurements in regular breaking waves past a fixed submerged bar on an impermeable plane slope. Journal of Fluid Mechanics, 2016, 802, 490-527.	3.4	14
33	Gravity currents in a linearly stratified ambient fluid created by lock release and influx in semi-circular and rectangular channels. Physics of Fluids, 2016, 28, .	4.0	15
34	On the propagation of viscous gravity currents of non-Newtonian fluids in channels with varying cross section and inclination. Journal of Non-Newtonian Fluid Mechanics, 2016, 235, 95-108.	2.4	10
35	Porous gravity currents: A survey to determine the joint influence of fluid rheology and variations of medium properties. Advances in Water Resources, 2016, 92, 105-115.	3.8	34
36	Gravity currents produced by constant and time varying inflow in a circular cross-section channel: Experiments and theory. Advances in Water Resources, 2016, 90, 10-23.	3.8	13

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37	The propagation of gravity currents in a circular cross-section channel: experiments and theory. Journal of Fluid Mechanics, 2015, 764, 513-537.	3.4	17
38	A dipole solution for power-law gravity currents in porous formations. Journal of Fluid Mechanics, 2015, 778, 534-551.	3.4	33
39	Porous Gravity Currents of Non-Newtonian Fluids within Confining Boundaries. Procedia Environmental Sciences, 2015, 25, 58-65.	1.4	2
40	Stability Analysis of Gravity Currents of a Power-Law Fluid in a Porous Medium. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	4
41	Propagation of viscous gravity currents inside confining boundaries: the effects of fluid rheology and channel geometry. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150070.	2.1	12
42	Non-Newtonian power-law gravity currents propagating in confining boundaries. Environmental Fluid Mechanics, 2015, 15, 515-535.	1.6	27
43	Combined effect of rheology and confining boundaries on spreading of gravity currents in porous media. Advances in Water Resources, 2015, 79, 140-152.	3.8	26
44	Unsteady Flow of Shear-Thinning Fluids in Porous Media with Pressure-Dependent Properties. Transport in Porous Media, 2015, 110, 429-447.	2.6	29
45	The turbulent structure of the flow field generated by a hydrofoil in stalling condition beneath a waterâ€“air interface. Experimental Thermal and Fluid Science, 2015, 61, 34-47.	2.7	5
46	Analysis of a boundary layer of a granular mixture flowing past a plate at zero incidence. European Journal of Mechanics, B/Fluids, 2014, 46, 59-73.	2.5	4
47	Experimental analysis of the coherent structures and turbulence past a hydrofoil in stalling condition beneath a waterâ€“air interface. European Journal of Mechanics, B/Fluids, 2014, 43, 172-182.	2.5	8
48	Axisymmetric gravity currents within porous media: First order solution and experimental validation. Journal of Hydrology, 2014, 519, 238-247.	5.4	9
49	Radial gravity currents in vertically graded porous media: Theory and experiments for Newtonian and power-law fluids. Advances in Water Resources, 2014, 70, 65-76.	3.8	43
50	On shear thinning fluid flow induced by continuous mass injection in porous media with variable conductivity. Mechanics Research Communications, 2013, 52, 101-107.	1.8	17
51	On the axisymmetric spreading of non-Newtonian power-law gravity currents of time-dependent volume: An experimental and theoretical investigation focused on the inference of rheological parameters. Journal of Non-Newtonian Fluid Mechanics, 2013, 201, 69-79.	2.4	37
52	Experimental verification of power-law non-Newtonian axisymmetric porous gravity currents. Journal of Fluid Mechanics, 2013, 731, .	3.4	35
53	Experimental study of the grain-water mixture flow past a cylinder of different shapes. European Journal of Mechanics, B/Fluids, 2013, 38, 101-113.	2.5	4
54	Effect of variable permeability on the propagation of thin gravity currents in porous media. International Journal of Non-Linear Mechanics, 2013, 57, 168-175.	2.6	15

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55	Analytical study of the water surface fluctuations induced by grid-stirred turbulence. Applied Mathematical Modelling, 2013, 37, 7206-7222.	4.2	6
56	Experiments on the two-dimensional flow of a grainâ€“water mixture past a circular cylinder. European Journal of Mechanics, B/Fluids, 2012, 36, 139-151.	2.5	5
57	Study of the turbulence in the air-side and water-side boundary layers in experimental laboratory wind induced surface waves. Coastal Engineering, 2012, 69, 67-81.	4.0	25
58	Spreading of axisymmetric non-Newtonian power-law gravity currents in porous media. Journal of Non-Newtonian Fluid Mechanics, 2012, 189-190, 31-39.	2.4	29
59	Experimental study on oscillating grid turbulence and free surface fluctuation. Experiments in Fluids, 2012, 53, 1515-1531.	2.4	16
60	Turbulent structure of air flow over wind-induced gravity waves. Experiments in Fluids, 2012, 53, 369-390.	2.4	21
61	Wind-generated water waves in a wind tunnel: Free surface statistics, wind friction and mean air flow properties. Coastal Engineering, 2012, 61, 27-41.	4.0	33
62	Turbulent flow structure in experimental laboratory wind-generated gravity waves. Coastal Engineering, 2012, 64, 1-15.	4.0	40
63	Similarity solutions for spreading of a two-dimensional non-Newtonian gravity current in a porous layer. Journal of Non-Newtonian Fluid Mechanics, 2012, 177-178, 46-53.	2.4	25
64	Experiments on turbulence beneath a free surface in a stationary field generated by a Crump weir: turbulence structure and correlation with the free surface. Experiments in Fluids, 2011, 50, 201-215.	2.4	21
65	Roll waves on a shallow layer of a dilatant fluid. European Journal of Mechanics, B/Fluids, 2011, 30, 57-67.	2.5	13
66	Experiments on turbulence beneath a free surface in a stationary field generated by a Crump weir: free-surface characteristics and the relevant scales. Experiments in Fluids, 2010, 49, 1325-1338.	2.4	28
67	Vorticity and intermittency within the pre-breaking region of spilling breakers. Coastal Engineering, 2009, 56, 285-296.	4.0	30
68	The effects of air bubbles on ultrasound velocity measurements. Experiments in Fluids, 2006, 41, 593-602.	2.4	21
69	Limiting conditions for the existence of permanent periodic roll waves in stony debris flows. , 2006, , .		0
70	VELOCITY MEASUREMENTS UNDER BROKEN WAVES AND BORES. , 2005, , .		0
71	Two-Phase Flow Modeling of Sediment Motion in Sheet-Flows above Plane Beds. Journal of Hydraulic Engineering, 2005, 131, 366-379.	1.5	44
72	Turbulence under spilling breakers using discrete wavelets. Experiments in Fluids, 2003, 34, 181-191.	2.4	30

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73	Grain shear flow in a rotating drum. Experiments in Fluids, 2002, 32, 313-325.	2.4	28
74	Turbulence in the swash and surf zones: a review. Coastal Engineering, 2002, 45, 129-147.	4.0	92
75	Bottom Stress in Non Stationary Free Surface Flow. , 2001, , 848.		1
76	Turbulence experiments in the swash zone. Coastal Engineering, 2001, 43, 1-24.	4.0	103
77	Granular streams rheology and mechanics. Physics and Chemistry of the Earth, 2000, 25, 375-380.	0.3	5
78	Sediment Transport Under (NON)-Linear Waves and Currents. , 1995, , 2527.		1