

Sandro Longo

List of Publications by Year in descending order

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78
papers

1,286
citations

331670

21
h-index

414414

32
g-index

87
all docs

87
docs citations

87
times ranked

751
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulence experiments in the swash zone. Coastal Engineering, 2001, 43, 1-24.	4.0	103
2	Turbulence in the swash and surf zones: a review. Coastal Engineering, 2002, 45, 129-147.	4.0	92
3	Two-Phase Flow Modeling of Sediment Motion in Sheet-Flows above Plane Beds. Journal of Hydraulic Engineering, 2005, 131, 366-379.	1.5	44
4	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
5	Gravity-driven flow of Herschel-Bulkley fluid in a fracture and in a 2D porous medium. Journal of Fluid Mechanics, 2017, 821, 59-84.	3.4	43
6	Turbulent flow structure in experimental laboratory wind-generated gravity waves. Coastal Engineering, 2012, 64, 1-15.	4.0	40
7	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
8	Experimental verification of power-law non-Newtonian axisymmetric porous gravity currents. Journal of Fluid Mechanics, 2013, 731, .	3.4	35
9	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
10	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
11	A dipole solution for power-law gravity currents in porous formations. Journal of Fluid Mechanics, 2015, 778, 534-551.	3.4	33
12	Turbulence under spilling breakers using discrete wavelets. Experiments in Fluids, 2003, 34, 181-191.	2.4	30
13	Vorticity and intermittency within the pre-breaking region of spilling breakers. Coastal Engineering, 2009, 56, 285-296.	4.0	30
14	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
15	Unsteady Flow of Shear-Thinning Fluids in Porous Media with Pressure-Dependent Properties. Transport in Porous Media, 2015, 110, 429-447.	2.6	29
16	Grain shear flow in a rotating drum. Experiments in Fluids, 2002, 32, 313-325.	2.4	28
17	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
18	Non-Newtonian power-law gravity currents propagating in confining boundaries. Environmental Fluid Mechanics, 2015, 15, 515-535.	1.6	27

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19	Combined effect of rheology and confining boundaries on spreading of gravity currents in porous media. <i>Advances in Water Resources</i> , 2015, 79, 140-152.	3.8	26
20	Study of the turbulence in the air-side and water-side boundary layers in experimental laboratory wind induced surface waves. <i>Coastal Engineering</i> , 2012, 69, 67-81.	4.0	25
21	Similarity solutions for spreading of a two-dimensional non-Newtonian gravity current in a porous layer. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012, 177-178, 46-53.	2.4	25
22	The effects of air bubbles on ultrasound velocity measurements. <i>Experiments in Fluids</i> , 2006, 41, 593-602.	2.4	21
23	Experiments on turbulence beneath a free surface in a stationary field generated by a Crump weir: turbulence structure and correlation with the free surface. <i>Experiments in Fluids</i> , 2011, 50, 201-215.	2.4	21
24	Turbulent structure of air flow over wind-induced gravity waves. <i>Experiments in Fluids</i> , 2012, 53, 369-390.	2.4	21
25	Invariants of Turbulence Reynolds Stress and of Dissipation Tensors in Regular Breaking Waves. <i>Water (Switzerland)</i> , 2017, 9, 893.	2.7	19
26	Flow of truncated power-law fluid in fracture channels of variable aperture. <i>Advances in Water Resources</i> , 2018, 122, 317-327.	3.8	18
27	On shear thinning fluid flow induced by continuous mass injection in porous media with variable conductivity. <i>Mechanics Research Communications</i> , 2013, 52, 101-107.	1.8	17
28	The propagation of gravity currents in a circular cross-section channel: experiments and theory. <i>Journal of Fluid Mechanics</i> , 2015, 764, 513-537.	3.4	17
29	Experimental study on oscillating grid turbulence and free surface fluctuation. <i>Experiments in Fluids</i> , 2012, 53, 1515-1531.	2.4	16
30	Effect of variable permeability on the propagation of thin gravity currents in porous media. <i>International Journal of Non-Linear Mechanics</i> , 2013, 57, 168-175.	2.6	15
31	Gravity currents in a linearly stratified ambient fluid created by lock release and influx in semi-circular and rectangular channels. <i>Physics of Fluids</i> , 2016, 28, .	4.0	15
32	Non-Newtonian Backflow in an Elastic Fracture. <i>Water Resources Research</i> , 2019, 55, 10144-10158.	4.2	15
33	3D flow measurements in regular breaking waves past a fixed submerged bar on an impermeable plane slope. <i>Journal of Fluid Mechanics</i> , 2016, 802, 490-527.	3.4	14
34	Roll waves on a shallow layer of a dilatant fluid. <i>European Journal of Mechanics, B/Fluids</i> , 2011, 30, 57-67.	2.5	13
35	Gravity currents produced by constant and time varying inflow in a circular cross-section channel: Experiments and theory. <i>Advances in Water Resources</i> , 2016, 90, 10-23.	3.8	13
36	Propagation of viscous gravity currents inside confining boundaries: the effects of fluid rheology and channel geometry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150070.	2.1	12

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37	Thermal Instability of a Power-Law Fluid Flowing in a Horizontal Porous Layer with an Open Boundary: A Two-Dimensional Analysis. <i>Transport in Porous Media</i> , 2017, 118, 449-471.	2.6	12
38	Gravity currents produced by lock-release: Theory and experiments concerning the effect of a free top in non-Boussinesq systems. <i>Advances in Water Resources</i> , 2018, 121, 456-471.	3.8	12
39	Onset of Darcy-Bénard convection under throughflow of a shear-thinning fluid. <i>Journal of Fluid Mechanics</i> , 2020, 889, .	3.4	11
40	Phyto-based sodium chloride hydrogel for highway winter maintenance of porous asphalt pavements. <i>Construction and Building Materials</i> , 2022, 319, 126082.	7.2	11
41	On the propagation of viscous gravity currents of non-Newtonian fluids in channels with varying cross section and inclination. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 235, 95-108.	2.4	10
42	Cross-shore variability and vorticity dynamics during wave breaking on a fixed bar. <i>Coastal Engineering</i> , 2017, 127, 119-133.	4.0	10
43	Relaxation-induced flow in a smooth fracture for Ellis rheology. <i>Advances in Water Resources</i> , 2021, 152, 103914.	3.8	10
44	Axisymmetric gravity currents within porous media: First order solution and experimental validation. <i>Journal of Hydrology</i> , 2014, 519, 238-247.	5.4	9
45	Porous gravity currents: Axisymmetric propagation in horizontally graded medium and a review of similarity solutions. <i>Advances in Water Resources</i> , 2018, 115, 136-150.	3.8	9
46	Statistical analysis of the interaction between wind-waves and currents during early wave generation. <i>Coastal Engineering</i> , 2020, 159, 103672.	4.0	9
47	Experimental investigation on backflow of power-law fluids in planar fractures. <i>Physics of Fluids</i> , 2021, 33, .	4.0	9
48	Experimental analysis of the coherent structures and turbulence past a hydrofoil in stalling condition beneath a water-air interface. <i>European Journal of Mechanics, B/Fluids</i> , 2014, 43, 172-182.	2.5	8
49	On the propagation of particulate gravity currents in circular and semi-circular channels partially filled with homogeneous or stratified ambient fluid. <i>Physics of Fluids</i> , 2017, 29, 106605.	4.0	8
50	The Reynolds wave shear stress in partially reflected waves. <i>Coastal Engineering</i> , 2018, 138, 220-226.	4.0	7
51	Buoyancy transfer in a two-layer system in steady state. Experiments in a Taylor-Couette cell. <i>Journal of Fluid Mechanics</i> , 2020, 896, .	3.4	7
52	Analytical study of the water surface fluctuations induced by grid-stirred turbulence. <i>Applied Mathematical Modelling</i> , 2013, 37, 7206-7222.	4.2	6
53	Dispersion induced by non-Newtonian gravity flow in a layered fracture or formation. <i>Journal of Fluid Mechanics</i> , 2020, 903, .	3.4	6
54	Granular streams rheology and mechanics. <i>Physics and Chemistry of the Earth</i> , 2000, 25, 375-380.	0.3	5

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55	Experiments on the two-dimensional flow of a grain-water mixture past a circular cylinder. <i>European Journal of Mechanics, B/Fluids</i> , 2012, 36, 139-151.	2.5	5
56	The turbulent structure of the flow field generated by a hydrofoil in stalling condition beneath a water-air interface. <i>Experimental Thermal and Fluid Science</i> , 2015, 61, 34-47.	2.7	5
57	Ripple and sandbar dynamics under mid-reflecting conditions with a porous vertical breakwater. <i>Coastal Engineering</i> , 2017, 125, 95-118.	4.0	5
58	Critical regime of gravity currents flowing in non-rectangular channels with density stratification. <i>Journal of Fluid Mechanics</i> , 2018, 840, 579-612.	3.4	5
59	Non-Boussinesq gravity currents and surface waves generated by lock release in a circular-section channel: theoretical and experimental investigation. <i>Journal of Fluid Mechanics</i> , 2019, 869, 610-633.	3.4	5
60	On the interaction between partially-reflected waves and an opposing wind. <i>Coastal Engineering</i> , 2020, 162, 103774.	4.0	5
61	Converging gravity currents of power-law fluid. <i>Journal of Fluid Mechanics</i> , 2021, 918, .	3.4	5
62	Experimental study of the grain-water mixture flow past a cylinder of different shapes. <i>European Journal of Mechanics, B/Fluids</i> , 2013, 38, 101-113.	2.5	4
63	Analysis of a boundary layer of a granular mixture flowing past a plate at zero incidence. <i>European Journal of Mechanics, B/Fluids</i> , 2014, 46, 59-73.	2.5	4
64	Stability Analysis of Gravity Currents of a Power-Law Fluid in a Porous Medium. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	1.1	4
65	Interaction of Swell and Sea Waves with Partially Reflective Structures for Possible Engineering Applications. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 31.	2.6	3
66	Shear-Thinning Fluid Flow in Variable-Aperture Channels. <i>Water (Switzerland)</i> , 2020, 12, 1152.	2.7	3
67	Advancement in measuring the hydraulic conductivity of porous asphalt pavements. <i>Construction and Building Materials</i> , 2021, 300, 124110.	7.2	3
68	Porous Gravity Currents of Non-Newtonian Fluids within Confining Boundaries. <i>Procedia Environmental Sciences</i> , 2015, 25, 58-65.	1.4	2
69	Sediment Transport Under (NON)-Linear Waves and Currents. , 1995, , 2527.		1
70	Bottom Stress in Non Stationary Free Surface Flow. , 2001, , 848.		1
71	Experimental verification of theoretical approaches for radial gravity currents draining from an edge. <i>Acta Mechanica</i> , 2021, 232, 4461-4483.	2.1	1
72	Hydrostatic Forces on Submerged Curved Surfaces. <i>Springer Tracts in Civil Engineering</i> , 2021, , 37-94.	0.5	1

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73	Experimental study on radial gravity currents flowing in a vegetated channel. Journal of Fluid Mechanics, 2022, 933, .	3.4	1
74	VELOCITY MEASUREMENTS UNDER BROKEN WAVES AND BORES. , 2005, , .		0
75	Limiting conditions for the existence of permanent periodic roll waves in stony debris flows. , 2006, , .		0
76	Immersed and Floating Bodies. Springer Tracts in Civil Engineering, 2021, , 95-126.	0.5	0
77	Balances of Linear and Angular Momentum. Springer Tracts in Civil Engineering, 2021, , 127-202.	0.5	0
78	Industrial Hydraulic Systems. Springer Tracts in Civil Engineering, 2021, , 233-244.	0.5	0