

Luca Solari

List of Publications by Year in descending order

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56
papers

1,463
citations

361413

20
h-index

345221

36
g-index

62
all docs

62
docs citations

62
times ranked

1268
citing authors

#	ARTICLE	IF	CITATIONS
1	Threshold Conditions for the Shift Between Vegetated and Barebed Rivers. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
2	Explaining multiple patches of aquatic vegetation through linear stability analysis. <i>Environmental Fluid Mechanics</i> , 2022, 22, 645-658.	1.6	3
3	Effects of vegetation at a bar confluence on river hydrodynamics: The case study of the Arno River at Greve junction. <i>River Research and Applications</i> , 2021, 37, 615-626.	1.7	5
4	On the prediction of settling velocity for plastic particles of different shapes. <i>Environmental Pollution</i> , 2021, 290, 118068.	7.5	36
5	On the vulnerability of woody riparian vegetation during flood events. <i>Environmental Fluid Mechanics</i> , 2020, 20, 635-661.	1.6	11
6	Equilibrium Cross Section of River Channels With Cohesive Erodible Banks. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005286.	2.8	17
7	Biomorphological scaling laws from convectively accelerated streams. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 723-735.	2.5	8
8	Morphology, Bedload, and Sorting Process Variability in Response to Lateral Confinement: Results From Physical Models of Gravel-bed Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2020JF005773.	2.8	6
9	Monitoring of internal erosion processes by time-lapse electrical resistivity tomography. <i>Journal of Hydrology</i> , 2020, 589, 125340.	5.4	17
10	Reducing the Flood Risk of Art Cities: The Case of Florence. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	7
11	Bridge pier shape influence on wood accumulation: Outcomes from flume experiments and numerical modelling. <i>Journal of Flood Risk Management</i> , 2020, 13, e12599.	3.3	18
12	On the effects of vegetated bars on river hydrodynamics. , 2020, , 1509-1515.		1
13	Evaluation of Flow Resistance Models Based on Field Experiments in a Partly Vegetated Reclamation Channel. <i>Geosciences (Switzerland)</i> , 2020, 10, 47.	2.2	39
14	Burrowing activity of <i>Procambarus clarkii</i> on levees: analysing behaviour and burrow structure. <i>Wetlands Ecology and Management</i> , 2019, 27, 497-511.	1.5	19
15	Return period of vegetation uprooting by flow. <i>Journal of Hydrology</i> , 2019, 578, 124103.	5.4	11
16	Flow dynamics and turbulence patterns in a drainage channel colonized by common reed (<i>Phragmites</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T 39-52.	3.6	59
17	A Physical Model for the Uprooting of Flexible Vegetation on River Bars. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1018-1034.	2.8	20
18	Comparative analysis of modeled and measured vegetative ChÃ©zy flow resistance coefficients in a drainage channel vegetated by dormant riparian reed. , 2019, , .		11

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19	Three-dimensional hydraulic characterisation of the Arno River in Florence. <i>Journal of Flood Risk Management</i> , 2019, 12, .	3.3	6
20	On the vulnerability of river levees induced by seepage. <i>Journal of Flood Risk Management</i> , 2018, 11, S677-S686.	3.3	9
21	Experimental observations on sorting patterns of heterogeneous sediment mixtures in low constrained flows. <i>E3S Web of Conferences</i> , 2018, 40, 04015.	0.5	0
22	Flume experiments on vegetated alternate bars. <i>E3S Web of Conferences</i> , 2018, 40, 02034.	0.5	3
23	The effect of flexible vegetation on flow in drainage channels: Estimation of roughness coefficients at the real scale. <i>Ecological Engineering</i> , 2018, 120, 411-421.	3.6	38
24	In-channel wood-related hazards at bridges: <sc>A</sc> review. <i>River Research and Applications</i> , 2018, 34, 617-628.	1.7	46
25	Advances on Modelling Riparian Vegetation-Hydromorphology Interactions. <i>River Research and Applications</i> , 2016, 32, 164-178.	1.7	90
26	Insights into lateral marsh retreat mechanism through localized field measurements. <i>Water Resources Research</i> , 2016, 52, 1446-1464.	4.2	63
27	Side Weir Flow on a Movable Bed. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	1.5	5
28	On the estimation of the bed-material transport and budget along a river segment: application to the Middle Loire River, France. <i>Aquatic Sciences</i> , 2016, 78, 71-81.	1.5	6
29	Marchi's Research on Supercritical Flow in Tight Bends and Backwater Effects. <i>Journal of Hydraulic Engineering</i> , 2016, 142, 02515004.	1.5	1
30	Second order discontinuous Galerkin scheme for compound natural channels with movable bed. Applications for the computation of rating curves. <i>Advances in Water Resources</i> , 2016, 93, 89-104.	3.8	6
31	Wood accumulation at bridges: Laboratory experiments on the effect of pier shape. , 2016, , .		5
32	Downstream lightening and upward heavying: Experiments with sediments differing in density. <i>Sedimentology</i> , 2015, 62, 1384-1407.	3.1	10
33	Monitoring Sediment Transport During Floods in Tuscany. , 2015, , 335-337.		0
34	On salt marshes retreat: Experiments and modeling toppling failures induced by wind waves. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 603-620.	2.8	39
35	Morphodynamic modeling of the basal boundary of ice cover on brackish lakes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1432-1442.	2.8	8
36	Ecomorphodynamic evolution of salt marshes: Experimental observations of bank retreat processes. <i>Geomorphology</i> , 2013, 195, 53-65.	2.6	77

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37	A combined field sampling-modeling approach for computing sediment transport during flash floods in a gravel-bed stream. <i>Water Resources Research</i> , 2013, 49, 6642-6655.	4.2	8
38	Applicability of the De Marchi Hypothesis for Side Weir Flow in the Case of Movable Beds. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 653-656.	1.5	14
39	An experimental investigation on mass failures occurring in a riverbank composed of sandy gravel. <i>Geomorphology</i> , 2012, 163-164, 56-69.	2.6	61
40	Do alternate bars affect sediment transport and flow resistance in gravel-bed rivers?. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 866-875.	2.5	55
41	Near-Bed Turbulence Characteristics at the Entrainment Threshold of Sediment Beds. <i>Journal of Hydraulic Engineering</i> , 2011, 137, 945-958.	1.5	100
42	Closure to "Effect of Seepage-Induced Nonhydrostatic Pressure Distribution on Bed-Load Transport and Bed Morphodynamics" by Simona Francalanci, Gary Parker, and Luca Solari. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 79-82.	1.5	2
43	On the erosion due to inclined jets. <i>Annals of Warsaw University of Life Sciences, Land Reclamation</i> , 2010, 42, 187-196.	0.2	1
44	Local high-slope effects on sediment transport and fluvial bed form dynamics. <i>Water Resources Research</i> , 2009, 45, .	4.2	11
45	Effect of Seepage-Induced Nonhydrostatic Pressure Distribution on Bed-Load Transport and Bed Morphodynamics. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 378-389.	1.5	41
46	Conservative Scheme for Numerical Modeling of Flow in Natural Geometry. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 736-748.	1.5	25
47	Discussion of "Flow Resistance of Rock Chutes with Protruding Boulders" by S. Pagliara and P. Chiavaccini. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 1021-1022.	1.5	1
48	Bed-Load Transport Equation on Arbitrarily Sloping Beds. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 110-115.	1.5	12
49	Gravitational effects on bed load transport at low Shields stress: Experimental observations. <i>Water Resources Research</i> , 2007, 43, .	4.2	19
50	Effects of macro-scale bed roughness geometry on flow resistance. <i>Water Resources Research</i> , 2007, 43, .	4.2	52
51	Dissipative analogies between a schematic macro-roughness arrangement and step-pool morphology. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 1628-1640.	2.5	52
52	1D morphodynamic model for natural rivers. , 2006, , .		2
53	Case Study: Efficiency of Slit-Check Dams in the Mountain Region of Versilia Basin. <i>Journal of Hydraulic Engineering</i> , 2005, 131, 145-152.	1.5	40
54	Bed load at low Shields stress on arbitrarily sloping beds: Alternative entrainment formulation. <i>Water Resources Research</i> , 2003, 39, .	4.2	99

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55	Bed load at low Shields stress on arbitrarily sloping beds: Failure of the Bagnold hypothesis. <i>Water Resources Research</i> , 2002, 38, 31-1-31-16.	4.2	109
56	The Curious Case of Mobility Reversal in Sediment Mixtures. <i>Journal of Hydraulic Engineering</i> , 2000, 126, 185-197.	1.5	39