

Stefano Lanzoni

List of Publications by Year in descending order

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90
papers

4,941
citations

71102

41
h-index

95266

68
g-index

94
all docs

94
docs citations

94
times ranked

2520
citing authors

#	ARTICLE	IF	CITATIONS
1	Landscape evolution in tidal embayments: Modeling the interplay of erosion, sedimentation, and vegetation dynamics. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	247
2	Biologically-controlled multiple equilibria of tidal landforms and the fate of the Venice lagoon. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	199
3	Long-term evolution and morphodynamic equilibrium of tidal channels. <i>Journal of Geophysical Research</i> , 2002, 107, 1-1.	3.3	184
4	Understanding and predicting wave erosion of marsh edges. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	176
5	Tidal networks: 2. Watershed delineation and comparative network morphology. <i>Water Resources Research</i> , 1999, 35, 3905-3917.	4.2	171
6	On tide propagation in convergent estuaries. <i>Journal of Geophysical Research</i> , 1998, 103, 30793-30812.	3.3	166
7	On the drainage density of tidal networks. <i>Water Resources Research</i> , 2003, 39, .	4.2	159
8	The importance of being coupled: Stable states and catastrophic shifts in tidal biomorphodynamics. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	150
9	Tidal networks: 1. Automatic network extraction and preliminary scaling features from digital terrain maps. <i>Water Resources Research</i> , 1999, 35, 3891-3904.	4.2	149
10	Tidal network ontogeny: Channel initiation and early development. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	146
11	Modeling the influence of hydroperiod and vegetation on the cross-sectional formation of tidal channels. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 69, 311-324.	2.1	143
12	Tidal networks: 3. Landscape-forming discharges and studies in empirical geomorphic relationships. <i>Water Resources Research</i> , 1999, 35, 3919-3929.	4.2	133
13	Tidal meanders. <i>Water Resources Research</i> , 2002, 38, 7-1-7-14.	4.2	130
14	Experiments on bar formation in a straight flume: 1. Uniform sediment. <i>Water Resources Research</i> , 2000, 36, 3337-3349.	4.2	119
15	Is "Morphodynamic Equilibrium" an oxymoron?. <i>Earth-Science Reviews</i> , 2017, 165, 257-267.	9.1	112
16	Experiments on bar formation in a straight flume: 2. Graded sediment. <i>Water Resources Research</i> , 2000, 36, 3351-3363.	4.2	101
17	Spontaneous tidal network formation within a constructed salt marsh: Observations and morphodynamic modelling. <i>Geomorphology</i> , 2007, 91, 186-197.	2.6	95
18	On the tidal prism "channel area relations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	91

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19	On the nature of meander instability. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	86
20	Coarse-grained debris flow dynamics on erodible beds. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 592-614.	2.8	85
21	Morphodynamic regime and long-term evolution of meandering rivers. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	83
22	Experimental analysis of tidal network growth and development. <i>Continental Shelf Research</i> , 2010, 30, 950-962.	1.8	83
23	Tidal landforms, patterns of halophytic vegetation and the fate of the lagoon of Venice. <i>Journal of Marine Systems</i> , 2004, 51, 191-210.	2.1	79
24	Laboratory Experiments on the Failure of Coarse Homogeneous Sediment Natural Dams on a Sloping Bed. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 868-879.	1.5	75
25	Grain sorting and bar instability. <i>Journal of Fluid Mechanics</i> , 1999, 393, 149-174.	3.4	73
26	Geomorphic signatures of deltaic processes and vegetation: The Ganges-Brahmaputra-Jamuna case study. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1838-1849.	2.8	71
27	The life of a meander bend: Connecting shape and dynamics via analysis of a numerical model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 690-710.	2.8	71
28	Where river and tide meet: The morphodynamic equilibrium of alluvial estuaries. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 75-94.	2.8	68
29	Field migration rates of tidal meanders recapitulate fluvial morphodynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1463-1468.	7.1	66
30	Long waves in erodible channels and morphodynamic influence. <i>Water Resources Research</i> , 2006, 42, .	4.2	65
31	Insights into lateral marsh retreat mechanism through localized field measurements. <i>Water Resources Research</i> , 2016, 52, 1446-1464.	4.2	63
32	Runoff-generated debris flows: Observation of initiation conditions and erosion-deposition dynamics along the channel at Cancia (eastern Italian Alps). <i>Earth Surface Processes and Landforms</i> , 2020, 45, 3556-3571.	2.5	63
33	Multiscale statistical characterization of migrating bed forms in gravel and sand bed rivers. <i>Water Resources Research</i> , 2011, 47, .	4.2	60
34	Analysis, synthesis and modelling of high-resolution observations of salt-marsh eco-geomorphological patterns in the Venice lagoon. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 69, 414-426.	2.1	58
35	Relevance of erosion processes when modelling in-channel gravel debris flows for efficient hazard assessment. <i>Journal of Hydrology</i> , 2019, 568, 575-591.	5.4	57
36	Sand bars in tidal channels Part 2. Tidal meanders. <i>Journal of Fluid Mechanics</i> , 2002, 451, 203-238.	3.4	54

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37	Runoff of small rocky headwater catchments: Field observations and hydrological modeling. <i>Water Resources Research</i> , 2016, 52, 8138-8158.	4.2	52
38	One-dimensional numerical modeling of the long-term morphodynamic evolution of a tidally-dominated estuary: The Lower Fly River (Papua New Guinea). <i>Sedimentary Geology</i> , 2014, 301, 107-119.	2.1	51
39	On funneling of tidal channels. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 433-452.	2.8	51
40	Modeling meander morphodynamics over self-formed heterogeneous floodplains. <i>Water Resources Research</i> , 2017, 53, 5137-5157.	4.2	51
41	How long are tidal channels?. <i>Journal of Fluid Mechanics</i> , 2010, 643, 479-494.	3.4	46
42	Tidal hydrodynamics and erosional power in the Fly River delta, Papua New Guinea. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	41
43	Remotely-sensed planform morphologies reveal fluvial and tidal nature of meandering channels. <i>Scientific Reports</i> , 2020, 10, 54.	3.3	41
44	Propagation and deposition of stony debris flows at channel confluences. <i>Water Resources Research</i> , 2015, 51, 5100-5116.	4.2	38
45	A geomorphic study of lagoonal landforms. <i>Water Resources Research</i> , 2005, 41, .	4.2	37
46	On the O'Brien-Jarrett-Marchi law. <i>Rendiconti Lincei</i> , 2009, 20, 225-236.	2.2	36
47	Experimental Study of the Flow Field over Bottom Intake Racks. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 15-22.	1.5	35
48	Morphological equilibrium of short channels dissecting the tidal flats of coastal lagoons. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
49	A mathematical model for meandering rivers with varying width. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1641-1657.	2.8	30
50	Long-term river meandering as a part of chaotic dynamics? A contribution from mathematical modelling. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 791-802.	2.5	29
51	Modeling the morphodynamic equilibrium of an intermediate reach of the Po River (Italy). <i>Advances in Water Resources</i> , 2015, 81, 95-102.	3.8	27
52	A Numerical Model of Bank Collapse and River Meandering. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093516.	4.0	23
53	Experimental investigation of the impact of macroalgal mats on flow dynamics and sediment stability in shallow tidal areas. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 112, 52-60.	2.1	21
54	A mass-conservative centered finite volume model for solving two-dimensional two-layer shallow water equations for fluid mud propagation over varying topography and dry areas. <i>Advances in Water Resources</i> , 2012, 40, 54-70.	3.8	20

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55	Threshold constraints on the size, shape and stability of alluvial rivers. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 406-419.	29.7	20
56	Nonlinearity and complexity in gravel bed dynamics. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 967-975.	4.0	18
57	High curvatures drive river meandering: COMMENT. <i>Geology</i> , 2019, 47, e485-e485.	4.4	18
58	A Review on Bank Retreat: Mechanisms, Observations, and Modeling. <i>Reviews of Geophysics</i> , 2022, 60, .	23.0	18
59	Bedform effect on the reorganization of surface and subsurface grain size distribution in gravel bedded channels. <i>Acta Geophysica</i> , 2012, 60, 1607-1638.	2.0	15
60	Bed evolution measurement with flowing water in morphodynamics experiments. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 818-827.	2.5	15
61	An approximate solution to the flow field on vegetated intertidal platforms: Applicability and limitations. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1682-1703.	2.8	15
62	On the Morphodynamic Equilibrium of a Short Tidal Channel. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 639-665.	2.8	15
63	Assessing the relative contributions of the flood tide and the ebb tide to tidal channel network dynamics. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 237-250.	2.5	15
64	Modeling shallow water flows on general terrains. <i>Advances in Water Resources</i> , 2018, 121, 316-332.	3.8	14
65	Meandering Evolution and Width Variations: A Physics-Statistics-Based Modeling Approach. <i>Water Resources Research</i> , 2019, 55, 76-94.	4.2	14
66	Intertwined eco-morphodynamic evolution of salt marshes and emerging tidal channel networks. <i>Water Resources Research</i> , 0, , .	4.2	14
67	Stability of a stratified viscous shear flow in a tilted tube. <i>Physics of Fluids</i> , 1999, 11, 344-355.	4.0	12
68	Effects of Vegetation, Sediment Supply and Sea Level Rise on the Morphodynamic Evolution of Tidal Channels. <i>Water Resources Research</i> , 2021, 57, e2020WR028577.	4.2	12
69	A simplified model for frictionally dominated tidal flows. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	11
70	Experimental investigation of the impact of macroalgal mats on the wave and current dynamics. <i>Advances in Water Resources</i> , 2016, 93, 326-335.	3.8	11
71	Mutual interference of two debris flow deposits delivered in a downstream river reach. <i>Journal of Mountain Science</i> , 2014, 11, 1385-1395.	2.0	10
72	Coastal wetlands at risk: learning from Venice and New Orleans. <i>Ecohydrology and Hydrobiology</i> , 2011, 11, 183-202.	2.3	9

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73	Tidal Networks: form and Function. Coastal and Estuarine Studies, 0, , 75-91.	0.4	9
74	River banks and channel axis curvature: Effects on the longitudinal dispersion in alluvial rivers. Advances in Water Resources, 2018, 113, 55-72.	3.8	9
75	Astronomic link to anomalously high mean sea level in the northern Adriatic Sea. Estuarine, Coastal and Shelf Science, 2021, 257, 107418.	2.1	9
76	A New Method for Automatic Definition of Tidal Creek Networks. Journal of Coastal Research, 2018, 85, 156-160.	0.3	7
77	Scour depth around flat and sloped crest bendway weirs: a laboratory study. International Journal of River Basin Management, 2016, 14, 83-93.	2.7	5
78	Mathematical modelling of bedload transport over partially dry areas. Acta Geophysica, 2008, 56, 734-752.	2.0	3
79	Salt-Marsh Ecogeomorphological Dynamics and Hydrodynamic Circulation. , 2019, , 189-220.		3
80	Eco-morphodynamics of coastal wetlands. Rendiconti Lincei, 2022, 33, 217-243.	2.2	3
81	Reply to comment by Cao and Hu on "Long waves in erodible channels and morphodynamic influence". Water Resources Research, 2008, 44, .	4.2	2
82	Closure to "Experimental Study of the Flow Field over Bottom Intake Racks" by Maurizio Righetti and Stefano Lanzoni. Journal of Hydraulic Engineering, 2009, 135, 865-868.	1.5	2
83	Finite volume modelling of a stratified flow with the presence of submerged weirs. Journal of Applied Water Engineering and Research, 2015, 3, 43-52.	1.8	2
84	Stony Debris Flow Debouching in a River Reach: Energy Dissipative Mechanisms and Deposit Morphology. , 2017, , 377-383.		1
85	River, Coastal and Estuarine Morphodynamics Selected papers from the 10th anniversary of the RCEM Symposium. Earth Surface Processes and Landforms, 2020, 45, 1311-1314.	2.5	0
86	Morphodynamic Modeling of Alluvial Rivers and Floodplains. , 2021, , .		0
87	River and Tidal Networks. , 2001, , 191-211.		0
88	Geomorphological properties of a lagoonal system. , 2006, , .		0
89	On the convective nature of bend instability. , 2006, , .		0
90	Long-term behaviour of meandering rivers. , 2007, , 839-846.		0