

Luca Carniello

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,629
citations

201385

27
h-index

189595

50
g-index

65
all docs

65
docs citations

65
times ranked

1675
citing authors

#	ARTICLE	IF	CITATIONS
1	Loss of geomorphic diversity in shallow tidal embayments promoted by storm-surge barriers. <i>Science Advances</i> , 2022, 8, eabm8446.	4.7	23
2	Modelling Tidal Environments. , 2021, , .		0
3	Astronomic link to anomalously high mean sea level in the northern Adriatic Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 257, 107418.	0.9	9
4	How long the Mo.S.E. barriers will be effective in protecting all urban settlements within the Venice Lagoon? The wind setup constraint. <i>Coastal Engineering</i> , 2021, 168, 103923.	1.7	13
5	The first operations of Mo.S.E. system to prevent the flooding of Venice: Insights on the hydrodynamics of a regulated lagoon. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 261, 107547.	0.9	22
6	Marsh resilience to sea-level rise reduced by storm-surge barriers in the Venice Lagoon. <i>Nature Geoscience</i> , 2021, 14, 906-911.	5.4	41
7	Remote Sensing for Optimal Estimation of Water Temperature Dynamics in Shallow Tidal Environments. <i>Remote Sensing</i> , 2020, 12, 51.	1.8	13
8	Optimal floodgate operation for river flood management: The case study of Padova (Italy). <i>Journal of Hydrology: Regional Studies</i> , 2020, 30, 100702.	1.0	28
9	Three-dimensional Flow Structures and Morphodynamic Evolution of Microtidal Meandering Channels. <i>Water Resources Research</i> , 2020, 56, e2020WR027822.	1.7	22
10	Multipurpose Use of Artificial Channel Networks for Flood Risk Reduction: The Case of the Waterway Padova-Venice (Italy). <i>Water (Switzerland)</i> , 2020, 12, 1609.	1.2	11
11	River, Coastal and Estuarine Morphodynamics Selected papers from the 10th anniversary of the RCEM Symposium. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1311-1314.	1.2	0
12	Control of wind-wave power on morphological shape of salt marsh margins. <i>Water Science and Engineering</i> , 2020, 13, 45-56.	1.4	26
13	Addressing the effect of the Mo.S.E. barriers closure on wind setup within the Venice lagoon. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 225, 106249.	0.9	26
14	Natural and Human-Induced Flow and Sediment Transport within Tidal Creek Networks Influenced by Ocean-Bay Tides. <i>Water (Switzerland)</i> , 2019, 11, 1493.	1.2	9
15	Dataset of wind setup in a regulated Venice lagoon. <i>Data in Brief</i> , 2019, 26, 104386.	0.5	8
16	On the feedback between water turbidity and microphytobenthos growth in shallow tidal environments. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 1192-1206.	1.2	18
17	Experimental Setup and Measuring System to Study Solitary Wave Interaction with Rigid Emergent Vegetation. <i>Sensors</i> , 2019, 19, 1787.	2.1	8
18	Changes in the wind-wave field and related salt-marsh lateral erosion: inferences from the evolution of the Venice Lagoon in the last four centuries. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 1633-1646.	1.2	52

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19	Tidal Flow Asymmetry and Discharge of Lateral Tributaries Drive the Evolution of a Microtidal Meander in the Venice Lagoon (Italy). <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 3043-3066.	1.0	21
20	Modelling, simulation and real-time control of a laboratory tide generation system. <i>Control Engineering Practice</i> , 2019, 83, 165-175.	3.2	7
21	Mathematical Modeling of Tidal Flow Over Saltmarshes and Tidal Flats With Applications to the Venice Lagoon. , 2019, , 325-355.		0
22	Water and sediment temperature dynamics in shallow tidal environments: The role of the heat flux at the sediment-water interface. <i>Advances in Water Resources</i> , 2018, 113, 126-140.	1.7	18
23	Anthropogenic Modifications Can Significantly Influence the Local Mean Sea Level and Affect the Survival of Salt Marshes in Shallow Tidal Systems. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 996-1012.	1.0	30
24	Morphodynamic evolution and stratal architecture of translating tidal point bars: Inferences from the northern Venice Lagoon (Italy). <i>Sedimentology</i> , 2018, 65, 1354-1377.	1.6	28
25	Laboratory experiments on solitary wave interaction with rigid emergent vegetation: some preliminary results. , 2018, , .		0
26	Model-free Control of an Artificial Tide Generation Experimental Apparatus. <i>IFAC-PapersOnLine</i> , 2018, 51, 829-834.	0.5	2
27	Modelling and Simulation of an Artificial Tide Generation System. <i>IFAC-PapersOnLine</i> , 2018, 51, 13-18.	0.5	3
28	Assessing the morphodynamic response of human-altered tidal embayments. <i>Geomorphology</i> , 2018, 320, 127-141.	1.1	24
29	Morphodynamic evolution and sedimentology of a microtidal meander bend of the Venice Lagoon (Italy). <i>Marine and Petroleum Geology</i> , 2018, 96, 391-404.	1.5	20
30	Spatially integrative metrics reveal hidden vulnerability of microtidal salt marshes. <i>Nature Communications</i> , 2017, 8, 14156.	5.8	167
31	MORPHODYNAMIC RESPONSE TO HUMAN ACTIVITIES IN THE BAY OF CAË,ÂDIZ (2012-2015). <i>Coastal Engineering Proceedings</i> , 2017, , 16.	0.1	2
32	Statistical characterization of spatiotemporal sediment dynamics in the Venice lagoon. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1049-1064.	1.0	32
33	Sediment and vegetation spatial dynamics facing sea-level rise in microtidal salt marshes: Insights from an ecogeomorphic model. <i>Advances in Water Resources</i> , 2016, 93, 249-264.	1.7	35
34	An ecogeomorphic model of tidal channel initiation and elaboration in progressive marsh accretional contexts. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1040-1064.	1.0	48
35	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.	1.0	15
36	Integrated mathematical modeling of hydrological and hydrodynamic response to rainfall events in rural lowland catchments. <i>Water Resources Research</i> , 2014, 50, 5941-5957.	1.7	41

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37	Analysis of the drainage density of experimental and modelled tidal networks. <i>Earth Surface Dynamics</i> , 2014, 2, 105-116.	1.0	26
38	Sediment dynamics in shallow tidal basins: In situ observations, satellite retrievals, and numerical modeling in the Venice Lagoon. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 802-815.	1.0	50
39	A comparative study of physical and numerical modeling of tidal network ontogeny. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 892-912.	1.0	51
40	Simplified methods for real-time prediction of storm surge uncertainty: The city of Venice case study. <i>Advances in Water Resources</i> , 2014, 71, 177-185.	1.7	34
41	Mathematical modeling of flooding due to river bank failure. <i>Advances in Water Resources</i> , 2013, 59, 82-94.	1.7	64
42	Statistical mechanics of wind wave-induced erosion in shallow tidal basins: Inferences from the Venice Lagoon. <i>Geophysical Research Letters</i> , 2013, 40, 3402-3407.	1.5	46
43	Signatures of sea level changes on tidal geomorphology: Experiments on network incision and retreat. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	49
44	A simplified model for frictionally dominated tidal flows. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	11
45	Modeling sand-mud transport induced by tidal currents and wind waves in shallow microtidal basins: Application to the Venice Lagoon (Italy). <i>Estuarine, Coastal and Shelf Science</i> , 2012, 102-103, 105-115.	0.9	96
46	Dynamic response of marshes to perturbations in suspended sediment concentrations and rates of relative sea level rise. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	77
47	Modeling wind waves and tidal flows in shallow micro-tidal basins. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 92, 263-276.	0.9	81
48	Influence of storm surges and sea level on shallow tidal basin erosive processes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	108
49	The importance of being coupled: Stable states and catastrophic shifts in tidal biomorphodynamics. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	150
50	Experimental analysis of tidal network growth and development. <i>Continental Shelf Research</i> , 2010, 30, 950-962.	0.9	83
51	Morphological evolution of the Venice lagoon: Evidence from the past and trend for the future. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	127
52	Sea level rise, hydrologic runoff, and the flooding of Venice. <i>Water Resources Research</i> , 2008, 44, .	1.7	30
53	Biologically-controlled multiple equilibria of tidal landforms and the fate of the Venice lagoon. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	199
54	Self-organization of shallow basins in tidal flats and salt marshes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	71

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55	Wind waves in shallow microtidal basins and the dynamic equilibrium of tidal flats. Journal of Geophysical Research, 2007, 112, .	3.3	86
56	A conceptual model for the long term evolution of tidal flats in the Venice lagoon. , 2007, , 137-144.		3
57	Multiple equilibria in tidal eco-geomorphology. , 2007, , 263-269.		1
58	Critical bifurcation of shallow microtidal landforms in tidal flats and salt marshes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8337-8341.	3.3	222
59	A combined wind wave-tidal model for the Venice lagoon, Italy. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	113
60	Two dimensional modelling of flood flows and suspended sedimenttransport: the case of the Brenta River, Veneto (Italy). Natural Hazards and Earth System Sciences, 2004, 4, 165-181.	1.5	28