

Andrea D'Alpaos

List of Publications by Year in descending order

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93
papers

5,364
citations

101543

36
h-index

88630

70
g-index

121
all docs

121
docs citations

121
times ranked

2939
citing authors

#	ARTICLE	IF	CITATIONS
1	Limits on the adaptability of coastal marshes to rising sea level. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	613
2	Numerical models of salt marsh evolution: Ecological, geomorphic, and climatic factors. <i>Reviews of Geophysics</i> , 2012, 50, .	23.0	511
3	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
4	How does vegetation affect sedimentation on tidal marshes? Investigating particle capture and hydrodynamic controls on biologically mediated sedimentation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	230
5	Biologically-controlled multiple equilibria of tidal landforms and the fate of the Venice lagoon. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	199
6	Understanding and predicting wave erosion of marsh edges. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	176
7	Spatially integrative metrics reveal hidden vulnerability of microtidal salt marshes. <i>Nature Communications</i> , 2017, 8, 14156.	12.8	167
8	Vegetation engineers marsh morphology through multiple competing stable states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3259-3263.	7.1	165
9	On the drainage density of tidal networks. <i>Water Resources Research</i> , 2003, 39, .	4.2	159
10	The importance of being coupled: Stable states and catastrophic shifts in tidal biomorphodynamics. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	150
11	Tidal network ontogeny: Channel initiation and early development. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	146
12	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
13	Is ‘‘Morphodynamic Equilibrium’’ an oxymoron?. <i>Earth-Science Reviews</i> , 2017, 165, 257-267.	9.1	112
14	Spontaneous tidal network formation within a constructed salt marsh: Observations and morphodynamic modelling. <i>Geomorphology</i> , 2007, 91, 186-197.	2.6	95
15	On the tidal prism’s ‘‘channel area relations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	91
16	Experimental analysis of tidal network growth and development. <i>Continental Shelf Research</i> , 2010, 30, 950-962.	1.8	83
17	Modeling wind waves and tidal flows in shallow micro-tidal basins. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 92, 263-276.	2.1	81
18	Reading the signatures of biologic’s ‘‘geomorphic feedbacks in salt-marsh landscapes. <i>Advances in Water Resources</i> , 2016, 93, 265-275.	3.8	81

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19	Spatial variation of salt-marsh organic and inorganic deposition and organic carbon accumulation: Inferences from the Venice lagoon, Italy. <i>Advances in Water Resources</i> , 2016, 93, 276-287.	3.8	80
20	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
21	The mutual influence of biotic and abiotic components on the long-term ecomorphodynamic evolution of salt-marsh ecosystems. <i>Geomorphology</i> , 2011, 126, 269-278.	2.6	75
22	Global-change effects on early-stage decomposition processes in tidal wetlands “ implications from a global survey using standardized litter. <i>Biogeosciences</i> , 2018, 15, 3189-3202.	3.3	73
23	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
24	Mathematical modeling of flooding due to river bank failure. <i>Advances in Water Resources</i> , 2013, 59, 82-94.	3.8	64
25	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
26	Biogeomorphology of tidal landforms: physical and biological processes shaping the tidal landscape. <i>Ecohydrology</i> , 2012, 5, 550-562.	2.4	54
27	Changes in the windâ€wave field and related saltâ€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.	2.5	52
28	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.	2.8	51
29	On funneling of tidal channels. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 433-452.	2.8	51
30	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.	2.8	50
31	Combined effects of tides, evaporation and rainfall on the soil conditions in an intertidal creek-marsh system. <i>Advances in Water Resources</i> , 2017, 103, 1-15.	3.8	50
32	Signatures of sea level changes on tidal geomorphology: Experiments on network incision and retreat. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	49
33	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.	2.8	48
34	Statistical mechanics of wind waveâ€induced erosion in shallow tidal basins: Inferences from the Venice Lagoon. <i>Geophysical Research Letters</i> , 2013, 40, 3402-3407.	4.0	46
35	The secret gardener: vegetation and the emergence of biogeomorphic patterns in tidal environments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120367.	3.4	41
36	Remotely-sensed planform morphologies reveal fluvial and tidal nature of meandering channels. <i>Scientific Reports</i> , 2020, 10, 54.	3.3	41

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37	Marsh resilience to sea-level rise reduced by storm-surge barriers in the Venice Lagoon. <i>Nature Geoscience</i> , 2021, 14, 906-911.	12.9	41
38	Recent changes in rainfall characteristics and their influence on thresholds for debris flow triggering in the Dolomitic area of Cortina d'Ampezzo, north-eastern Italian Alps. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 571-580.	3.6	38
39	A geomorphic study of lagoonal landforms. <i>Water Resources Research</i> , 2005, 41, .	4.2	37
40	On the Oâ€™Brienâ€™Jarrettâ€™Marchi law. <i>Rendiconti Lincei</i> , 2009, 20, 225-236.	2.2	36
41	Aggradation and lateral migration shaping geometry of a tidal point bar: An example from salt marshes of the Northern Venice Lagoon (Italy). <i>Sedimentary Geology</i> , 2016, 343, 141-155.	2.1	36
42	Statistical characterization of spatiotemporal sediment dynamics in the Venice lagoon. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1049-1064.	2.8	32
43	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.	2.8	30
44	Tidal meander migration and dynamics: A case study from the Venice Lagoon. <i>Marine and Petroleum Geology</i> , 2017, 87, 80-90.	3.3	29
45	Plantâ€™soil interactions in salt marsh environments: Experimental evidence from electrical resistivity tomography in the Venice Lagoon. <i>Geophysical Research Letters</i> , 2014, 41, 6160-6166.	4.0	28
46	Morphodynamic evolution and stratal architecture of translating tidal point bars: Inferences from the northern Venice Lagoon (Italy). <i>Sedimentology</i> , 2018, 65, 1354-1377.	3.1	28
47	Analysis of the drainage density of experimental and modelled tidal networks. <i>Earth Surface Dynamics</i> , 2014, 2, 105-116.	2.4	26
48	Control of wind-wave power on morphological shape of salt marsh margins. <i>Water Science and Engineering</i> , 2020, 13, 45-56.	3.2	26
49	Assessing the morphodynamic response of human-altered tidal embayments. <i>Geomorphology</i> , 2018, 320, 127-141.	2.6	24
50	Geophysical investigations unravel the vestiges of ancient meandering channels and their dynamics in tidal landscapes. <i>Scientific Reports</i> , 2018, 8, 1708.	3.3	23
51	Loss of geomorphic diversity in shallow tidal embayments promoted by storm-surge barriers. <i>Science Advances</i> , 2022, 8, eabm8446.	10.3	23
52	Threeâ€™Dimensional Flow Structures and Morphodynamic Evolution of Microtidal Meandering Channels. <i>Water Resources Research</i> , 2020, 56, e2020WR027822.	4.2	22
53	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.	2.8	21
54	Morphodynamic evolution and sedimentology of a microtidal meander bend of the Venice Lagoon (Italy). <i>Marine and Petroleum Geology</i> , 2018, 96, 391-404.	3.3	20

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55	Point-bar brink and channel thalweg trajectories depicting interaction between vertical and lateral shifts of microtidal channels in the Venice Lagoon (Italy). <i>Geomorphology</i> , 2019, 342, 37-50.	2.6	19
56	A process-based model for the definition of hydrological alert systems in landslide risk mitigation. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 3343-3357.	3.6	17
57	Evaluation of sediment properties using wind and turbidity observations in the shallow tidal areas of the Venice Lagoon. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1604-1616.	2.8	17
58	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
59	The Spatial Variability of Organic Matter and Decomposition Processes at the Marsh Scale. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3713-3727.	3.0	15
60	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
61	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
62	Channel mobility drives a diverse stratigraphic architecture in the dryland Mojave River (California), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.5	15
63	The Valuation of Ecosystem Services in the Venice Lagoon: A Multicriteria Approach. <i>Sustainability</i> , 2021, 13, 9485.	3.2	15
64	Ecogeomorphological feedbacks of water fluxes, sediment transport and vegetation dynamics in rivers and estuaries. <i>Advances in Water Resources</i> , 2016, 93, 151-155.	3.8	14
65	Intertwined eco-morphodynamic evolution of salt marshes and emerging tidal channel networks. <i>Water Resources Research</i> , 0, , .	4.2	14
66	Tidal currents and wind waves controlling sediment distribution in a subtidal point bar of the Venice Lagoon (Italy). <i>Sedimentology</i> , 2019, 66, 2926-2949.	3.1	13
67	Piracy-controlled geometry of tide-dominated point bars: Combined evidence from ancient sedimentary successions and modern channel networks. <i>Geomorphology</i> , 2020, 370, 107402.	2.6	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	Geophysical and Sedimentological Investigations Integrate Remote-Sensing Data to Depict Geometry of Fluvial Sedimentary Bodies: An Example from Holocene Point-Bar Deposits of the Venetian Plain (Italy). <i>Remote Sensing</i> , 2020, 12, 2568.	4.0	11
71	Understanding the Eco-morphologic Feedback of Coastal Marsh Under Sea Level Rise: Vegetation Dynamic Representations, Processes Interaction, and Parametric Sensitivity. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2020JF005729.	2.8	11
72	Detecting the Delayed Signatures of Changing Sediment Supply in Salt-Marsh Landscapes: The Case of the Venice Lagoon (Italy). <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	10

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73	Natural and Human-Induced Flow and Sediment Transport within Tidal Creek Networks Influenced by Ocean-Bay Tides. <i>Water</i> (Switzerland), 2019, 11, 1493.	2.7	9
74	Watershed and ocean controls of salt marsh extent and resilience. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1456-1468.	2.5	9
75	Impact of genesis and abandonment processes of a fluvial meander on geometry and grain-size distribution of the associated point bar (Venetian Plain, Italy). <i>Marine and Petroleum Geology</i> , 2021, 127, 104951.	3.3	9
76	Astronomic link to anomalously high mean sea level in the northern Adriatic Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 257, 107418.	2.1	9
77	Latest Holocene depositional history of the southern Venice Lagoon, Italy. <i>Holocene</i> , 2017, 27, 1731-1744.	1.7	8
78	Morpho-sedimentary evolution of a microtidal meandering channel driven by 130 years of natural and anthropogenic modifications of the Venice Lagoon (Italy). <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2580-2596.	2.5	8
79	A New Method for Automatic Definition of Tidal Creek Networks. <i>Journal of Coastal Research</i> , 2018, 85, 156-160.	0.3	7
80	Different coastal marsh sites reflect similar topographic conditions under which bare patches and vegetation recovery occur. <i>Earth Surface Dynamics</i> , 2021, 9, 71-88.	2.4	7
81	Salt Marsh Hydrodynamics. , 2021, , 53-81.		7
82	Assessing the Fractional Abundance of Highly Mixed Salt-Marsh Vegetation Using Random Forest Soft Classification. <i>Remote Sensing</i> , 2020, 12, 3224.	4.0	6
83	An integrated approach to determine three-dimensional accretion geometries of tidal point bars: Examples from the Venice Lagoon (Italy). <i>Sedimentology</i> , 2021, 68, 449-476.	3.1	6
84	Sedimentology of a hypertidal point bar (Mont-Saint-Michel Bay, north-western France) revealed by combining lidar time-series and sedimentary core data. <i>Sedimentology</i> , 2022, 69, 1179-1208.	3.1	6
85	Variation in the Occurrence of Rainfall Events Triggering Landslides. , 2013, , 131-138.		6
86	A Minimalist Model of Salt-Marsh Vegetation Dynamics Driven by Species Competition and Dispersal. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	5
87	Patterns in tidal environments: salt-marsh channel networks and vegetation. , 0, , .		4
88	Salt-Marsh Ecogeomorphological Dynamics and Hydrodynamic Circulation. , 2019, , 189-220.		3
89	From electromagnetic to sediment textural maps: an integrated approach to unravel the intra-point-bar variability of sediment properties. <i>Journal of the Geological Society</i> , 0, , jgs2021-156.	2.1	3
90	Characterizing marshland compressibility by an in-situ loading test: design and set-up of an experiment in the Venice Lagoon. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 382, 345-351.	1.0	2

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91	Ontogeny of a subtidal point bar in the microtidal Venice Lagoon (Italy) revealed by three-dimensional architectural analyses. <i>Sedimentology</i> , 0, , .	3.1	2
92	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.	2.5	0
93	Modelling Tidal Environments. , 2021, , .		0