

Marco Marani

List of Publications by Year in descending order

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124
papers

6,937
citations

50276

46
h-index

66911

78
g-index

157
all docs

157
docs citations

157
times ranked

5211
citing authors

#	ARTICLE	IF	CITATIONS
1	Tidal regime, salinity and salt marsh plant zonation. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 62, 119-130.	2.1	374
2	Mapping salt-marsh vegetation by multispectral and hyperspectral remote sensing. <i>Remote Sensing of Environment</i> , 2006, 105, 54-67.	11.0	280
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	Intensity and frequency of extreme novel epidemics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	225
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	Remote sensing retrieval of suspended sediment concentration in shallow waters. <i>Remote Sensing of Environment</i> , 2011, 115, 44-54.	11.0	176
8	Tidal networks: 2. Watershed delineation and comparative network morphology. <i>Water Resources Research</i> , 1999, 35, 3905-3917.	4.2	171
9	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
10	On the drainage density of tidal networks. <i>Water Resources Research</i> , 2003, 39, .	4.2	159
11	The importance of being coupled: Stable states and catastrophic shifts in tidal biomorphodynamics. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	150
12	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
13	Geomorphological origin of recession curves. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	148
14	Tidal network ontogeny: Channel initiation and early development. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	146
15	Tidal networks: 3. Landscape-forming discharges and studies in empirical geomorphic relationships. <i>Water Resources Research</i> , 1999, 35, 3919-3929.	4.2	133
16	Tidal meanders. <i>Water Resources Research</i> , 2002, 38, 7-1-7-14.	4.2	130
17	On the impact of rainfall patterns on the hydrologic response. <i>Water Resources Research</i> , 2008, 44, .	4.2	116
18	Subsurface flow and vegetation patterns in tidal environments. <i>Water Resources Research</i> , 2004, 40, .	4.2	110

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19	Forecasting the response of Earth's surface to future climatic and land use changes: A review of methods and research needs. <i>Earth's Future</i> , 2015, 3, 220-251.	6.3	98
20	Transport at basin scales: 1. Theoretical framework. <i>Hydrology and Earth System Sciences</i> , 2006, 10, 19-29.	4.9	97
21	Separation of Ground and Low Vegetation Signatures in LiDAR Measurements of Salt-Marsh Environments. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 2014-2023.	6.3	97
22	Spontaneous tidal network formation within a constructed salt marsh: Observations and morphodynamic modelling. <i>Geomorphology</i> , 2007, 91, 186-197.	2.6	95
23	Spatial organization and ecohydrological interactions in oxygen-limited vegetation ecosystems. <i>Water Resources Research</i> , 2006, 42, .	4.2	92
24	Hyperspectral remote sensing of salt marsh vegetation, morphology and soil topography. <i>Physics and Chemistry of the Earth</i> , 2003, 28, 15-25.	2.9	91
25	On the tidal prismâ€“channel area relations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	91
26	A metastatistical approach to rainfall extremes. <i>Advances in Water Resources</i> , 2015, 79, 121-126.	3.8	91
27	On the emergence of rainfall extremes from ordinary events. <i>Geophysical Research Letters</i> , 2016, 43, 8076-8082.	4.0	89
28	Reading the signatures of biologicâ€“geomorphic feedbacks in salt-marsh landscapes. <i>Advances in Water Resources</i> , 2016, 93, 265-275.	3.8	81
29	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
30	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
31	Spatial dynamics of microphytobenthos determined by PAM fluorescence. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 65, 30-42.	2.1	78
32	Expression of Smac/DIABLO in ovarian carcinoma cells induces apoptosis via a caspase-9-mediated pathway. <i>Experimental Cell Research</i> , 2003, 286, 186-198.	2.6	68
33	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
34	Mapping mixed vegetation communities in salt marshes using airborne spectral data. <i>Remote Sensing of Environment</i> , 2007, 107, 559-570.	11.0	63
35	Retrieval of small-relief marsh morphology from Terrestrial Laser Scanner, optimal spatial filtering, and laser return intensity. <i>Geomorphology</i> , 2009, 113, 12-20.	2.6	63
36	Self-organized river basin landscapes: Fractal and multifractal characteristics. <i>Water Resources Research</i> , 1994, 30, 3531-3539.	4.2	62

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37	Flow, Sedimentation, and Biomass Production on a Vegetated Salt Marsh in South Carolina: Toward a Predictive Model of Marsh Morphologic and Ecologic Evolution. <i>Coastal and Estuarine Studies</i> , 0, , 165-188.	0.4	60
38	Tree root systems competing for soil moisture in a 3D soil-plant model. <i>Advances in Water Resources</i> , 2014, 66, 32-42.	3.8	59
39	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
40	“Universal” recession curves and their geomorphological interpretation. <i>Advances in Water Resources</i> , 2014, 65, 34-42.	3.8	56
41	Sand bars in tidal channels Part 2. Tidal meanders. <i>Journal of Fluid Mechanics</i> , 2002, 451, 203-238.	3.4	54
42	Biogeomorphology of tidal landforms: physical and biological processes shaping the tidal landscape. <i>Ecohydrology</i> , 2012, 5, 550-562.	2.4	54
43	Climatic and landscape controls on effective discharge. <i>Geophysical Research Letters</i> , 2015, 42, 8441-8447.	4.0	53
44	Spatial response of coastal marshes to increased atmospheric CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15580-15584.	7.1	52
45	Geomorphic controls on regional base flow. <i>Water Resources Research</i> , 2001, 37, 2619-2630.	4.2	50
46	On the correlation structure of continuous and discrete point rainfall. <i>Water Resources Research</i> , 2003, 39, .	4.2	50
47	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
48	A stochastic model of nitrate transport and cycling at basin scale. <i>Water Resources Research</i> , 2006, 42, .	4.2	48
49	On space-time scaling of cumulated rainfall fields. <i>Water Resources Research</i> , 1998, 34, 3461-3469.	4.2	43
50	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
51	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
52	Root controls on water redistribution and carbon uptake in the soil-plant system under current and future climate. <i>Advances in Water Resources</i> , 2013, 60, 110-120.	3.8	40
53	Stationary self-organized fractal structures in an open, dissipative electrical system. <i>Journal of Physics A</i> , 1998, 31, L337-L343.	1.6	39
54	Soil-plant-atmosphere conditions regulating convective cloud formation above southeastern US pine plantations. <i>Global Change Biology</i> , 2016, 22, 2238-2254.	9.5	39

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55	Transport at basin scales: 2. Applications. <i>Hydrology and Earth System Sciences</i> , 2006, 10, 31-48.	4.9	38
56	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
57	A geomorphic study of lagoonal landforms. <i>Water Resources Research</i> , 2005, 41, .	4.2	37
58	Geomorphological width functions and the random cascade. <i>Geophysical Research Letters</i> , 1994, 21, 2123-2126.	4.0	36
59	Pro-caspase-3 overexpression sensitises ovarian cancer cells to proteasome inhibitors. <i>Cell Death and Differentiation</i> , 2001, 8, 256-264.	11.2	36
60	On the Oâ€™Brienâ€™Jarrettâ€™Marchi law. <i>Rendiconti Lincei</i> , 2009, 20, 225-236.	2.2	36
61	Saturated area dynamics and streamflow generation from coupled surfaceâ€™subsurface simulations and field observations. <i>Advances in Water Resources</i> , 2013, 59, 196-208.	3.8	36
62	Deforestation Due to Artisanal and Small-Scale Gold Mining Exacerbates Soil and Mercury Mobilization in Madre de Dios, Peru. <i>Environmental Science & Technology</i> , 2020, 54, 286-296.	10.0	36
63	Non-power-law-scale properties of rainfall in space and time. <i>Water Resources Research</i> , 2005, 41, .	4.2	35
64	Metastatistical Extreme Value Distribution applied to floods across the continental United States. <i>Advances in Water Resources</i> , 2020, 136, 103498.	3.8	35
65	Downscaling of Rainfall Extremes From Satellite Observations. <i>Water Resources Research</i> , 2019, 55, 156-174.	4.2	34
66	Leaf conductance and carbon gain under salt-stressed conditions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	33
67	Long-term oscillations in rainfall extremes in a 268 year daily time series. <i>Water Resources Research</i> , 2015, 51, 639-647.	4.2	33
68	Coupled topographic and vegetation patterns in coastal dunes: Remote sensing observations and ecomorphodynamic implications. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 119-130.	3.0	32
69	Competition for light and water in a coupled soil-plant system. <i>Advances in Water Resources</i> , 2017, 108, 216-230.	3.8	31
70	Sea level rise, hydrologic runoff, and the flooding of Venice. <i>Water Resources Research</i> , 2008, 44, .	4.2	30
71	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
72	Estimation of Daily Rainfall Extremes Through the Metastatistical Extreme Value Distribution: Uncertainty Minimization and Implications for Trend Detection. <i>Water Resources Research</i> , 2020, 56, e2019WR026535.	4.2	29

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73	Analyses Through the Metastatistical Extreme Value Distribution Identify Contributions of Tropical Cyclones to Rainfall Extremes in the Eastern United States. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087238.	4.0	29
74	Plant-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
75	Extreme value metastatistical analysis of remotely sensed rainfall in ungauged areas: Spatial downscaling and error modelling. <i>Advances in Water Resources</i> , 2020, 135, 103483.	3.8	28
76	Herpes simplex virus thymidine kinase/ganciclovir-induced cell death is enhanced by co-expression of caspase-3 in ovarian carcinoma cells. <i>Cancer Gene Therapy</i> , 2001, 8, 308-319.	4.6	27
77	Salt marsh vegetation radiometry. <i>Remote Sensing of Environment</i> , 2002, 80, 473-482.	11.0	26
78	Downscaling rainfall temporal variability. <i>Water Resources Research</i> , 2007, 43, .	4.2	26
79	Inferences from catchment-scale tracer circulation experiments. <i>Journal of Hydrology</i> , 2009, 369, 368-380.	5.4	26
80	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
81	Forcing, intermittency, and land surface hydrologic partitioning. <i>Water Resources Research</i> , 1997, 33, 167-175.	4.2	23
82	The influence of water table depth and the free atmospheric state on convective rainfall predisposition. <i>Water Resources Research</i> , 2015, 51, 2283-2297.	4.2	23
83	Loss of geomorphic diversity in shallow tidal embayments promoted by storm-surge barriers. <i>Science Advances</i> , 2022, 8, eabm8446.	10.3	23
84	Observation and modeling of catchment-scale solute transport in the hydrologic response: A tracer study. <i>Water Resources Research</i> , 2008, 44, .	4.2	21
85	On the morphodynamic stability of intertidal environments and the role of vegetation. <i>Advances in Water Resources</i> , 2016, 93, 303-314.	3.8	21
86	Environmental forcing and density-dependent controls of <i>Culex pipiens</i> abundance in a temperate climate (Northeastern Italy). <i>Ecological Modelling</i> , 2014, 272, 301-310.	2.5	20
87	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
88	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.	3.8	18
89	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
90	Delay-induced rebounds in CO ₂ emissions and critical time scales to meet global warming targets. <i>Earth's Future</i> , 2016, 4, 636-643.	6.3	17

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91	Flood coincidence analysis of Poyang Lake and Yangtze River: risk and influencing factors. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 879-891.	4.0	16
92	Extreme Atlantic Hurricane Probability of Occurrence Through the Metastatistical Extreme Value Distribution. <i>Geophysical Research Letters</i> , 2020, 47, 2019GL086138.	4.0	16
93	Non-Neutral Vegetation Dynamics. <i>PLoS ONE</i> , 2006, 1, e78.	2.5	16
94	Salt-Marsh Vegetation and Morphology: Basic Physiology, Modelling and Remote Sensing Observations. <i>Coastal and Estuarine Studies</i> , 2013, , 5-25.	0.4	15
95	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
96	Point estimate methods based on Taylor Series Expansion – The perturbation moments method – A more coherent derivation of the second order statistical moment. <i>Applied Mathematical Modelling</i> , 2012, 36, 5445-5454.	4.2	14
97	Belowground Production and Decomposition Along a Tidal Gradient in a Virginia Salt Marsh. <i>Coastal and Estuarine Studies</i> , 2013, , 47-73.	0.4	14
98	Evaluation of MEVD-based precipitation frequency analyses from quasi-global precipitation datasets against dense rain gauge networks. <i>Journal of Hydrology</i> , 2020, 590, 125564.	5.4	14
99	Hyperspectral and Multispectral Retrieval of Suspended Sediment in Shallow Coastal Waters Using Semi-Analytical and Empirical Methods. <i>Remote Sensing</i> , 2017, 9, 393.	4.0	12
100	Reply to comment by L. R. Gardner on “Spatial organization and ecohydrological interactions in oxygen-limited vegetation ecosystems”. <i>Water Resources Research</i> , 2009, 45, .	4.2	11
101	Storm surge frequency reduction in Venice under climate change. <i>Climatic Change</i> , 2012, 113, 1065-1079.	3.6	11
102	Understanding the Eco-Geomorphologic 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
103	Extreme-coastal-water-level estimation and projection: a comparison of statistical methods. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 1109-1128.	3.6	10
104	Tidal Networks: form and Function. <i>Coastal and Estuarine Studies</i> , 0, , 75-91.	0.4	9
105	Hurricanes and tropical storms: A necessary evil to ensure water supply?. <i>Hydrological Processes</i> , 2017, 31, 4414-4428.	2.6	9
106	Watershed and ocean controls of salt marsh extent and resilience. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1456-1468.	2.5	9
107	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
108	ON THE INFLUENCE OF GLOBAL WARMING ON ATLANTIC HURRICANE FREQUENCY. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-3, 527-532.	0.2	8

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109	The Detection of Weekly Preferential Occurrences with an Application to Rainfall. <i>Journal of Climate</i> , 2010, 23, 2379-2387.	3.2	7
110	The Temporal Spectrum of Adult Mosquito Population Fluctuations: Conceptual and Modeling Implications. <i>PLoS ONE</i> , 2014, 9, e114301.	2.5	6
111	The predictability of mosquito abundance from daily to monthly timescales. <i>Ecological Applications</i> , 2016, 26, 2611-2622.	3.8	6
112	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
113	Parametrizations of global thermal emissions for simple climate models. <i>Climate Dynamics</i> , 1999, 15, 145-152.	3.8	5
114	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
115	Patterns in tidal environments: salt-marsh channel networks and vegetation. , 0, , .		4
116	Reply to comment by Alicia M. Wilson and Leonard Robert Gardner on "Subsurface flow and vegetation patterns in tidal environments" • <i>Water Resources Research</i> , 2005, 41, .	4.2	4
117	A Perturbance Moment Point Estimate Method for uncertainty analysis of the hydrologic response. <i>Advances in Water Resources</i> , 2012, 40, 46-53.	3.8	4
118	Monitoring and Modeling Farmland Productivity Along the Venice Coastland, Italy. <i>Procedia Environmental Sciences</i> , 2013, 19, 361-368.	1.4	3
119	Salt-Marsh Ecogeomorphological Dynamics and Hydrodynamic Circulation. , 2019, , 189-220.		3
120	Remote Sensing of Tidal Networks and Their Relation to Vegetation. <i>Coastal and Estuarine Studies</i> , 0, , 27-46.	0.4	2
121	Reply to comment on "Storm surge frequency reduction in Venice under climate change" by G. Jorda, D. Gomis & M. Marcos. <i>Climatic Change</i> , 2012, 113, 1089-1095.	3.6	1
122	Multiple equilibria in tidal eco-geomorphology. , 2007, , 263-269.		1
123	The Impact of Air Pollution and Aeroallergens Levels on Upper Airway Acute Diseases at Urban Scale. <i>International Journal of Environmental Research</i> , 2022, 16, .	2.3	1
124	River and Tidal Networks. , 2001, , 191-211.		0