

Matthew Bilskie

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,589
citations

361413

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345221

36
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42
docs citations

42
times ranked

1279
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamic effects of sea level rise on low- ∇ gradient coastal landscapes: A review. <i>Earth's Future</i> , 2015, 3, 159-181.	6.3	236
2	Dynamics of sea level rise and coastal flooding on a changing landscape. <i>Geophysical Research Letters</i> , 2014, 41, 927-934.	4.0	154
3	Dynamic simulation and numerical analysis of hurricane storm surge under sea level rise with geomorphologic changes along the northern Gulf of Mexico. <i>Earth's Future</i> , 2016, 4, 177-193.	6.3	114
4	A comprehensive review of compound inundation models in low-gradient coastal watersheds. <i>Environmental Modelling and Software</i> , 2019, 119, 166-181.	4.5	99
5	Defining Flood Zone Transitions in Low- ∇ Gradient Coastal Regions. <i>Geophysical Research Letters</i> , 2018, 45, 2761-2770.	4.0	92
6	Tidal hydrodynamics under future sea level rise and coastal morphology in the Northern Gulf of Mexico. <i>Earth's Future</i> , 2016, 4, 159-176.	6.3	85
7	A coupled, two-dimensional hydrodynamic-marsh model with biological feedback. <i>Ecological Modelling</i> , 2016, 327, 29-43.	2.5	85
8	Dynamic responses and implications to coastal wetlands and the surrounding regions under sea level rise. <i>PLoS ONE</i> , 2018, 13, e0205176.	2.5	77
9	Coastal wetland response to sea-level rise in a fluvial estuarine system. <i>Earth's Future</i> , 2016, 4, 483-497.	6.3	71
10	Data and numerical analysis of astronomic tides, wind-waves, and hurricane storm surge along the northern Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3625-3658.	2.6	59
11	On the significance of incorporating shoreline changes for evaluating coastal hydrodynamics under sea level rise scenarios. <i>Natural Hazards</i> , 2015, 75, 1599-1617.	3.4	51
12	Impacts of historic morphology and sea level rise on tidal hydrodynamics in a microtidal estuary (Grand Bay, Mississippi). <i>Continental Shelf Research</i> , 2015, 111, 150-158.	1.8	50
13	The influence of bed friction variability due to land cover on storm-driven barrier island morphodynamics. <i>Coastal Engineering</i> , 2018, 132, 82-94.	4.0	44
14	Topographic accuracy assessment of bare earth lidar-derived unstructured meshes. <i>Advances in Water Resources</i> , 2013, 52, 165-177.	3.8	38
15	Exploration of the effects of storm surge on the extent of saltwater intrusion into the surficial aquifer in coastal east-central Florida (USA). <i>Science of the Total Environment</i> , 2019, 648, 1002-1017.	8.0	32
16	Development of Return Period Stillwater Floodplains for the Northern Gulf of Mexico under the Coastal Dynamics of Sea Level Rise. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2019, 145, .	1.2	32
17	Sea level rise, land use, and climate change influence the distribution of loggerhead turtle nests at the largest USA rookery (Melbourne Beach, Florida). <i>Marine Ecology - Progress Series</i> , 2013, 493, 259-274.	1.9	30
18	Terrain-driven unstructured mesh development through semi-automatic vertical feature extraction. <i>Advances in Water Resources</i> , 2015, 86, 102-118.	3.8	29

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19	Dynamic modeling of barrier island response to hurricane storm surge under future sea level rise. <i>Climatic Change</i> , 2018, 149, 413-425.	3.6	27
20	Unstructured finite element mesh decimation for real-time Hurricane storm surge forecasting. <i>Coastal Engineering</i> , 2020, 156, 103622.	4.0	25
21	Development and uncertainty quantification of hurricane surge response functions for hazard assessment in coastal bays. <i>Natural Hazards</i> , 2015, 77, 1103-1123.	3.4	21
22	Enhancing Flood Hazard Assessments in Coastal Louisiana Through Coupled Hydrologic and Surge Processes. <i>Frontiers in Water</i> , 2021, 3, .	2.3	20
23	Assessment of the temporal evolution of storm surge across coastal Louisiana. <i>Coastal Engineering</i> , 2019, 150, 59-78.	4.0	14
24	High-fidelity hurricane surge forecasting using emulation and sequential experiments. <i>Annals of Applied Statistics</i> , 2021, 15, .	1.1	13
25	Communicating with Coastal Decision-Makers and Environmental Educators via Sea Level Rise Decision-Support Tools. <i>Journal of Science Communication</i> , 2018, 17, A03.	0.8	13
26	Coastal Louisiana landscape and storm surge evolution: 1850â€“2110. <i>Climatic Change</i> , 2019, 157, 445-468.	3.6	12
27	Hydrodynamic storm surge model simplification via application of land to water isopleths in coastal Louisiana. <i>Coastal Engineering</i> , 2018, 137, 28-42.	4.0	11
28	Assessing the Effectiveness of Nourishment in Decadal Barrier Island Morphological Resilience. <i>Water (Switzerland)</i> , 2021, 13, 944.	2.7	10
29	Future Flood Risk Exacerbated by the Dynamic Impacts of Sea Level Rise Along the Northern Gulf of Mexico. <i>Earth's Future</i> , 2022, 10, .	6.3	10
30	Quantifying storm surge and risk reduction costs: a case study for Lafitte, Louisiana. <i>Climatic Change</i> , 2020, 161, 201-223.	3.6	7
31	An Examination of Compound Flood Hazard Zones for Past, Present, and Future Low-Gradient Coastal Land-Margins. <i>Frontiers in Climate</i> , 2021, 3, .	2.8	6
32	Astronomic tides and nonlinear tidal dispersion for a tropical coastal estuary with engineered features (causeways): Indian River lagoon system. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 216, 54-70.	2.1	4
33	Quantifying changes of effective springshed area and net recharge through recession analysis of spring flow. <i>Hydrological Processes</i> , 2016, 30, 5053-5062.	2.6	3
34	Coastal decisionâ€“makersâ€™ perspectives on updating storm surge guidance tools. <i>Journal of Contingencies and Crisis Management</i> , 2020, 28, 158-168.	2.8	3
35	Real-Time Simulated Storm Surge Predictions during Hurricane Michael (2018). <i>Weather and Forecasting</i> , 2022, 37, 1085-1102.	1.4	3
36	A Socioeconomic Dataset of the Risk Associated with the 1% and 0.2% Return Period Stillwater Flood Elevation under Sea-Level Rise for the Northern Gulf of Mexico. <i>Data</i> , 2022, 7, 71.	2.3	2

#	ARTICLE	IF	CITATIONS
37	Low-Versus High-Resolution Finite Element Modeling of Storm Surge in the Yellow River, Florida. , 2011, , .		0
38	Florida's Intracoastal Waterway in a Storm Surge Setting: Longwave Physics and Mesh Resolution. , 2012, , .		0
39	Bare Earth LiDAR to Gridded Topography for the Pascagoula River, MS: An Accuracy Assessment. , 2012, , .		0