

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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all docs

42
docs citations

42
times ranked

1279
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Real-Time Simulated Storm Surge Predictions during Hurricane Michael (2018). <i>Weather and Forecasting</i> , 2022, 37, 1085-1102.	1.4	3
3	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
4	Enhancing Flood Hazard Assessments in Coastal Louisiana Through Coupled Hydrologic and Surge Processes. <i>Frontiers in Water</i> , 2021, 3, .	2.3	20
5	Assessing the Effectiveness of Nourishment in Decadal Barrier Island Morphological Resilience. <i>Water (Switzerland)</i> , 2021, 13, 944.	2.7	10
6	High-fidelity hurricane surge forecasting using emulation and sequential experiments. <i>Annals of Applied Statistics</i> , 2021, 15, .	1.1	13
7	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
8	Unstructured finite element mesh decimation for real-time Hurricane storm surge forecasting. <i>Coastal Engineering</i> , 2020, 156, 103622.	4.0	25
9	Quantifying storm surge and risk reduction costs: a case study for Lafitte, Louisiana. <i>Climatic Change</i> , 2020, 161, 201-223.	3.6	7
10	Coastal decision-makers' perspectives on updating storm surge guidance tools. <i>Journal of Contingencies and Crisis Management</i> , 2020, 28, 158-168.	2.8	3
11	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
12	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
13	Assessment of the temporal evolution of storm surge across coastal Louisiana. <i>Coastal Engineering</i> , 2019, 150, 59-78.	4.0	14
14	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
15	Coastal Louisiana landscape and storm surge evolution: 1850–2110. <i>Climatic Change</i> , 2019, 157, 445-468.	3.6	12
16	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
17	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
18	Defining Flood Zone Transitions in Low-Gradient Coastal Regions. <i>Geophysical Research Letters</i> , 2018, 45, 2761-2770.	4.0	92

#	ARTICLE	IF	CITATIONS
19	Dynamic responses and implications to coastal wetlands and the surrounding regions under sea level rise. PLoS ONE, 2018, 13, e0205176.	2.5	77
20	Dynamic modeling of barrier island response to hurricane storm surge under future sea level rise. Climatic Change, 2018, 149, 413-425.	3.6	27
21	The influence of bed friction variability due to land cover on storm-driven barrier island morphodynamics. Coastal Engineering, 2018, 132, 82-94.	4.0	44
22	Communicating with Coastal Decision-Makers and Environmental Educators via Sea Level Rise Decision-Support Tools. Journal of Science Communication, 2018, 17, A03.	0.8	13
23	Dynamic simulation and numerical analysis of hurricane storm surge under sea level rise with geomorphologic changes along the northern Gulf of Mexico. Earth's Future, 2016, 4, 177-193.	6.3	114
24	Coastal wetland response to sea level rise in a fluvial estuarine system. Earth's Future, 2016, 4, 483-497.	6.3	71
25	Quantifying changes of effective springshed area and net recharge through recession analysis of spring flow. Hydrological Processes, 2016, 30, 5053-5062.	2.6	3
26	Tidal hydrodynamics under future sea level rise and coastal morphology in the Northern Gulf of Mexico. Earth's Future, 2016, 4, 159-176.	6.3	85
27	Data and numerical analysis of astronomic tides, wind waves, and hurricane storm surge along the northern Gulf of Mexico. Journal of Geophysical Research: Oceans, 2016, 121, 3625-3658.	2.6	59
28	A coupled, two-dimensional hydrodynamic-marsh model with biological feedback. Ecological Modelling, 2016, 327, 29-43.	2.5	85
29	Impacts of historic morphology and sea level rise on tidal hydrodynamics in a microtidal estuary (Grand Bay, Mississippi). Continental Shelf Research, 2015, 111, 150-158.	1.8	50
30	The dynamic effects of sea level rise on low gradient coastal landscapes: A review. Earth's Future, 2015, 3, 159-181.	6.3	236
31	Development and uncertainty quantification of hurricane surge response functions for hazard assessment in coastal bays. Natural Hazards, 2015, 77, 1103-1123.	3.4	21
32	On the significance of incorporating shoreline changes for evaluating coastal hydrodynamics under sea level rise scenarios. Natural Hazards, 2015, 75, 1599-1617.	3.4	51
33	Terrain-driven unstructured mesh development through semi-automatic vertical feature extraction. Advances in Water Resources, 2015, 86, 102-118.	3.8	29
34	Dynamics of sea level rise and coastal flooding on a changing landscape. Geophysical Research Letters, 2014, 41, 927-934.	4.0	154
35	Topographic accuracy assessment of bare earth lidar-derived unstructured meshes. Advances in Water Resources, 2013, 52, 165-177.	3.8	38
36	Sea level rise, land use, and climate change influence the distribution of loggerhead turtle nests at the largest USA rookery (Melbourne Beach, Florida). Marine Ecology - Progress Series, 2013, 493, 259-274.	1.9	30

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