Scott C Hagen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Power Grid Resilience Enhancement via Protecting Electrical Substations Against Flood Hazards: A Stochastic Framework. IEEE Transactions on Industrial Informatics, 2022, 18, 2132-2143.	11.3	30
2	Future Flood Risk Exacerbated by the Dynamic Impacts of Sea Level Rise Along the Northern Gulf of Mexico. Earth's Future, 2022, 10, .	6.3	10
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. Data, 2022, 7, 71.	2.3	2
4	Enhancing Flood Hazard Assessments in Coastal Louisiana Through Coupled Hydrologic and Surge Processes. Frontiers in Water, 2021, 3, .	2.3	20
5	Assessing the Effectiveness of Nourishment in Decadal Barrier Island Morphological Resilience. Water (Switzerland), 2021, 13, 944.	2.7	10
6	An Examination of Compound Flood Hazard Zones for Past, Present, and Future Low-Gradient Coastal Land-Margins. Frontiers in Climate, 2021, 3, .	2.8	6
7	Unstructured finite element mesh decimation for real-time Hurricane storm surge forecasting. Coastal Engineering, 2020, 156, 103622.	4.0	25
8	Quantifying storm surge and risk reduction costs: a case study for Lafitte, Louisiana. Climatic Change, 2020, 161, 201-223.	3.6	7
9	Coastal decisionâ€makers' perspectives on updating storm surge guidance tools. Journal of Contingencies and Crisis Management, 2020, 28, 158-168.	2.8	3
10	Coastal Stakeholders' Perceptions of Sea Level Rise Adaptation Planning in the Northern Gulf of Mexico. Environmental Management, 2020, 66, 407-418.	2.7	10
11	Model Sensitivity to Topographic Uncertainty in Meso- and Microtidal Marshes. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 807-814.	4.9	22
12	Estimating wave attenuation at the coastal land margin with a GIS toolbox. Environmental Modelling and Software, 2020, 132, 104788.	4.5	5
13	Exploration of the effects of storm surge on the extent of saltwater intrusion into the surficial aquifer in coastal east-central Florida (USA). Science of the Total Environment, 2019, 648, 1002-1017.	8.0	32
14	A comprehensive review of compound inundation models in low-gradient coastal watersheds. Environmental Modelling and Software, 2019, 119, 166-181.	4.5	99
15	Assessment of the temporal evolution of storm surge across coastal Louisiana. Coastal Engineering, 2019, 150, 59-78.	4.0	14
16	Development of Return Period Stillwater Floodplains for the Northern Gulf of Mexico under the Coastal Dynamics of Sea Level Rise. Journal of Waterway, Port, Coastal and Ocean Engineering, 2019, 145, .	1.2	32
17	Coastal Louisiana landscape and storm surge evolution: 1850–2110. Climatic Change, 2019, 157, 445-468.	3.6	12
18	Astronomic tides and nonlinear tidal dispersion for a tropical coastal estuary with engineered features (causeways): Indian River lagoon system. Estuarine, Coastal and Shelf Science, 2019, 216, 54-70.	2.1	4

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19	Assessing sea-level rise impact on saltwater intrusion into the root zone of a geo-typical area in coastal east-central Florida. Science of the Total Environment, 2018, 630, 211-221.	8.0	25
20	Hydrodynamic storm surge model simplification via application of land to water isopleths in coastal Louisiana. Coastal Engineering, 2018, 137, 28-42.	4.0	11
21	Transdisciplinary sea level rise risk communication and outreach strategies from stakeholder focus groups. Journal of Environmental Studies and Sciences, 2018, 8, 13-21.	2.0	11
22	Defining Flood Zone Transitions in Lowâ€Gradient Coastal Regions. Geophysical Research Letters, 2018, 45, 2761-2770.	4.0	92
23	Dynamic responses and implications to coastal wetlands and the surrounding regions under sea level rise. PLoS ONE, 2018, 13, e0205176.	2.5	77
24	Dynamic modeling of barrier island response to hurricane storm surge under future sea level rise. Climatic Change, 2018, 149, 413-425.	3.6	27
25	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
26	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
27	ASSESSMENT OF THE EVOLUTION OF STORM SURGE IN COASTAL LOUISIANA. Coastal Engineering Proceedings, 2018, , 42.	0.1	0
28	DEVELOPMENT OF FUTURE RETURN PERIOD STILLWATER FLOODPLAINS FOR THE COASTS OF MISSISSIPPI, ALABAMA, AND THE FLORIDA PANHANDLE. Coastal Engineering Proceedings, 2018, , 87.	0.1	0
29	Evaluation of the Design Features of Interactive Sea-Level Rise Viewers for Risk Communication. Environmental Communication, 2017, 11, 248-262.	2.5	16
30	An <i>Earth's Future</i> Special Collection: Impacts of the coastal dynamics of sea level rise on lowâ€gradient coastal landscapes. Earth's Future, 2017, 5, 2-9.	6.3	24
31	The intertidal zones of the South Atlantic Bight and their local and regional influence on astronomical tides. Ocean Modelling, 2017, 119, 13-34.	2.4	10
32	Integrated Hydrologic-Hydrodynamic Modeling of Estuarine-Riverine Flooding: 2008 Tropical Storm Fay. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	31
33	Modeling and data assessment of longitudinal salinity in a low-gradient estuarine river. Environmental Fluid Mechanics, 2017, 17, 323-353.	1.6	5
34	Suspended sediment projections in Apalachicola Bay in response to altered river flow and sediment loads under climate change and sea level rise. Earth's Future, 2016, 4, 428-439.	6.3	9
35	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
36	Assessing the impacts of sea-level rise and precipitation change on the surficial aquifer in the low-lying coastal alluvial plains and barrier islands, east-central Florida (USA). Hydrogeology Journal, 2016, 24, 1791-1806.	2.1	19

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37	Coastal wetland response to seaâ€level rise in a fluvial estuarine system. Earth's Future, 2016, 4, 483-497.	6.3	71
38	The response of runoff and sediment loading in the Apalachicola River, Florida to climate and land use land cover change. Earth's Future, 2016, 4, 124-142.	6.3	47
39	Quantifying changes of effective springshed area and net recharge through recession analysis of spring flow. Hydrological Processes, 2016, 30, 5053-5062.	2.6	3
40	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
41	Valley and channel networks extraction based on local topographic curvature and <i>k</i> -means clustering of contours. Water Resources Research, 2016, 52, 8081-8102.	4.2	37
42	Co-evolution of wetland landscapes, flooding, and human settlement in the Mississippi River Delta Plain. Sustainability Science, 2016, 11, 711-731.	4.9	120
43	Contributions of organic and inorganic matter to sediment volume and accretion in tidal wetlands at steady state. Earth's Future, 2016, 4, 110-121.	6.3	215
44	Developing and managing transdisciplinary and transformative research on the coastal dynamics of sea level rise: Experiences and lessons learned. Earth's Future, 2016, 4, 194-209.	6.3	38
45	Data and numerical analysis of astronomic tides, windâ€waves, and hurricane storm surge along the northern Gulf of Mexico. Journal of Geophysical Research: Oceans, 2016, 121, 3625-3658.	2.6	59
46	A coupled, two-dimensional hydrodynamic-marsh model with biological feedback. Ecological Modelling, 2016, 327, 29-43.	2.5	85
47	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
48	Adjusting Lidar-Derived Digital Terrain Models in Coastal Marshes Based on Estimated Aboveground Biomass Density. Remote Sensing, 2015, 7, 3507-3525.	4.0	56
49	The dynamic effects of sea level rise on lowâ€gradient coastal landscapes: A review. Earth's Future, 2015, 3, 159-181.	6.3	236
50	Development and uncertainty quantification of hurricane surge response functions for hazard assessment in coastal bays. Natural Hazards, 2015, 77, 1103-1123.	3.4	21
51	Hydrodynamic modeling and analysis of sea-level rise impacts on salinity for oyster growth in Apalachicola Bay, Florida. Estuarine, Coastal and Shelf Science, 2015, 156, 7-18.	2.1	38
52	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
53	Marine Tar Residues: a Review. Water, Air, and Soil Pollution, 2015, 226, 68.	2.4	63
54	Evaluating the Utility and Communicative Effectiveness of an Interactive Sea-Level Rise Viewer Through Stakeholder Engagement. Journal of Business and Technical Communication, 2015, 29, 314-343.	2.0	35

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55	Terrain-driven unstructured mesh development through semi-automatic vertical feature extraction. Advances in Water Resources, 2015, 86, 102-118.	3.8	29
56	A Random Forest Model Based on Lidar and Field Measurements for Parameterizing Surface Roughness in Coastal Modeling. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1582-1590.	4.9	9
57	Snow cover and runoff modelling in a high mountain catchment with scarce data: effects of temperature and precipitation parameters. Hydrological Processes, 2015, 29, 52-65.	2.6	64
58	Climate Change Impact on Runoff and Sediment Loads to the Apalachicola River at Seasonal and Event Scales. Journal of Coastal Research, 2014, 68, 35-42.	0.3	14
59	Dynamics of sea level rise and coastal flooding on a changing landscape. Geophysical Research Letters, 2014, 41, 927-934.	4.0	154
60	Dynamic Considerations of Sea-level Rise with Respect to Water Levels and Flooding in Apalachicola Bay. Journal of Coastal Research, 2014, 68, 43-48.	0.3	9
61	Hydrodynamic Modeling of Hurricane Dennis Impact on Estuarine Salinity Variation in Apalachicola Bay. Journal of Coastal Research, 2014, 294, 389-398.	0.3	13
62	An Analysis of the Narrative-Building Features of Interactive Sea Level Rise Viewers. Science Communication, 2014, 36, 675-705.	3.3	26
63	State estimation of tidal hydrodynamics using ensemble Kalman filter. Advances in Water Resources, 2014, 63, 45-56.	3.8	15
64	Review of wetting and drying algorithms for numerical tidal flow models. International Journal for Numerical Methods in Fluids, 2013, 71, 473-487.	1.6	91
65	Climate change impact and uncertainty analysis of extreme rainfall events in the Apalachicola River basin, Florida. Journal of Hydrology, 2013, 480, 125-135.	5.4	86
66	Topographic accuracy assessment of bare earth lidar-derived unstructured meshes. Advances in Water Resources, 2013, 52, 165-177.	3.8	38
67	Implications, Planning, and Design Considerations for Rising Sea Levels at the Coast. Journal of Waterway, Port, Coastal and Ocean Engineering, 2013, 139, 81-81.	1.2	Ο
68	Sea-Level Rise Impact on a Salt Marsh System of the Lower St. Johns River. Journal of Waterway, Port, Coastal and Ocean Engineering, 2013, 139, 118-125.	1.2	35
69	Assessing the Performance of a Northern Gulf of Mexico Tidal Model Using Satellite Imagery. Remote Sensing, 2013, 5, 5662-5679.	4.0	3
70	Coastal Flooding in Florida's Big Bend Region with Application to Sea Level Rise Based on Synthetic Storms Analysis. Terrestrial, Atmospheric and Oceanic Sciences, 2012, 23, 481.	0.6	28
71	Sensitivity of an ADCIRC Tide and Storm Surge Model to Manning's n. , 2012, , .		4
72	Florida's Intracoastal Waterway in a Storm Surge Setting: Longwave Physics and Mesh Resolution. , 2012, , .		0

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73	Observations and simulation of winds, surge, and currents on Florida's east coast during hurricane Jeanne (2004). Coastal Engineering, 2012, 60, 84-94.	4.0	14
74	Observation and simulation of winds and hydrodynamics in St. Johns and Nassau Rivers. Journal of Hydrology, 2012, 420-421, 391-402.	5.4	14
75	Comparison of floodplain surface roughness parameters derived from land cover data and field measurements. Journal of Hydrology, 2012, 452-453, 139-149.	5.4	42
76	A synergetic use of satellite imagery from SAR and optical sensors to improve coastal flood mapping in the Gulf of Mexico. Hydrological Processes, 2012, 26, 1617-1628.	2.6	34
77	Bare Earth LiDAR to Gridded Topography for the Pascagoula River, MS: An Accuracy Assessment. , 2012, , .		Ο
78	Unstructured mesh assessment for tidal model of the South Atlantic Bight and its estuaries. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 487-502.	1.7	16
79	Tidal Spectroscopy of the Lower St. Johns River from a High-Resolution Shallow Water Hydrodynamic Model. The International Journal of Ocean and Climate Systems, 2011, 2, 1-18.	0.8	9
80	Low-Versus High-Resolution Finite Element Modeling of Storm Surge in the Yellow River, Florida. , 2011, , .		0
81	Development of a Seamless Topographic / Bathymetric Digital Terrain Model for Tampa Bay, Florida. Photogrammetric Engineering and Remote Sensing, 2011, 77, 1249-1256.	0.6	16
82	A synergetic use of active microwave observations, optical images and topography data for improved flood mapping in the Gulf of Mexico. , 2011, , .		0
83	Tidal Simulations for the Loxahatchee River Estuary (Southeastern Florida): On the Influence of the Atlantic Intracoastal Waterway versus the Surrounding Tidal Flats. Journal of Waterway, Port, Coastal and Ocean Engineering, 2009, 135, 259-268.	1.2	6
84	The role of meteorological forcing on the St. Johns River (Northeastern Florida). Journal of Hydrology, 2009, 369, 55-70.	5.4	24
85	Incorporating spatially variable bottom stress and Coriolis force into 2D, <i>a posteriori</i> , unstructured mesh generation for shallow water models. International Journal for Numerical Methods in Fluids, 2009, 60, 237-261.	1.6	9
86	Coupling of Hydrodynamic and Wave Models: Case Study for Hurricane Floyd (1999) Hindcast. Journal of Waterway, Port, Coastal and Ocean Engineering, 2008, 134, 321-335.	1.2	54
87	Storm Surge Simulations for Hurricane Hugo (1989): On the Significance of Inundation Areas. Journal of Waterway, Port, Coastal and Ocean Engineering, 2007, 133, 183-191.	1.2	32
88	Enhancement of a Tidal Model for the Loxahatchee River Estuary (Southeastern Florida). , 2007, , 1.		0
89	2D unstructured mesh generation for oceanic and coastal tidal models from a localized truncation error analysis with complex derivatives. International Journal of Computational Fluid Dynamics, 2007, 21, 277-296.	1.2	9
90	The effect of tidal inlets on open coast storm surge hydrographs. Coastal Engineering, 2007, 54, 377-391.	4.0	18

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91	Automatic, unstructured mesh generation for tidal calculations in a large domain. International Journal of Computational Fluid Dynamics, 2006, 20, 593-608.	1.2	31
92	Coastal Forecasts and Storm Surge Predictions for Tropical Cyclones: A Timely Partnership Program. Oceanography, 2006, 19, 130-141.	1.0	24