

Robert R Twilley

List of Publications by Year in descending order

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83
papers

7,076
citations

81900

39
h-index

64796

79
g-index

86
all docs

86
docs citations

86
times ranked

5968
citing authors

#	ARTICLE	IF	CITATIONS
1	Mangrove production and carbon sinks: A revision of global budget estimates. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	812
2	Restoration of the Mississippi Delta: Lessons from Hurricanes Katrina and Rita. <i>Science</i> , 2007, 315, 1679-1684.	12.6	644
3	Different Kinds of Mangrove Forests Provide Different Goods and Services. <i>Global Ecology and Biogeography Letters</i> , 1998, 7, 83.	0.6	386
4	BioTIME: A database of biodiversity time series for the Anthropocene. <i>Global Ecology and Biogeography</i> , 2018, 27, 760-786.	5.8	289
5	Consequences of Climate Change on the Ecogeomorphology of Coastal Wetlands. <i>Estuaries and Coasts</i> , 2008, 31, 477-491.	2.2	280
6	Natural Processes in Delta Restoration: Application to the Mississippi Delta. <i>Annual Review of Marine Science</i> , 2011, 3, 67-91.	11.6	246
7	Global controls on carbon storage in mangrove soils. <i>Nature Climate Change</i> , 2018, 8, 534-538.	18.8	216
8	A gap dynamic model of mangrove forest development along gradients of soil salinity and nutrient resources. <i>Journal of Ecology</i> , 1998, 86, 37-51.	4.0	204
9	Litter dynamics in riverine mangrove forests in the Guayas River estuary, Ecuador. <i>Oecologia</i> , 1997, 111, 109-122.	2.0	192
10	Patterns of Mangrove Forest Structure and Soil Nutrient Dynamics along the Shark River Estuary, Florida. <i>Estuaries and Coasts</i> , 1999, 22, 955.	1.7	187
11	Is It Feasible to Build New Land in the Mississippi River Delta?. <i>Eos</i> , 2009, 90, 373-374.	0.1	178
12	Recent Accretion in Mangrove Ecosystems Based on 137 Cs and 210 Pb. <i>Estuaries and Coasts</i> , 1989, 12, 284.	1.7	157
13	Allocation of biomass and net primary productivity of mangrove forests along environmental gradients in the Florida Coastal Everglades, USA. <i>Forest Ecology and Management</i> , 2013, 307, 226-241.	3.2	157
14	A simulation model of organic matter and nutrient accumulation in mangrove wetland soils. <i>Biogeochemistry</i> , 1999, 44, 93-118.	3.5	149
15	Patterns of Root Dynamics in Mangrove Forests Along Environmental Gradients in the Florida Coastal Everglades, USA. <i>Ecosystems</i> , 2011, 14, 1178-1195.	3.4	145
16	The relative role of denitrification and immobilization in the fate of inorganic nitrogen in mangrove sediments (Terminos Lagoon, Mexico). <i>Limnology and Oceanography</i> , 1996, 41, 284-296.	3.1	136
17	Sediment and Nutrient Deposition Associated with Hurricane Wilma in Mangroves of the Florida Coastal Everglades. <i>Estuaries and Coasts</i> , 2010, 33, 45-58.	2.2	127
18	Advances and limitations of individual-based models to analyze and predict dynamics of mangrove forests: A review. <i>Aquatic Botany</i> , 2008, 89, 260-274.	1.6	124

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19	Adapting an Ecological Mangrove Model to Simulate Trajectories in Restoration Ecology. <i>Marine Pollution Bulletin</i> , 1999, 37, 404-419.	5.0	123
20	Spatial and temporal patterns of aboveground net primary productivity (ANPP) along two freshwater-estuarine transects in the Florida Coastal Everglades. <i>Hydrobiologia</i> , 2006, 569, 459-474.	2.0	120
21	Co-evolution of wetland landscapes, flooding, and human settlement in the Mississippi River Delta Plain. <i>Sustainability Science</i> , 2016, 11, 711-731.	4.9	120
22	Coastal morphology explains global blue carbon distributions. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 503-508.	4.0	116
23	Evaluating the relative contributions of hydroperiod and soil fertility on growth of south Florida mangroves. <i>Hydrobiologia</i> , 2006, 569, 311-324.	2.0	109
24	Enhanced terrestrial carbon preservation promoted by reactive iron in deltaic sediments. <i>Geophysical Research Letters</i> , 2016, 43, 1149-1157.	4.0	82
25	The Potential Use of Mangrove Forests as Nitrogen Sinks of Shrimp Aquaculture Pond Effluents: The Role of Denitrification. <i>Journal of the World Aquaculture Society</i> , 1999, 30, 12-25.	2.4	71
26	Flux of organic carbon in a riverine mangrove wetland in the Florida Coastal Everglades. <i>Hydrobiologia</i> , 2006, 569, 505-516.	2.0	71
27	The Role of the Everglades Mangrove Ecotone Region (EMER) in Regulating Nutrient Cycling and Wetland Productivity in South Florida. <i>Critical Reviews in Environmental Science and Technology</i> , 2011, 41, 633-669.	12.8	64
28	Woody Debris in the Mangrove Forests of South Florida. <i>Biotropica</i> , 2005, 37, 9-15.	1.6	63
29	Fine root productivity varies along nitrogen and phosphorus gradients in high-rainfall mangrove forests of Micronesia. <i>Hydrobiologia</i> , 2015, 750, 69-87.	2.0	62
30	A water budget and hydrology model of a basin mangrove forest in Rookery Bay, Florida. <i>Marine and Freshwater Research</i> , 1998, 49, 309.	1.3	60
31	Optimizing Sediment Diversion Operations: Working Group Recommendations for Integrating Complex Ecological and Social Landscape Interactions. <i>Water (Switzerland)</i> , 2017, 9, 368.	2.7	58
32	The Growth of Submersed Macrophytes under Experimental Salinity and Light Conditions. <i>Estuaries and Coasts</i> , 1990, 13, 311.	1.7	53
33	Belowground decomposition of mangrove roots in Florida coastal everglades. <i>Estuaries and Coasts</i> , 2007, 30, 491-496.	2.2	53
34	Airborne Laser Scanning Quantification of Disturbances from Hurricanes and Lightning Strikes to Mangrove Forests in Everglades National Park, USA. <i>Sensors</i> , 2008, 8, 2262-2292.	3.8	53
35	Responses of neotropical mangrove seedlings grown in monoculture and mixed culture under treatments of hydroperiod and salinity. <i>Hydrobiologia</i> , 2006, 569, 325-341.	2.0	52
36	Mangrove zonation in the dry life zone of the Gulf of Fonseca, Honduras. <i>Estuaries and Coasts</i> , 2006, 29, 751-764.	2.2	46

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37	Channel-Island Connectivity Affects Water Exposure Time Distributions in a Coastal River Delta. <i>Water Resources Research</i> , 2018, 54, 2212-2232.	4.2	43
38	A simulation model of organic matter and nutrient accumulation in mangrove wetland soils. <i>Biogeochemistry</i> , 1999, 44, 93-118.	3.5	42
39	Contribution of river floods, hurricanes, and cold fronts to elevation change in a deltaic floodplain, northern Gulf of Mexico, USA. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 191, 188-200.	2.1	41
40	Vegetation and Soil Dynamics of a Louisiana Estuary Receiving Pulsed Mississippi River Water Following Hurricane Katrina. <i>Estuaries and Coasts</i> , 2013, 36, 665-682.	2.2	38
41	Nutrient Biogeochemistry During the Early Stages of Delta Development in the Mississippi River Deltaic Plain. <i>Ecosystems</i> , 2014, 17, 327-343.	3.4	37
42	Spatial variability of mangrove primary productivity in the neotropics. <i>Ecosphere</i> , 2019, 10, e02841.	2.2	36
43	Sediment and Nutrient Tradeoffs in Restoring Mississippi River Delta: Restoration vs Eutrophication. <i>Journal of Contemporary Water Research and Education</i> , 2009, 141, 39-44.	0.7	35
44	Exploring the role of organic matter accumulation on delta evolution. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
45	Modeling hurricane-induced wetland-bay and bay-shelf sediment fluxes. <i>Coastal Engineering</i> , 2018, 135, 77-90.	4.0	35
46	Consequences of Mississippi River diversions on nutrient dynamics of coastal wetland soils and estuarine sediments: A review. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 224, 209-216.	2.1	34
47	Title is missing!. <i>Hydrobiologia</i> , 1997, 356, 73-79.	2.0	33
48	Macroecological patterns of forest structure and allometric scaling in mangrove forests. <i>Global Ecology and Biogeography</i> , 2021, 30, 1000-1013.	5.8	32
49	Nutrient stoichiometry, freshwater residence time, and nutrient retention in a river-dominated estuary in the Mississippi Delta. <i>Hydrobiologia</i> , 2011, 658, 41-54.	2.0	31
50	Salinity and Chlorophyll a as Performance Measures to Rehabilitate a Mangrove-Dominated Deltaic Coastal Region: the Ciénaga Grande de Santa Marta-Pajarales Lagoon Complex, Colombia. <i>Estuaries and Coasts</i> , 2011, 34, 1-19.	2.2	30
51	Phytoplankton Community Shifts and Harmful Algae Presence in a Diversion Influenced Estuary. <i>Estuaries and Coasts</i> , 2015, 38, 2213-2226.	2.2	30
52	Island Edge Morphodynamics along a Chronosequence in a Prograding Deltaic Floodplain Wetland. <i>Journal of Coastal Research</i> , 2018, 344, 806-817.	0.3	29
53	Improving the Transferability of Suspended Solid Estimation in Wetland and Deltaic Waters with an Empirical Hyperspectral Approach. <i>Remote Sensing</i> , 2019, 11, 1629.	4.0	29
54	Productivity and Carbon Dynamics in Mangrove Wetlands. , 2017, , 113-162.		28

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55	Ecosystem-level carbon stocks and sequestration rates in mangroves in the Cananã-Iguape lagoon estuarine system, southeastern Brazil. <i>Forest Ecology and Management</i> , 2021, 479, 118553.	3.2	28
56	International Year of Deltas 2013: A proposal. <i>Eos</i> , 2011, 92, 340-341.	0.1	26
57	High-resolution mapping of biomass and distribution of marsh and forested wetlands in southeastern coastal Louisiana. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 80, 257-267.	2.8	23
58	Coupling of mangroves to the productivity of estuarine and coastal waters. <i>Lecture Notes on Coastal and Estuarine Studies</i> , 1988, , 155-180.	0.2	22
59	A tidal creek water budget: Estimation of groundwater discharge and overland flow using hydrologic modeling in the Southern Everglades. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 93, 438-448.	2.1	22
60	Nitrogen and phosphorus transport between Fourleague Bay, LA, and the Gulf of Mexico: the role of winter cold fronts and Atchafalaya River discharge. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 57, 1065-1078.	2.1	21
61	A Field Study of How Wind Waves and Currents May Contribute to the Deterioration of Saltmarsh Fringe. <i>Estuaries and Coasts</i> , 2016, 39, 935-950.	2.2	21
62	Integrating Imaging Spectrometer and Synthetic Aperture Radar Data for Estimating Wetland Vegetation Aboveground Biomass in Coastal Louisiana. <i>Remote Sensing</i> , 2019, 11, 2533.	4.0	20
63	Structure of a unique inland mangrove forest assemblage in fossil lagoons on the Caribbean Coast of Mexico. <i>Wetlands Ecology and Management</i> , 2005, 13, 111-122.	1.5	16
64	Simulating hydrological connectivity and water age within a coastal deltaic floodplain of the Mississippi River Delta. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 245, 106995.	2.1	16
65	Benthic fluxes of dissolved oxygen and nutrients across hydrogeomorphic zones in a coastal deltaic floodplain within the Mississippi River delta plain. <i>Biogeochemistry</i> , 2020, 149, 115-140.	3.5	15
66	Assessment of the temporal evolution of storm surge across coastal Louisiana. <i>Coastal Engineering</i> , 2019, 150, 59-78.	4.0	14
67	Brazilian Mangroves: Blue Carbon Hotspots of National and Global Relevance to Natural Climate Solutions. <i>Frontiers in Forests and Global Change</i> , 2022, 4, .	2.3	14
68	Current Methods to Evaluate Net Primary Production and Carbon Budgets in Mangrove Forests. <i>Soil Science Society of America Book Series</i> , 0, , 243-288.	0.3	13
69	Quantification of Swell Energy and Its Impact on Wetlands in a Deltaic Estuary. <i>Estuaries and Coasts</i> , 2019, 42, 68-84.	2.2	13
70	Aboveground biomass distributions and vegetation composition changes in Louisiana's Wax Lake Delta. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 250, 107139.	2.1	13
71	Coastal Louisiana landscape and storm surge evolution: 1850–2110. <i>Climatic Change</i> , 2019, 157, 445-468.	3.6	12
72	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

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73	Mangrove Biogeochemistry at Local to Global Scales Using Ecogeomorphic Approaches. , 2019, , 717-785.		11
74	Nitrogen Dynamics of Inundated Sediments in an Emerging Coastal Deltaic Floodplain in Mississippi River Delta Using Isotope Pairing Technique to Test Response to Nitrate Enrichment and Sediment Organic Matter. Estuaries and Coasts, 2021, 44, 1899-1915.	2.2	10
75	Heterotrophic nitrogen fixation in response to nitrate loading and sediment organic matter in an emerging coastal deltaic floodplain within the Mississippi River Delta plain. Limnology and Oceanography, 2021, 66, 1961-1978.	3.1	9
76	Deltaic floodplain wetland vegetation dynamics along the sediment surface elevation gradient and in response to disturbance from river flooding and hurricanes in Wax Lake Delta, Louisiana, USA. Geomorphology, 2022, 398, 108011.	2.6	8
77	Quantifying storm surge and risk reduction costs: a case study for Lafitte, Louisiana. Climatic Change, 2020, 161, 201-223.	3.6	7
78	Biogeochemical and Hydrological Variables Synergistically Influence Nitrate Variability in Coastal Deltaic Wetlands. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005737.	3.0	5
79	Leaf Gas Exchange and Nutrient Use Efficiency Help Explain the Distribution of Two Neotropical Mangroves under Contrasting Flooding and Salinity. International Journal of Forestry Research, 2013, 2013, 1-10.	0.8	4
80	Gaps, challenges, and opportunities in mangrove blue carbon research: a biogeographic perspective. , 2021, , 295-334.		2
81	Benthic Nutrient Fluxes across Subtidal and Intertidal Habitats in Breton Sound in Response to River-Pulses of a Diversion in Mississippi River Delta. Water (Switzerland), 2021, 13, 2323.	2.7	2
82	Biomass allocation of tidal freshwater marsh species in response to natural and manipulated hydroperiod in coastal deltaic floodplains. Estuarine, Coastal and Shelf Science, 2022, 268, 107784.	2.1	2
83	The Giving Delta- A "Systems Approach" To a Consolidated and Sustainable Lower Mississippi River Delta. , 2020, , .		0