

John R White

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

3,940
citations

109321

35
h-index

144013

57
g-index

106
all docs

106
docs citations

106
times ranked

3633
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactive influences of meteorological and socioeconomic factors on ecosystem service values in a river basin with different geomorphic features. <i>Science of the Total Environment</i> , 2022, 829, 154595.	8.0	44
2	Impacts of a Major Mississippi River Freshwater Diversion on Suspended Sediment Plume Kinematics in Lake Pontchartrain, a Semi-enclosed Gulf of Mexico Estuary. <i>Estuaries and Coasts</i> , 2021, 44, 704-721.	2.2	8
3	The impact of recently excavated dredge pits on coastal hypoxia in the northern Gulf of Mexico shelf. <i>Marine Environmental Research</i> , 2021, 163, 105199.	2.5	3
4	Long-term fate of rapidly eroding carbon stock soil profiles in coastal wetlands. <i>Science of the Total Environment</i> , 2021, 753, 141913.	8.0	29
5	Investigating the impact of in situ soil organic matter degradation through porewater spectroscopic analyses on marsh edge erosion. <i>Chemosphere</i> , 2021, 268, 129266.	8.2	8
6	A Review of 50 Years of Study of Hydrology, Wetland Dynamics, Aquatic Metabolism, Water Quality and Trophic Status, and Nutrient Biogeochemistry in the Barataria Basin, Mississippi Delta's System Functioning, Human Impacts and Restoration Approaches. <i>Water (Switzerland)</i> , 2021, 13, 642.	2.7	19
7	Peripheral freshwater deltaic wetlands are hotspots of methane flux in the coastal zone. <i>Science of the Total Environment</i> , 2021, 775, 145784.	8.0	9
8	Soil acidification enhances the mobilization of phosphorus under anoxic conditions in an agricultural soil: Investigating the potential for loss of phosphorus to water and the associated environmental risk. <i>Science of the Total Environment</i> , 2021, 793, 148531.	8.0	31
9	Carbon offset market methodologies applicable for coastal wetland restoration and conservation in the United States: A review. <i>Science of the Total Environment</i> , 2020, 701, 134497.	8.0	72
10	Does edge erosion alter coastal wetland soil properties? A multi-method biogeochemical study. <i>Catena</i> , 2020, 187, 104373.	5.0	23
11	Potential fate of wetland soil carbon in a deltaic coastal wetland subjected to high relative sea level rise. <i>Science of the Total Environment</i> , 2020, 711, 135185.	8.0	31
12	The Carbon Stock and Sequestration Rate in Tidal Flats From Coastal China. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006772.	4.9	26
13	Characterization of Bacterial and Fungal Assemblages From Historically Contaminated Metalliferous Soils Using Metagenomics Coupled With Diffusion Chambers and Microbial Traps. <i>Frontiers in Microbiology</i> , 2020, 11, 1024.	3.5	18
14	Spatial and temporal changes to a hydrologically-reconnected coastal wetland: Implications for restoration. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 238, 106728.	2.1	6
15	Numerical Experiments on Variation of Freshwater Plume and Leakage Effect From Mississippi River Diversion in the Lake Pontchartrain Estuary. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015282.	2.6	11
16	A review of emerging organic contaminants (EOCs), antibiotic resistant bacteria (ARB), and antibiotic resistance genes (ARGs) in the environment: Increasing removal with wetlands and reducing environmental impacts. <i>Bioresource Technology</i> , 2020, 307, 123228.	9.6	219
17	Understanding the fate of soil organic matter in submerging coastal wetland soils: A microcosm approach. <i>Geoderma</i> , 2019, 337, 1267-1277.	5.1	34
18	Marsh edge erosion and associated carbon dynamics in coastal Louisiana: A proxy for future wetland-dominated coastlines world-wide. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 226, 106289.	2.1	51

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19	The denitrification potential of eroding wetlands in Barataria Bay, LA, USA: Implications for river reconnection. <i>Science of the Total Environment</i> , 2019, 686, 529-537.	8.0	20
20	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
21	Coupled iron and phosphorus release from seasonally hypoxic Louisiana shelf sediment. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 219, 81-89.	2.1	18
22	Mississippi River diversions and phytoplankton dynamics in deltaic Gulf of Mexico estuaries: A review. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 221, 39-52.	2.1	52
23	Investigation of an early season river flood pulse: Carbon cycling in a subtropical estuary. <i>Science of the Total Environment</i> , 2018, 635, 867-877.	8.0	13
24	Can denitrification explain coastal wetland loss: A review of case studies in the Mississippi Delta and New England. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 213, 294-304.	2.1	13
25	Response of microbial populations regulating nutrient biogeochemical cycles to oiling of coastal saltmarshes from the Deepwater Horizon oil spill. <i>Environmental Pollution</i> , 2018, 241, 136-147.	7.5	21
26	Restoring a degraded marsh using thin layer sediment placement: Short term effects on soil physical and biogeochemical properties. <i>Ecological Engineering</i> , 2018, 120, 61-67.	3.6	28
27	Evaluation of coastal wetland soil properties in a degrading marsh. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 212, 311-317.	2.1	10
28	Sampling, Sorting, and Characterizing Microplastics in Aquatic Environments with High Suspended Sediment Loads and Large Floating Debris. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	3
29	The Long-Term Use of Treatment Wetlands for Total Phosphorus Removal: Can Performance Be Rejuvenated with Adaptive Management?. <i>Environmental Contamination Remediation and Management</i> , 2018, , 121-140.	1.0	1
30	Impacts of the long-term presence of buried crude oil on salt marsh soil denitrification in Barataria Bay, Louisiana. <i>Ecological Engineering</i> , 2017, 99, 454-461.	3.6	23
31	Changes in estuarine sediment phosphorus fractions during a large-scale Mississippi River diversion. <i>Science of the Total Environment</i> , 2017, 609, 1248-1257.	8.0	23
32	Redox-induced mobilization of copper, selenium, and zinc in deltaic soils originating from Mississippi (U.S.A.) and Nile (Egypt) River Deltas: A better understanding of biogeochemical processes for safe environmental management. <i>Journal of Environmental Management</i> , 2017, 186, 131-140.	7.8	69
33	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
34	Effect of Fluctuating Salinity on Potential Denitrification in Coastal Wetland Soil and Sediments. <i>Soil Science Society of America Journal</i> , 2016, 80, 516-526.	2.2	47
35	Nitrate Reduction in a Hydrologically Restored Bottomland Hardwood Forest in the Mississippi River Watershed, Northern Louisiana. <i>Soil Science Society of America Journal</i> , 2016, 80, 1698-1705.	2.2	11
36	Trace Metal Concentrations in Marsh Profiles Under the Influence of an Emerging Delta (Atchafalaya) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Soil and Sediment Contamination, 2016, 25, 552-562.	1.9	7

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37	Evaluating soil properties and potential nitrate removal in wetlands created using an Engineering With Nature based dredged material placement technique. Ecological Engineering, 2016, 97, 381-388.	3.6	10
38	Redox effects on release kinetics of arsenic, cadmium, cobalt, and vanadium in Wax Lake Deltaic freshwater marsh soils. Chemosphere, 2016, 150, 740-748.	8.2	166
39	Will Mississippi River diversions designed for coastal restoration cause harmful algal blooms?. Ecological Engineering, 2016, 91, 350-364.	3.6	30
40	Methods for Determining Emerging Contaminants in Wetland Matrices. Soil Science Society of America Book Series, 2015, , 841-855.	0.3	0
41	Floods and Cold Front Passages: Impacts on Coastal Marshes in a River Diversion Setting (Wax Lake) Tj ETQq1 1 0.784314 rgBT /Overlo 0.3 81	0.3	81
42	Phosphorus speciation and sedimentary phosphorus release from the Gulf of Mexico sediments: Implication for hypoxia. Estuarine, Coastal and Shelf Science, 2015, 164, 77-85.	2.1	47
43	Fresh and weathered crude oil effects on potential denitrification rates of coastal marsh soil. Chemosphere, 2015, 134, 120-126.	8.2	16
44	Impacts of Long-Term Irrigation of Domestic Treated Wastewater on Soil Biogeochemistry and Bacterial Community Structure. Applied and Environmental Microbiology, 2015, 81, 7143-7158.	3.1	32
45	Effects of dispersant used for oil spill remediation on nitrogen cycling in Louisiana coastal salt marsh soil. Chemosphere, 2015, 119, 562-567.	8.2	22
46	Comparative Study of Three Two-Stage Hybrid Ecological Wastewater Treatment Systems for Producing High Nutrient, Reclaimed Water for Irrigation Reuse in Developing Countries. , 2015, , 3-24.		0
47	Vertical Dissolved Inorganic Nitrogen Fluxes in Marsh and Mudflat Areas of the Yangtze Estuary. Journal of Environmental Quality, 2014, 43, 745-752.	2.0	9
48	Comparative Study of Three Two-Stage Hybrid Ecological Wastewater Treatment Systems for Producing High Nutrient, Reclaimed Water for Irrigation Reuse in Developing Countries. Water (Switzerland), 2014, 6, 213-228.	2.7	44
49	Biogeochemical Factors Governing Cobalt, Nickel, Selenium, and Vanadium Dynamics in Periodically Flooded Egyptian North Nile Delta Rice Soils. Soil Science Society of America Journal, 2014, 78, 1065-1078.	2.2	110
50	Durability Quantification of TiO ₂ Surface Coating on Concrete and Asphalt Pavements. Journal of Materials in Civil Engineering, 2014, 26, 331-337.	2.9	42
51	Investigation of Biogeochemical Functional Proxies in Headwater Streams Across a Range of Channel and Catchment Alterations. Environmental Management, 2014, 53, 534-548.	2.7	7
52	Societal phosphorus metabolism in future coastal environments: Insights from recent trends in Louisiana, USA. Global Environmental Change, 2014, 28, 1-13.	7.8	16
53	Spectroscopic measurements of estuarine dissolved organic matter dynamics during a large-scale Mississippi River flood diversion. Science of the Total Environment, 2014, 485-486, 518-527.	8.0	27
54	Will hydrologic restoration of Mississippi River riparian wetlands improve their critical biogeochemical functions?. Ecological Engineering, 2013, 60, 192-198.	3.6	34

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55	Estuarine ecosystem response to three large-scale Mississippi River flood diversion events. <i>Science of the Total Environment</i> , 2013, 458-460, 374-387.	8.0	61
56	Ammonification and denitrification rates in coastal Louisiana bayou sediment and marsh soil: Implications for Mississippi river diversion management. <i>Ecological Engineering</i> , 2013, 54, 77-81.	3.6	26
57	Freshwater diversions as an ecosystem management tool for maintaining soil organic matter accretion in coastal marshes. <i>Catena</i> , 2013, 107, 139-144.	5.0	45
58	Biogeochemical Recovery of Oligohaline Wetland Soils Experiencing a Salinity Pulse. <i>Soil Science Society of America Journal</i> , 2013, 77, 2205-2215.	2.2	12
59	Linking Wetland Functional Rapid Assessment Models with Quantitative Hydrological and Biogeochemical Measurements across a Restoration Chronosequence. <i>Soil Science Society of America Journal</i> , 2013, 77, 1442-1451.	2.2	17
60	Fate of Nitrate in Vegetated Brackish Coastal Marsh. <i>Soil Science Society of America Journal</i> , 2012, 76, 1919-1927.	2.2	47
61	A Geostatistical Analysis of Soil Properties in the Davis Pond Mississippi Freshwater Diversion. <i>Soil Science Society of America Journal</i> , 2012, 76, 1107-1118.	2.2	22
62	An initial screening of antibiotic effects on microbial respiration in wetland soils. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 1381-1390.	1.7	57
63	Effects of salinity on the microbial removal of nitrate under varying nitrogen inputs within the marshland upwelling system. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 1739-1748.	1.7	10
64	Municipal wastewater treatment in Mexico: current status and opportunities for employing ecological treatment systems. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 1151-1158.	2.2	29
65	Diverted Mississippi River sediment as a potential phosphorus source affecting coastal Louisiana water quality. <i>Journal of Freshwater Ecology</i> , 2012, 27, 575-586.	1.2	34
66	The Effects of Two Consecutive Hurricanes on Basal Food Resources in a Shallow Coastal Lagoon in Louisiana. <i>Journal of Coastal Research</i> , 2012, 280, 407-420.	0.3	3
67	Influence of hydropattern and vegetation on phosphorus reduction in a constructed wetland under high and low mass loading rates. <i>Ecological Engineering</i> , 2012, 42, 134-145.	3.6	15
68	Preliminary study on the potential of arsenic removal by subsurface flow constructed mesocosms. <i>Ecological Engineering</i> , 2012, 47, 101-104.	3.6	26
69	Microbial and Geochemical Assessment of Bauxitic Un-mined and Post-mined Chronosequence Soils from Mocho Mountains, Jamaica. <i>Microbial Ecology</i> , 2012, 64, 738-749.	2.8	17
70	Nitrate Flux into the Sediments of a Shallow Oligohaline Estuary during Large Flood Pulses of Mississippi River Water. <i>Journal of Environmental Quality</i> , 2012, 41, 1549-1556.	2.0	22
71	Will coastal wetlands continue to sequester carbon in response to an increase in global sea level?: a case study of the rapidly subsiding Mississippi river deltaic plain. <i>Climatic Change</i> , 2012, 110, 297-314.	3.6	157
72	Internal loading of phosphorus from sediments of Lake Pontchartrain (Louisiana, USA) with implications for eutrophication. <i>Hydrobiologia</i> , 2012, 684, 69-82.	2.0	57

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73	Seeking a way to promote the use of constructed wetlands for domestic wastewater treatment in developing countries. <i>Water Science and Technology</i> , 2011, 63, 654-659.	2.5	30
74	Phosphorous Cycling in the Greater Everglades Ecosystem: Legacy Phosphorous Implications for Management and Restoration. <i>Critical Reviews in Environmental Science and Technology</i> , 2011, 41, 149-186.	12.8	113
75	Summertime tidal flushing of Barataria Bay: Transports of water and suspended sediments. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30
76	Reducing phosphorus flux from organic soils in surface flow treatment wetlands. <i>Chemosphere</i> , 2011, 85, 625-629.	8.2	18
77	Effects of freshwater input on nutrient loading, phytoplankton biomass, and cyanotoxin production in an oligohaline estuarine lake. <i>Hydrobiologia</i> , 2011, 661, 377-389.	2.0	59
78	Influence of hydropattern and vegetation type on phosphorus dynamics in flow-through wetland treatment systems. <i>Ecological Engineering</i> , 2011, 37, 1369-1378.	3.6	14
79	Microbial Response to Potential Soil-Stabilizing Polymer Amendments for Coastal Wetland Restoration. <i>Soil Science Society of America Journal</i> , 2011, 75, 2398-2406.	2.2	5
80	Soil Functional Diversity Analysis of a Bauxite-Mined Restoration Chronosequence. <i>Microbial Ecology</i> , 2010, 59, 710-723.	2.8	62
81	Competitive sorption and desorption behavior for three fluoroquinolone antibiotics in a wastewater treatment wetland soil. <i>Chemosphere</i> , 2010, 80, 1353-1359.	8.2	145
82	Denitrification Enzyme Activity as an Indicator of Nitrate Movement through a Diversion Wetland. <i>Soil Science Society of America Journal</i> , 2010, 74, 1037-1047.	2.2	71
83	Redistribution of Wetland Soil Phosphorus Ten Years after the Conclusion of Nutrient Loading. <i>Soil Science Society of America Journal</i> , 2010, 74, 1808-1815.	2.2	22
84	Alum application to improve water quality in a municipal wastewater treatment wetland: Effects on macrophyte growth and nutrient uptake. <i>Chemosphere</i> , 2010, 79, 186-192.	8.2	34
85	Effect of Aluminum-Containing Amendments on Phosphorus Sequestration of Wastewater Treatment Wetland Soil. <i>Soil Science Society of America Journal</i> , 2009, 73, 852-861.	2.2	18
86	Phosphorus Sorption and Potential Phosphorus Storage in Sediments of Lake Istokpoga and the Upper Chain of Lakes, Florida, USA. <i>Journal of Environmental Quality</i> , 2009, 38, 987-996.	2.0	36
87	Alum Application to Improve Water Quality in a Municipal Wastewater Treatment Wetland. <i>Journal of Environmental Quality</i> , 2009, 38, 814-821.	2.0	19
88	Sediment Methyl and Total Mercury Concentrations Along the Georgia and Louisiana Inner Shelf, USA. <i>Analytical Letters</i> , 2009, 42, 1219-1231.	1.8	8
89	Asymmetric tidal straining across an inlet: Lateral inversion and variability over a tidal cycle. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 85, 651-660.	2.1	26
90	Pharmaceutical Analysis for Environmental Samples: Individual and Simultaneous Determination of Ciprofloxacin, Ofloxacin and Norfloxacin Using an HPLC with Fluorescence and UV Detection with a Wetland Soil Matrix. <i>Analytical Letters</i> , 2009, 42, 2937-2950.	1.8	9

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91	Mississippi River Flood of 2008: Observations of a Large Freshwater Diversion on Physical, Chemical, and Biological Characteristics of a Shallow Estuarine Lake. <i>Environmental Science & Technology</i> , 2009, 43, 5599-5604.	10.0	79
92	Phosphorus uptake by <i>Typha</i> leaf litter as affected by oxygen availability. <i>Wetlands</i> , 2008, 28, 817-826.	1.5	10
93	Reduction of pharmaceutically active compounds by a lagoon wetland wastewater treatment system in Southeast Louisiana. <i>Chemosphere</i> , 2008, 73, 1741-1748.	8.2	186
94	The Short-Term Effects of Prescribed Burning on Biomass Removal and the Release of Nitrogen and Phosphorus in a Treatment Wetland. <i>Journal of Environmental Quality</i> , 2008, 37, 2386-2391.	2.0	19
95	Soil Phosphorus and Vegetation Influence on Wetland Phosphorus Release after Simulated Drought. <i>Soil Science Society of America Journal</i> , 2007, 71, 238-244.	2.2	65
96	Soil Biogeochemical Characteristics Influenced by Alum Application in a Municipal Wastewater Treatment Wetland. <i>Journal of Environmental Quality</i> , 2007, 36, 1904-1913.	2.0	37
97	Pharmaceutical Compounds in Wastewater: Wetland Treatment as a Potential Solution. <i>Scientific World Journal</i> , The, 2006, 6, 1731-1736.	2.1	44
98	Hydrologic and Vegetation Effects on Water Column Phosphorus in Wetland Mesocosms. <i>Soil Science Society of America Journal</i> , 2006, 70, 1242-1251.	2.2	54
99	Rejuvenating the largest municipal treatment wetland in Florida. <i>Ecological Engineering</i> , 2006, 26, 132-146.	3.6	34
100	Nitrogen and Phosphorus Flux Rates from Sediment in the Lower St. Johns River Estuary. <i>Journal of Environmental Quality</i> , 2004, 33, 1545-1555.	2.0	87
101	Influence of hydrologic regime and vegetation on phosphorus retention in Everglades stormwater treatment area wetlands. <i>Hydrological Processes</i> , 2004, 18, 343-355.	2.6	56
102	Nitrification and Denitrification Rates of Everglades Wetland Soils along a Phosphorus-Impacted Gradient. <i>Journal of Environmental Quality</i> , 2003, 32, 2436-2443.	2.0	96
103	Biogeochemical Dynamics I: Nitrogen Cycling in Wetlands. , 0, , 213-227.		9
104	Measurements of Nitrogen Mineralization Potential in Wetland Soils. <i>Soil Science Society of America Book Series</i> , 0, , 465-472.	0.3	2
105	On the Calculation of the Flux of Materials through Wetlands and Estuaries under Oscillatory Motions. <i>Soil Science Society of America Book Series</i> , 0, , 937-947.	0.3	0