John R White

List of Publications by Year
in descending order

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	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. Bioresource Technology, 2020, 307, 123228.	9.6	219
2	Reduction of pharmaceutically active compounds by a lagoon wetland wastewater treatment system in Southeast Louisiana. Chemosphere, 2008, 73, 1741-1748.	8.2	186
3	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
4	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. Climatic Change, 2012, 110, 297-314.	3.6	157
5	Competitive sorption and desorption behavior for three fluoroquinolone antibiotics in a wastewater treatment wetland soil. Chemosphere, 2010, 80, 1353-1359.	8.2	145
6	Phosphorous Cycling in the Greater Everglades Ecosystem: Legacy Phosphorous Implications for Management and Restoration. Critical Reviews in Environmental Science and Technology, 2011, 41, 149-186.	12.8	113
7	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
8	Nitrification and Denitrification Rates of Everglades Wetland Soils along a Phosphorusâ€Impacted Gradient. Journal of Environmental Quality, 2003, 32, 2436-2443.	2.0	96
9	Nitrogen and Phosphorus Flux Rates from Sediment in the Lower St. Johns River Estuary. Journal of Environmental Quality, 2004, 33, 1545-1555.	2.0	87
10	Floods and Cold Front Passages: Impacts on Coastal Marshes in a River Diversion Setting (Wax Lake) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	6.3	81
11	Mississippi River Flood of 2008: Observations of a Large Freshwater Diversion on Physical, Chemical, and Biological Characteristics of a Shallow Estuarine Lake. Environmental Science & Technology, 2009, 43, 5599-5604.	10.0	79
12	Carbon offset market methodologies applicable for coastal wetland restoration and conservation in the United States: A review. Science of the Total Environment, 2020, 701, 134497.	8.0	72
13	Denitrification Enzyme Activity as an Indicator of Nitrate Movement through a Diversion Wetland. Soil Science Society of America Journal, 2010, 74, 1037-1047.	2.2	71
14	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. Journal of Environmental Management, 2017, 186, 131-140.	7.8	69
15	Soil Phosphorus and Vegetation Influence on Wetland Phosphorus Release after Simulated Drought. Soil Science Society of America Journal, 2007, 71, 238-244.	2.2	65
16	Soil Functional Diversity Analysis of a Bauxite-Mined Restoration Chronosequence. Microbial Ecology, 2010, 59, 710-723.	2.8	62
17	Estuarine ecosystem response to three large-scale Mississippi River flood diversion events. Science of the Total Environment, 2013, 458-460, 374-387.	8.0	61
18	Effects of freshwater input on nutrient loading, phytoplankton biomass, and cyanotoxin production in an oligohaline estuarine lake. Hydrobiologia, 2011, 661, 377-389.	2.0	59

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19	Optimizing Sediment Diversion Operations: Working Group Recommendations for Integrating Complex Ecological and Social Landscape Interactions. Water (Switzerland), 2017, 9, 368.	2.7	58
20	An initial screening of antibiotic effects on microbial respiration in wetland soils. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 1381-1390.	1.7	57
21	Internal loading of phosphorus from sediments of Lake Pontchartrain (Louisiana, USA) with implications for eutrophication. Hydrobiologia, 2012, 684, 69-82.	2.0	57
22	Influence of hydrologic regime and vegetation on phosphorus retention in Everglades stormwater treatment area wetlands. Hydrological Processes, 2004, 18, 343-355.	2.6	56
23	Hydrologic and Vegetation Effects on Water Column Phosphorus in Wetland Mesocosms. Soil Science Society of America Journal, 2006, 70, 1242-1251.	2.2	54
24	Mississippi River diversions and phytoplankton dynamics in deltaic Gulf of Mexico estuaries: A review. Estuarine, Coastal and Shelf Science, 2019, 221, 39-52.	2.1	52
25	Marsh edge erosion and associated carbon dynamics in coastal Louisiana: A proxy for future wetland-dominated coastlines world-wide. Estuarine, Coastal and Shelf Science, 2019, 226, 106289.	2.1	51
26	Fate of Nitrate in Vegetated Brackish Coastal Marsh. Soil Science Society of America Journal, 2012, 76, 1919-1927.	2.2	47
27	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
28	Effect of Fluctuating Salinity on Potential Denitrification in Coastal Wetland Soil and Sediments. Soil Science Society of America Journal, 2016, 80, 516-526.	2.2	47
29	Freshwater diversions as an ecosystem management tool for maintaining soil organic matter accretion in coastal marshes. Catena, 2013, 107, 139-144.	5.0	45
30	Pharmaceutical Compounds in Wastewater: Wetland Treatment as a Potential Solution. Scientific World Journal, The, 2006, 6, 1731-1736.	2.1	44
31	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
32	Interactive influences of meteorological and socioeconomic factors on ecosystem service values in a river basin with different geomorphic features. Science of the Total Environment, 2022, 829, 154595.	8.0	44
33	Durability Quantification of TiO2 Surface Coating on Concrete and Asphalt Pavements. Journal of Materials in Civil Engineering, 2014, 26, 331-337.	2.9	42
34	Soil Biogeochemical Characteristics Influenced by Alum Application in a Municipal Wastewater Treatment Wetland. Journal of Environmental Quality, 2007, 36, 1904-1913.	2.0	37
35	Phosphorus Sorption and Potential Phosphorus Storage in Sediments of Lake Istokpoga and the Upper Chain of Lakes, Florida, USA. Journal of Environmental Quality, 2009, 38, 987-996.	2.0	36
36	Rejuvenating the largest municipal treatment wetland in Florida. Ecological Engineering, 2006, 26, 132-146.	3.6	34

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37	Alum application to improve water quality in a municipal wastewater treatment wetland: Effects on macrophyte growth and nutrient uptake. Chemosphere, 2010, 79, 186-192.	8.2	34
38	Diverted Mississippi River sediment as a potential phosphorus source affecting coastal Louisiana water quality. Journal of Freshwater Ecology, 2012, 27, 575-586.	1.2	34
39	Will hydrologic restoration of Mississippi River riparian wetlands improve their critical biogeochemical functions?. Ecological Engineering, 2013, 60, 192-198.	3.6	34
40	Understanding the fate of soil organic matter in submerging coastal wetland soils: A microcosm approach. Geoderma, 2019, 337, 1267-1277.	5.1	34
41	Consequences of Mississippi River diversions on nutrient dynamics of coastal wetland soils and estuarine sediments: A review. Estuarine, Coastal and Shelf Science, 2019, 224, 209-216.	2.1	34
42	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
43	Potential fate of wetland soil carbon in a deltaic coastal wetland subjected to high relative sea level rise. Science of the Total Environment, 2020, 711, 135185.	8.0	31
44	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. Science of the Total Environment, 2021, 793, 148531.	8.0	31
45	Seeking a way to promote the use of constructed wetlands for domestic wastewater treatment in developing countries. Water Science and Technology, 2011, 63, 654-659.	2.5	30
46	Summertime tidal flushing of Barataria Bay: Transports of water and suspended sediments. Journal of Geophysical Research, 2011, 116, .	3.3	30
47	Will Mississippi River diversions designed for coastal restoration cause harmful algal blooms?. Ecological Engineering, 2016, 91, 350-364.	3.6	30
48	Municipal wastewater treatment in Mexico: current status and opportunities for employing ecological treatment systems. Environmental Technology (United Kingdom), 2012, 33, 1151-1158.	2.2	29
49	Long-term fate of rapidly eroding carbon stock soil profiles in coastal wetlands. Science of the Total Environment, 2021, 753, 141913.	8.0	29
50	Restoring a degraded marsh using thin layer sediment placement: Short term effects on soil physical and biogeochemical properties. Ecological Engineering, 2018, 120, 61-67.	3.6	28
51	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
52	Asymmetric tidal straining across an inlet: Lateral inversion and variability over a tidal cycle. Estuarine, Coastal and Shelf Science, 2009, 85, 651-660.	2.1	26
53	Preliminary study on the potential of arsenic removal by subsurface flow constructed mesocosms. Ecological Engineering, 2012, 47, 101-104.	3.6	26
54	Ammonification and denitrification rates in coastal Louisiana bayou sediment and marsh soil: Implications for Mississippi river diversion management. Ecological Engineering, 2013, 54, 77-81.	3.6	26

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55	The Carbon Stock and Sequestration Rate in Tidal Flats From Coastal China. Global Biogeochemical Cycles, 2020, 34, e2020GB006772.	4.9	26
56	Impacts of the long-term presence of buried crude oil on salt marsh soil denitrification in Barataria Bay, Louisiana. Ecological Engineering, 2017, 99, 454-461.	3.6	23
57	Changes in estuarine sediment phosphorus fractions during a large-scale Mississippi River diversion. Science of the Total Environment, 2017, 609, 1248-1257.	8.0	23
58	Does edge erosion alter coastal wetland soil properties? A multi-method biogeochemical study. Catena, 2020, 187, 104373.	5.0	23
59	Redistribution of Wetland Soil Phosphorus Ten Years after the Conclusion of Nutrient Loading. Soil Science Society of America Journal, 2010, 74, 1808-1815.	2.2	22
60	A Geostatistical Analysis of Soil Properties in the Davis Pond Mississippi Freshwater Diversion. Soil Science Society of America Journal, 2012, 76, 1107-1118.	2.2	22
61	Nitrate Flux into the Sediments of a Shallow Oligohaline Estuary during Large Flood Pulses of Mississippi River Water. Journal of Environmental Quality, 2012, 41, 1549-1556.	2.0	22
62	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
63	Response of microbial populations regulating nutrient biogeochemical cycles to oiling of coastal saltmarshes from the Deepwater Horizon oil spill. Environmental Pollution, 2018, 241, 136-147.	7.5	21
64	The denitrification potential of eroding wetlands in Barataria Bay, LA, USA: Implications for river reconnection. Science of the Total Environment, 2019, 686, 529-537.	8.0	20
65	The Shortâ€Term Effects of Prescribed Burning on Biomass Removal and the Release of Nitrogen and Phosphorus in a Treatment Wetland. Journal of Environmental Quality, 2008, 37, 2386-2391.	2.0	19
66	Alum Application to Improve Water Quality in a Municipal Wastewater Treatment Wetland. Journal of Environmental Quality, 2009, 38, 814-821.	2.0	19
67	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 Deltaâ€"System Functioning, Human Impacts and Restoration Approaches. Water (Switzerland), 2021, 13, 642.	2.7	19
68	Effect of Aluminumâ€Containing Amendments on Phosphorus Sequestration of Wastewater Treatment Wetland Soil. Soil Science Society of America Journal, 2009, 73, 852-861.	2.2	18
69	Reducing phosphorus flux from organic soils in surface flow treatment wetlands. Chemosphere, 2011, 85, 625-629.	8.2	18
70	Coupled iron and phosphorus release from seasonally hypoxic Louisiana shelf sediment. Estuarine, Coastal and Shelf Science, 2019, 219, 81-89.	2.1	18
71	Characterization of Bacterial and Fungal Assemblages From Historically Contaminated Metalliferous Soils Using Metagenomics Coupled With Diffusion Chambers and Microbial Traps. Frontiers in Microbiology, 2020, 11, 1024.	3.5	18
72	Microbial and Geochemical Assessment of Bauxitic Un-mined and Post-mined Chronosequence Soils from Mocho Mountains, Jamaica. Microbial Ecology, 2012, 64, 738-749.	2.8	17

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73	Linking Wetland Functional Rapid Assessment Models with Quantitative Hydrological and Biogeochemical Measurements across a Restoration Chronosequence. Soil Science Society of America Journal, 2013, 77, 1442-1451.	2.2	17
74	Societal phosphorus metabolism in future coastal environments: Insights from recent trends in Louisiana, USA. Global Environmental Change, 2014, 28, 1-13.	7.8	16
75	Fresh and weathered crude oil effects on potential denitrification rates of coastal marsh soil. Chemosphere, 2015, 134, 120-126.	8.2	16
76	Influence of hydropattern and vegetation on phosphorus reduction in a constructed wetland under high and low mass loading rates. Ecological Engineering, 2012, 42, 134-145.	3.6	15
77	Influence of hydropattern and vegetation type on phosphorus dynamics in flow-through wetland treatment systems. Ecological Engineering, 2011, 37, 1369-1378.	3.6	14
78	Investigation of an early season river flood pulse: Carbon cycling in a subtropical estuary. Science of the Total Environment, 2018, 635, 867-877.	8.0	13
79	Can denitrification explain coastal wetland loss: A review of case studies in the Mississippi Delta and New England. Estuarine, Coastal and Shelf Science, 2018, 213, 294-304.	2.1	13
80	Biogeochemical Recovery of Oligohaline Wetland Soils Experiencing a Salinity Pulse. Soil Science Society of America Journal, 2013, 77, 2205-2215.	2.2	12
81	Nitrate Reduction in a Hydrologically Restored Bottomland Hardwood Forest in the Mississippi River Watershed, Northern Louisiana. Soil Science Society of America Journal, 2016, 80, 1698-1705.	2.2	11
82	Numerical Experiments on Variation of Freshwater Plume and Leakage Effect From Mississippi River Diversion in the Lake Pontchartrain Estuary. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015282.	2.6	11
83	Phosphorus uptake by Typha leaf litter as affected by oxygen availability. Wetlands, 2008, 28, 817-826.	1.5	10
84	Effects of salinity on the microbial removal of nitrate under varying nitrogen inputs within the marshland upwelling system. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 1739-1748.	1.7	10
85	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
86	Evaluation of coastal wetland soil properties in a degrading marsh. Estuarine, Coastal and Shelf Science, 2018, 212, 311-317.	2.1	10
87	Biogeochemical Dynamics I: Nitrogen Cycling in Wetlands. , 0, , 213-227.		9
88	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. Analytical Letters, 2009, 42, 2937-2950.	1.8	9
89	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
90	Peripheral freshwater deltaic wetlands are hotspots of methane flux in the coastal zone. Science of the Total Environment, 2021, 775, 145784.	8.0	9

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91	Sediment Methyl and Total Mercury Concentrations Along the Georgia and Louisiana Inner Shelf, USA. Analytical Letters, 2009, 42, 1219-1231.	1.8	8
92	Impacts of a Major Mississippi River Freshwater Diversion on Suspended Sediment Plume Kinematics in Lake Pontchartrain, a Semi-enclosed Gulf of Mexico Estuary. Estuaries and Coasts, 2021, 44, 704-721.	2.2	8
93	Investigating the impact of in situ soil organic matter degradation through porewater spectroscopic analyses on marsh edge erosion. Chemosphere, 2021, 268, 129266.	8.2	8
94	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
95	Trace Metal Concentrations in Marsh Profiles Under the Influence of an Emerging Delta (Atchafalaya) Tj ETQq1 1 0.784314 rgBT /Ove Soil and Sediment Contamination, 2016, 25, 552-562.	1.9	7
96	Spatial and temporal changes to a hydrologically-reconnected coastal wetland: Implications for restoration. Estuarine, Coastal and Shelf Science, 2020, 238, 106728.	2.1	6
97	Microbial Response to Potential Soil-Stabilizing Polymer Amendments for Coastal Wetland Restoration. Soil Science Society of America Journal, 2011, 75, 2398-2406.	2.2	5
98	The Effects of Two Consecutive Hurricanes on Basal Food Resources in a Shallow Coastal Lagoon in Louisiana. Journal of Coastal Research, 2012, 280, 407-420.	0.3	3
99	Sampling, Sorting, and Characterizing Microplastics in Aquatic Environments with High Suspended Sediment Loads and Large Floating Debris. Journal of Visualized Experiments, 2018, , .	0.3	3
100	The impact of recently excavated dredge pits on coastal hypoxia in the northern Gulf of Mexico shelf. Marine Environmental Research, 2021, 163, 105199.	2.5	3
101	Measurements of Nitrogen Mineralization Potential in Wetland Soils. Soil Science Society of America Book Series, 0, , 465-472.	0.3	2
102	The Long-Term Use of Treatment Wetlands for Total Phosphorus Removal: Can Performance Be Rejuvenated with Adaptive Management?. Environmental Contamination Remediation and Management, 2018, , 121-140.	1.0	1
103	Methods for Determining Emerging Contaminants in Wetland Matrices. Soil Science Society of America Book Series, 2015, , 841-855.	0.3	0
104	On the Calculation of the Flux of Materials through Wetlands and Estuaries under Oscillatory Motions. Soil Science Society of America Book Series, 0, , 937-947.	0.3	0
105	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