Charles W Rice

List of Publications by Year
in descending order

63 papers	4,829 citations	218662 26 h-index	128286 60 g-index
64 all docs	64 docs citations	64 times ranked	6152 citing authors

#	Article	IF	Citations
1	Quantifying Circulating IgY Antibody Responses against Select Opportunistic Bacterial Pathogens and Correlations with Body Condition Factors in Wild American Alligators, Alligator mississippiensis. Biology, 2022, 11, 269.	2.8	0
2	Deep Soil Water Content and Forage Production in a Tropical Agroforestry System. Agriculture (Switzerland), 2022, 12, 359.	3.1	1
3	Chronic toxicity of tire crumb rubber particles to mummichog (Fundulus heteroclitus) in episodic exposures. Science of the Total Environment, 2022, 846, 157447.	8.0	9
4	The In Vitro Proinflammatory Properties of Water Accommodated Sediment Extracts from a Creosoteâ€Contaminated US Environmental Protection Agency Superfund Site. Environmental Toxicology and Chemistry, 2021, 40, 1576-1585.	4.3	1
5	Chemistry and Associations of Carbon in Water-Stable Soil Aggregates from a Long-Term Temperate Agroecosystem and Implications on Soil Carbon Stabilization. ACS Agricultural Science and Technology, 2021, 1, 294-302.	2.3	1
6	Impact of nitrogen management and tillage practices on nitrous oxide emissions from rainfed corn. Soil Science Society of America Journal, 2021, 85, 1425-1436.	2.2	6
7	Quantifying circulating antibody activities against the emerging environmental pathogen, Streptococcus agalactiae, in wild captured bull sharks, spotted eagle rays, bottlenose dolphins, and loggerhead turtles. Fish and Shellfish Immunology Reports, 2021, 2, 100024.	1.2	1
8	Maize and sorghum root growth and yield when intercropped with forage grasses. Agronomy Journal, 2021, 113, 4900-4915.	1.8	5
9	Soil microbial community and activity in a tropical integrated crop-livestock system. Applied Soil Ecology, 2020, 145, 103350.	4.3	41
10	Soil microbial community, enzyme activity, C and N stocks and soil aggregation as affected by land use and soil depth in a tropical climate region of Brazil. Archives of Microbiology, 2020, 202, 2809-2824.	2.2	22
11	Linking Cover Crop Residue Quality and Tillage System to CO2-C Emission, Soil C and N Stocks and Crop Yield Based on a Long-Term Experiment. Agronomy, 2020, 10, 1848.	3.0	3
12	Keeping up with the fast-moving world of crisis management. Agriculture and Human Values, 2020, 37, 531-533.	3.0	4
13	Deep soil carbon stock, origin, and root interaction in a tropical integrated cropâ€“livestock system. Agroforestry Systems, 2020, 94, 1865-1877.	2.0	17
14	Root and shoot interactions in a tropical integrated cropâ€“livestockâ€“forest system. Agricultural Systems, 2020, 181, 102796.	6.1	17
15	Assessing strategies to enhance soil carbon sequestration with the DSSATâ€CENTURY model. European Journal of Soil Science, 2020, 71, 1034-1049.	3.9	14
16	Diversified crop rotation with noâ€till changes microbial distribution with depth and enhances activity in a subtropical Oxisol. European Journal of Soil Science, 2020, 71, 1173-1187.	3.9	19
17	Modulation of glioma-inflammation crosstalk profiles in human glioblastoma cells by indirubin-3â€™-(2,3) Tj ETQq1 1 0.784314 rgBT Interactions, 2019, 312, 108816.	4.0	9
18	Soil Organic Carbon, Aggregation, and Microbial Community Structure in Annual and Perennial Biofuel Crops. Agronomy Journal, 2019, 111, 128-142.	1.8	51

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19	Humoral Immune Responses to Select Marine Bacteria in Loggerhead Sea Turtles Caretta caretta and Kemp's Ridley Sea Turtles Lepidochelys kempii from the Southeastern United States. Journal of Aquatic Animal Health, 2018, 30, 20-30.	1.4	8
20	Monoclonal antibodies against loggerhead sea turtle, Caretta caretta, IgY isoforms reveal differential contributions to antibody titers and relatedness among other sea turtles. Developmental and Comparative Immunology, 2018, 87, 12-15.	2.3	4
21	Carbon saturation and translocation in a no-till soil under organic amendments. Agriculture, Ecosystems and Environment, 2018, 264, 73-84.	5.3	36
22	Expression of the Major Vault Protein (MVP) and Cellular Vault Particles in Fish. Anatomical Record, 2017, 300, 1981-1992.	1.4	9
23	Can no-till grain production restore soil organic carbon to levels natural grass in a subtropical Oxisol?. Agriculture, Ecosystems and Environment, 2016, 229, 13-20.	5.3	31
24	Kinetic to Saturation Model for Simulation of Soil Organic Carbon Increase to Steady State. Soil Science Society of America Journal, 2016, 80, 147-156.	2.2	15
25	AHR-related activities in a creosote-adapted population of adult atlantic killifish, Fundulus heteroclitus, two decades post-EPA superfund status at the Atlantic Wood Site, Portsmouth, VA USA. Aquatic Toxicology, 2016, 177, 74-85.	4.0	8
26	3,4-Dihydroxy-benzohydroxamic acid (Didox) suppresses pro-inflammatory profiles and oxidative stress in TLR4-activated RAW264.7 murine macrophages. Chemico-Biological Interactions, 2015, 233, 95-105.	4.0	27
27	Life Cycle Assessment of Fertilization of Corn and Corn-Soybean Rotations with Swine Manure and Synthetic Fertilizer in Iowa. Journal of Environmental Quality, 2014, 43, 709-722.	2.0	7
28	Multitissue Molecular, Genomic, and Developmental Effects of the Deepwater Horizon Oil Spill on Resident Gulf Killifish (Fundulus grandis). Environmental Science & Technology, 2013, 47, 5074-5082.	10.0	276
29	Indirubin-3â€²-(2,3 dihydroxypropyl)-oximether (E804) is a potent modulator of LPS-stimulated macrophage functions. Toxicology and Applied Pharmacology, 2013, 266, 157-166.	2.8	14
30	Development, characterization, and technical applications of a fish lysozyme-specific monoclonal antibody (mAb M24-2). Comparative Immunology, Microbiology and Infectious Diseases, 2010, 33, e15-e23.	1.6	22
31	Protection of soil organic C and N in temperate and tropical soils: effect of native and agroecosystems. Biogeochemistry, 2009, 92, 129-143.	3.5	60
32	Soil aggregation and carbon sequestration are tightly correlated with the abundance of arbuscular mycorrhizal fungi: results from longâ€term field experiments. Ecology Letters, 2009, 12, 452-461.	6.4	600
33	Tillage Effects on Microbial and Carbon Dynamics during Plant Residue Decomposition. Soil Science Society of America Journal, 2009, 73, 138-145.	2.2	67
34	Lymphoid Tissue Ontogeny in the Mummichog, Fundulus heteroclitus. Anatomical Record, 2008, 291, 1236-1245.	1.4	4
35	Greenhouse gas mitigation in agriculture. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 789-813.	4.0	1,739
36	Bioindicators of Immune Function in Creosote-adapted Estuarine Killifish,Fundulus heteroclitus. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 1433-1442.	2.3	29

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37	Emerging technologies for in situ measurement of soil carbon. Climatic Change, 2007, 80, 43-54.	3.6	80
38	Soil carbon sequestration. Climatic Change, 2007, 80, 1-3.	3.6	50
39	Introduction to Special Section on Greenhouse Gases and Carbon Sequestration in Agriculture and Forestry. Journal of Environmental Quality, 2006, 35, 1338-1340.	2.0	21
40	Estimating Soil Mineralizable Nitrogen under Different Management Practices. Soil Science Society of America Journal, 2006, 70, 1522-1531.	2.2	44
41	Natural 15N abundances in a tallgrass prairie ecosystem exposed to 8-y of elevated atmospheric CO2. Soil Biology and Biochemistry, 2006, 38, 409-412.	8.8	10
42	The Effects of Indirubin-3â€²-Monoxime, A Novel AHR Ligand, on Stress and Toxicity-Related Gene/Protein Expression in Human U937 Cells Undergoing Differentiation and Activation. Journal of Immunotoxicology, 2006, 3, 1-10.	1.7	12
43	PARTITIONING OF NITROGEN OVER FIVE GROWING SEASONS IN TALLGRASS PRAIRIE. Ecology, 2005, 86, 1280-1287.	3.2	29
44	Shortâ€Term Competition for Ammonium and Nitrate in Tallgrass Prairie. Soil Science Society of America Journal, 2005, 69, 371-377.	2.2	25
45	Carbon and Nitrogen Pools in a Tallgrass Prairie Soil under Elevated Carbon Dioxide. Soil Science Society of America Journal, 2004, 68, 148-153.	2.2	25
46	Biologically Defined Soil Organic Matter Pools as Affected by Rotation and Tillage. Environmental Management, 2004, 33, S528.	2.7	20
47	Tillage and Manure Effects on Soil and Aggregateâ€Associated Carbon and Nitrogen. Soil Science Society of America Journal, 2004, 68, 809-816.	2.2	407
48	Tillage and Manure Effects on Soil and Aggregate-Associated Carbon and Nitrogen. Soil Science Society of America Journal, 2004, 68, 809.	2.2	94
49	CIRCULATING LYSOZYME AND HEPATIC CYP1A ACTIVITIES DURING A CHRONIC DIETARY EXPOSURE TO TRIBUTYLTIN (TBT) AND 3,3',4,4',5-PENTACHLOROBIPHENYL (PCB-126) MIXTURES IN CHANNEL CATFISH, ICTALURUS PUNCTATUS. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2002, 65, 589-602.	2.3	32
50	Nitrogen Competition in a Tallgrass Prairie Ecosystem Exposed to Elevated Carbon Dioxide. Soil Science Society of America Journal, 2001, 65, 340-346.	2.2	41
51	Carbon dynamics and microbial activity in tallgrass prairie exposed to elevated CO2 for 8 years. Plant and Soil, 2000, 227, 127-137.	3.7	97
52	Soil Air Carbon Dioxide and Nitrous Oxide Concentrations in Profiles under Tallgrass Prairie and Cultivation. Journal of Environmental Quality, 1999, 28, 784-793.	2.0	28
53	Innate cellular immune function of anterior kidney leucocytes in the gulf killifish,Fundulus grandis. Fish and Shellfish Immunology, 1998, 8, 129-142.	3.6	12
54	Carbon and Nitrogen Mineralization in Tallgrass Prairie and Agricultural Soil Profiles. Soil Science Society of America Journal, 1998, 62, 942-951.	2.2	75

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55	TRIBUTYLTIN POTENTIATES 3,3â€²,4,4â€²,5-PENTACHLOROBIPHENYL-INDUCED CYTOCHROME P-4501A-RELATED ACTIVITY. Journal of Toxicology and Environmental Health - Part A: Current Issues, 1997, 51, 131-148.	2.3	15
56	Changes in Soil Microbial and Chemical Properties under Longâ€term Crop Rotation and Fertilization. Soil Science Society of America Journal, 1997, 61, 1672-1678.	2.2	129
57	Denitrification in Soil Profiles beneath Grassland and Cultivated Soils. Soil Science Society of America Journal, 1996, 60, 1822-1828.	2.2	44
58	Immune Function and Cytochrome P4501A Activity after Acute Exposure to 3,3',4,4',5-Pentachlorobiphenyl (PCB 126) in Channel Catfish. Journal of Aquatic Animal Health, 1995, 7, 195-204.	1.4	52
59	Soil microbial response in tallgrass prairie to elevated CO2. Plant and Soil, 1994, 165, 67-74.	3.7	132
60	Microbial Biomass Dynamics in Tallgrass Prairie. Soil Science Society of America Journal, 1994, 58, 816-823.	2.2	108
61	Tributyltin stimulates reactive oxygen formation in toadfish macrophages. Developmental and Comparative Immunology, 1991, 15, 431-436.	2.3	20
62	Influence of Tributyltin on in Vitro Activation of Oyster Toadfish Macrophages. Journal of Aquatic Animal Health, 1989, 1, 62-68.	1.4	49
63	Humoral immune responses to select marine bacteria in loggerhead,Caretta caretta, and Kempâ€™s ridley,Lepidochelys kempii, sea turtles from the south eastern United States. Journal of Aquatic Animal Health, 0, , .	1.4	0