

J Thad Scott

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,614
citations

159585

30
h-index

144013

57
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78
all docs

78
docs citations

78
times ranked

3886
citing authors

#	ARTICLE	IF	CITATIONS
1	It Takes Two to Tango: When and Where Dual Nutrient (N & P) Reductions Are Needed to Protect Lakes and Downstream Ecosystems. <i>Environmental Science & Technology</i> , 2016, 50, 10805-10813.	10.0	483
2	Mitigating cyanobacterial harmful algal blooms in aquatic ecosystems impacted by climate change and anthropogenic nutrients. <i>Harmful Algae</i> , 2016, 54, 213-222.	4.8	453
3	Phosphorus Mitigation to Control River Eutrophication: Murky Waters, Inconvenient Truths, and "Postnormal" Science. <i>Journal of Environmental Quality</i> , 2013, 42, 295-304.	2.0	238
4	Throwing Fuel on the Fire: Synergistic Effects of Excessive Nitrogen Inputs and Global Warming on Harmful Algal Blooms. <i>Environmental Science & Technology</i> , 2010, 44, 7756-7758.	10.0	194
5	Nitrogen fixation may not balance the nitrogen pool in lakes over timescales relevant to eutrophication management. <i>Limnology and Oceanography</i> , 2010, 55, 1265-1270.	3.1	176
6	Denitrification, dissimilatory nitrate reduction to ammonium, and nitrogen fixation along a nitrate concentration gradient in a created freshwater wetland. <i>Biogeochemistry</i> , 2008, 87, 99-111.	3.5	167
7	Mitigating eutrophication and toxic cyanobacterial blooms in large lakes: The evolution of a dual nutrient (N and P) reduction paradigm. <i>Hydrobiologia</i> , 2020, 847, 4359-4375.	2.0	100
8	Within-River Phosphorus Retention: Accounting for a Missing Piece in the Watershed Phosphorus Puzzle. <i>Environmental Science & Technology</i> , 2012, 46, 13284-13292.	10.0	94
9	Does nutrient enrichment decouple algal-bacterial production in periphyton?. <i>Journal of the North American Benthological Society</i> , 2008, 27, 332-344.	3.1	91
10	Variable Stoichiometry and Homeostatic Regulation of Bacterial Biomass Elemental Composition. <i>Frontiers in Microbiology</i> , 2012, 3, 42.	3.5	88
11	Freshwater Bacteria are Stoichiometrically Flexible with a Nutrient Composition Similar to Seston. <i>Frontiers in Microbiology</i> , 2010, 1, 132.	3.5	86
12	Particulate organic matter quality influences nitrate retention and denitrification in stream sediments: evidence from a carbon burial experiment. <i>Biogeochemistry</i> , 2014, 119, 387-402.	3.5	66
13	A Review of Stream Nutrient Criteria Development in the United States. <i>Journal of Environmental Quality</i> , 2013, 42, 1002-1014.	2.0	64
14	Stoichiometric imbalance in rates of nitrogen and phosphorus retention, storage, and recycling can perpetuate nitrogen deficiency in highly-productive reservoirs. <i>Limnology and Oceanography</i> , 2014, 59, 2203-2216.	3.1	57
15	Nitrogen transformations differentially affect nutrient-limited primary production in lakes of varying trophic state. <i>Limnology and Oceanography Letters</i> , 2019, 4, 96-104.	3.9	51
16	Nitrogen fixation and phosphatase activity in periphyton growing on nutrient diffusing substrata: evidence for differential nutrient limitation in stream periphyton. <i>Journal of the North American Benthological Society</i> , 2009, 28, 57-68.	3.1	45
17	Partitioning whole-lake denitrification using in situ dinitrogen gas accumulation and intact sediment core experiments. <i>Limnology and Oceanography</i> , 2012, 57, 925-935.	3.1	44
18	ARE WATERSHED AND LACUSTRINE CONTROLS ON PLANKTONIC N ₂ FIXATION HIERARCHICALLY STRUCTURED. , 2008, 18, 805-819.		43

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19	Biological Stoichiometry Regulates Toxin Production in <i>Microcystis aeruginosa</i> (UTEX 2385). <i>Toxins</i> , 2019, 11, 601.	3.4	43
20	Global scanning of cylindrospermopsin: Critical review and analysis of aquatic occurrence, bioaccumulation, toxicity and health hazards. <i>Science of the Total Environment</i> , 2020, 738, 139807.	8.0	43
21	The effect of periphyton stoichiometry and light on biological phosphorus immobilization and release in streams. <i>Limnology</i> , 2012, 13, 97-106.	1.5	42
22	Periphyton nutrient limitation and nitrogen fixation potential along a wetland nutrient-depletion gradient. <i>Wetlands</i> , 2005, 25, 439-448.	1.5	41
23	Light and dissolved phosphorus interactively affect microbial metabolism, stoichiometry and decomposition of leaf litter. <i>Freshwater Biology</i> , 2016, 61, 1006-1019.	2.4	41
24	What's More Important for Managing Phosphorus: Loads, Concentrations or Both?. <i>Environmental Science & Technology</i> , 2014, 48, 23-24.	10.0	40
25	River-reservoir transition zones are nitrogen fixation hot spots regardless of ecosystem trophic state. <i>Hydrobiologia</i> , 2009, 625, 61-68.	2.0	39
26	N_2 fixation exceeds internal nitrogen loading as a phytoplankton nutrient source in perpetually nitrogen-limited reservoirs. <i>Freshwater Science</i> , 2013, 32, 849-861.	1.8	39
27	Nitrogen form, concentration, and micronutrient availability affect microcystin production in cyanobacterial blooms. <i>Harmful Algae</i> , 2021, 103, 102002.	4.8	35
28	Cyanobacteria in Freshwater Benthic Environments. , 2012, , 271-289.		34
29	A stream insect detritivore violates common assumptions of threshold elemental ratio bioenergetics models. <i>Freshwater Science</i> , 2015, 34, 508-518.	1.8	34
30	The role of N_2 fixation in alleviating N limitation in wetland metaphyton: enzymatic, isotopic, and elemental evidence. <i>Biogeochemistry</i> , 2007, 84, 207-218.	3.5	33
31	Comment: An alternative interpretation of the relationship between TN:TP and microcystins in Canadian lakes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 1265-1268.	1.4	33
32	Change Point Analysis of Phosphorus Trends in the Illinois River (Oklahoma) Demonstrates the Effects of Watershed Management. <i>Journal of Environmental Quality</i> , 2011, 40, 1249-1256.	2.0	30
33	Contrasting Nutrient Mitigation and Denitrification Potential of Agricultural Drainage Environments with Different Emergent Aquatic Macrophytes. <i>Journal of Environmental Quality</i> , 2015, 44, 1304-1314.	2.0	30
34	Leaf-litter stoichiometry is affected by streamwater phosphorus concentrations and litter type. <i>Freshwater Science</i> , 2013, 32, 753-761.	1.8	28
35	Physical Factors Control Phytoplankton Production and Nitrogen Fixation in Eight Texas Reservoirs. <i>Ecosystems</i> , 2008, 11, 1181-1197.	3.4	27
36	Optical water quality and human perceptions: a synthesis. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 167-180.	6.5	27

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37	Denitrification potential of low-grade weirs and agricultural drainage ditch sediments in the Lower Mississippi Alluvial Valley. <i>Ecological Engineering</i> , 2014, 73, 168-175.	3.6	23
38	Dietary and taxonomic controls on incorporation of microbial carbon and phosphorus by detritivorous caddisflies. <i>Oecologia</i> , 2016, 180, 567-579.	2.0	23
39	A combined watershed water quality modeling analysis of the Lake Waco reservoir: I. Calibration and confirmation of predicted water quality. <i>Lake and Reservoir Management</i> , 2010, 26, 147-158.	1.3	22
40	Nitrogen fixation: A poorly understood process along the freshwater-marine continuum. <i>Limnology and Oceanography Letters</i> , 2022, 7, 1-10.	3.9	22
41	Divergent responses of biomass and enzyme activities suggest differential nutrient limitation in stream periphyton. <i>Freshwater Science</i> , 2012, 31, 1096-1104.	1.8	19
42	Detrital nutrient content and leaf species differentially affect growth and nutritional regulation of detritivores. <i>Oikos</i> , 2018, 127, 1471-1481.	2.7	19
43	Response to Comment: Nitrogen fixation has not offset declines in the Lake 227 nitrogen pool and shows that nitrogen control deserves consideration in aquatic ecosystems. <i>Limnology and Oceanography</i> , 2011, 56, 1548-1550.	3.1	18
44	Sestonic Chlorophyll-a Shows Hierarchical Structure and Thresholds with Nutrients across the Red River Basin, USA. <i>Journal of Environmental Quality</i> , 2013, 42, 437-445.	2.0	16
45	Buried particulate organic carbon stimulates denitrification and nitrate retention in stream sediments at the groundwater-surface water interface. <i>Freshwater Science</i> , 2015, 34, 161-171.	1.8	16
46	Optical water quality and human perceptions of rivers: an ethnohydrology study. <i>Ecosystem Health and Sustainability</i> , 2016, 2, .	3.1	16
47	Diazotrophs modulate phycobiliproteins and nitrogen stoichiometry differently than other cyanobacteria in response to light and nitrogen availability. <i>Limnology and Oceanography</i> , 2021, 66, 2333-2345.	3.1	15
48	Seasonal Differences in Relationships between Nitrate Concentration and Denitrification Rates in Ditch Sediments Vegetated with Rice Cutgrass. <i>Journal of Environmental Quality</i> , 2017, 46, 1500-1509.	2.0	14
49	Predicting Nitrate Retention at the Groundwater-Surface Water Interface in Sandplain Streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2824-2838.	3.0	14
50	Allochthonous organic matter supplements and sediment transport in a polymictic reservoir determined using elemental and isotopic ratios. <i>Biogeochemistry</i> , 2009, 96, 87-100.	3.5	13
51	Dynamics of nitrogen-fixing cyanobacteria with heterocysts: a stoichiometric model. <i>Marine and Freshwater Research</i> , 2020, 71, 644.	1.3	13
52	Use of sediment elemental and isotopic compositions to record the eutrophication of a polymictic reservoir in central Texas, USA. <i>Lakes and Reservoirs: Research and Management</i> , 2010, 15, 25-39.	0.9	12
53	The influence of rainfall on taste and odor production in a south-central USA reservoir. <i>Freshwater Science</i> , 2014, 33, 755-764.	1.8	12
54	Interspecific homeostatic regulation and growth across aquatic invertebrate detritivores: a test of ecological stoichiometry theory. <i>Oecologia</i> , 2019, 190, 229-242.	2.0	12

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55	Biological stoichiometry and growth dynamics of a diazotrophic cyanobacteria in nitrogen sufficient and deficient conditions. <i>Harmful Algae</i> , 2021, 103, 102011.	4.8	12
56	Stoichiometric Ecotoxicology for a Multisubstance World. <i>BioScience</i> , 2021, 71, 132-147.	4.9	12
57	Stoichiometric imbalances complicate prediction of phytoplankton biomass in U.S. lakes: Implications for nutrient criteria. <i>Limnology and Oceanography</i> , 2021, 66, 2967-2978.	3.1	11
58	Competitive superiority of N-fixing cyanobacteria when fixed N is scarce: Reconsiderations based on a model with heterocyst differentiation. <i>Ecological Modelling</i> , 2022, 466, 109904.	2.5	11
59	Black disk visibility, turbidity, and total suspended solids in rivers: A comparative evaluation. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 658-667.	2.0	10
60	Phytoplankton N ₂ -fixation efficiency and its effect on harmful algal blooms. <i>Freshwater Science</i> , 2018, 37, 264-275.	1.8	8
61	The effects of salinity and P on N-fixing toxins by both an N-fixing and non-N-fixing cyanobacteria. <i>Limnology and Oceanography Letters</i> , 2023, 8, 162-172.	3.9	8
62	Carbon sink to source: longitudinal gradients of planktonic P:R ratios in subtropical reservoirs. <i>Biogeochemistry</i> , 2012, 107, 81-93.	3.5	7
63	Assessing trichloromethane formation and control in algal-stimulated waters amended with nitrogen and phosphorus. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 1290-1299.	3.5	7
64	Physicochemical Characterization of Sediment in Northwest Arkansas Streams. <i>Journal of Environmental Protection</i> , 2011, 02, 629-638.	0.7	7
65	Hot spots and hot moments of planktonic nitrogen fixation in a eutrophic southern reservoir. <i>Lake and Reservoir Management</i> , 2010, 26, 95-103.	1.3	6
66	Differential influences of (±) anatoxin-a on photolocomotor behavior and gene transcription in larval zebrafish and fathead minnows. <i>Environmental Sciences Europe</i> , 2021, 33, .	5.5	6
67	Phosphorus Uptake and Release from Submerged Sediments in a Simulated Stream Channel Inundated with a Poultry Litter Source. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	5
68	Implementing Effects-Based Water Quality Criteria for Eutrophication in Beaver Lake, Arkansas: Linking Standard Development and Assessment Methodology. <i>Journal of Environmental Quality</i> , 2015, 44, 1503-1512.	2.0	5
69	Risk Indicators for Identifying Critical Source Areas in Five Arkansas Watersheds. <i>Transactions of the ASABE</i> , 2018, 61, 1025-1032.	1.1	4
70	Highest primary production achieved at high nitrogen levels despite strong stoichiometric imbalances with phosphorus in hypereutrophic experimental systems. <i>Limnology and Oceanography</i> , 2021, 66, 4375-4390.	3.1	4
71	Comparing two periphyton collection methods commonly used for stream bioassessment and the development of numeric nutrient standards. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 360.	2.7	3
72	Leaf-litter stoichiometry and microbial phosphatase activity, respiration, and decomposition as phosphorus enrichment endpoints: A laboratory experiment. <i>Freshwater Science</i> , 2020, 39, 665-679.	1.8	3

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73	The synergistic effect of elevated CO ₂ and phosphorus on reservoir eutrophication. <i>Lake and Reservoir Management</i> , 2016, 32, 373-385.	1.3	2
74	Stream algal biomass response to experimental phosphorus and nitrogen gradients: A case for dual nutrient management in agricultural watersheds. <i>Journal of Environmental Quality</i> , 2020, 49, 140-151.	2.0	2
75	Sediment phosphorus release sustains nuisance periphyton growth when nitrogen is not limiting. <i>Journal of Limnology</i> , 2020, 79, .	1.1	2
76	The microbial role in littoral zone biogeochemical processes: Why Wetzel was right. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2009, 30, 981-984.	0.1	1
77	Substituting values for censored data from Texas, USA, reservoirs inflated and obscured trends in analyses commonly used for water quality target development. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 394.	2.7	0
78	Dynamic Phycobilin Pigment Variations in Diazotrophic and Non-diazotrophic Cyanobacteria Batch Cultures Under Different Initial Nitrogen Concentrations. <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	0