Song S Qian

List of Publications by Year
in descending order

107	3,207	159525	182361
papers	citations	30 h-index	51 g-index

108	108	108	4784
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Validation of the model-predicted spawning area of grass carp Ctenopharyngodon idella in the Sandusky River. Journal of Great Lakes Research, 2021, 47, 29-36.	0.8	11
2	Dynamic Bayesian Networks to Assess Anthropogenic and Climatic Drivers of Saltwater Intrusion: A Decision Support Tool Toward Improved Management. Integrated Environmental Assessment and Management, 2021, 17, 202-220.	1.6	13
3	Embracing uncertainty to reduce bias in hydroacoustic species apportionment. Fisheries Research, 2021, 233, 105750.	0.9	3
4	Seasonal overturn and stratification changes drive deep-water warming in one of Earthâ€™s largest lakes. Nature Communications, 2021, 12, 1688.	5.8	50
5	Evaluating the impact of watershed development and climate change on stream ecosystems: A Bayesian network modeling approach. Water Research, 2021, 205, 117685.	5.3	8
6	Chlorophyll a as an indicator of microcystin: Short-term forecasting and risk assessment in Lake Erie. Ecological Indicators, 2021, 130, 108055.	2.6	17
7	Ecoregional or site-specific lake nutrient criteria? Evidence from ecological fallacy. Ecological Indicators, 2020, 111, 105989.	2.6	7
8	A hierarchical threshold modeling approach for understanding phenological responses to climate change: when did North American lilacs start to bloom earlier?. SN Applied Sciences, 2020, 2, 1.	1.5	0
9	Using structural equation modeling to better understand microcystis biovolume dynamics in a mediterranean hypereutrophic reservoir. Ecological Modelling, 2020, 435, 109282.	1.2	7
10	Effects of climate and land-use changes on fish catches across lakes at a global scale. Nature Communications, 2020, 11, 2526.	5.8	28
11	All tests are imperfect: Accounting for false positives and false negatives using Bayesian statistics. Heliyon, 2020, 6, e03571.	1.4	8
12	Improving estimates of built-up area from night time light across globally distributed cities through hierarchical modeling. Science of the Total Environment, 2019, 647, 1266-1280.	3.9	18
13	The implications of Simpson's paradox for cross-scale inference among lakes. Water Research, 2019, 163, 114855.	5.3	12
14	A global analysis of cladoceran body size and its variation linking to habitat, distribution and taxonomy. Zoological Journal of the Linnean Society, 2019, 187, 1119-1130.	1.0	9
15	Total phosphorus-precipitation and Chlorophyll a-phosphorus relationships of lakes and reservoirs mediated by soil iron at regional scale. Water Research, 2019, 154, 136-143.	5.3	28
16	Using Bayesian change point model to enhance understanding of the shifting nutrients-phytoplankton relationship. Ecological Modelling, 2019, 393, 120-126.	1.2	13
17	Modeling framework to estimate spawning and hatching locations of pelagically spawned eggs. Canadian Journal of Fisheries and Aquatic Sciences, 2019, 76, 597-607.	0.7	22
18	Evaluating catchability in a large-scale gillnet survey using hydroacoustics: Making the case for coupled surveys. Fisheries Research, 2019, 211, 309-318.	0.9	10

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19	Rethinking the lake trophic state index. PeerJ, 2019, 7, e7936.	0.9	15
20	Reciprocally transplanted lizards along an elevational gradient match light environment use of local lizards via phenotypic plasticity. Functional Ecology, 2018, 32, 1227-1236.	1.7	26
21	Inferred fish behavior its implications for hydroacoustic surveys in nearshore habitats. Fisheries Research, 2018, 199, 63-75.	0.9	17
22	The effects of nutrients on stream invertebrates: a regional estimation by generalized propensity score. Ecological Processes, 2018, 7, 21.	1.6	12
23	Updating the ELISA standard curve fitting process to reduce uncertainty in estimated microcystin concentrations. MethodsX, 2018, 5, 304-311.	0.7	5
24	On Abandoning Hypothesis Testing in Environmental Standard Compliance Assessment. Environmental Management, 2018, 62, 183-189.	1.2	5
25	A Metaâ€Analysis on the Effect of Agricultural Conservation Practices on Nutrient Loss. Journal of Environmental Quality, 2018, 47, 1172-1178.	1.0	8
26	The multiple-comparison trap and the Ravenâ€™s paradoxâ€”perils of using null hypothesis testing in environmental assessment. Environmental Monitoring and Assessment, 2018, 190, 409.	1.3	2
27	Sparse targets in hydroacoustic surveys: Balancing quantity and quality of in situ target strength data. Fisheries Research, 2017, 188, 173-182.	0.9	11
28	Comparative analysis of discretization methods in Bayesian networks. Environmental Modelling and Software, 2017, 87, 64-71.	1.9	72
29	Metaâ€Analysis Constrained by Data: Recommendations to Improve Relevance of Nutrient Management Research. Agronomy Journal, 2017, 109, 2441-2449.	0.9	31
30	First direct confirmation of grass carp spawning in a Great Lakes tributary. Journal of Great Lakes Research, 2016, 42, 899-903.	0.8	74
31	A cross-scale view of N and P limitation using a Bayesian hierarchical model. Limnology and Oceanography, 2016, 61, 2276-2285.	1.6	10
32	Applying Statistical Causal Analyses to Agricultural Conservation: AÂCase Study Examining P Loss Impacts. Journal of the American Water Resources Association, 2016, 52, 198-208.	1.0	8
33	Response to ‹scp›CO‹/scp›‹sub›2‹/sub› enrichment of understory vegetation in the shade of forests. Global Change Biology, 2016, 22, 944-956.	4.2	29
34	Response and biophysical regulation of carbon dioxide fluxes to climate variability and anomaly in contrasting ecosystems in northwestern Ohio, USA. Agricultural and Forest Meteorology, 2016, 220, 50-68.	1.9	17
35	A Hierarchical Model for Estimating Longâ€Term Trend of Atrazine Concentration in the Surface Water of the Contiguous U.S.. Journal of the American Water Resources Association, 2015, 51, 1128-1137.	1.0	11
36	Quantifying and Reducing Uncertainty in Estimated Microcystin Concentrations from the ELISA Method. Environmental Science & Technology, 2015, 49, 14221-14229.	4.6	34

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37	A continuous variable Bayesian networks model for water quality modeling: A case study of setting nitrogen criterion for small rivers and streams in Ohio, USA. Environmental Modelling and Software, 2015, 69, 14-22.	1.9	52
38	The Frequency Component of Water Quality Criterion Compliance AssessmentÂShould be Data Driven. Environmental Management, 2015, 56, 24-33.	1.2	10
39	Implications of Steinâ€™s Paradox for Environmental Standard Compliance Assessment. Environmental Science & Technology, 2015, 49, 5913-5920.	4.6	23
40	A hierarchical zero-inflated model for species compositional data-from individual taxon responses to community response. Limnology and Oceanography: Methods, 2014, 12, 498-506.	1.0	4
41	Bayesian hierarchical modeling of larval walleye (Sander vitreus) abundance and mortality: Accounting for spatial and temporal variability on a large river. Journal of Great Lakes Research, 2014, 40, 29-40.	0.8	8
42	A Bayesian hierarchical model to guide development and evaluation of substance objectives under the 2012 Great Lakes Water Quality Agreement. Journal of Great Lakes Research, 2014, 40, 49-55.	0.8	7
43	Trends in the distribution and abundance of Hexagenia spp. in Saginaw Bay, Lake Huron, 1954â€“2012: Moving towards recovery?. Journal of Great Lakes Research, 2014, 40, 156-167.	0.8	6
44	Ecological threshold and environmental management: A note on statistical methods for detecting thresholds. Ecological Indicators, 2014, 38, 192-197.	2.6	28
45	Statistics in ecology is for making a â€œprincipledâ€•argument. Landscape Ecology, 2014, 29, 937-939.	1.9	4
46	Re: M. Song, Y. Guan, â€œThe environmental efficiency of Wanjiang demonstration area: A Bayesian estimation approachâ€•[Ecol. Indic. 36 (2014) 59â€“67]. Ecological Indicators, 2014, 45, 648-649.	2.6	0
47	Phosphorus targets and eutrophication objectives in Saginaw Bay: A 35year assessment. Journal of Great Lakes Research, 2014, 40, 4-10.	0.8	31
48	A study of anthropogenic and climatic disturbance of the New River Estuary using a Bayesian belief network. Marine Pollution Bulletin, 2014, 83, 107-115.	2.3	13
49	Modeling of non-point source nitrogen pollution from 1979 to 2008 in Jiaodong Peninsula, China. Hydrological Processes, 2014, 28, 3264-3275.	1.1	14
50	A critique of the use of indicator-species scores for identifying thresholds in species responses. Freshwater Science, 2013, 32, 471-488.	0.9	13
51	Population decline of the Elfin-woods WarblerSetophaga angelaein eastern Puerto Rico. Bird Conservation International, 2013, 23, 136-146.	0.7	6
52	Optimizing an estuarine water quality monitoring program through an entropy-based hierarchical spatiotemporal Bayesian framework. Water Resources Research, 2013, 49, 6933-6945.	1.7	16
53	Photoperiodic regulation of the seasonal pattern of photosynthetic capacity and the implications for carbon cycling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8612-8617.	3.3	247
54	Multinomial regression for analyzing macroinvertebrate assemblage composition data. Freshwater Science, 2012, 31, 681-694.	0.9	17

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55	To threshold or not to threshold? That's the question. Ecological Indicators, 2012, 15, 1-9.	2.6	45
56	On model coefficient estimation using Markov chain Monte Carlo simulations: A potential problem and the solution. Ecological Modelling, 2012, 247, 302-306.	1.2	2
57	Analytical options for estimating ecological thresholds â€“ statistical considerations. , 2012, , 279-297.		0
58	Multilevel regression models describing regional patterns of invertebrate and algal responses to urbanization across the USA. Journal of the North American Benthological Society, 2011, 30, 797-819.	3.0	35
59	Modeling Contaminant Concentration Distributions in Chinaâ€™s Centralized Source Waters. Environmental Science & Technology, 2011, 45, 6041-6048.	4.6	20
60	Response to King and Baker: limitations on threshold detection and characterization of community thresholds. , 2011, 21, 2840-2845.		12
61	A Bayesian changepointâ€“threshold model to examine the effect of TMDL implementation on the flowâ€“nitrogen concentration relationship in the Neuse River basin. Water Research, 2011, 45, 51-62.	5.3	30
62	Spatial variability of soil nitrogen and phosphorus of a mixed forest ecosystem in Beijing, China. Environmental Earth Sciences, 2010, 60, 1783-1792.	1.3	12
63	Assessing the Risk of Hydroxybenzene Contamination in Fish Raised on a Chinese Aquaculture Farm. Human and Ecological Risk Assessment (HERA), 2010, 16, 210-222.	1.7	0
64	On the application of multilevel modeling in environmental and ecological studies. Ecology, 2010, 91, 355-361.	1.5	133
65	Bayesian Hierarchical/Multilevel Models for Inference and Prediction Using Cross-System Lake Data. , 2009, , 111-136.		10
66	A Bayesian hierarchical modeling approach for analyzing observational data from marine ecological studies. Marine Pollution Bulletin, 2009, 58, 1916-1921.	2.3	12
67	Determinants of coastal treeline and the role of abiotic and biotic interactions. Plant Ecology, 2009, 202, 55-66.	0.7	25
68	Calibrating and validating bacterial water quality models: A Bayesian approach. Water Research, 2009, 43, 2688-2698.	5.3	38
69	The effects of prey demography on humpback whale (Megaptera novaeangliae) abundance around Anvers Island, Antarctica. Polar Biology, 2008, 31, 1217-1224.	0.5	19
70	Tolerance of Pinus taeda and Pinus serotina to low salinity and flooding: Implications for equilibrium vegetation dynamics. Journal of Vegetation Science, 2008, 19, 15-22.	1.1	21
71	Regional Scale Stressor-Response Models in Aquatic Ecosystems. Journal of the American Water Resources Association, 2008, 44, 771-781.	1.0	21
72	Examining conservation attitudes, perspectives, and challenges in India. Biological Conservation, 2008, 141, 2357-2367.	1.9	48

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73	Recent Water Level Declines in the Lake Michiganâ€'Huron System. Environmental Science & Technology, 2008, 42, 367-373.	4.6	92
74	Response to Comment on â€œEstimating Ecological Thresholds for Phosphorus in the Evergladesâ€• Environmental Science & Technology, 2008, 42, 6772-6773.	4.6	3
75	The MANAGE Database: Nutrient Load and Site Characteristic Updates and Runoff Concentration Data. Journal of Environmental Quality, 2008, 37, 2403-2406.	1.0	53
76	ECOLOGICAL APPLICATIONS OF MULTILEVEL ANALYSIS OF VARIANCE. Ecology, 2007, 88, 2489-2495.	1.5	75
77	Combining Model Results and Monitoring Data for Water Quality Assessment. Environmental Science & Technology, 2007, 41, 5008-5013.	4.6	31
78	Estimating Ecological Thresholds for Phosphorus in the Everglades. Environmental Science & Technology, 2007, 41, 8084-8091.	4.6	87
79	Geospatial web services within a scientific workflow: Predicting marine mammal habitats in a dynamic environment. Ecological Informatics, 2007, 2, 210-223.	2.3	47
80	Approaches to Evaluate Water Quality Model Parameter Uncertainty for Adaptive TMDL Implementation¹. Journal of the American Water Resources Association, 2007, 43, 1499-1507.	1.0	40
81	Eutrophication risk assessment using Bayesian calibration of process-based models: Application to a mesotrophic lake. Ecological Modelling, 2007, 208, 215-229.	1.2	126
82	Characterization of Background Concentrations of Contaminants Using a Mixture of Normal Distributions. Environmental Science & Technology, 2006, 40, 6021-6025.	4.6	8
83	Estimating Nutrients and ChlorophyllaRelationships in Finnish Lakes. Environmental Science & Technology, 2006, 40, 7848-7853.	4.6	70
84	A BAYESIAN APPROACH TO RETRANSFORMATION BIAS IN TRANSFORMED REGRESSION. Ecology, 2006, 87, 1472-1477.	1.5	41
85	Declining Threshold for Hypoxia in the Gulf of Mexico. Environmental Science & Technology, 2005, 39, 716-723.	4.6	34
86	A Bayesian analysis of mouse infectivity data to evaluate the effectiveness of using ultraviolet light as a drinking water disinfectant. Water Research, 2005, 39, 4229-4239.	5.3	8
87	Nonlinear regression modeling of nutrient loads in streams: A Bayesian approach. Water Resources Research, 2005, 41, .	1.7	57
88	TEMPORAL CHANGES IN THE YADKIN RIVER FLOW VERSUS SUSPENDED SEDIMENT CONCENTRATION RELATIONSHIP. Journal of the American Water Resources Association, 2004, 40, 1219-1229.	1.0	3
89	A Hierarchical Modeling Approach for Estimating National Distributions of Chemicals in Public Drinking Water Systems. Environmental Science & Technology, 2004, 38, 1176-1182.	4.6	24
90	Will Lake Michigan Lake Trout Meet the Great Lakes Strategy 2002 PCB Reduction Goal?. Environmental Science & Technology, 2004, 38, 359-363.	4.6	30

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91	Soil total phosphorus threshold in the Everglades: a Bayesian changepoint analysis for multinomial response data. Ecological Indicators, 2004, 4, 29-37.	2.6	28
92	Ultraviolet light inactivation of protozoa in drinking water: a Bayesian meta-analysis. Water Research, 2004, 38, 317-326.	5.3	36
93	On Monte Carlo methods for Bayesian inference. Ecological Modelling, 2003, 159, 269-277.	1.2	144
94	Two statistical methods for the detection of environmental thresholds. Ecological Modelling, 2003, 166, 87-97.	1.2	169
95	Support of Total Maximum Daily Load Programs Using Spatially Referenced Regression Models. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 315-329.	1.3	42
96	Setting Standards for Water Quality in the Everglades. Chance, 2003, 16, 10-16.	0.1	3
97	A Predictive Model of Mercury Fish Tissue Concentrations for the Southeastern United States. Environmental Science & Technology, 2001, 35, 941-947.	4.6	37
98	Univariate Bayesian nonparametric binary regression with application in environmental management. Environmental and Ecological Statistics, 2000, 7, 77-91.	1.9	4
99	Seasonal and Long-Term Nutrient Trend Decomposition along a Spatial Gradient in the Neuse River Watershed. Environmental Science & Technology, 2000, 34, 4474-4482.	4.6	70
100	Long-Term Phosphorus Assimilative Capacity in Freshwater Wetlands:Â A New Paradigm for Sustaining Ecosystem Structure and Function. Environmental Science & Technology, 1999, 33, 1545-1551.	4.6	86
101	Exploring Factors Controlling the Variability of Pesticide Concentrations in the Willamette River Basin Using Tree-Based Models. Environmental Science & Technology, 1999, 33, 3332-3340.	4.6	34
102	A Size-Based Probabilistic Assessment of PCB Exposure from Lake Michigan Fish Consumption. Environmental Science & Technology, 1998, 32, 2325-2330.	4.6	11
103	Modeling phosphorus trapping in wetlands using nonparametric Bayesian Regression. Water Resources Research, 1998, 34, 1745-1754.	1.7	4
104	AN ILLUSTRATION OF MODEL STRUCTURE IDENTIFICATION. Journal of the American Water Resources Association, 1997, 33, 811-824.	1.0	11
105	Title is missing!. Environmental and Ecological Statistics, 1997, 4, 1-29.	1.9	22
106	Modeling phosphorus trapping in wetlands using generalized additive models. Water Resources Research, 1994, 30, 3105-3114.	1.7	22
107	Environmental and Ecological Statistics with R. , 0, , .		22