Craig A Stow

List of Publications by Year in descending order

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144 7,535 47 80 g-index

148 148 148 148 8169

times ranked

citing authors

docs citations

all docs

#	Article	IF	CITATIONS
1	Spatially referenced Bayesian state-space model of total phosphorus in western Lake Erie. Hydrology and Earth System Sciences, 2022, 26, 1993-2017.	4.9	1
2	A Tugâ€ofâ€War Within the Hydrologic Cycle of a Continental Freshwater Basin. Geophysical Research Letters, 2021, 48, e2020GL090374.	4.0	19
3	Seasonal overturn and stratification changes drive deep-water warming in one of Earth's largest lakes. Nature Communications, 2021, 12, 1688.	12.8	50
4	Lake Erie tributary nutrient trend evaluation: Normalizing concentrations and loads to reduce flow variability. Ecological Indicators, 2021, 125, 107601.	6.3	10
5	Chlorophyll a as an indicator of microcystin: Short-term forecasting and risk assessment in Lake Erie. Ecological Indicators, 2021, 130, 108055.	6.3	17
6	Recent Patterns in Lake Erie Phosphorus and Chlorophyll <i>a</i> Concentrations in Response to Changing Loads. Environmental Science & Environmental S	10.0	28
7	Nutrient loading and nonstationarity: The importance of differentiating the independent effects of tributary flow and nutrient concentration. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1396.	6.5	3
8	Panarchy: opportunities and challenges for ecosystem management. Frontiers in Ecology and the Environment, 2020, 18, 576-583.	4.0	32
9	Lake Erie phosphorus targets: An imperative for active adaptive management. Journal of Great Lakes Research, 2020, 46, 672-676.	1.9	19
10	Probabilistic forecast of microcystin toxin using satellite remote sensing, in situ observations and numerical modeling. Environmental Modelling and Software, 2020, 128, 104705.	4.5	16
11	Coastal Upwelling Influences Hypoxia Spatial Patterns and Nearshore Dynamics in Lake Erie. Journal of Geophysical Research: Oceans, 2019, 124, 6154-6175.	2.6	43
12	The implications of Simpson's paradox for cross-scale inference among lakes. Water Research, 2019, 163, 114855.	11.3	12
13	Small values in big data: The continuing need for appropriate metadata. Ecological Informatics, 2018, 45, 26-30.	5.2	16
14	Evidence for regional nitrogen stress on chlorophyll a in lakes across large landscape and climate gradients. Limnology and Oceanography, 2018, 63, S324.	3.1	18
15	Application of the Beer–Lambert Model to Attenuation of Photosynthetically Active Radiation in a Shallow, Eutrophic Lake. Water Resources Research, 2018, 54, 8952-8962.	4.2	16
16	A method to detect discontinuities in census data. Ecology and Evolution, 2018, 8, 9614-9623.	1.9	9
17	The distribution and role of functional abundance in crossâ€scale resilience. Ecology, 2018, 99, 2421-2432.	3.2	18
18	Effect of Hypoxia on Diet of Atlantic Bumpers in the Northern Gulf of Mexico. Transactions of the American Fisheries Society, 2018, 147, 740-748.	1.4	4

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19	Climate warming and changes in <i>Cyclotella sensu lato</i> in the Laurentian Great Lakes. Limnology and Oceanography, 2017, 62, 768-783.	3.1	70
20	Detecting spatial regimes in ecosystems. Ecology Letters, 2017, 20, 19-32.	6.4	51
21	Unexpected stasis in a changing world: Lake nutrient and chlorophyll trends since 1990. Global Change Biology, 2017, 23, 5455-5467.	9.5	65
22	Comparative analysis of discretization methods in Bayesian networks. Environmental Modelling and Software, 2017, 87, 64-71.	4.5	72
23	LAGOS-NE: a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of US lakes. GigaScience, 2017, 6, 1-22.	6.4	102
24	Macroscale patterns of synchrony identify complex relationships among spatial and temporal ecosystem drivers. Ecosphere, 2017, 8, e02024.	2.2	18
25	Biological invasions, ecological resilience and adaptive governance. Journal of Environmental Management, 2016, 183, 399-407.	7.8	54
26	The dual role of nitrogen supply in controlling the growth and toxicity of cyanobacterial blooms. Harmful Algae, 2016, 54, 87-97.	4.8	318
27	Probabilistically assessing the role of nutrient loading in harmful algal bloom formation in western Lake Erie. Journal of Great Lakes Research, 2016, 42, 1184-1192.	1.9	77
28	A cross-scale view of N and P limitation using a Bayesian hierarchical model. Limnology and Oceanography, 2016, 61, 2276-2285.	3.1	10
29	The statistical power to detect crossâ€scale interactions at macroscales. Ecosphere, 2016, 7, e01417.	2.2	11
30	Body size distributions signal a regime shift in a lake ecosystem. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160249.	2.6	42
31	A <scp>B</scp> ayesian hierarchical approach to model seasonal algal variability along an upstream to downstream river gradient. Water Resources Research, 2016, 52, 348-357.	4.2	21
32	Management applications of discontinuity theory. Journal of Applied Ecology, 2016, 53, 688-698.	4.0	59
33	Managing for resilience: an information theoryâ€based approach to assessing ecosystems. Journal of Applied Ecology, 2016, 53, 656-665.	4.0	35
34	An expandable web-based platform for visually analyzing basin-scale hydro-climate time series data. Environmental Modelling and Software, 2016, 78, 97-105.	4.5	17
35	Impacts of extreme 2013–2014 winter conditions on Lake Michigan's fall heat content, surface temperature, and evaporation. Geophysical Research Letters, 2015, 42, 3364-3370.	4.0	31
36	Building a multi-scaled geospatial temporal ecology database from disparate data sources: fostering open science and data reuse. GigaScience, 2015, 4, 28.	6.4	92

3

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37	Long-Term and Seasonal Trend Decomposition of Maumee River Nutrient Inputs to Western Lake Erie. Environmental Science & Envir	10.0	176
38	Mining web-based data to assess public response to environmental events. Environmental Pollution, 2015, 198, 97-99.	7.5	33
39	Implications of Stein's Paradox for Environmental Standard Compliance Assessment. Environmental Science & Environmental Sci	10.0	23
40	Unprecedented Seasonal Water Level Dynamics on One of the Earth's Largest Lakes. Bulletin of the American Meteorological Society, 2014, 95, 15-17.	3.3	25
41	Probabilistic prediction of cyanobacteria abundance in a Korean reservoir using a Bayesian Poisson model. Water Resources Research, 2014, 50, 2518-2532.	4.2	50
42	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.	1.9	8
43	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.	1.9	7
44	Discontinuities, crossâ€scale patterns, and the organization of ecosystems. Ecology, 2014, 95, 654-667.	3.2	109
45	Spatial and temporal patterns of macroscopic benthic primary producers in Saginaw Bay, Lake Huron. Journal of Great Lakes Research, 2014, 40, 53-63.	1.9	7
46	Macrosystems ecology: understanding ecological patterns and processes at continental scales. Frontiers in Ecology and the Environment, 2014, 12, 5-14.	4.0	285
47	Water Loss from the Great Lakes. Science, 2014, 343, 1084-1085.	12.6	91
48	Phosphorus targets and eutrophication objectives in Saginaw Bay: A 35year assessment. Journal of Great Lakes Research, 2014, 40, 4-10.	1.9	31
49	The news from Saginaw Bay: Where the mussels are strong, the walleye are good-looking, and all the phosphorus is above average. Journal of Great Lakes Research, 2014, 40, 1-3.	1.9	1
50	A Bayesian network incorporating observation error to predict phosphorus and chlorophyll a in Saginaw Bay. Environmental Modelling and Software, 2014, 57, 90-100.	4.5	11
51	Using a <scp>B</scp> ayesian hierarchical model to improve <scp>L</scp> ake <scp>E</scp> rie cyanobacteria bloom forecasts. Water Resources Research, 2014, 50, 7847-7860.	4.2	136
52	Regional variability among nonlinear chlorophyll—phosphorus relationships in lakes. Limnology and Oceanography, 2014, 59, 1691-1703.	3.1	78
53	Crossâ€scale interactions: quantifying multiâ€scaled cause–effect relationships in macrosystems. Frontiers in Ecology and the Environment, 2014, 12, 65-73.	4.0	164
54	Long-Term Citizen-Collected Data Reveal Geographical Patterns and Temporal Trends in Lake Water Clarity. PLoS ONE, 2014, 9, e95769.	2.5	74

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55	Effects of hypoxia on habitat quality of pelagic planktivorous fishes in the northern Gulf of Mexico. Marine Ecology - Progress Series, 2014, 505, 209-226.	1.9	20
56	Quantifying parameter uncertainty and assessing the skill of exponential dispersion rainfall simulation models. International Journal of Climatology, 2013, 33, 746-757.	3.5	8
57	Coasts, water levels, and climate change: A Great Lakes perspective. Climatic Change, 2013, 120, 697-711.	3.6	131
58	Trophic Shift, Not Collapse. Environmental Science & E	10.0	17
59	Differentiating Enterococcus concentration spatial, temporal, and analytical variability in recreational waters. Water Research, 2013, 47, 2141-2152.	11.3	9
60	Impacts of dreissenid mussel invasions on chlorophyll and total phosphorus in 25 lakes in the USA. Freshwater Biology, 2013, 58, 192-206.	2.4	34
61	Are Chlorophyll <i>a</i> –Total Phosphorus Correlations Useful for Inference and Prediction?. Environmental Science & Technology, 2013, 47, 3768-3773.	10.0	38
62	Seasonal zooplankton dynamics in Lake Michigan: Disentangling impacts of resource limitation, ecosystem engineering, and predation during a critical ecosystem transition. Journal of Great Lakes Research, 2012, 38, 336-352.	1.9	95
63	Predictions and retrodictions of the hierarchical representation of habitat in heterogeneous environments. Ecological Modelling, 2012, 245, 199-207.	2.5	4
64	Predicting the effects of freshwater diversions on juvenile brown shrimp growth and production: a Bayesian-based approach. Marine Ecology - Progress Series, 2012, 444, 155-173.	1.9	21
65	Do Invasive Mussels Restrict Offshore Phosphorus Transport in Lake Huron?. Environmental Science & Env	10.0	40
66	An appraisal of the Great Lakes advanced hydrologic prediction system. Journal of Great Lakes Research, 2011, , .	1.9	41
67	Predicting the Hypoxic-Volume in Chesapeake Bay with the Streeter-Phelps Model: A Bayesian Approach1. Journal of the American Water Resources Association, 2011, 47, 1348-1363.	2.4	12
68	Nitrous Oxide Emissions from the Gulf of Mexico Hypoxic Zone. Environmental Science & Emp; Technology, 2010, 44, 1617-1623.	10.0	26
69	Lake Superior water level fluctuation and climatic factors: A dynamic linear model analysis. Journal of Great Lakes Research, 2010, 36, 172-178.	1.9	14
70	Phosphorus load estimation in the Saginaw River, MI using a Bayesian hierarchical/multilevel model. Water Research, 2010, 44, 3270-3282.	11.3	23
71	Using Landscape Limnology to Classify Freshwater Ecosystems for Multi-ecosystem Management and Conservation. BioScience, 2010, 60, 440-454.	4.9	106
72	Bayesian Hierarchical/Multilevel Models for Inference and Prediction Using Cross-System Lake Data., 2009, , 111-136.		10

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73	Skill assessment for coupled biological/physical models of marine systems. Journal of Marine Systems, 2009, 76, 4-15.	2.1	365
74	Modeling hypoxia in the Chesapeake Bay: Ensemble estimation using a Bayesian hierarchical model. Journal of Marine Systems, 2009, 76, 244-250.	2.1	27
75	Nutrient criteria for lakes, ponds, and reservoirs: A Bayesian TREED model approach. Ecological Modelling, 2009, 220, 630-639.	2.5	32
76	BAYESIAN MULTILEVEL DISCRETE INTERVAL HAZARD ANALYSIS TO PREDICT DICHLORODIPHENYLDICHLOROETHYLENE MORTALITY IN HYALELLA AZTECA BASED ON BODY RESIDUES. Environmental Toxicology and Chemistry, 2009, 28, 2458.	4.3	2
77	Lake Level Coherence Supports Common Driver. Eos, 2008, 89, 389-390.	0.1	12
78	Recent Water Level Declines in the Lake Michiganâ^'Huron System. Environmental Science & Emp; Technology, 2008, 42, 367-373.	10.0	92
79	Response to Comment on "Estimating Ecological Thresholds for Phosphorus in the Everglades― Environmental Science & Technology, 2008, 42, 6772-6773.	10.0	3
80	Estimating Ecological Thresholds for Phosphorus in the Everglades. Environmental Science & Emp; Technology, 2007, 41, 8084-8091.	10.0	87
81	Evaluating Discontinuities in Complex Systems: Toward Quantitative Measures of Resilience. Ecology and Society, 2007, 12, .	2.3	38
82	Approaches to Evaluate Water Quality Model Parameter Uncertainty for Adaptive TMDL Implementation ¹ . Journal of the American Water Resources Association, 2007, 43, 1499-1507.	2.4	40
83	Eutrophication risk assessment using Bayesian calibration of process-based models: Application to a mesotrophic lake. Ecological Modelling, 2007, 208, 215-229.	2.5	126
84	Delineation of the role of nutrient dynamics and hydrologic forcing on phytoplankton patterns along a freshwater–marine continuum. Ecological Modelling, 2007, 208, 230-246.	2.5	54
85	Application of Bayesian structural equation modeling for examining phytoplankton dynamics in the Neuse River Estuary (North Carolina, USA). Estuarine, Coastal and Shelf Science, 2007, 72, 63-80.	2.1	46
86	Evaluation of the Current State of Mechanistic Aquatic Biogeochemical Modeling:Â Citation Analysis and Future Perspectives. Environmental Science & En	10.0	70
87	Patterns in body mass distributions: sifting among alternative hypotheses. Ecology Letters, 2006, 9, 630-643.	6.4	149
88	Assessing the Effects of Nutrient Management in an Estuary Experiencing Climatic Change: The Neuse River Estuary, North Carolina. Environmental Management, 2006, 37, 422-436.	2.7	52
89	Exploring ecological patterns with structural equation modeling and Bayesian analysis. Ecological Modelling, 2006, 192, 385-409.	2.5	143
90	A BAYESIAN APPROACH TO RETRANSFORMATION BIAS IN TRANSFORMED REGRESSION. Ecology, 2006, 87, 1472-1477.	3.2	41

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91	Firm size diversity, functional richness, and resilience. Environment and Development Economics, 2006, 11, 533-551.	1.5	51
92	PATTERNS OF WATERSHED URBANIZATION AND IMPACTS ON WATER QUALITY. Journal of the American Water Resources Association, 2005, 41, 693-708.	2.4	98
93	Declining Threshold for Hypoxia in the Gulf of Mexico. Environmental Science & Emp; Technology, 2005, 39, 716-723.	10.0	34
94	A Predictive Approach to Nutrient Criteria. Environmental Science & Environmen	10.0	65
95	N2O Emissions from Streams in the Neuse River Watershed, North Carolina. Environmental Science & Envir	10.0	61
96	Confounding Effect of Flow on Estuarine Response to Nitrogen Loading. Journal of Environmental Engineering, ASCE, 2004, 130, 605-614.	1.4	63
97	A Bayesian network of eutrophication models for synthesis, prediction, and uncertainty analysis. Ecological Modelling, 2004, 173, 219-239.	2.5	392
98	Will Lake Michigan Lake Trout Meet the Great Lakes Strategy 2002 PCB Reduction Goal?. Environmental Science & Environmental Sc	10.0	30
99	Models in Ecosystem Science. Based on a conference held in Millbrook, New York, May 2001. Edited by CharlesÂD Canham, JonathanÂJ Cole, and , WilliamÂK Lauenroth. Princeton (New Jersey): Princeton University Press. \$79.50 (hardcover); \$35.00 (paper). xvii + 476 p; ill.; index. ISBN: 0–691–09288–5 (hc); 0–691–09289–3 (pb). 2003 Ouarterly Review of Biology. 2004. 79, 330-331.	0.1	0
100	Bayesian methods for regional-scale eutrophication models. Water Research, 2004, 38, 2764-2774.	11.3	26
101	On Monte Carlo methods for Bayesian inference. Ecological Modelling, 2003, 159, 269-277.	2.5	144
102	Comparison of Estuarine Water Quality Models for Total Maximum Daily Load Development in Neuse River Estuary. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 307-314.	2.6	103
103	Assessing TMDL Effectiveness Using Flow-Adjusted Concentrations:Â A Case Study of the Neuse River, North Carolina. Environmental Science & Environment	10.0	38
104	Integrated Approach to Total Maximum Daily Load Development for Neuse River Estuary using Bayesian Probability Network Model (Neu-BERN). Journal of Water Resources Planning and Management - ASCE, 2003, 129, 271-282.	2.6	82
105	ADAPTIVE IMPLEMENTATION OF TMDLS USING BAYESIAN ANALYSIS. Proceedings of the Water Environment Federation, 2002, 2002, 698-709.	0.0	1
106	UNCERTAINTY BETWEEN THE CRITERION AND THE DESIGNATED USE: IMPLICATIONS FOR STANDARDS AND TMDL MARGIN OF SAFETY. Proceedings of the Water Environment Federation, 2002, 2002, 1223-1228.	0.0	1
107	Predicting the Frequency of Water Quality Standard Violations:  A Probabilistic Approach for TMDL Development. Environmental Science & Environmenta	10.0	116
108	A Bayesian hierarchical model to predict benthic oxygen demand from organic matter loading in estuaries and coastal zones. Ecological Modelling, 2001, 143, 165-181.	2.5	138

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109	Long-term changes in watershed nutrient inputs and riverine exports in the Neuse River, North Carolina. Water Research, 2001, 35, 1489-1499.	11.3	136
110	PCB Congeners in Lake Michigan Coho (Oncorhynchus kisutch) and Chinook (Oncorhynchus) Tj ETQq0 0 0 rgBT	/Overlock 10.0	19Jf 50 702
111	Modelling Oxygen Dynamics in an Intermittently Stratified Estuary: Estimation of Process Rates Using Field Data. Estuarine, Coastal and Shelf Science, 2001, 52, 33-49.	2.1	107
112	Univariate Bayesian nonparametric binary regression with application in environmental management. Environmental and Ecological Statistics, 2000, 7, 77-91.	3.5	4
113	Depuration of PCBs in the Lake Michigan Ecosystem. Ecosystems, 2000, 3, 332-343.	3.4	5
114	Bayesian parameter estimation in a mixed-order model of BOD decay. Water Research, 2000, 34, 1830-1836.	11.3	54
115	Seasonal and Long-Term Nutrient Trend Decomposition along a Spatial Gradient in the Neuse River Watershed. Environmental Science & Environmental Scien	10.0	70
116	Rates of decrease of polychlorinated biphenyl concentrations in five species of Lake Michigan salmonids. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 53-59.	1.4	10
117	A Mixed-Order Model to Assess Contaminant Declines. Environmental Monitoring and Assessment, 1999, 55, 435-444.	2.7	11
118	Assessing the Relationship Between Pfiesteria and Estuarine Fishkills. Ecosystems, 1999, 2, 237-241.	3.4	12
119	Whole-fish versus filet polychlorinated-biphenyl concentrations: An analysis using classification and regression tree models. Environmental Toxicology and Chemistry, 1999, 18, 1817-1823.	4.3	43
120	Sources of variability in microcontaminant data for Lake Michigan salmonids: statistical models and implications for trend detection. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 71-85.	1.4	16
121	WHOLE-FISH VERSUS FILET POLYCHLORINATED-BIPHENYL CONCENTRATIONS: AN ANALYSIS USING CLASSIFICATION AND REGRESSION TREE MODELS. Environmental Toxicology and Chemistry, 1999, 18, 1817.	4.3	2
122	Assessing the Relationship Between Pfiesteria and Estuarine Fishkills. Ecosystems, 1999, 2, 237.	3.4	0
123	Ecological and economic analysis of lake eutrophication by nonpoint pollution. Austral Ecology, 1998, 23, 68-79.	1.5	76
124	Current Concentrations of PCBs in Lake Michigan Invertebrates, a Prediction Test, and Corroboration of Hindcast Concentrations. Journal of Great Lakes Research, 1998, 24, 808-821.	1.9	7
125	Phosphorus loading reductions needed to control blue-green algal blooms in Lake Mendota. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 1169-1178.	1.4	133
126	A Size-Based Probabilistic Assessment of PCB Exposure from Lake Michigan Fish Consumption. Environmental Science & Environment	10.0	11

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127	LONG-TERM ENVIRONMENTAL MONITORING: SOME PERSPECTIVES FROM LAKES. , 1998, 8, 269-276.		35
128	FORECASTING PCB CONCENTRATIONS IN LAKE MICHIGAN SALMONIDS: A DYNAMIC LINEAR MODEL APPROACH., 1998, 8, 659-668.		42
129	An examination of the PCB: lipid relationship among individual fish. Canadian Journal of Fisheries and Aquatic Sciences, 1997, 54, 1031-1038.	1.4	47
130	A Bayesian observation error model to predict cyanobacterial biovolume from spring total phosphorus in Lake Mendota, Wisconsin. Canadian Journal of Fisheries and Aquatic Sciences, 1997, 54, 464-473.	1.4	26
131	MODELING CHANGES IN GROWTH AND DIET ON POLYCHLORINATED BIPHENYL BIOACCUMULATION INCOREGONUS HOYI., 1997, 7, 981-990.		11
132	An e×amination of the PCB: lipid relationship among individual fish. Canadian Journal of Fisheries and Aquatic Sciences, 1997, 54, 1031-1038.	1.4	40
133	Estimator Bias in a Lake Phosphorus Model with Observation Error. Water Resources Research, 1996, 32, 165-170.	4.2	6
134	Science and Limnology Ecology, 1996, 77, 1646.	3.2	0
135	Evidence That PCBs Are Approaching Stable Concentrations In Lake Michigan Fishes. , 1995, 5, 248-260.		53
136	Resource vs. Ratio-Dependent Consumer-Resource Models: A Bayesian Perspective. Ecology, 1995, 76, 1986-1990.	3.2	13
137	Great Lakes Herring Gull Egg PCB Concentrations Indicate Approximate Steady-State Conditions. Environmental Science & Environm	10.0	31
138	Factors Associated with PCB Concentrations in Lake Michigan Fish. Environmental Science & Eamp; Technology, 1995, 29, 522-527.	10.0	44
139	Fisheries Management to Reduce Contaminant Consumption. BioScience, 1995, 45, 752-758.	4.9	34
140	PCB Concentration Trends in Lake Michigan Coho (<i>Oncorhynchus kisutch</i>) and Chinook Salmon (<i>O</i> . <i>tshawytscha</i>). Canadian Journal of Fisheries and Aquatic Sciences, 1994, 51, 1384-1390.	1.4	27
141	Fitting Predator-Prey Models to Time Series with Observation Errors. Ecology, 1994, 75, 1254-1264.	3.2	61
142	PCB Accumulation in Lake Michigan Coho and Chinook Salmon: Individual-Based Models Using Allometric Relationships. Environmental Science & Environment	10.0	38
143	Monitoring Design and Data Analysis for Trend Detection. Lake and Reservoir Management, 1990, 6, 49-60.	1.3	16
144	Nutrient fluxes in a eutrophic coastal Louisiana freshwater lake. Environmental Management, 1985, 9, 243-251.	2.7	14