Patrick L Brezonik

List of Publications by Year
in descending order

83	5,597	76294 40	76872 74
papers	citations	h-index	g-index

84	84	84	4581
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrate-Induced Photolysis in Natural Waters:Â Controls on Concentrations of Hydroxyl Radical Photo-Intermediates by Natural Scavenging Agents. Environmental Science & Technology, 1998, 32, 3004-3010.	4.6	414
2	Analysis and predictive models of stormwater runoff volumes, loads, and pollutant concentrations from watersheds in the Twin Cities metropolitan area, Minnesota, USA. Water Research, 2002, 36, 1743-1757.	5.3	331
3	A 20-year Landsat water clarity census of Minnesota's 10,000 lakes. Remote Sensing of Environment, 2008, 112, 4086-4097.	4.6	328
4	A CARLSON-TYPE TROPHIC STATE INDEX FOR NITROGEN IN FLORIDA LAKES. Journal of the American Water Resources Association, 1981, 17, 713-715.	1.0	293
5	A procedure for regional lake water clarity assessment using Landsat multispectral data. Remote Sensing of Environment, 2002, 82, 38-47.	4.6	289
6	Oxygen consumption in humic-colored waters by a photochemical ferrous-ferric catalytic cycle. Environmental Science & Technology, 1981, 15, 1089-1095.	4.6	245
7	Landsat-based Remote Sensing of Lake Water Quality Characteristics, Including Chlorophyll and Colored Dissolved Organic Matter (CDOM). Lake and Reservoir Management, 2005, 21, 373-382.	0.4	234
8	Factors affecting the measurement of CDOM by remote sensing of optically complex inland waters. Remote Sensing of Environment, 2015, 157, 199-215.	4.6	190
9	Airborne hyperspectral remote sensing to assess spatial distribution of water quality characteristics in large rivers: The Mississippi River and its tributaries in Minnesota. Remote Sensing of Environment, 2013, 130, 254-265.	4.6	184
10	Comparison of Landsat 8 and Landsat 7 for regional measurements of CDOM and water clarity in lakes. Remote Sensing of Environment, 2016, 185, 119-128.	4.6	150
11	Application of Landsat imagery to regional-scale assessments of lake clarity. Water Research, 2002, 36, 4330-4340.	5.3	147
12	Measurement and significance of adenosine triphosphate in activated sludge. Environmental Science & Technology, 1970, 4, 569-575.	4.6	123
13	Binding Constants of Divalent Mercury (Hg2+) in Soil Humic Acids and Soil Organic Matter. Environmental Science & Technology, 2006, 40, 844-849.	4.6	114
14	Evaluation of medium to low resolution satellite imagery for regional lake water quality assessments. Water Resources Research, 2011, 47, .	1.7	88
15	Isolation of aquatic humus with diethylaminoethylcellulose. Analytical Chemistry, 1983, 55, 410-411.	3.2	87
16	Dentrification as a nitrogen sink in Lake Mendota, Wisconsin. Environmental Science & Technology, 1968, 2, 120-125.	4.6	78
17	SEEPAGE FLOW INTO FLORIDA LAKES. Journal of the American Water Resources Association, 1980, 16, 635-641.	1.0	75
18	Influence of Chlorophyll and Colored Dissolved Organic Matter (CDOM) on Lake Reflectance Spectra: Implications for Measuring Lake Properties by Remote Sensing. Lake and Reservoir Management, 2006, 22, 179-190.	0.4	70

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19	Chemistry of precipitation at Gainesville, Florida. Environmental Science & Technology, 1980, 14, 843-849.	4.6	68
20	Relations between lake trophic state and nitrogen and phosphorus loading rates. Environmental Science & Technology, 1972, 6, 719-725.	4.6	65
21	Evaluation of the copper anodic stripping voltammetry complexometric titration for complexing capacities and conditional stability constants. Analytical Chemistry, 1981, 53, 1986-1989.	3.2	65
22	Sediment and Porewater Profiles and Fluxes of Mercury and Methylmercury in a Small Seepage Lake in Northern Minnesota. Environmental Science & Technology, 2004, 38, 6610-6617.	4.6	62
23	Modern and historic accumulation rates of phosphorus in Lake Okeechobee, Florida. Journal of Paleolimnology, 1998, 20, 31-46.	0.8	60
24	Comparison of denitrification rate estimation techniques in a large, shallow lake. Water Research, 1983, 17, 631-640.	5.3	59
25	NITROGEN FIXATION IN AN ESTUARINE ENVIRONMENT: THE WACCASASSA ON THE FLORIDA GULF COAST1. Limnology and Oceanography, 1971, 16, 701-710.	1.6	58
26	POINT-NONPOINT SOURCE WATER QUALITY TRADING: A CASE STUDY IN THE MINNESOTA RIVER BASIN. Journal of the American Water Resources Association, 2005, 41, 645-657.	1.0	58
27	NITROGEN FIXATION RY BACTERIA IN LAKE MIZE, FLORIDA, AND IN SOME LACUSTRINE SEDIMENTS1. Limnology and Oceanography, 1971, 16, 720-731.	1.6	57
28	Dynamic model of inâ€lake alkalinity generation. Water Resources Research, 1988, 24, 65-74.	1.7	57
29	Effect of Organic Color and Turbidity of Secchi Disk Transparency. Journal of the Fisheries Research Board of Canada, 1978, 35, 1410-1416.	1.0	56
30	Planktonic Communities in Florida Softwater Lakes of Varying pH. Canadian Journal of Fisheries and Aquatic Sciences, 1984, 41, 46-56.	0.7	55
31	High-performance size exclusion chromatography of aquatic humic substances. Journal of Chromatography A, 1983, 259, 499-503.	1.8	53
32	Atmospheric Mercury Deposition to Lakes and Watersheds. Advances in Chemistry Series, 1994, , 33-66.	0.6	50
33	Color, chlorophyll a, and suspended solids effects on Secchi depth in lakes: implications for trophic state assessment. Ecological Applications, 2019, 29, e01871.	1.8	50
34	LIMNOLOGICAL CHARACTERISTICS OF NORTH AND CENTRAL FLORIDA LAKES1. Limnology and Oceanography, 1972, 17, 97-110.	1.6	48
35	Title is missing!. Biogeochemistry, 1998, 40, 147-162.	1.7	45
36	A method for comparative evaluation of whole-lake and inflow alum treatment. Water Research, 2007, 41, 1215-1224.	5.3	45

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37	Application of ATP to plankton biomass and bioassay studies. Water Research, 1975, 9, 155-162.	5.3	44
38	Multiple stresses from a single agent: Diverse responses to the experimental acidification of Little Rock Lake, Wisconsin. Limnology and Oceanography, 1999, 44, 784-794.	1.6	44
39	Winter and Spring pH Depressions in Northern Wisconsin Lakes Caused by Increases in pCO₂. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, 1082-1088.	0.7	43
40	Limitations on using CDOM as a proxy for DOC in temperate lakes. Water Research, 2018, 144, 719-727.	5.3	43
41	Phosphorus sorption by sediments from a soft-water seepage lake. 2. Effects of pH and sediment composition. Environmental Science & Technology, 1991, 25, 403-409.	4.6	42
42	Seasonal Patterns of Chlorophyllaand Secchi Disk Transparency in Lakes of East-Central Minnesota: Implications for Design of Ground- and Satellite-Based Monitoring Programs. Lake and Reservoir Management, 2001, 17, 299-314.	0.4	40
43	Phosphorus sorption by sediments from a soft-water seepage lake. 1. An evaluation of kinetic and equilibrium models. Environmental Science & Technology, 1991, 25, 395-403.	4.6	39
44	Estimating chlorophyll concentration in Lake Malawi from MODIS satellite imagery. Physics and Chemistry of the Earth, 2009, 34, 755-760.	1.2	39
45	Prediction of Photochemically Produced Reactive Intermediates in Surface Waters via Satellite Remote Sensing. Environmental Science & Technology, 2020, 54, 6671-6681.	4.6	38
46	Mercury inputs and outputs at a small lake in northern Minnesota. Biogeochemistry, 2007, 84, 265-284.	1.7	37
47	Effects of alum treatment on water quality and sediment in the Minneapolis Chain of Lakes, Minnesota, USA. Lake and Reservoir Management, 2011, 27, 220-228.	0.4	37
48	Geospatial and Temporal Analysis of a 20â€Year Record of Landsatâ€Based Water Clarity in <scp>M</scp>innesota's 10,000 Lakes. Journal of the American Water Resources Association, 2014, 50, 748-761.	1.0	36
49	Estimating the surface temperature of Lake Malawi using AVHRR and MODIS satellite imagery. Physics and Chemistry of the Earth, 2009, 34, 749-754.	1.2	34
50	Regional measurements and spatial/temporal analysis of CDOM in 10,000+ optically variable Minnesota lakes using Landsat 8 imagery. Science of the Total Environment, 2020, 724, 138141.	3.9	34
51	Euthrophication Analysis: A Multivariate Approach. ASCE Sanitary Engineering Division Journal, 1972, 98, 37-57.	0.1	34
52	Sediment pore-water dynamics of Little Rock Lake, Wisconsin: Geochemical processes and seasonal and spatial variability. Limnology and Oceanography, 1994, 39, 1155-1171.	1.6	33
53	Mercury dynamics in a small Northern Minnesota lake: water to air exchange and photoreactions of mercury. Marine Chemistry, 2004, 90, 137-149.	0.9	33
54	Sources and Sinks of Ions in a Soft Water, Acidic Lake in Florida. Water Resources Research, 1986, 22, 715-722.	1.7	29

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55	Water Chemistry: Fifty Years of Change and Progress. Environmental Science & Technology, 2012, 46, 5650-5657.	4.6	29
56	Nutrient Removal in a Cold-Region Wastewater Stabilization Pond: Importance of Ammonia Volatilization. Journal of Environmental Engineering, ASCE, 2006, 132, 451-459.	0.7	28
57	Climate confounds detection of chemical trends related to acid deposition in upper Midwest lakes in the USA. Water, Air, and Soil Pollution, 1995, 85, 1575-1580.	1.1	27
58	Laboratory evaluation of kinetic parameters for lake sediment denitrification models. Ecological Modelling, 1984, 21, 277-286.	1.2	26
59	Activated Sludge ATP: Effects of Environmental Stress. ASCE Sanitary Engineering Division Journal, 1971, 97, 813-824.	0.1	26
60	CHEMICAL COMPOSITION OF SOFTWATER FLORIDA LAKES AND THEIR SENSITIVITY TO ACID PRECIPITATION. Journal of the American Water Resources Association, 1984, 20, 75-86.	1.0	24
61	Changes in the sultan marshes ecosystem (Turkey) in satellite images 1980â€“2003. Wetlands, 2008, 28, 852-865.	0.7	24
62	Quantity-activity relationship of denitrifying bacteria and environmental scaling in streams of a forested watershed. Journal of Geophysical Research, 2006, 111, .	3.3	21
63	Remote Sensing for Regional Lake Water Quality Assessment: Capabilities and Limitations of Current and Upcoming Satellite Systems. Handbook of Environmental Chemistry, 2015, , 111-140.	0.2	21
64	Effects of acidification on minor and trace metal chemistry in little rock lake, wisconsin. Environmental Toxicology and Chemistry, 1990, 9, 871-885.	2.2	20
65	Treatment of Lake Inflows with Alum for Phosphorus Removal. Lake and Reservoir Management, 2005, 21, 1-9.	0.4	19
66	Recent sulfur enrichment in the sediments of Little Rock Lake. Wisconsin. Limnology and Oceanography, 1992, 37, 689-702.	1.6	16
67	Influence of food, aquatic humus, and alkalinity on methylmercury uptake byDaphnia magna. Environmental Toxicology and Chemistry, 1999, 18, 560-566.	2.2	16
68	TROPHIC STATE INDICES: RATIONALE FOR MULTIVARIATE APPROACHES. Lake and Reservoir Management, 1984, 1, 441-445.	0.4	15
69	Agricultural and environmental changes after irrigation management transfer in the Develi Basin, Turkey. Irrigation and Drainage Systems, 2008, 22, 47-66.	0.5	15
70	Assessment of the chlorine demand and disinfection byproduct formation potential of surface waters via satellite remote sensing. Water Research, 2019, 165, 115001.	5.3	15
71	Mechanisms of Alkalinity Generation in Acid-Sensitive Soft Water Lakes. Advances in Chemistry Series, 1987, , 229-260.	0.6	14
72	Hydrologic sustainability of the Sultan Marshes in Turkey. Water International, 2007, 32, 856-876.	0.4	14

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73	Iron influence on dissolved color in lakes of the Upper Great Lakes States. PLoS ONE, 2019, 14, e0211979.	1.1	14
74	Application of nutrient loading models to the analysis of trophic conditions in Lake Okeechobee, Florida. Environmental Management, 1984, 8, 109-120.	1.2	13
75	Extending satellite remote sensing to local scales: land and water resource monitoring using high-resolution imagery. Remote Sensing of Environment, 2003, 88, 144-144.	4.6	13
76	Temporal trends in low alkalinity lakes of the Upper Midwest (1983?1989). Water, Air, and Soil Pollution, 1993, 67, 397-414.	1.1	12
77	Title is missing!. Biogeochemistry, 2003, 62, 119-143.	1.7	9
78	Evaluation of the Potential Adverse Effects of Lake Inflow Treatment with Alum. Lake and Reservoir Management, 2005, 21, 77-87.	0.4	9
79	Effects of Acidification on Chemical Composition and Chemical Cycles in a Seepage Lake. Advances in Chemistry Series, 1994, , 121-159.	0.6	8
80	By Richard A. Osgood "A Carlson-Type Trophic State Index for Nitrogen in Florida Lakes"2. Journal of the American Water Resources Association, 1982, 18, 543-544.	1.0	5
81	ANALYSIS OF WIND- AND SHIP-INDUCED SEDIMENT RESUSPENSION IN DULUTH-SUPERIOR HARBOR. Journal of the American Water Resources Association, 1994, 30, 1043-1053.	1.0	5
82	<scp>Longâ€term</scp>water color and flow trends in the Mississippi River Headwaters, 1944â€“2010. Limnology and Oceanography, 2021, 66, 3552-3567.	1.6	5
83	COMPARISON OF SULFATE REDUCTION RATES IN LABORATORY MICROCOSMS, FIELD MESOCOSMS, ANDIN SITUAT LITTLE ROCK LAKE, WISCONSIN. Lake and Reservoir Management, 1986, 2, 309-312.	0.4	4