Patrick L Brezonik

List of Publications by Year
in descending order

83 papers	5,597 citations	76196 40 h-index	76769 74 g-index
84 all docs	84 docs citations	84 times ranked	4581 citing authors

#	Article	IF	Citations
1	<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
2	Prediction of Photochemically Produced Reactive Intermediates in Surface Waters via Satellite Remote Sensing. Environmental Science & Technology, 2020, 54, 6671-6681.	4.6	38
3	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
4	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
5	Iron influence on dissolved color in lakes of the Upper Great Lakes States. PLoS ONE, 2019, 14, e0211979.	1.1	14
6	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
7	Limitations on using CDOM as a proxy for DOC in temperate lakes. Water Research, 2018, 144, 719-727.	5.3	43
8	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
9	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
10	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
11	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
12	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
13	Water Chemistry: Fifty Years of Change and Progress. Environmental Science & Technology, 2012, 46, 5650-5657.	4.6	29
14	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
15	Evaluation of medium to low resolution satellite imagery for regional lake water quality assessments. Water Resources Research, 2011, 47, .	1.7	88
16	Estimating chlorophyll concentration in Lake Malawi from MODIS satellite imagery. Physics and Chemistry of the Earth, 2009, 34, 755-760.	1.2	39
17	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
18	A 20-year Landsat water clarity census of Minnesota's 10,000 lakes. Remote Sensing of Environment, 2008, 112, 4086-4097.	4.6	328

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19	Agricultural and environmental changes after irrigation management transfer in the Develi Basin, Turkey. Irrigation and Drainage Systems, 2008, 22, 47-66.	0.5	15
20	Changes in the sultan marshes ecosystem (Turkey) in satellite images 1980â€“2003. Wetlands, 2008, 28, 852-865.	0.7	24
21	A method for comparative evaluation of whole-lake and inflow alum treatment. Water Research, 2007, 41, 1215-1224.	5.3	45
22	Hydrologic sustainability of the Sultan Marshes in Turkey. Water International, 2007, 32, 856-876.	0.4	14
23	Mercury inputs and outputs at a small lake in northern Minnesota. Biogeochemistry, 2007, 84, 265-284.	1.7	37
24	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
25	Quantity-activity relationship of denitrifying bacteria and environmental scaling in streams of a forested watershed. Journal of Geophysical Research, 2006, 111, .	3.3	21
26	Binding Constants of Divalent Mercury (Hg2+) in Soil Humic Acids and Soil Organic Matter. Environmental Science & Technology, 2006, 40, 844-849.	4.6	114
27	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
28	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
29	Treatment of Lake Inflows with Alum for Phosphorus Removal. Lake and Reservoir Management, 2005, 21, 1-9.	0.4	19
30	Evaluation of the Potential Adverse Effects of Lake Inflow Treatment with Alum. Lake and Reservoir Management, 2005, 21, 77-87.	0.4	9
31	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
32	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
33	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
34	Title is missing!. Biogeochemistry, 2003, 62, 119-143.	1.7	9
35	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
36	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

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37	Application of Landsat imagery to regional-scale assessments of lake clarity. Water Research, 2002, 36, 4330-4340.	5.3	147
38	A procedure for regional lake water clarity assessment using Landsat multispectral data. Remote Sensing of Environment, 2002, 82, 38-47.	4.6	289
39	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
40	Influence of food, aquatic humus, and alkalinity on methylmercury uptake byDaphnia magna. Environmental Toxicology and Chemistry, 1999, 18, 560-566.	2.2	16
41	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
42	Title is missing!. Biogeochemistry, 1998, 40, 147-162.	1.7	45
43	Modern and historic accumulation rates of phosphorus in Lake Okeechobee, Florida. Journal of Paleolimnology, 1998, 20, 31-46.	0.8	60
44	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
45	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
46	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
47	Effects of Acidification on Chemical Composition and Chemical Cycles in a Seepage Lake. Advances in Chemistry Series, 1994, , 121-159.	0.6	8
48	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
49	Atmospheric Mercury Deposition to Lakes and Watersheds. Advances in Chemistry Series, 1994, , 33-66.	0.6	50
50	Temporal trends in low alkalinity lakes of the Upper Midwest (1983?1989). Water, Air, and Soil Pollution, 1993, 67, 397-414.	1.1	12
51	Recent sulfur enrichment in the sediments of Little Rock Lake. Wisconsin. Limnology and Oceanography, 1992, 37, 689-702.	1.6	16
52	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
53	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
54	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

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55	Dynamic model of inâ€lake alkalinity generation. Water Resources Research, 1988, 24, 65-74.	1.7	57
56	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
57	Mechanisms of Alkalinity Generation in Acid-Sensitive Soft Water Lakes. Advances in Chemistry Series, 1987, , 229-260.	0.6	14
58	Sources and Sinks of Ions in a Soft Water, Acidic Lake in Florida. Water Resources Research, 1986, 22, 715-722.	1.7	29
59	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
60	TROPHIC STATE INDICES: RATIONALE FOR MULTIVARIATE APPROACHES. Lake and Reservoir Management, 1984, 1, 441-445.	0.4	15
61	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
62	Application of nutrient loading models to the analysis of trophic conditions in Lake Okeechobee, Florida. Environmental Management, 1984, 8, 109-120.	1.2	13
63	Laboratory evaluation of kinetic parameters for lake sediment denitrification models. Ecological Modelling, 1984, 21, 277-286.	1.2	26
64	Planktonic Communities in Florida Softwater Lakes of Varying pH. Canadian Journal of Fisheries and Aquatic Sciences, 1984, 41, 46-56.	0.7	55
65	High-performance size exclusion chromatography of aquatic humic substances. Journal of Chromatography A, 1983, 259, 499-503.	1.8	53
66	Comparison of denitrification rate estimation techniques in a large, shallow lake. Water Research, 1983, 17, 631-640.	5.3	59
67	Isolation of aquatic humus with diethylaminoethylcellulose. Analytical Chemistry, 1983, 55, 410-411.	3.2	87
68	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
69	Oxygen consumption in humic-colored waters by a photochemical ferrous-ferric catalytic cycle. Environmental Science & Technology, 1981, 15, 1089-1095.	4.6	245
70	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
71	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
72	SEEPAGE FLOW INTO FLORIDA LAKES. Journal of the American Water Resources Association, 1980, 16, 635-641.	1.0	75

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73	Chemistry of precipitation at Gainesville, Florida. Environmental Science & Technology, 1980, 14, 843-849.	4.6	68
74	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
75	Application of ATP to plankton biomass and bioassay studies. Water Research, 1975, 9, 155-162.	5.3	44
76	LIMNOLOGICAL CHARACTERISTICS OF NORTH AND CENTRAL FLORIDA LAKES1. Limnology and Oceanography, 1972, 17, 97-110.	1.6	48
77	Relations between lake trophic state and nitrogen and phosphorus loading rates. Environmental Science & Technology, 1972, 6, 719-725.	4.6	65
78	Euthrophication Analysis: A Multivariate Approach. ASCE Sanitary Engineering Division Journal, 1972, 98, 37-57.	0.1	34
79	NITROGEN FIXATION IN AN ESTUARINE ENVIRONMENT: THE WACCASASSA ON THE FLORIDA GULF COAST1. Limnology and Oceanography, 1971, 16, 701-710.	1.6	58
80	NITROGEN FIXATION RY BACTERIA IN LAKE MIZE, FLORIDA, AND IN SOME LACUSTRINE SEDIMENTS1. Limnology and Oceanography, 1971, 16, 720-731.	1.6	57
81	Activated Sludge ATP: Effects of Environmental Stress. ASCE Sanitary Engineering Division Journal, 1971, 97, 813-824.	0.1	26
82	Measurement and significance of adenosine triphosphate in activated sludge. Environmental Science & Technology, 1970, 4, 569-575.	4.6	123
83	Dentrification as a nitrogen sink in Lake Mendota, Wisconsin. Environmental Science & Technology, 1968, 2, 120-125.	4.6	78