Steven Arthur Loiselle

List of Publications by Year
in descending order

123	5,440	109264 35	91828 69
papers	citations	h-index	g-index

125	125	125	6318
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lakes and reservoirs as regulators of carbon cycling and climate. Limnology and Oceanography, 2009, 54, 2298-2314.	1.6	1,977
2	The optical characterization of chromophoric dissolved organic matter using wavelength distribution of absorption spectral slopes. Limnology and Oceanography, 2009, 54, 590-597.	1.6	128
3	Testing the spectral variation hypothesis by using satellite multispectral images. Acta Oecologica, 2004, 26, 117-120.	0.5	115
4	MODIS observations of cyanobacterial risks in a eutrophic lake: Implications for long-term safety evaluation in drinking-water source. Water Research, 2017, 122, 455-470.	5.3	107
5	Fourteen-Year Record (2000â€“2013) of the Spatial and Temporal Dynamics of Floating Algae Blooms in Lake Chaohu, Observed from Time Series of MODIS Images. Remote Sensing, 2015, 7, 10523-10542.	1.8	99
6	Selective Mechanochemical Dehalogenation of Chlorobenzenes over Calcium Hydride. Environmental Science & Technology, 1997, 31, 261-265.	4.6	89
7	Spatio-temporal dynamics of phytoplankton and primary production in Lake Tanganyika using a MODIS based bio-optical time series. Remote Sensing of Environment, 2010, 114, 772-780.	4.6	85
8	Optical characterization of black water blooms in eutrophic waters. Science of the Total Environment, 2014, 482-483, 174-183.	3.9	83
9	Functioning and dynamics of wetland vegetation of Lake Victoria: an overview. Wetlands Ecology and Management, 2007, 15, 443-451.	0.7	73
10	Sediment resuspension by wind in a shallow lake of Esteros del IberÃ¡ (Argentina): a model based on turbidimetry. Ecological Modelling, 2005, 186, 63-76.	1.2	72
11	The Assessment of Landsat-8 OLI Atmospheric Correction Algorithms for Inland Waters. Remote Sensing, 2019, 11, 169.	1.8	71
12	A MODIS-Based Novel Method to Distinguish Surface Cyanobacterial Scums and Aquatic Macrophytes in Lake Taihu. Remote Sensing, 2017, 9, 133.	1.8	64
13	Distribution and incidence of algal blooms in Lake Taihu. Aquatic Sciences, 2015, 77, 9-16.	0.6	63
14	Macroplastic pollution in freshwater environments: Focusing public and policy action. Science of the Total Environment, 2020, 704, 135242.	3.9	62
15	Getting the full picture: Assessing the complementarity of citizen science and agency monitoring data. PLoS ONE, 2017, 12, e0188507.	1.1	60
16	Polystyrene microplastics increase microbial release of marine Chromophoric Dissolved Organic Matter in microcosm experiments. Scientific Reports, 2018, 8, 14635.	1.6	58
17	The Mechanochemical Self-Propagating Reaction between Hexachlorobenzene and Calcium Hydride. Journal of Solid State Chemistry, 1997, 129, 263-270.	1.4	57
18	Variability of particulate organic carbon in inland waters observed from MODIS Aqua imagery. Environmental Research Letters, 2014, 9, 084011.	2.2	56

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19	Plastic pollution impacts on marine carbon biogeochemistry. Environmental Pollution, 2021, 268, 115598.	3.7	55
20	Chemical and optical phototransformation of dissolved organic matter. Water Research, 2012, 46, 3197-3207.	5.3	54
21	A Novel Algorithm to Estimate Algal Bloom Coverage to Subpixel Resolution in Lake Taihu. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3060-3068.	2.3	54
22	A new three-band algorithm for estimating chlorophyll concentrations in turbid inland lakes. Environmental Research Letters, 2010, 5, 044009.	2.2	51
23	The Citizen Science Opportunity for Researchers and Agencies. BioScience, 2016, 66, 720-721.	2.2	51
24	Quantification of phytoplankton bloom dynamics by citizen scientists in urban and peri-urban environments. Environmental Monitoring and Assessment, 2015, 187, 690.	1.3	50
25	Variability in factors causing light attenuation in Lake Victoria. Freshwater Biology, 2008, 53, 535-545.	1.2	49
26	A Remote Sensing Approach to Estimate Vertical Profile Classes of Phytoplankton in a Eutrophic Lake. Remote Sensing, 2015, 7, 14403-14427.	1.8	48
27	Microplastics increase the marine production of particulate forms of organic matter. Environmental Research Letters, 2019, 14, 124085.	2.2	45
28	COVID-19 lockdown improved river water quality in China. Science of the Total Environment, 2022, 802, 149585.	3.9	44
29	Citizen science participation in research in the environmental sciences: key factors related to projectsâ€™ success and longevity. Anais Da Academia Brasileira De Ciencias, 2017, 89, 2229-2245.	0.3	43
30	Satellite-Based Estimation of Column-Integrated Algal Biomass in Nonalgae Bloom Conditions: A Case Study of Lake Chaohu, China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 450-462.	2.3	41
31	Observations of water transparency in Chinaâ€™s lakes from space. International Journal of Applied Earth Observation and Geoinformation, 2020, 92, 102187.	1.4	41
32	Optimized extraction of daily bio-optical time series derived from MODIS/Aqua imagery for Lake Tanganyika, Africa. Remote Sensing of Environment, 2010, 114, 781-791.	4.6	38
33	Determination of the Downwelling Diffuse Attenuation Coefficient of Lake Water with the Sentinel-3A OLCI. Remote Sensing, 2017, 9, 1246.	1.8	38
34	Variability in photobleaching yields and their related impacts on optical conditions in subtropical lakes. Journal of Photochemistry and Photobiology B: Biology, 2009, 95, 129-137.	1.7	37
35	Assessing the optical changes in dissolved organic matter in humic lakes by spectral slope distributions. Journal of Photochemistry and Photobiology B: Biology, 2011, 102, 132-139.	1.7	37
36	Remote sensing of particulate organic carbon dynamics in a eutrophic lake (Taihu Lake, China). Science of the Total Environment, 2015, 532, 245-254.	3.9	37

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37	Remote estimation of chlorophyll a concentrations over a wide range of optical conditions based on water classification from VIIRS observations. Remote Sensing of Environment, 2020, 241, 111735.	4.6	37
38	Remote sensing imagery analysis of the lacustrine system of Ibera wetland (Argentina). Ecological Modelling, 2005, 186, 29-41.	1.2	36
39	Micro and Macroscale Drivers of Nutrient Concentrations in Urban Streams in South, Central and North America. PLoS ONE, 2016, 11, e0162684.	1.1	35
40	The Spatial Distribution of Optical Properties in the Ultraviolet and Visible in an Aquatic EcosystemÂ¶. Photochemistry and Photobiology, 2004, 80, 139.	1.3	34
41	Estimate of the effects of ultraviolet radiation on the mortality of Artemia franciscana in naupliar and adult stages. International Journal of Biometeorology, 2005, 49, 388-395.	1.3	33
42	Basin-Scale Control on the Phytoplankton Biomass in Lake Victoria, Africa. PLoS ONE, 2012, 7, e29962.	1.1	32
43	A novel MODIS algorithm to estimate chlorophyll a concentration in eutrophic turbid lakes. Ecological Indicators, 2016, 69, 138-151.	2.6	31
44	The contribution of volunteer-based monitoring data to the assessment of harmful phytoplankton blooms in Brazilian urban streams. Science of the Total Environment, 2017, 584-585, 586-594.	3.9	31
45	Consumer-based actions to reduce plastic pollution in rivers: A multi-criteria decision analysis approach. PLoS ONE, 2020, 15, e0236410.	1.1	31
46	Are algal blooms occurring later in Lake Taihu? Climate local effects outcompete mitigation prevention. Journal of Plankton Research, 2014, 36, 866-871.	0.8	30
47	Sensitivity analysis of CDOM spectral slope in artificial and natural samples: an application in the central eastern Mediterranean Basin. Aquatic Sciences, 2010, 72, 485-498.	0.6	29
48	Spatial and seasonal changes in optical properties of autochthonous and allochthonous chromophoric dissolved organic matter in a stratified mountain lake. Photochemical and Photobiological Sciences, 2010, 9, 304-314.	1.6	29
49	Prioritising local action for water quality improvement using citizen science; a study across three major metropolitan areas of China. Science of the Total Environment, 2017, 584-585, 1268-1281.	3.9	29
50	Spatial and temporal variations of the inherent and apparent optical properties in a shallow coastal lake. Journal of Photochemistry and Photobiology B: Biology, 2005, 80, 161-177.	1.7	27
51	Examining the dynamics of phytoplankton biomass in Lake Tanganyika using Empirical Orthogonal Functions. Ecological Modelling, 2007, 204, 156-162.	1.2	25
52	Monitoring Biological and Chemical Trends in Temperate Still Waters Using Citizen Science. Water (Switzerland), 2018, 10, 839.	1.2	25
53	How citizen scientists can enrich freshwater science as contributors, collaborators, and co-creators. Freshwater Science, 2019, 38, 231-235.	0.9	25
54	Relationships between wetland ecotones and inshore water quality in the Ugandan coast of Lake Victoria. Wetlands Ecology and Management, 2007, 15, 499-507.	0.7	24

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55	Citizen Science Monitoring for Sustainable Development Goal Indicator 6.3.2 in England and Zambia. Sustainability, 2020, 12, 10271.	1.6	23
56	Modelling energy fluxes in remote wetland ecosystems with the help of remote sensing. Ecological Modelling, 2001, 145, 243-261.	1.2	22
57	A Spectral Decomposition Algorithm for Estimating Chlorophyll-a Concentrations in Lake Taihu, China. Remote Sensing, 2014, 6, 5090-5106.	1.8	22
58	Estimating Forest fAPAR from Multispectral Landsat-8 Data Using the Invertible Forest Reflectance Model INFORM. Remote Sensing, 2015, 7, 7425-7446.	1.8	22
59	Decadal Trends and Common Dynamics of the Bio-Optical and Thermal Characteristics of the African Great Lakes. PLoS ONE, 2014, 9, e93656.	1.1	22
60	The role of wetlands in the chromophoric dissolved organic matter release and its relation to aquatic ecosystems optical properties. A case of study: Katonga and Bunjako Bays (Victoria Lake;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.1	21
61	Optical approaches to examining the dynamics of dissolved organic carbon in optically complex inland waters. Environmental Research Letters, 2012, 7, 034014.	2.2	21
62	Approximate bottom contribution to remote sensing reflectance in Taihu Lake, China. Journal of Great Lakes Research, 2011, 37, 18-25.	0.8	20
63	The bio-optical properties of CDOM as descriptor of lake stratification. Journal of Photochemistry and Photobiology B: Biology, 2006, 85, 145-149.	1.7	19
64	Satellite analysis to identify changes and drivers of CyanoHABs dynamics in Lake Taihu. Water Science and Technology: Water Supply, 2016, 16, 1451-1466.	1.0	19
65	Citizen scientists supporting environmental research priorities. Science of the Total Environment, 2017, 598, 937.	3.9	19
66	A Hybrid EOF Algorithm to Improve MODIS Cyanobacteria Phycocyanin Data Quality in a Highly Turbid Lake: Bloom and Nonbloom Condition. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4430-4444.	2.3	19
67	Plastic Accumulation in the Sea Surface Microlayer: An Experiment-Based Perspective for Future Studies. Geosciences (Switzerland), 2019, 9, 66.	1.0	19
68	The Analysis of the Seasonal, Spatial, and Compositional Distribution of Humic Substances in a Subtropical Shallow Lake. Clean - Soil, Air, Water, 2003, 31, 461-468.	0.8	18
69	Integrating Remote Sensing Approach with Pollution Monitoring Tools for Aquatic Ecosystem Risk Assessment and Managment: A Case Study of Lake Victoria(UGANDA). Environmental Monitoring and Assessment, 2006, 122, 275-287.	1.3	18
70	Secondary impacts of eutrophication control activities in shallow lakes: Lessons from aquatic macrophyte dynamics in Lake Taihu from 2000 to 2015. Freshwater Science, 2019, 38, 802-817.	0.9	18
71	Wind Effects for Floating Algae Dynamics in Eutrophic Lakes. Remote Sensing, 2021, 13, 800.	1.8	18
72	Analysis of extinction in ultraviolet and visible spectra of water bodies of the Paraguay and Brazil wetlands. Chemosphere, 2004, 57, 1245-1255.	4.2	17

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73	An absorption-specific approach to examining dynamics of particulate organic carbon from VIIRS observations in inland and coastal waters. Remote Sensing of Environment, 2019, 224, 29-43.	4.6	17
74	Light limitations to algal growth in tropical ecosystems. Freshwater Biology, 2007, 52, 305-312.	1.2	16
75	Potential Effects of Climate Change on the Water Level, Flora and Macro-fauna of a Large Neotropical Wetland. PLoS ONE, 2013, 8, e67787.	1.1	16
76	Drivers to spatial and temporal dynamics of column integrated phytoplankton biomass in the shallow lake of Chaohu, China. Ecological Indicators, 2020, 109, 105812.	2.6	15
77	Extensive spatial analysis of the light environment in a subtropical shallow lake, Laguna Iberï¿½, Argentina. Hydrobiologia, 2005, 534, 181-191.	1.0	14
78	Effective upwelling irradiance depths in turbid waters: a spectral analysis of origins and fate. Optics Express, 2011, 19, 7127.	1.7	14
79	Spatial dynamics of chromophoric dissolved organic matter in nearshore waters of Lake Victoria. Aquatic Ecosystem Health and Management, 2010, 13, 185-195.	0.3	13
80	A Remote Sensing Algorithm of Column-Integrated Algal Biomass Covering Algal Bloom Conditions in a Shallow Eutrophic Lake. ISPRS International Journal of Geo-Information, 2018, 7, 466.	1.4	13
81	Modelling the components of the vertical attenuation of ultraviolet radiation in a wetland lake ecosystem. Ecological Modelling, 2005, 186, 43-54.	1.2	12
82	Satellite-based indices in the analysis of land cover for municipalities in the province of Siena, Italy. Journal of Environmental Management, 2008, 86, 383-389.	3.8	12
83	Remote determination of chromophoric dissolved organic matter in lakes, China. International Journal of Digital Earth, 2014, 7, 897-915.	1.6	12
84	Creating Positive Environmental Impact Through Citizen Science. , 2021, , 373-395.		12
85	Feedback analysis in reserve management: studying local myths using qualitative models. Ecological Modelling, 2000, 129, 25-37.	1.2	11
86	Modelling Upwelling Irradiance using Secchi disk depth in lake ecosystems. Journal of Limnology, 2009, 68, 83.	0.3	11
87	Assimilation of MODIS Chlorophyll-a Data Into a Coupled Hydrodynamic-Biological Model of Taihu Lake. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1623-1631.	2.3	11
88	A new insight into black blooms: Synergies between optical and chemical factors. Estuarine, Coastal and Shelf Science, 2016, 175, 118-125.	0.9	11
89	Factors related to water quality and thresholds for microcystin concentrations in subtropical Brazilian reservoirs. Inland Waters, 2018, 8, 368-380.	1.1	11
90	Local and landscape influences on turbidity in urban streams: a global approach using citizen scientists. Freshwater Science, 2019, 38, 303-320.	0.9	11

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91	The Circular Benefits of Participation in Nature-Based Solutions. Sustainability, 2021, 13, 4344.	1.6	11
92	Determination of nano and microplastic particles in hypersaline lakes by multiple methods. Environmental Monitoring and Assessment, 2021, 193, 668.	1.3	11
93	Community monitoring of coliform pollution in Lake Tanganyika. PLoS ONE, 2022, 17, e0262881.	1.1	11
94	The use of systems analysis methods in the sustainable management of wetlands. Hydrobiologia, 2001, 458, 191-200.	1.0	10
95	The optical qualities of shallow wetland lined bays in Lake Victoria. Wetlands Ecology and Management, 2007, 15, 509-519.	0.7	9
96	Competition for spectral irradiance between epilimnetic optically active dissolved and suspended matter and phytoplankton in the metalimnion. Consequences for limnology and chemistry. Photochemical and Photobiological Sciences, 2011, 10, 1000.	1.6	9
97	Spatial and temporal characterisations of the degradation of dissolved humic substances in freshwater lake. Ecological Modelling, 2005, 186, 55-61.	1.2	8
98	Morphological anomalies in pollen tubes ofActinidia deliciosa (kiwi) exposed to 50 Hz magnetic field. Bioelectromagnetics, 2005, 26, 153-156.	0.9	8
99	When It Rains, It Pours: Integrating Citizen Science Methods to Understand Resilience of Urban Green Spaces. Frontiers in Water, 2021, 3, .	1.0	8
100	Characterization of the Ugandan inshore waters of Lake Victoria based on temperature-conductivity diagrams. Water Resources Research, 2004, 40, .	1.7	7
101	Microplastics Contamination versus Inorganic Particles: Effects on the Dynamics of Marine Dissolved Organic Matter. Environments - MDPI, 2021, 8, 21.	1.5	7
102	Comparing Wetland Ecosystems Service Provision under Different Management Approaches: Two Cases Study of Tianfu Wetland and Nansha Wetland in China. Sustainability, 2021, 13, 8710.	1.6	7
103	A modelling approach for the analysis of xyloseâ€“ethanol bioconversion. Ecological Modelling, 1998, 113, 157-162.	1.2	6
104	The tertiary treatment pilot plant of publiser SPA (Florence, Tuscany): A multistage experience. Water Science and Technology, 1999, 40, 195.	1.2	6
105	The microalgaeTetraselmis suecicain mesocosms under different light regimes. Chemistry and Ecology, 2009, 25, 345-357.	0.6	6
106	Short-term dynamics of physico-chemical and biological features in a shallow, evaporative antarctic lake. Polar Biology, 2013, 36, 1147-1160.	0.5	6
107	Planktonic community metabolism in two stratified Mediterranean reservoirs with different trophic status. Aquatic Ecosystem Health and Management, 2013, 16, 183-189.	0.3	6
108	The spatial and temporal variation of water quality at a community garden site in an urban setting: citizen science in action. Freshwater Science, 2019, 38, 352-364.	0.9	6

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109	Tools for Wetland Ecosystem Resource Management in East Africa: Focus on the Lake Victoria Papyrus Wetlands. Ecological Studies, 2006, , 97-121.	0.4	6
110	Unusual links between inherent and apparent optical properties in shallow lakes, the case of Taihu Lake. Hydrobiologia, 2011, 667, 149-158.	1.0	5
111	Neotropical wetlands: New instruments in ecosystem management. Wetlands Ecology and Management, 2004, 12, 587-596.	0.7	4
112	Ecosystem Services Evaluation of Nature-Based Solutions with the Help of Citizen Scientists. Sustainability, 2021, 13, 10629.	1.6	4
113	The Spatial Distribution of Optical Properties in the Ultraviolet and Visible in an Aquatic Ecosystem^{Â¶}. Photochemistry and Photobiology, 2004, 80, 139-149.	1.3	3
114	An Informatics Approach for Smart Evaluation of Water Quality Related Ecosystem Services. Annals of Data Science, 2016, 3, 251-264.	1.7	3
115	A Manageable Measurement Method for Sodium. Journal of Chemical Education, 1996, 73, 857.	1.1	2
116	Mathematical Modeling and Numerical Simulation of Space-Dependent Multispecies Interactions. Annals of the New York Academy of Sciences, 1999, 879, 440-443.	1.8	2
117	Using Remote Sensing to Assess the Impact of Human Activities on Water Quality: Case Study of Lake Taihu, China. Handbook of Environmental Chemistry, 2015, , 85-110.	0.2	2
118	Science & Technology Agenda for Blue-Green Spaces Inspired by Citizen Science: Case for Rejuvenation of Powai Lake. Sustainability, 2021, 13, 10061.	1.6	1
119	Remote Sensing of African Lakes: A Review. , 2014, , 403-422.		1
120	How Can Plastic on the Sea Surface Affect Our Climate?. Frontiers for Young Minds, 0, 8, .	0.8	1
121	Nuclear Relaxation Analysis of the Xenobiotic- Receptor (DNA Or Plasmatic Protein) Recognition Process. Spectroscopy Letters, 1998, 31, 1039-1051.	0.5	0
122	Qualitative modelling tools for rural ecosystem management. International Journal of Sustainable Development and World Ecology, 2001, 8, 1-14.	3.2	0
123	An Informatics Approach for Smart Evaluation of Water Quality Related Ecosystem Services. Lecture Notes in Computer Science, 2015, , 178-185.	1.0	0