

Leon Boegman

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,148
citations

257450

24
h-index

233421

45
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63
all docs

63
docs citations

63
times ranked

1472
citing authors

#	ARTICLE	IF	CITATIONS
1	An automatic lake-model application using near-real-time data forcing: development of an operational forecast workflow (COASTLINES) for Lake Erie. <i>Geoscientific Model Development</i> , 2022, 15, 1331-1353.	3.6	4
2	Bolus formation from fission of nonlinear internal waves over a mild slope. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	3.4	4
3	A framework for ensemble modelling of climate change impacts on lakes worldwide: the ISIMIP Lake Sector. <i>Geoscientific Model Development</i> , 2022, 15, 4597-4623.	3.6	37
4	Characterizing spatial and temporal distributions of turbulent mixing and dissipation in Lake Erie. <i>Journal of Great Lakes Research</i> , 2021, 47, 168-179.	1.9	13
5	Increases in Great Lake winds and extreme events facilitate interbasin coupling and reduce water quality in Lake Erie. <i>Scientific Reports</i> , 2021, 11, 5733.	3.3	19
6	Parameterization of oscillating boundary layers in lakes and coastal oceans. <i>Ocean Modelling</i> , 2021, 160, 101780.	2.4	4
7	Three-dimensional modeling of sediment resuspension in a large shallow lake. <i>Journal of Great Lakes Research</i> , 2021, 47, 970-984.	1.9	14
8	Turnover in a small Canadian shield lake. <i>Limnology and Oceanography</i> , 2021, 66, 3356-3373.	3.1	7
9	Internal solitary wave bottom boundary layer dissipation. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	3
10	Three-dimensional biogeochemical modeling of eutrophication in Edmonton stormwater ponds. <i>Ecological Modelling</i> , 2021, 456, 109684.	2.5	8
11	Currents in Stratified Water Bodies: Internal Waves. , 2021, , .		2
12	Breaking of Internal Kelvin Waves Shoaling on a Slope. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016120.	2.6	13
13	Dissipation of Turbulent Kinetic Energy in the Oscillating Bottom Boundary Layer of a Large Shallow Lake. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 517-531.	1.3	12
14	Sediment Resuspension and Transport by Internal Solitary Waves. <i>Annual Review of Fluid Mechanics</i> , 2019, 51, 129-154.	25.0	108
15	Episodic hypoxia in the western basin of Lake Erie. <i>Limnology and Oceanography</i> , 2019, 64, 2220-2236.	3.1	27
16	Hydrodynamic modeling of Edmonton storm-water ponds. <i>Environmental Fluid Mechanics</i> , 2019, 19, 305-327.	1.6	14
17	Classification of internal solitary wave breaking over a slope. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	41
18	Three-dimensional simulation of high-frequency nonlinear internal wave dynamics in a shallow lake. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2183-2204.	2.6	27

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19	Sediment resuspension mechanisms and their contributions to high-turbidity events in a large lake. <i>Limnology and Oceanography</i> , 2017, 62, 1045-1065.	3.1	66
20	Physical processes affecting water quality in Hamilton Harbour. <i>Aquatic Ecosystem Health and Management</i> , 2016, 19, 114-123.	0.6	19
21	A perspective on needed research, modeling, and management approaches that can enhance Great Lakes fisheries management under changing ecosystem conditions. <i>Journal of Great Lakes Research</i> , 2016, 42, 743-752.	1.9	16
22	Spatial distributions of external and internal phosphorus loads in Lake Erie and their impacts on phytoplankton and water quality. <i>Journal of Great Lakes Research</i> , 2016, 42, 1212-1227.	1.9	37
23	Evaluation of the structure function method to compute turbulent dissipation within boundary layers using numerical simulations. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5888-5897.	2.6	13
24	Experimental investigation of sediment resuspension beneath internal solitary waves of depression. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 3301-3314.	2.6	42
25	Near-inertial waves in Lake Erie. <i>Limnology and Oceanography</i> , 2015, 60, 1522-1535.	3.1	30
26	Evaluation of the inertial dissipation method within boundary layers using numerical simulations. <i>Geophysical Research Letters</i> , 2015, 42, 1504-1511.	4.0	11
27	Transport of municipal wastewater, industrial and tributary discharges in eastern Lake Ontario and upper St. Lawrence River during the ice-free period of 2006. <i>Journal of Great Lakes Research</i> , 2015, 41, 549-559.	1.9	0
28	3D modelling of dreissenid mussel impacts on phytoplankton in a large lake supports the nearshore shunt hypothesis and the importance of wind-driven hydrodynamics. <i>Aquatic Sciences</i> , 2015, 77, 95-114.	1.5	14
29	A model of the three-dimensional hydrodynamics, transport and flushing in the Bay of Quinte. <i>Journal of Great Lakes Research</i> , 2015, 41, 536-548.	1.9	13
30	Parameterization of bottom mixed layer and logarithmic layer heights in central Lake Erie. <i>Journal of Great Lakes Research</i> , 2015, 41, 707-718.	1.9	26
31	One-dimensional simulation of lake and ice dynamics during winter. <i>Journal of Limnology</i> , 2014, 73, .	1.1	16
32	Modeling surface waves and wind-driven circulation in eastern Lake Ontario during winter storms. <i>Journal of Great Lakes Research</i> , 2014, 40, 130-142.	1.9	13
33	Offshore wind farm impacts on surface waves and circulation in Eastern Lake Ontario. <i>Coastal Engineering</i> , 2014, 93, 32-39.	4.0	22
34	Near-inertial wave driven dissolved oxygen transfer through the thermocline of a large lake. <i>Journal of Great Lakes Research</i> , 2014, 40, 300-307.	1.9	15
35	Self-similar decay and mixing of a high-Schmidt-number passive scalar in an oscillating boundary layer in the intermittently turbulent regime. <i>Journal of Fluid Mechanics</i> , 2013, 726, 338-370.	3.4	2
36	A diapycnal diffusivity model for stratified environmental flows. <i>Dynamics of Atmospheres and Oceans</i> , 2013, 61-62, 14-34.	1.8	129

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37	Large-eddy simulation and low-order modeling of sediment-oxygen uptake in a transitional oscillatory flow. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1926-1939.	2.6	17
38	Factors affecting the development and dynamics of hypoxia in a large shallow stratified lake: Hourly to seasonal patterns. <i>Water Resources Research</i> , 2013, 49, 2380-2394.	4.2	74
39	Internal hydraulic jumps in a long narrow lake. <i>Limnology and Oceanography</i> , 2013, 58, 153-172.	3.1	22
40	Impacts of hydrodynamics and benthic communities on phytoplankton distributions in a large, dreissenid-colonized lake (Lake Simcoe, Ontario, Canada). <i>Inland Waters</i> , 2013, 3, 269-284.	2.2	15
41	High-Schmidt-number mass transport mechanisms from a turbulent flow to absorbing sediments. <i>Physics of Fluids</i> , 2012, 24, 085103.	4.0	21
42	Three-dimensional simulation of lake and ice dynamics during winter. <i>Limnology and Oceanography</i> , 2012, 57, 43-57.	3.1	36
43	Boundary-layer-separation-driven vortex shedding beneath internal solitary waves of depression. <i>Journal of Fluid Mechanics</i> , 2012, 690, 321-344.	3.4	58
44	The dynamics of internal wave resonance in periodically forced narrow basins. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
45	Poincaré wave-induced mixing in a large lake. <i>Limnology and Oceanography</i> , 2012, 57, 1201-1216.	3.1	68
46	Physical processes and water quality in natural waters. <i>Water Quality Research Journal of Canada</i> , 2012, 47, 197-197.	2.7	0
47	Large-eddy simulation of oxygen transfer to organic sediment beds. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
48	Dead Zone-dynamics in Lake Erie: the importance of weather and sampling intensity for calculated hypolimnetic oxygen depletion rates. <i>Aquatic Sciences</i> , 2011, 73, 289-304.	1.5	56
49	Dreissenids in Lake Erie: an algal filter or a fertilizer?. <i>Aquatic Invasions</i> , 2011, 6, 175-194.	1.6	32
50	Breaking of shoaling internal solitary waves. <i>Journal of Fluid Mechanics</i> , 2010, 659, 289-317.	3.4	136
51	Flow separation and resuspension beneath shoaling nonlinear internal waves. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	93
52	A two-dimensional ecological model of Lake Erie: Application to estimate dreissenid impacts on large lake plankton populations. <i>Ecological Modelling</i> , 2008, 214, 219-241.	2.5	83
53	Spatial-Dynamic Modeling of Algal Biomass in Lake Erie: Relative Impacts of Dreissenid Mussels and Nutrient Loads. <i>Journal of Environmental Engineering, ASCE</i> , 2008, 134, 456-468.	1.4	34
54	Vertical mixing and weak stratification over zebra mussel colonies in western Lake Erie. <i>Limnology and Oceanography</i> , 2008, 53, 1093-1110.	3.1	76

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55	The degeneration of internal waves in lakes with sloping topography. <i>Limnology and Oceanography</i> , 2005, 50, 1620-1637.	3.1	182
56	The energetics of large-scale internal wave degeneration in lakes. <i>Journal of Fluid Mechanics</i> , 2005, 531, 159-180.	3.4	79
57	High-frequency internal waves in large stratified lakes. <i>Limnology and Oceanography</i> , 2003, 48, 895-919.	3.1	135
58	Application of a two-dimensional hydrodynamic reservoir model to Lake Erie. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001, 58, 858-869.	1.4	42
59	Empirical modeling of hypolimnion and sediment oxygen demand in temperate Canadian lakes. <i>Inland Waters</i> , 0, , 1-17.	2.2	6
60	Simulated impacts of climate change on Lake Simcoe water quality. <i>Inland Waters</i> , 0, , 1-17.	2.2	0
61	Three-dimensional numerical simulation of basin-scale internal waves in a long narrow lake. <i>Environmental Fluid Mechanics</i> , 0, , .	1.6	1