Dmitry Beletsky

List of Publications by Year
in descending order

49	4,044	147726	223716
papers	citations	31 h-index	46 g-index

49	49	49	3733
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Record-setting algal bloom in Lake Erie caused by agricultural and meteorological trends consistent with expected future conditions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6448-6452.	3.3	1,164
2	Assessing and addressing the re-eutrophication of Lake Erie: Central basin hypoxia. Journal of Great Lakes Research, 2014, 40, 226-246.	0.8	421
3	Mean Circulation in the Great Lakes. Journal of Great Lakes Research, 1999, 25, 78-93.	0.8	234
4	Modeling circulation and thermal structure in Lake Michigan: Annual cycle and interannual variability. Journal of Geophysical Research, 2001, 106, 19745-19771.	3.3	164
5	Risk Analysis and Bioeconomics of Invasive Species to Inform Policy and Management. Annual Review of Environment and Resources, 2016, 41, 453-488.	5.6	149
6	Seasonal and interannual effects of hypoxia on fish habitat quality in central Lake Erie. Freshwater Biology, 2011, 56, 366-383.	1.2	122
7	Distribution and Modeled Transport of Plastic Pollution in the Great Lakes, the World's Largest Freshwater Resource. Frontiers in Environmental Science, 2017, 5, .	1.5	100
8	A model of sediment resuspension and transport dynamics in southern Lake Michigan. Journal of Geophysical Research, 2000, 105, 6591-6610.	3.3	96
9	Modeling the 1998â€“2003 summer circulation and thermal structure in Lake Michigan. Journal of Geophysical Research, 2006, 111, .	3.3	92
10	A model study of the coupled biological and physical dynamics in Lake Michigan. Ecological Modelling, 2002, 152, 145-168.	1.2	90
11	Record-Breaking Lake Erie Hypoxia during 2012 Drought. Environmental Science & Technology, 2015, 49, 800-807.	4.6	80
12	Biophysical Model of Larval Yellow Perch Advection and Settlement in Lake Michigan. Journal of Great Lakes Research, 2007, 33, 842-866.	0.8	78
13	Modeling summer circulation and thermal structure of Lake Erie. Journal of Geophysical Research: Oceans, 2013, 118, 6238-6252.	1.0	78
14	Lake Erie hypoxia prompts Canada-U.S. study. Eos, 2006, 87, 313.	0.1	76
15	Numerical Simulation of Internal Kelvin Waves and Coastal Upwelling Fronts*. Journal of Physical Oceanography, 1997, 27, 1197-1215.	0.7	69
16	A hydrodynamic approach to modeling phosphorus distribution in Lake Erie. Journal of Great Lakes Research, 2009, 35, 50-60.	0.8	69
17	Relative effects of wind stress curl, topography, and stratification on large-scale circulation in Lake Michigan. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	65
18	A simple 1-dimensional, climate based dissolved oxygen model for the central basin of Lake Erie. Journal of Great Lakes Research, 2010, 36, 465-476.	0.8	63

#	Article	IF	Citations
19	Budget Analysis of Escherichia coli at a Southern Lake Michigan Beach. Environmental Science & Technology, 2010, 44, 1010-1016.	4.6	60
20	Modeling wind-driven circulation during the March 1998 sediment resuspension event in Lake Michigan. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	57
21	Modeling Lake Erie's hypoxia response to nutrient loads and physical variability. Journal of Great Lakes Research, 2014, 40, 151-161.	0.8	56
22	An Ensemble Kalman Filter and Smoother for Satellite Data Assimilation. Journal of the American Statistical Association, 2010, 105, 978-990.	1.8	53
23	Summer thermal structure and anticyclonic circulation of Lake Erie. Geophysical Research Letters, 2012, 39, .	1.5	48
24	Development of the Great Lakes Ice-circulation Model (GLIM): Application to Lake Erie in 2003â€“2004. Journal of Great Lakes Research, 2010, 36, 425-436.	0.8	44
25	Coastal Upwelling Influences Hypoxia Spatial Patterns and Nearshore Dynamics in Lake Erie. Journal of Geophysical Research: Oceans, 2019, 124, 6154-6175.	1.0	43
26	Climatological circulation in Lake Michigan. Geophysical Research Letters, 2008, 35, .	1.5	41
27	Influences of suspended sediments on the ecosystem in Lake Michigan: a 3-D coupled bio-physical modeling experiment. Ecological Modelling, 2002, 152, 169-190.	1.2	37
28	The 1998 Coastal Turbidity Plume in Lake Michigan. Estuarine, Coastal and Shelf Science, 2000, 50, 49-58.	0.9	36
29	Assimilation of satellite images into a sediment transport model of Lake Michigan. Water Resources Research, 2009, 45, .	1.7	35
30	A sensitive environmental DNA (eDNA) assay leads to new insights on Ruffe (Gymnocephalus cernua) spread in North America. Biological Invasions, 2016, 18, 3205-3222.	1.2	34
31	Impacts of suspended sediment on the ecosystem in Lake Michigan: A comparison between the 1998 and 1999 plume events. Journal of Geophysical Research, 2004, 109, .	3.3	32
32	Numerical modeling of mixed sediment resuspension, transport, and deposition during the March 1998 episodic events in southern Lake Michigan. Journal of Geophysical Research, 2007, 112, .	3.3	31
33	Impacts of extreme 2013â€“2014 winter conditions on Lake Michigan's fall heat content, surface temperature, and evaporation. Geophysical Research Letters, 2015, 42, 3364-3370.	1.5	31
34	Modeling hypoxia in the central basin of Lake Erie under potential phosphorus load reduction scenarios. Journal of Great Lakes Research, 2016, 42, 1206-1211.	0.8	30
35	Suitability of Laurentian Great Lakes for invasive species based on global species distribution models and local habitat. Ecosphere, 2017, 8, e01883.	1.0	26
36	Propagation of Kelvin waves along irregular coastlines in finite-difference models. Advances in Water Resources, 1998, 22, 239-245.	1.7	22

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37	Basin-Scale Topographic Waves in the Gulf of Riga*. Journal of Physical Oceanography, 2003, 33, 1129-1140.	0.7	20
38	Predicting spread of aquatic invasive species by lake currents. Journal of Great Lakes Research, 2017, 43, 14-32.	0.8	18
39	Modeling the ice-attenuated waves in the Great Lakes. Ocean Dynamics, 2020, 70, 991-1003.	0.9	13
40	Assimilation of current measurements into a circulation model of Lake Michigan. Water Resources Research, 2007, 43, .	1.7	12
41	Sediment resuspension in Saginaw Bay. Journal of Great Lakes Research, 2014, 40, 18-27.	0.8	12
42	Refining species distribution model outputs using landscape-scale habitat data: Forecasting grass carp and Hydrilla establishment in the Great Lakes region. Journal of Great Lakes Research, 2017, 43, 298-307.	0.8	12
43	Lake Huron climatology, inter-lake exchange and mean circulation. Aquatic Ecosystem Health and Management, 2008, 11, 144-152.	0.3	8
44	Modeling the Transport of Larval Yellow Perch in Lake Michigan. , 2004, , 439.		6
45	Modeling a Large Coastal Upwelling Event in Lake Superior. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016512.	1.0	6
46	A modeling study of benthic detritus flux's impacts on heterotrophic processes in Lake Michigan. Journal of Geophysical Research, 2004, 109, .	3.3	4
47	Ice thickness measurements in Lake Erie during the winter of 2010â€“2011. Journal of Great Lakes Research, 2018, 44, 388-397.	0.8	4
48	Hydrodynamic Model for Green Bay, Lake Michigan. , 2012, , .		3
49	Hydrodynamic and Sediment Transport Modeling of Episodic Resuspension Events in Lake Michigan. , 2002, , 266.		0