

Miki Hondzo

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,612
citations

331670

21
h-index

315739

38
g-index

65
all docs

65
docs citations

65
times ranked

1915
citing authors

#	ARTICLE	IF	CITATIONS
1	A Field Information-based System for Estimating Fish Temperature Tolerances. <i>Fisheries</i> , 1995, 20, 10-18.	0.8	222
2	Toward a unified science of the Earth's surface: Opportunities for synthesis among hydrology, geomorphology, geochemistry, and ecology. <i>Water Resources Research</i> , 2006, 42, .	4.2	83
3	Dissolved oxygen transfer to sediments by sweep and eject motions in aquatic environments. <i>Limnology and Oceanography</i> , 2008, 53, 566-578.	3.1	81
4	Lake Water Quality Modeling for Projected Future Climate Scenarios. <i>Journal of Environmental Quality</i> , 1993, 22, 417-431.	2.0	68
5	Stream Temperature Dynamics in Upland Agricultural Watersheds. <i>Journal of Environmental Engineering, ASCE</i> , 2000, 126, 518-526.	1.4	65
6	Effects of turbulence on growth and metabolism of periphyton in a laboratory flume. <i>Water Resources Research</i> , 2002, 38, 13-1-13-9.	4.2	63
7	Predictive Modeling of Transient Storage and Nutrient Uptake: Implications for Stream Restoration. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 1018-1032.	1.5	59
8	Dissolved oxygen dynamics of streams draining an urbanized and an agricultural catchment. <i>Ecological Modelling</i> , 2003, 160, 145-161.	2.5	58
9	Effects of bed roughness on boundary layer mixing and mass flux across the sediment-water interface. <i>Water Resources Research</i> , 2010, 46, .	4.2	56
10	Evaluation and application of a three-dimensional water quality model in a shallow lake with complex morphometry. <i>Ecological Modelling</i> , 2010, 221, 1512-1525.	2.5	54
11	Enhancement and Inhibition of Denitrification by Fluid-Flow and Dissolved Oxygen Flux To Stream Sediments. <i>Environmental Science & Technology</i> , 2008, 42, 119-125.	10.0	51
12	Universal scaling of dissolved oxygen distribution at the sediment-water interface: A power law. <i>Limnology and Oceanography</i> , 2005, 50, 1667-1676.	3.1	44
13	Temperature effects on growth and buoyancy of <i>Microcystis aeruginosa</i> . <i>Journal of Plankton Research</i> , 2018, 40, 16-28.	1.8	42
14	Small-scale fluid motion mediates growth and nutrient uptake of <i>Selenastrum capricornutum</i> . <i>Freshwater Biology</i> , 2006, 51, 999-1015.	2.4	38
15	Large eddy simulation of turbulence and solute transport in a forested headwater stream. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 146-167.	2.8	32
16	Microalga propels along vorticity direction in a shear flow. <i>Physical Review E</i> , 2013, 87, 052704.	2.1	31
17	Environmental drivers of denitrification rates and denitrifying gene abundances in channels and riparian areas. <i>Water Resources Research</i> , 2017, 53, 6523-6538.	4.2	31
18	Do Microscopic Organisms Feel Turbulent Flows?. <i>Environmental Science & Technology</i> , 2009, 43, 764-768.	10.0	29

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19	Intermittent flooding of organic-rich soil promotes the formation of denitrification hot moments and hot spots. <i>Ecosphere</i> , 2019, 10, e02549.	2.2	29
20	Abiotic controls on periphyton accrual and metabolism in streams: Scaling by dimensionless numbers. <i>Water Resources Research</i> , 2007, 43, .	4.2	26
21	Boundary mixing in a small stratified lake. <i>Water Resources Research</i> , 2004, 40, .	4.2	22
22	Increased Denitrification Rates Associated with Shifts in Prokaryotic Community Composition Caused by Varying Hydrologic Connectivity. <i>Frontiers in Microbiology</i> , 2017, 8, 2304.	3.5	22
23	A TEST OF SEVERAL EVAPORATION EQUATIONS FOR WATER TEMPERATURE SIMULATIONS IN LAKES. <i>Journal of the American Water Resources Association</i> , 1995, 31, 1023-1028.	2.4	21
24	Quantity-activity relationship of denitrifying bacteria and environmental scaling in streams of a forested watershed. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	21
25	Coupled Effects of Small-Scale Turbulence and Phytoplankton Biomass in a Small Stratified Lake. <i>Journal of Environmental Engineering, ASCE</i> , 2008, 134, 954-960.	1.4	21
26	Fluid Dynamics Impact on Bacterial Physiology: Biochemical Oxygen Demand. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 226-236.	1.4	20
27	Energy dissipation estimates in oscillating grid setup: LDV and PIV measurements. <i>Environmental Fluid Mechanics</i> , 2007, 7, 143-158.	1.6	20
28	Estimating and scaling stream ecosystem metabolism along channels with heterogeneous substrate. <i>Ecohydrology</i> , 2013, 6, 679-688.	2.4	19
29	Microalgal swimming signatures and neutral lipids production across growth phases. <i>Biotechnology and Bioengineering</i> , 2020, 117, 970-980.	3.3	17
30	A Desktop Apparatus for Studying Interactions Between Microorganisms and Small-Scale Fluid Motion. <i>Hydrobiologia</i> , 2006, 563, 431-443.	2.0	15
31	Scaling oxygen microprofiles at the sediment interface of deep stratified waters. <i>Geophysical Research Letters</i> , 2017, 44, 1340-1349.	4.0	15
32	Model development and verification for mass transport to <i>Escherichia coli</i> cells in a turbulent flow. <i>Water Resources Research</i> , 2007, 43, .	4.2	13
33	Incorporating Both Physical and Kinetic Limitations in Quantifying Dissolved Oxygen Flux to Aquatic Sediments. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 1304-1314.	1.4	13
34	Effect of Small-Scale Turbulence on the Growth and Metabolism of <i>Microcystis aeruginosa</i> . <i>Advances in Microbiology</i> , 2016, 06, 351-367.	0.6	13
35	Enhanced uptake of dissolved oxygen and glucose by <i>Escherichia coli</i> in a turbulent flow. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 643-655.	3.6	12
36	Algal swimming velocities signal fatty acid accumulation. <i>Biotechnology and Bioengineering</i> , 2013, 110, 143-152.	3.3	12

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37	Prediction of Glossosoma biomass spatial distribution in Valley Creek by field measurements and a three-dimensional turbulent open-channel flow model. <i>Water Resources Research</i> , 2015, 51, 1457-1471.	4.2	12
38	The Effects of Turbulence and Carbon Amendments on Nitrate Uptake and Microbial Gene Abundances in Stream Sediment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1289-1301.	3.0	12
39	Uptake of dissolved nickel by <i>Elodea canadensis</i> and epiphytes influenced by fluid flow conditions. <i>Hydrobiologia</i> , 2011, 658, 127-138.	2.0	11
40	StreamLab Collaboratory: Experiments, data sets, and research synthesis. <i>Water Resources Research</i> , 2013, 49, 1746-1752.	4.2	11
41	Kinetic responses of <i>Dunaliella</i> in moving fluids. <i>Biotechnology and Bioengineering</i> , 2010, 107, 65-75.	3.3	10
42	Influence of fluid motion on growth and vertical distribution of cyanobacterium <i>Microcystis aeruginosa</i> . <i>Aquatic Ecology</i> , 2016, 50, 639-652.	1.5	10
43	Investigating Abiotic Drivers for Vertical and Temporal Heterogeneities of Cyanobacteria Concentrations in Lakes Using a Seasonal In Situ Monitoring Station. <i>Water Resources Research</i> , 2019, 55, 954-972.	4.2	10
44	Vertical heterogeneities of cyanobacteria and microcystin concentrations in lakes using a seasonal In situ monitoring station. <i>Global Ecology and Conservation</i> , 2020, 21, e00838.	2.1	10
45	Measurement and Modeling of Denitrification in Sand-Bed Streams under Various Land Uses. <i>Journal of Environmental Quality</i> , 2014, 43, 1013-1023.	2.0	9
46	Microscale measurements reveal contrasting effects of photosynthesis and epiphytes on frictional drag on the surfaces of filamentous algae. <i>Freshwater Biology</i> , 2014, 59, 312-324.	2.4	9
47	Scaling <i>Glossosoma</i> (Trichoptera) density by abiotic variables in mountain streams. <i>Journal of the North American Benthological Society</i> , 2011, 30, 493-506.	3.1	8
48	Double-averaged rough-bed open-channel flow with high <i>Glossosoma</i> (Trichoptera: Glossosomatidae) abundance. <i>Environmental Fluid Mechanics</i> , 2013, 13, 257-278.	1.6	8
49	Photosynthetic oxygen flux by <i>Macrocystis pyrifera</i> : a mass transfer model with experimental validation. <i>Marine Ecology - Progress Series</i> , 2011, 434, 45-55.	1.9	8
50	Upscaling river biomass using dimensional analysis and hydrogeomorphic scaling. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	7
51	Segmentation of temperature microstructure. <i>Journal of Geophysical Research</i> , 2002, 107, 4-1-4-13.	3.3	6
52	Fluid motion mediates biochemical composition and physiological aspects in the green alga <i>Dunaliella primolecta</i> Butcher. <i>Limnology & Oceanography Fluids & Environments</i> , 2013, 3, 74-88.	1.7	6
53	Measurement and Scaling of Lake Surface Skin Temperatures. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
54	Effects of turbulence exposure on zebra mussel (<i>Dreissena polymorpha</i>) larval survival. <i>Aquatic Sciences</i> , 2018, 80, 1.	1.5	4

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55	Abiotic Drivers of a Deep Cyanobacteria Layer in a Stratified and Eutrophic Lake. <i>Water Resources Research</i> , 2021, 57, e2020WR027987.	4.2	4
56	Title is missing!. <i>Hydrobiologia</i> , 2002, 479, 63-68.	2.0	3
57	Advective velocity and energy dissipation rate in an oscillatory flow. <i>Water Research</i> , 2005, 39, 2569-2578.	11.3	3
58	A theoretical modeling framework for motile and colonial harmful algae. <i>Ecology and Evolution</i> , 2022, 12, .	1.9	3
59	Benthic Boundary Mixing in a Stratified Lake. , 2000, , 1.		2
60	Phosphorus Dynamics in Jessie Lake: Mass Flux Across the Sediment-Water Interface. <i>Lake and Reservoir Management</i> , 2004, 20, 333-346.	1.3	2
61	StreamLab Collaboratory: Experiments, data sets, and research synthesis. , 2013, 49, 1746.		1
62	The St. Anthony Falls Laboratory: 80 Years of Progress Part 2A Transition to Environmental Research. , 2018, , .		0
63	Ecological fluid mechanics: interaction between living organisms and environments. <i>Environmental Fluid Mechanics</i> , 0, , 1.	1.6	0