## Jorg Imberger

List of Publications by Year in descending order

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71102 71685 6,409 125 41 76 citations h-index g-index papers 127 127 127 3178 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	A new pseudo three-dimensional hydrodynamic model with Lagrangian vertical mixing and Eulerian horizontal mass exchange. Environmental Modelling and Software, 2021, 143, 105099.	4.5	6
2	Radiation and energy budget dynamics associated with a floating photovoltaic system. Water Research, 2021, 206, 117745.	11.3	7
3	Coupled reservoir-river systems: Lessons from an integrated aquatic ecosystem assessment. Journal of Environmental Management, 2020, 260, 110107.	7.8	21
4	A hierarchical modelling framework for assessing physical and biochemical characteristics of a regulated river. Ecological Modelling, 2018, 368, 78-93.	2.5	16
5	Wind Shielding Impacts on Water Quality in an Urban Reservoir. Water Resources Management, 2018, 32, 3549-3561.	3.9	10
6	Inclined gravity currents filling basins: the impact of peeling detrainment on transport andÂverticalÂstructure. Journal of Fluid Mechanics, 2017, 820, 400-423.	3.4	15
7	Using time scales to characterize phytoplankton assemblages in a deep subalpine lake during the thermal stratification period: <scp>L</scp> ake <scp>I</scp> seo, <scp>I</scp> taly. Water Resources Research, 2016, 52, 1762-1780.	4.2	26
8	Inclined gravity currents filling basins: The influence of Reynolds number on entrainment into gravity currents. Physics of Fluids, 2015, 27, 096602.	4.0	7
9	Modeling the impact of natural and anthropogenic nutrient sources on phytoplankton dynamics in a shallow coastal domain, Western Australia. Environmental Fluid Mechanics, 2014, 14, 87-111.	1.6	12
10	Horizontal transport, mixing and retention in a large, shallow estuary: RÃo de la Plata. Environmental Fluid Mechanics, 2014, 14, 1173-1197.	1.6	11
11	Physical and biological controls of algal blooms in the RÃo de la Plata. Environmental Fluid Mechanics, 2014, 14, 1199-1228.	1.6	12
12	Mitigating the effects of high biomass algal blooms on the drinking water intakes of the city of Buenos Aires, Argentina. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 705-719.	1.7	2
13	Influence of microscale turbulence on the phytoplankton of a temperate coastal embayment, Western Australia. Estuarine, Coastal and Shelf Science, 2014, 145, 80-95.	2.1	16
14	Observed relationships between microstructure patches and the gradient Richardson number in a thermally stratified lake. Environmental Fluid Mechanics, 2013, 13, 205-226.	1.6	7
15	The effect of land clearing on rainfall and fresh water resources in Western Australia: a multi-functional sustainability analysis. International Journal of Sustainable Development and World Ecology, 2013, 20, 549-563.	5.9	38
16	Environmental Hydraulics. , 2013, , 273-304.		0
17	Mixing of an interflow into the ambient water of Lake Iseo. Limnology and Oceanography, 2013, 58, 579-592.	3.1	27
18	Contributions of local knowledge to the physical limnology of Lake Como, Italy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6441-6445.	7.1	22

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19	Managing wastewater effluent to enhance aquatic receiving ecosystem productivity: A coastal lagoon in Western Australia. Journal of Environmental Management, 2012, 99, 52-60.	7.8	9
20	Mixing and flushing in the Persian Gulf (Arabian Gulf). Journal of Geophysical Research, 2011, 116, .	3.3	52
21	Pathways of multiple inflows into a stratified reservoir: Thomson Reservoir, Australia. Advances in Water Resources, 2011, 34, 551-561.	3.8	36
22	The management of Lake Burragorang in a changing climate: The application of the Index of Sustainable Functionality. Lake and Reservoir Management, 2011, 27, 70-86.	1.3	8
23	Benthic and interfacial mixing in a strongly-stratified estuary. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 791-798.	1.7	3
24	Near-Field Dilution Characteristics of a Negatively Buoyant Hypersaline Jet Generated by a Desalination Plant. Journal of Hydraulic Engineering, 2011, 137, 57-65.	1.5	34
25	Generalizations of the Wedderburn number: Parameterizing upwelling in stratified lakes. Limnology and Oceanography, 2010, 55, 1377-1389.	3.1	63
26	Nonlinear and weakly nonhydrostatic inviscid evolution of internal gravitational basinâ€scale waves in a large, deep lake: Lake Constance. Journal of Geophysical Research, 2010, 115, .	3.3	24
27	Variation of $\langle i \rangle p \langle  i \rangle CO \langle sub \rangle 2 \langle  sub \rangle$ in ocean surface water in response to the passage of a hurricane. Journal of Geophysical Research, 2010, 115, .	3.3	19
28	Evaluation of the intrusion generated by a submerged contact chamber of hypolimnetic oxygenator in a reservoir. International Journal of River Basin Management, 2009, 7, 415-422.	2.7	4
29	Using Impellers to Distribute Local Nutrient Loadings in a Stratified Lake: Lake Como, Italy. Journal of Hydraulic Engineering, 2009, 135, 564-574.	1.5	26
30	The role of zooplankton in the ecological succession of plankton and benthic algae across a salinity gradient in the Shark Bay solar salt ponds. Hydrobiologia, 2009, 626, 111-128.	2.0	10
31	A hydrostatic/non-hydrostatic grid-switching strategy for computing high-frequency, high wave number motions embedded in geophysical flows. Environmental Modelling and Software, 2009, 24, 473-488.	4.5	18
32	Heat and turbulent kinetic energy budgets for surface layer cooling induced by the passage of Hurricane Frances (2004). Journal of Geophysical Research, 2009, 114, .	3.3	68
33	Exchange between littoral and pelagic waters in a stratified lake due to wind-induced motions: Lake Kinneret, Israel. Hydrobiologia, 2008, 603, 25-51.	2.0	29
34	Phytoplankton patchiness and their role in the modelled productivity of a large, seasonally stratified lake. Ecological Modelling, 2008, 218, 49-59.	2.5	41
35	Effect of benthic boundary layer transport on the productivity of Mono Lake, California. Saline Systems, 2008, 4, 11.	2.0	7
36	Including drag and inertia in drifter modelling. Environmental Modelling and Software, 2008, 23, 714-728.	4.5	16

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37	Thermistor Chain Data Assimilation to Improve Hydrodynamic Modeling Skill in Stratified Lakes and Reservoirs. Journal of Hydraulic Engineering, 2008, 134, 1123-1135.	1.5	6
38	Time-Varying Underflow into a Continuous Stratification with Bottom Slope. Journal of Hydraulic Engineering, 2008, 134, 1191-1198.	1.5	22
39	The evolution of internal waves in a rotating, stratified, circular basin and the influence of weakly nonlinear and nonhydrostatic accelerations. Limnology and Oceanography, 2008, 53, 2738-2748.	3.1	32
40	Relative Buoyancy Dominates Thermal-Like Flow Interaction along an Incline. Journal of Hydraulic Engineering, 2008, 134, 636-643.	1.5	12
41	Influence of Wind and Lake Morphometry on the Interaction between Two Rivers Entering a Stratified Lake. Journal of Hydraulic Engineering, 2008, 134, 1579-1589.	1.5	28
42	Downscaling Model Resolution to Illuminate the Internal Wave Field in a Small Stratified Lake. Journal of Hydraulic Engineering, 2007, 133, 1206-1218.	1.5	11
43	Estimating in situ phytoplankton growth rates with a Lagrangian sampling strategy. Limnology and Oceanography: Methods, 2007, 5, 495-509.	2.0	9
44	Horizontal structure and excitation of primary motions in a strongly stratified lake. Limnology and Oceanography, 2007, 52, 2641-2655.	3.1	54
45	Influence of advection on scales of ecological studies in a coastal equilibrium flow. Continental Shelf Research, 2007, 27, 134-153.	1.8	16
46	Derivation of total diffuse attenuation coefficient from water column temperature data and meteorological water surface fluxes: A simple management tool. International Journal of River Basin Management, 2007, 5, 293-303.	2.7	0
47	Horizontal transport induced by upwelling in a canyon-shaped reservoir. Hydrobiologia, 2007, 586, 343-355.	2.0	24
48	Diapycnal Mixing in the Thermocline of Lakes: Estimations by Different Methods. Environmental Fluid Mechanics, 2006, 6, 227-240.	1.6	12
49	Dynamics of the benthic boundary layer in a strongly forced stratified lake. Hydrobiologia, 2006, 568, 217-233.	2.0	22
50	A numerical simulation of the role of zooplankton in C, N and P cycling in Lake Kinneret, Israel. Ecological Modelling, 2006, 193, 412-436.	2.5	143
51	Spatial structure of the dominant basin-scale internal waves in Lake Kinneret. Limnology and Oceanography, 2006, 51, 229-246.	3.1	60
52	Modifying the residence time and dilution capacity of a reservoir by altering internal flowâ€paths. International Journal of River Basin Management, 2006, 4, 255-271.	2.7	14
53	Effect of Long Internal Waves on the Quality of Water Withdrawn from a Stratified Reservoir. Journal of Hydraulic Engineering, 2006, 132, 1134-1145.	1.5	26
54	Bed roughness induced entrainment in a high Richardson number underflow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 725-738.	1.7	40

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55	Dynamics of a large tropical lake: Lake Maracaibo. Aquatic Sciences, 2005, 67, 337-349.	1.5	35
56	Modeling as a Tool for Nutrient Management in Lake Erie: a Hydrodynamics Study. Journal of Great Lakes Research, 2005, 31, 309-318.	1.9	70
57	Vertical eddy diffusivity estimations in Swan river estuary. Dynamics of Atmospheres and Oceans, 2005, 39, 175-187.	1.8	8
58	The temporal evolution of baroclinic basin-scale waves in a rotating circular basin. Journal of Fluid Mechanics, 2005, 523, 367-392.	3.4	14
59	Dynamics of a large tropical lake: Lake Maracaibo. Aquatic Sciences, 2005, 67, 337-349.	1.5	8
60	Basinâ€scale motion in stratified Upper Lake Constance. Limnology and Oceanography, 2004, 49, 919-933.	3.1	80
61	Baroclinic geostrophic adjustment in a rotating circular basin. Journal of Fluid Mechanics, 2004, 515, 63-86.	3.4	13
62	Physical Properties of Turbulent Benthic Boundary Layers Generated by Internal Waves. Journal of Hydraulic Engineering, 2004, 130, 58-69.	1.5	58
63	Modeling a Plunging Underflow. Journal of Hydraulic Engineering, 2004, 130, 1068-1076.	1.5	30
64	Simulating the thermal dynamics of Lake Kinneret. Ecological Modelling, 2003, 162, 69-86.	2.5	94
65	Modelling solitons under the hydrostatic and Boussinesq approximations. International Journal for Numerical Methods in Fluids, 2003, 43, 231-252.	1.6	10
66	Reducing Numerical Diffusion Effects with Pycnocline Filter. Journal of Hydraulic Engineering, 2003, 129, 215-224.	1.5	35
67	Modeling circulation in lakes: Spatial and temporal variations. Limnology and Oceanography, 2003, 48, 983-994.	3.1	150
68	The seasonal evolution of wind/internal wave resonance in Lake Kinneret. Limnology and Oceanography, 2003, 48, 2055-2061.	3.1	52
69	Coupling an Underflow Model to a Three-Dimensional Hydrodynamic Model. Journal of Hydraulic Engineering, 2003, 129, 748-757.	1.5	31
70	Horizontal transport and dispersion in the surface layer of a mediumâ€sized lake. Limnology and Oceanography, 2003, 48, 971-982.	3.1	51
71	Energy Partitioning and Horizontal Dispersion in a Stratified Rotating Lake*. Journal of Physical Oceanography, 2003, 33, 512-529.	1.7	40
72	Anatomy of turbulence in a narrow and strongly stratified estuary. Journal of Geophysical Research, 2002, 107, 7-1.	3.3	23

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73	Anatomy of turbulence in a narrow and weakly stratified estuary. Marine and Freshwater Research, 2002, 53, 757.	1.3	5
74	Biogeochemical response to physical forcing in the water column of a warm monomictic lake. Biogeochemistry, 2002, 61, 291-307.	3.5	49
75	Measurements of diapycnal diffusivities in stratified fluids. Journal of Fluid Mechanics, 2001, 442, 267-291.	3.4	103
76	Entrainment and Turbulence in Saline Underflow in Lake Ogawara. Journal of Hydraulic Engineering, 2001, 127, 937-948.	1.5	90
77	On internal waves near the high-frequency limit in an enclosed basin. Journal of Geophysical Research, 2001, 106, 22465-22474.	3.3	34
78	Mixing and turbulent fluxes in the metalimnion of a stratified lake. Limnology and Oceanography, 2001, 46, 392-409.	3.1	91
79	Determining Turbulent Kinetic Energy Dissipation from Batchelor Curve Fitting. Journal of Atmospheric and Oceanic Technology, 2001, 18, 100-113.	1.3	72
80	Energetics of long internal gravity waves in large lakes. Limnology and Oceanography, 2001, 46, 1760-1773.	3.1	101
81	Anatomy of turbulence in thermally stratified lakes. Limnology and Oceanography, 2001, 46, 1158-1170.	3.1	49
82	Simple Curvilinear Method for Numerical Methods of Open Channels. Journal of Hydraulic Engineering, 2001, 127, 949-958.	1.5	23
83	Modeling basinâ€scale internal waves in a stratified lake. Limnology and Oceanography, 2000, 45, 1603-1620.	3.1	316
84	Seasonal evolution of the basinâ€scale internal wave field in a large stratified lake. Limnology and Oceanography, 2000, 45, 1621-1638.	3.1	139
85	Internal wave weather in a stratified lake. Limnology and Oceanography, 1998, 43, 1780-1795.	3.1	106
86	Intertidal Motions within Deep Basin of Swan River Estuary. Journal of Hydraulic Engineering, 1997, 123, 863-873.	1.5	4
87	The initial response of a stratified lake to a surface shear stress. Journal of Fluid Mechanics, 1996, 312, 39-66.	3.4	121
88	Turbulence within inertia-buoyancy balanced axisymmetric intrusions. Journal of Geophysical Research, 1995, 100, 22649.	3.3	10
89	Downward propagating internal waves generated at the base of the surface layer of a stratified fluid. Geophysical Research Letters, 1994, 21, 361-364.	4.0	5
90	A three-dimensional numerical model of the response of the Australian North West Shelf to tropical cyclones. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1994, 36, 64-100.	0.2	4

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91	Structure of bubble plumes in linearly stratified environments. Journal of Fluid Mechanics, 1993, 249, 35.	3.4	203
92	Axisymmetric selective withdrawal in a rotating stratified fluid. Journal of Fluid Mechanics, 1993, 249, 287.	3.4	4
93	Energetic Bubble Plumes in Arbitrary Stratification. Journal of Hydraulic Engineering, 1993, 119, 680-703.	1.5	81
94	Axisymmetric Intrusive Gravity Currents in Linearly Stratified Fluids. Journal of Hydraulic Engineering, 1993, 119, 662-679.	1.5	41
95	Withdrawal of a stratified fluid from a rotating channel. Journal of Fluid Mechanics, 1992, 235, 643.	3.4	6
96	The influence of stratification on the ecological response of two Western Australian embayments to nutrient enrichment., 1992,, 829-850.		3
97	Experimental study of double-diffusive instability in sidewall heating. Journal of Fluid Mechanics, 1991, 222, 565.	3.4	36
98	A line sink in a rotating stratified fluid. Journal of Fluid Mechanics, 1991, 233, 349-368.	3.4	10
99	Convective motions in the sidearm of a small reservoir. Limnology and Oceanography, 1990, 35, 1676-1702.	3.1	196
100	Simulation of bubble plume destratification systems in reservoirs. Aquatic Sciences, 1989, 51, 3-18.	1.5	35
101	Turbulence and entrainment in a buoyant surface plume. Journal of Geophysical Research, 1989, 94, 12619-12636.	3.3	74
102	Physical Limnology. Advances in Applied Mechanics, 1989, , 303-475.	2.3	312
103	Characteristics of a surface buoyant jet. Journal of Geophysical Research, 1987, 92, 5435-5447.	3.3	131
104	Sidewall effects in a double diffusive system. Journal of Geophysical Research, 1987, 92, 6501-6514.	3.3	14
105	Mixing processes relevant to phytoplankton dynamics in lakes. New Zealand Journal of Marine and Freshwater Research, 1987, 21, 361-377.	2.0	102
106	Mixing in River Underflow. Journal of Hydraulic Engineering, 1987, 113, 697-715.	1.5	4
107	Circulation and mixing in Lake Rotongaio and Lake Okaro under conditions of light to moderate winds: Preliminary results. New Zealand Journal of Marine and Freshwater Research, 1987, 21, 515-519.	2.0	15
108	Scaling analysis of coral reef systems: an approach to problems of scale. Coral Reefs, 1987, 5, 171-181.	2.2	55

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109	Application of the Wigner–Ville Distribution to Temperature Gradient Microstructure: A New Technique to Study Small-Scale Variations. Journal of Physical Oceanography, 1986, 16, 1997-2012.	1.7	81
110	Modeling the diurnal mixed layer. Limnology and Oceanography, 1986, 31, 533-556.	3.1	130
111	Mixed layer dynamics in a lake exposed to a spatially variable wind field1. Limnology and Oceanography, 1985, 30, 473-488.	3.1	40
112	Matching Temperature and Conductivity Sensor Response Characteristics. Journal of Physical Oceanography, 1985, 15, 1557-1569.	1.7	84
113	Experimental study of high-Rayleigh-number convection in a horizontal cavity with different end temperatures. Journal of Fluid Mechanics, 1981, 109, 283-299.	3.4	64
114	A DYNAMIC RESERVOIR SIMULATION MODEL - DYRESM: 5. , 1981, , 310-361.		188
115	The classification of Mixed-Layer Dynamics of Lakes of Small to Medium Size. Journal of Physical Oceanography, 1980, 10, 1104-1121.	1.7	238
116	Unsteady natural convection in a rectangular cavity. Journal of Fluid Mechanics, 1980, 100, 65.	3.4	496
117	Collie River Underflow into the Wellington Reservoir. Journal of Hydraulic Engineering, 1979, 105, 533-545.	0.2	94
118	Dynamics of a Longitudinally Stratified Estuary. , 1977, , 3108.		0
119	Selective withdrawal from a finite rectangular tank. Journal of Fluid Mechanics, 1976, 78, 489-512.	3.4	93
120	Withdrawal of a stratified fluid from a vertical two-dimensional duct. Journal of Fluid Mechanics, 1975, 70, 321-332.	3.4	10
121	Closure to "Turbulent Entrainment in Buoy Ant Jets and Plumes― Journal of Hydraulic Engineering, 1975, 101, 617-620.	0.2	5
122	Jet Discharge into a Stratified Reservoir. Journal of Hydraulic Engineering, 1975, 101, 1211-1220.	0.2	7
123	Natural convection in a shallow cavity with differentially heated end walls. Part 3. Experimental results. Journal of Fluid Mechanics, 1974, 65, 247-260.	3.4	138
124	Two-dimensional sink flow of a stratified fluid contained in a duct. Journal of Fluid Mechanics, 1972, 53, 329-349.	3.4	35
125	Evaluation of Management Scenarios for Controlling Eutrophication in a Shallow Tropical Urban Lake. International Journal of Environmental Pollution and Remediation, 0, , .	0.0	1