

Francisco JosÃ© Rueda Valdivia

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3737792/publications.pdf>

Version: 2024-02-01

59
papers

1,523
citations

257450

24
h-index

330143

37
g-index

59
all docs

59
docs citations

59
times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
1	The residence time of river water in reservoirs. <i>Ecological Modelling</i> , 2006, 191, 260-274.	2.5	118
2	A multi-lake comparative analysis of the General Lake Model (GLM): Stress-testing across a global observatory network. <i>Environmental Modelling and Software</i> , 2018, 102, 274-291.	4.5	93
3	Implementing river water quality modelling issues in mesoscale watershed models for water policy demandsâ€”an overview on current concepts, deficits, and future tasks. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 725-737.	2.9	68
4	Mixing and circulation at the confluence of two rivers entering a meandering reservoir. <i>Water Resources Research</i> , 2013, 49, 1429-1445.	4.2	61
5	Dynamics of Large Polymictic Lake. II: Numerical Simulations. <i>Journal of Hydraulic Engineering</i> , 2003, 129, 92-101.	1.5	58
6	Mixing dynamics at the confluence of two large rivers undergoing weak density variations. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2386-2402.	2.6	52
7	Canopy development, photosynthesis and radiation-use efficiency in sunflower in response to nitrogen. <i>Field Crops Research</i> , 1994, 38, 15-27.	5.1	51
8	On the effects of topography on wind and the generation of currents in a large multi-basin lake. <i>Hydrobiologia</i> , 2005, 532, 139-151.	2.0	47
9	Basin-scale internal wave dynamics during a winter cooling period in a large lake. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	45
10	Pathways of river nutrients towards the euphotic zone in a deep-reservoir of small size: Uncertainty analysis. <i>Ecological Modelling</i> , 2007, 202, 345-361.	2.5	45
11	Sediment resuspension in two adjacent shallow coastal lakes: controlling factors and consequences on phosphate dynamics. <i>Aquatic Sciences</i> , 2010, 72, 21-31.	1.5	42
12	Hydraulic control of short-term successional changes in the phytoplankton assemblage in stratified reservoirs. <i>Ecological Engineering</i> , 2012, 44, 216-226.	3.6	40
13	The influence of flow inertia, buoyancy, wind, and flow unsteadiness on mixing at the asymmetrical confluence of two large rivers. <i>Journal of Hydrology</i> , 2016, 539, 11-26.	5.4	39
14	Pathways of river water to the surface layers of stratified reservoirs. <i>Limnology and Oceanography</i> , 2014, 59, 233-250.	3.1	38
15	Residence time of a freshwater embayment connected to a large lake. <i>Limnology and Oceanography</i> , 2005, 50, 1638-1653.	3.1	36
16	A calibration strategy for dynamic succession models including several phytoplankton groups. <i>Environmental Modelling and Software</i> , 2011, 26, 697-710.	4.5	35
17	Modelling the fate and transport of negatively buoyant stormâ€”river water in small multi-basin lakes. <i>Environmental Modelling and Software</i> , 2010, 25, 146-157.	4.5	33
18	Experimental observations of the splitting of a gravity current at a density step in a stratified water body. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1038-1053.	2.6	32

#	ARTICLE	IF	CITATIONS
19	MECHANISMS OF CONTAMINANT TRANSPORT IN A MULTI-BASIN LAKE. <i>Ecological Applications</i> , 2008, 18, A72-88.	3.8	30
20	Hydrodynamic states in a wind-driven microtidal estuary (Alfacs Bay). <i>Journal of Sea Research</i> , 2014, 85, 263-276.	1.6	30
21	The seasonal evolution of high vertical-mode internal waves in a deep reservoir. <i>Limnology and Oceanography</i> , 2007, 52, 2656-2667.	3.1	29
22	A hydrodynamics-based approach to evaluating the risk of waterborne pathogens entering drinking water intakes in a large, stratified lake. <i>Water Research</i> , 2015, 83, 227-236.	11.3	29
23	The influence of external perturbations on the functional composition of phytoplankton in a Mediterranean reservoir. <i>Hydrobiologia</i> , 2009, 636, 49-64.	2.0	27
24	Wind-driven nearshore sediment resuspension in a deep lake during winter. <i>Water Resources Research</i> , 2014, 50, 8826-8844.	4.2	27
25	Mixing and stratification in lakes of varying horizontal length scales: Scaling arguments and energy partitioning. <i>Limnology and Oceanography</i> , 2009, 54, 2003-2017.	3.1	26
26	Dynamics of Large Polymictic Lake. I: Field Observations. <i>Journal of Hydraulic Engineering</i> , 2003, 129, 82-91.	1.5	25
27	Flow paths and spatial heterogeneity of stream inflows in a small multibasin lake. <i>Limnology and Oceanography</i> , 2009, 54, 2041-2057.	3.1	24
28	Surface seiches in lakes of complex geometry. <i>Limnology and Oceanography</i> , 2002, 47, 906-910.	3.1	21
29	Quantitative Comparison of Models for Barotropic Response of Homogeneous Basins. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 201-213.	1.5	20
30	Exchange between a freshwater embayment and a large lake through a long, shallow channel. <i>Limnology and Oceanography</i> , 2005, 50, 169-183.	3.1	20
31	Baroclinic stability for a family of two-level, semi-implicit numerical methods for the 3D shallow water equations. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 54, 237-268.	1.6	18
32	A coupled bubble plume-reservoir model for hypolimnetic oxygenation. <i>Water Resources Research</i> , 2010, 46, .	4.2	18
33	State-of-the-art and recent progress in phytoplankton succession modelling. <i>Environmental Reviews</i> , 2010, 18, 423-440.	4.5	17
34	Localized algal blooms induced by river inflows in a canyon type reservoir. <i>Aquatic Sciences</i> , 2012, 74, 315-327.	1.5	17
35	Modeling the effect of size reduction on the stratification of a large wind-driven lake using an uncertainty-based approach. <i>Water Resources Research</i> , 2009, 45, .	4.2	15
36	Spatial distribution of phytoplankton cells in small elongated lakes subject to weak diurnal wind forcing. <i>Aquatic Sciences</i> , 2014, 76, 83-99.	1.5	15

#	ARTICLE	IF	CITATIONS
37	Low predictability in the dynamics of shallow lakes: Implications for their management and restoration. <i>Wetlands</i> , 2006, 26, 928-938.	1.5	14
38	Climate-driven trends in the streamflow records of a reference hydrologic network in Southern Spain. <i>Journal of Hydrology</i> , 2018, 566, 55-72.	5.4	14
39	Implications of seston settling on phosphorus dynamics in three reservoirs of contrasting trophic state. <i>Fundamental and Applied Limnology</i> , 2008, 170, 263-272.	0.7	13
40	Propagation of uncertainty in ecological models of reservoirs: From physical to population dynamic predictions. <i>Ecological Modelling</i> , 2012, 247, 199-209.	2.5	13
41	A 3D individual-based aquatic transport model for the assessment of the potential dispersal of planktonic larvae of an invasive bivalve. <i>Journal of Environmental Management</i> , 2014, 145, 330-340.	7.8	13
42	The effects of diel changes in circulation and mixing on the longitudinal distribution of phytoplankton in a canyon-shaped Mediterranean reservoir. <i>Freshwater Biology</i> , 2010, 55, 1945-1957.	2.4	12
43	Characterization of residence time variability in a managed monomictic reservoir. <i>Water Resources Research</i> , 2012, 48, .	4.2	12
44	Evaluation of a nested-grid implementation for 3D finite-difference semi-implicit hydrodynamic models. <i>Environmental Modelling and Software</i> , 2015, 64, 241-262.	4.5	12
45	Spatial and temporal scales of transport during the cooling phase of the ice-free period in a small high-mountain lake. <i>Aquatic Sciences</i> , 2007, 69, 115-128.	1.5	11
46	Numerical investigation of split flows by gravity currents into two-layered stratified water bodies. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5254-5271.	2.6	10
47	Semi-implicit two-level predictor-corrector methods for non-linearly coupled, hydrostatic, barotropic/baroclinic flows. <i>International Journal of Computational Fluid Dynamics</i> , 2008, 22, 593-607.	1.2	9
48	Sensitivity and uncertainty analysis in agro-hydrological modelling of drip fertigated lettuce crops under Mediterranean conditions. <i>Computers and Electronics in Agriculture</i> , 2019, 162, 630-650.	7.7	9
49	Seasonal scale modeling of river inflows in stratified reservoirs: Structural vs. parametric uncertainty in inflow mixing. <i>Environmental Modelling and Software</i> , 2014, 60, 84-98.	4.5	7
50	Hydrodynamic Drivers of Juvenile-Salmon Out-Migration in the Sacramento River: Secondary Circulation. <i>Journal of Hydraulic Engineering</i> , 2018, 144, .	1.5	7
51	Local dispersion of nonmotile invasive bivalve species by wind-driven lake currents. <i>Limnology and Oceanography</i> , 2015, 60, 446-462.	3.1	6
52	Scalable parallel implementation for 3D semi-implicit hydrodynamic models of shallow waters. <i>Environmental Modelling and Software</i> , 2015, 73, 201-217.	4.5	5
53	Mixing and internal dynamics of a medium-size and deep lake near the Arctic Circle. <i>Limnology and Oceanography</i> , 2019, 64, 61-80.	3.1	5
54	Inflow Dynamics in Weakly Stratified Lakes Subject to Large Isopycnal Displacements. <i>Water Resources Research</i> , 2020, 56, e2019WR026578.	4.2	5

#	ARTICLE	IF	CITATIONS
55	Simulation of Turbulent Flows in River Confluences and Meandering Channels with a Cartesian 3D Free Surface Hydrodynamic Model. International Journal of Computational Methods, 2015, 12, 1550035.	1.3	4
56	Inflow–outflow boundary conditions along arbitrary directions in Cartesian lake models. Computers and Geosciences, 2015, 74, 87-96.	4.2	1
57	Fate of Artificially Injected Oxygen in the Hypolimnion of a Two-Basin Lake: Amisk Lake, Revisited. Water Resources Research, 2021, 57, e2020WR028840.	4.2	0
58	Circulation and Exchange in a Small Subembayment of Lake Ontario. , 2002, , .		0
59	Process oriented modeling of Lake Ontario hydrodynamics. , 2010, , 381-386.		0