

# Francisco JosÃ© Rueda Valdivia

## List of Publications by Year in descending order

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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  | Fate of Artificially Injected Oxygen in the Hypolimnion of a Two-Basin Lake: Amisk Lake, Revisited. <i>Water Resources Research</i> , 2021, 57, e2020WR028840.   | 4.2  | 0         |
| 2  | Inflow Dynamics in Weakly Stratified Lakes Subject to Large Isopycnal Displacements. <i>Water Resources Research</i> , 2020, 56, e2019WR026578.  | 4.2  | 5         |
| 3  | 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         |
| 4  | 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         |
| 5  | 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        |
| 6  | 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        |
| 7  | Hydrodynamic Drivers of Juvenile-Salmon Out-Migration in the Sacramento River: Secondary Circulation. <i>Journal of Hydraulic Engineering</i> , 2018, 144, .   | 1.5  | 7         |
| 8  | 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        |
| 9  | 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        |
| 10 | Simulation of Turbulent Flows in River Confluences and Meandering Channels with a Cartesian 3D Free Surface Hydrodynamic Model. <i>International Journal of Computational Methods</i> , 2015, 12, 1550035. | 1.3  | 4         |
| 11 | 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         |
| 12 | Inflow-outflow boundary conditions along arbitrary directions in Cartesian lake models. <i>Computers and Geosciences</i> , 2015, 74, 87-96.  | 4.2  | 1         |
| 13 | 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        |
| 14 | Local dispersion of nonmotile invasive bivalve species by wind-driven lake currents. <i>Limnology and Oceanography</i> , 2015, 60, 446-462.  | 3.1  | 6         |
| 15 | 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        |
| 16 | Wind-driven nearshore sediment resuspension in a deep lake during winter. <i>Water Resources Research</i> , 2014, 50, 8826-8844.   | 4.2  | 27        |
| 17 | Hydrodynamic states in a wind-driven microtidal estuary (Alfacs Bay). <i>Journal of Sea Research</i> , 2014, 85, 263-276.  | 1.6  | 30        |
| 18 | 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        |

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| 19 | 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         |
| 20 | 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        |
| 21 | 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        |
| 22 | 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        |
| 23 | Pathways of river water to the surface layers of stratified reservoirs. <i>Limnology and Oceanography</i> , 2014, 59, 233-250.  | 3.1 | 38        |
| 24 | 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        |
| 25 | 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        |
| 26 | Characterization of residence time variability in a managed monomictic reservoir. <i>Water Resources Research</i> , 2012, 48, .   | 4.2 | 12        |
| 27 | 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        |
| 28 | Localized algal blooms induced by river inflows in a canyon type reservoir. <i>Aquatic Sciences</i> , 2012, 74, 315-327.  | 1.5 | 17        |
| 29 | A calibration strategy for dynamic succession models including several phytoplankton groups. <i>Environmental Modelling and Software</i> , 2011, 26, 697-710.   | 4.5 | 35        |
| 30 | 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        |
| 31 | Modelling the fate and transport of negatively buoyant stormwater river water in small multi-basin lakes. <i>Environmental Modelling and Software</i> , 2010, 25, 146-157.                                | 4.5 | 33        |
| 32 | 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        |
| 33 | A coupled bubble plume reservoir model for hypolimnetic oxygenation. <i>Water Resources Research</i> , 2010, 46, .  | 4.2 | 18        |
| 34 | State-of-the-art and recent progress in phytoplankton succession modelling. <i>Environmental Reviews</i> , 2010, 18, 423-440.   | 4.5 | 17        |
| 35 | Process oriented modeling of Lake Ontario hydrodynamics. , 2010, , 381-386.   |     | 0         |
| 36 | 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        |

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|----|--|-----|-----------|
| 37 | 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        |
| 38 | 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        |
| 39 | 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        |
| 40 | 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        |
| 41 | MECHANISMS OF CONTAMINANT TRANSPORT IN A MULTI-BASIN LAKE. <i>Ecological Applications</i> , 2008, 18, A72-88.  | 3.8 | 30        |
| 42 | 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         |
| 43 | 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        |
| 44 | 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        |
| 45 | 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        |
| 46 | 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        |
| 47 | Low predictability in the dynamics of shallow lakes: Implications for their management and restoration. <i>Wetlands</i> , 2006, 26, 928-938.   | 1.5 | 14        |
| 48 | The residence time of river water in reservoirs. <i>Ecological Modelling</i> , 2006, 191, 260-274.   | 2.5 | 118       |
| 49 | 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        |
| 50 | Residence time of a freshwater embayment connected to a large lake. <i>Limnology and Oceanography</i> , 2005, 50, 1638-1653.   | 3.1 | 36        |
| 51 | 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        |
| 52 | Implementing river water quality modelling issues in mesoscale watershed models for water policy demands—an overview on current concepts, deficits, and future tasks. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 725-737. | 2.9 | 68        |
| 53 | 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        |
| 54 | Dynamics of Large Polymictic Lake. II: Numerical Simulations. <i>Journal of Hydraulic Engineering</i> , 2003, 129, 92-101.   | 1.5 | 58        |

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|----|--|-----|-----------|
| 55 | Dynamics of Large Polymictic Lake. I: Field Observations. Journal of Hydraulic Engineering, 2003, 129, 82-91.                                | 1.5 | 25        |
| 56 | Quantitative Comparison of Models for Barotropic Response of Homogeneous Basins. Journal of Hydraulic Engineering, 2002, 128, 201-213.       | 1.5 | 20        |
| 57 | Surface seiches in lakes of complex geometry. Limnology and Oceanography, 2002, 47, 906-910.   | 3.1 | 21        |
| 58 | Circulation and Exchange in a Small Subembayment of Lake Ontario. , 2002, , .  |     | 0         |
| 59 | Canopy development, photosynthesis and radiation-use efficiency in sunflower in response to nitrogen. Field Crops Research, 1994, 38, 15-27. | 5.1 | 51        |