

# XinJian Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

373  
citations

687363

13  
h-index

794594

19  
g-index

31  
all docs

31  
docs citations

31  
times ranked

278  
citing authors

#	ARTICLE	IF	CITATIONS
1	A fully hydrodynamic model for three-dimensional, free-surface flows. <i>International Journal for Numerical Methods in Fluids</i> , 2003, 42, 929-952.	1.6	62
2	Response Times of Salinity in Relation to Changes in Freshwater Inflows in the Lower Hillsborough River, Florida. <i>Estuaries and Coasts</i> , 2000, 23, 735.	1.7	38
3	A free-surface correction method for simulating shallow water flows. <i>Journal of Computational Physics</i> , 2003, 189, 557-578.	3.8	32
4	Modeling hydrodynamics and salt transport in the Alafia River estuary, Florida during May 1999â€”December 2001. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 61, 477-490.	2.1	28
5	Three-Dimensional Modeling of Sediment and Phosphorus Dynamics in Lake Okeechobee, Florida: Spring 1989 Simulation. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 359-374.	1.4	26
6	A laterally averaged two-dimensional trajectory model for estimating transport time scales in the Alafia River estuary, Florida. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 75, 358-370.	2.1	21
7	Estimating river flow effects on water ages by hydrodynamic modeling in Little Manatee River estuary, Florida, USA. <i>Environmental Fluid Mechanics</i> , 2010, 10, 197-211.	1.6	20
8	An efficient finite difference scheme for free-surface flows in narrow rivers and estuaries. <i>International Journal for Numerical Methods in Fluids</i> , 2003, 42, 233-247.	1.6	18
9	Critical Flow for Water Management in a Shallow Tidal River Based on Estuarine Residence Time. <i>Water Resources Management</i> , 2011, 25, 2367-2385.	3.9	18
10	Using a piecewise linear bottom to fit the bed variation in a laterally averaged, z-co-ordinate hydrodynamic model. <i>International Journal for Numerical Methods in Fluids</i> , 2004, 44, 1185-1205.	1.6	17
11	A Cartesian method for fitting the bathymetry and tracking the dynamic position of the shoreline in a three-dimensional, hydrodynamic model. <i>Journal of Computational Physics</i> , 2004, 200, 749-768.	3.8	17
12	A comparison of hydrostatic and nonhydrostatic pressure components in seiche oscillations. <i>Mathematical and Computer Modelling</i> , 2005, 41, 887-902.	2.0	14
13	Dynamic coupling of a three-dimensional hydrodynamic model with a laterally averaged, two-dimensional hydrodynamic model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	13
14	A three-dimensional hydrodynamic model for shallow waters using unstructured Cartesian grids. <i>International Journal for Numerical Methods in Fluids</i> , 2011, 66, 885-905.	1.6	9
15	Simulating hydrodynamics in a spring-fed estuary using a three-dimensional unstructured Cartesian grid model. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 115, 246-259.	2.1	8
16	A sensitivity analysis of low salinity habitats simulated by a hydrodynamic model in the Manatee River estuary in Florida, USA. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 104-105, 80-90.	2.1	8
17	Modeling Phosphorus Dynamics in a Shallow Lake During an Episodic Event. <i>Lake and Reservoir Management</i> , 2003, 19, 323-340.	1.3	5
18	Modeling and Mapping to Assess Spatial Distributions and Population Numbers of Fish and Invertebrate Species in the Lower Peace River and Charlotte Harbor, Florida. <i>Marine and Coastal Fisheries</i> , 2019, 11, 328-350.	1.4	5

#	ARTICLE	IF	CITATIONS
19	Coupling an unstructured grid three-dimensional model with a laterally averaged two-dimensional model for shallow water hydrodynamics and transport processes. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 1468-1489.	1.6	4
20	Habitat Suitability Modeling and Mapping to Assess the Influence of Freshwater Withdrawals on Spatial Distributions and Population Numbers of Estuarine Species in the Lower Peace River and Charlotte Harbor, Florida. <i>Marine and Coastal Fisheries</i> , 2021, 13, 13-40.	1.4	3
21	Responses of a Hybrid z-Level Model to Various Topography Treatment Methods for a Boundary Value Problem and an Initial Value Problem. , 2002, , 614.		2
22	Estimate Submarine Groundwater Discharge to Crystal River/Kings Bay in Florida with the Help of a Hydrodynamic Model. <i>Journal of Marine Science and Engineering</i> , 2014, 2, 66-80.	2.6	2
23	Hydrodynamic modeling of salinity habitat changes with reduced submarine groundwater discharges in a spring-fed estuary. <i>Regional Studies in Marine Science</i> , 2021, 43, 101674.	0.7	1
24	A study of effects of reduction of submarine groundwater discharge on thermal habitats for manatee in a spring-fed estuary using a laterally averaged hydrodynamic model. <i>Ecological Modelling</i> , 2021, 456, 109653.	2.5	1
25	Hydrodynamic Simulations of Charlotte Harbor and its Major Tributaries in Florida Using a Dynamically Coupled 3D - 2DV model. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 246, 107026.	2.1	1
26	Coupling a 3D Model With a 2DV Model Using a Free-Surface Correction Method. , 2004, , 769.		0
27	Simulating Hydrodynamics in the Manatee and Braden River Estuaries in Southwest Florida Using a Multi-Block Model. , 2008, , .		0
28	Responses of Simulated Low Salinity Habitats to the Uncertainties of Gauged and Ungauged Flows in the Myakka River Estuary in Florida. , 2012, , .		0
29	Evaluating the Response of the Residence Time to Flow in the Lower Peace River Estuary in Florida, USA. , 2013, , .		0
30	Fitting topography and shorelines in a 3D, Cartesian-grid model for free-surface flows. , 2003, , 1892-1895.		0
31	Calibration and Verification of a Hydrodynamic Model for a Narrow Estuary Receiving Submarine Groundwater Discharges. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 808.	2.6	0