XinJian Chen

List of Publications by Year
in descending order

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	Calibration and Verification of a Hydrodynamic Model for a Narrow Estuary Receiving Submarine Groundwater Discharges. Journal of Marine Science and Engineering, 2022, 10, 808.	2.6	0
2	Coupling an unstructured grid three‐dimensional model with a laterally averaged two‐dimensional model for shallow water hydrodynamics and transport processes. International Journal for Numerical Methods in Fluids, 2021, 93, 1468-1489.	1.6	4
3	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. Marine and Coastal Fisheries, 2021, 13, 13-40.	1.4	3
4	Hydrodynamic modeling of salinity habitat changes with reduced submarine groundwater discharges in a spring-fed estuary. Regional Studies in Marine Science, 2021, 43, 101674.	0.7	1
5	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. Ecological Modelling, 2021, 456, 109653.	2.5	1
6	Hydrodynamic Simulations of Charlotte Harbor and its Major Tributaries in Florida Using a Dynamically Coupled 3D – 2DV model. Estuarine, Coastal and Shelf Science, 2020, 246, 107026.	2.1	1
7	Modeling and Mapping to Assess Spatial Distributions and Population Numbers of Fish and Invertebrate Species in the Lower Peace River and Charlotte Harbor, Florida. Marine and Coastal Fisheries, 2019, 11, 328-350.	1.4	5
8	Estimate Submarine Groundwater Discharge to Crystal River/Kings Bay in Florida with the Help of a Hydrodynamic Model. Journal of Marine Science and Engineering, 2014, 2, 66-80.	2.6	2
9	Evaluating the Response of the Residence Time to Flow in the Lower Peace River Estuary in Florida, USA. , 2013, , .		0
10	Simulating hydrodynamics in a spring-fed estuary using a three-dimensional unstructured Cartesian grid model. Estuarine, Coastal and Shelf Science, 2012, 115, 246-259.	2.1	8
11	Responses of Simulated Low Salinity Habitats to the Uncertainties of Gauged and Ungauged Flows in the Myakka River Estuary in Florida. , 2012, , .		0
12	A sensitivity analysis of low salinity habitats simulated by a hydrodynamic model in the Manatee River estuary in Florida, USA. Estuarine, Coastal and Shelf Science, 2012, 104-105, 80-90.	2.1	8
13	Critical Flow for Water Management in a Shallow Tidal River Based on Estuarine Residence Time. Water Resources Management, 2011, 25, 2367-2385.	3.9	18
14	A three‐dimensional hydrodynamic model for shallow waters using unstructured Cartesian grids. International Journal for Numerical Methods in Fluids, 2011, 66, 885-905.	1.6	9
15	Estimating river flow effects on water ages by hydrodynamic modeling in Little Manatee River estuary, Florida, USA. Environmental Fluid Mechanics, 2010, 10, 197-211.	1.6	20
16	Simulating Hydrodynamics in the Manatee and Braden River Estuaries in Southwest Florida Using a Multi-Block Model. , 2008, , .		0
17	Dynamic coupling of a three‐dimensional hydrodynamic model with a laterally averaged, two‐dimensional hydrodynamic model. Journal of Geophysical Research, 2007, 112, .	3.3	13
18	A laterally averaged two-dimensional trajectory model for estimating transport time scales in the Alafia River estuary, Florida. Estuarine, Coastal and Shelf Science, 2007, 75, 358-370.	2.1	21

#	Article	IF	Citations
19	A comparison of hydrostatic and nonhydrostatic pressure components in seiche oscillations. Mathematical and Computer Modelling, 2005, 41, 887-902.	2.0	14
20	Three-Dimensional Modeling of Sediment and Phosphorus Dynamics in Lake Okeechobee, Florida: Spring 1989 Simulation. Journal of Environmental Engineering, ASCE, 2005, 131, 359-374.	1.4	26
21	Modeling hydrodynamics and salt transport in the Alafia River estuary, Florida during May 1999â€"December 2001. Estuarine, Coastal and Shelf Science, 2004, 61, 477-490.	2.1	28
22	Using a piecewise linear bottom to fit the bed variation in a laterally averaged,z-co-ordinate hydrodynamic model. International Journal for Numerical Methods in Fluids, 2004, 44, 1185-1205.	1.6	17
23	A Cartesian method for fitting the bathymetry and tracking the dynamic position of the shoreline in a three-dimensional, hydrodynamic model. Journal of Computational Physics, 2004, 200, 749-768.	3.8	17
24	Coupling a 3D Model With a 2DV Model Using a Free-Surface Correction Method. , 2004, , 769.		0
25	An efficient finite difference scheme for free-surface flows in narrow rivers and estuaries. International Journal for Numerical Methods in Fluids, 2003, 42, 233-247.	1.6	18
26	A fully hydrodynamic model for three-dimensional, free-surface flows. International Journal for Numerical Methods in Fluids, 2003, 42, 929-952.	1.6	62
27	A free-surface correction method for simulating shallow water flows. Journal of Computational Physics, 2003, 189, 557-578.	3.8	32
28	Modeling Phosphorus Dynamics in a Shallow Lake During an Episodic Event. Lake and Reservoir Management, 2003, 19, 323-340.	1.3	5
29	Fitting topography and shorelines in a 3D, Cartesian-grid model for free-surface flows. , 2003, , 1892-1895.		0
30	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
31	Response Times of Salinity in Relation to Changes in Freshwater Inflows in the Lower Hillsborough River, Florida. Estuaries and Coasts, 2000, 23, 735.	1.7	38