

Peng Hu

List of Publications by Year in descending order

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papers

564
citations

623734

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43
all docs

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docs citations

43
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375
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modelling of turbidity currents in the Xiaolangdi reservoir, Yellow River, China. <i>Journal of Hydrology</i> , 2012, 464-465, 41-53.	5.4	58
2	Fully coupled mathematical modeling of turbidity currents over erodible bed. <i>Advances in Water Resources</i> , 2009, 32, 1-15.	3.8	51
3	Hydrodynamics of Gravity Currents Down a Ramp in Linearly Stratified Environments. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	1.5	37
4	Multiple Time Scales of Fluvial Processes with Bed Load Sediment and Implications for Mathematical Modeling. <i>Journal of Hydraulic Engineering</i> , 2011, 137, 267-276.	1.5	36
5	Well-balanced numerical modelling of non-uniform sediment transport in alluvial rivers. <i>International Journal of Sediment Research</i> , 2015, 30, 117-130.	3.5	35
6	Computationally efficient modeling of hydro-sediment-morphodynamic processes using a hybrid local time step/global maximum time step. <i>Advances in Water Resources</i> , 2019, 127, 26-38.	3.8	34
7	Numerical modelling of riverbed grain size stratigraphic evolution. <i>International Journal of Sediment Research</i> , 2014, 29, 329-343.	3.5	26
8	Numerical simulation of dam-break flow and bed change considering the vegetation effects. <i>International Journal of Sediment Research</i> , 2017, 32, 105-120.	3.5	25
9	Non-capacity or capacity model for fluvial sediment transport. <i>Water Management</i> , 2012, 165, 193-211.	1.2	24
10	Well-balanced and flexible morphological modeling of swash hydrodynamics and sediment transport. <i>Coastal Engineering</i> , 2015, 96, 27-37.	4.0	19
11	Non-capacity transport of non-uniform bed load sediment in alluvial rivers. <i>Journal of Mountain Science</i> , 2016, 13, 377-396.	2.0	18
12	Investigations of dynamic behaviors of lock-exchange turbidity currents down a slope based on direct numerical simulation. <i>Advances in Water Resources</i> , 2018, 119, 164-177.	3.8	16
13	Is it appropriate to model turbidity currents with the three-equation model?. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1153-1170.	2.8	15
14	Improved Local Time Step for 2D Shallow-Water Modeling Based on Unstructured Grids. <i>Journal of Hydraulic Engineering</i> , 2019, 145, .	1.5	15
15	Separation of particle-laden gravity currents down a slope in linearly stratified environments. <i>Physics of Fluids</i> , 2019, 31, .	4.0	15
16	Unified Model of Sediment Transport Threshold and Rate Across Weak and Intense Subaqueous Bedload, Windblown Sand, and Windblown Snow. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005859.	2.8	15
17	Numerical investigation of a sandbar formation and evolution in a tide-dominated estuary using a hydro-morphodynamic model. <i>Coastal Engineering Journal</i> , 2018, 60, 466-483.	1.9	14
18	Reconciled bedload sediment transport rates in ephemeral and perennial rivers. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 1655-1665.	2.5	13

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19	Front Velocity and Front Location of Lock-Exchange Gravity Currents Descending a Slope in a Linearly Stratified Environment. <i>Journal of Hydraulic Engineering</i> , 2018, 144, .	1.5	12
20	Role of barâ€channel interactions in a dominant branch shift: The Taipingkou waterway, Yangtze River, China. <i>River Research and Applications</i> , 2021, 37, 494-508.	1.7	12
21	Modeling of Breaching Due to Overtopping Flow and Waves Based on Coupled Flow and Sediment Transport. <i>Water (Switzerland)</i> , 2015, 7, 4283-4304.	2.7	10
22	Fluid-particle interaction regimes during the evolution of turbidity currents from a coupled LES/DEM model. <i>Advances in Water Resources</i> , 2022, 163, 104171.	3.8	9
23	Numerical modeling of the propagation and morphological changes of turbidity currents using a cost-saving strategy of solution updating. <i>International Journal of Sediment Research</i> , 2020, 35, 587-599.	3.5	7
24	Well-balanced two-dimensional coupled modelling of submarine turbidity currents. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2012, 165, 169-188.	0.2	6
25	Limitations of empirical sediment transport formulas for shallow water and their consequences for swash zone modelling. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 114-120.	1.7	6
26	Layer-averaged numerical study on effect of Reynolds number on turbidity currents. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020, 58, 628-637.	1.7	4
27	A Numerical Study on Impacts of Sediment Erosion/Deposition on Debris Flow Propagation. <i>Water (Switzerland)</i> , 2021, 13, 1698.	2.7	4
28	Comment on "Long waves in erodible channels and morphodynamic influence" by Stefano Lanzoni et al.. <i>Water Resources Research</i> , 2008, 44, .	4.2	3
29	Numerical analysis of adaptation-to-capacity length for fluvial sediment transport. <i>Journal of Mountain Science</i> , 2014, 11, 1491-1498.	2.0	3
30	Experiments on gravity currents down a ramp in unstratified and linearly stratified salt water environments. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2016, 46, 570-578.	0.5	3
31	A new two-phase shallow water hydro-sediment-morphodynamic model based on the HLLC solver and the hybrid LTS/GMaTS approach. <i>Advances in Water Resources</i> , 2022, 166, 104254.	3.8	3
32	A Well-Balanced and Fully Coupled Noncapacity Model for Dam-Break Flooding. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-13.	1.1	2
33	Analytical model for lateral depth-averaged velocity distributions in curved channels. <i>Water Management</i> , 2021, 174, 99-108.	1.2	2
34	A hybrid first-order and WENO scheme for the high-resolution and computationally efficient modeling of pollutant transport. <i>Computers and Fluids</i> , 2021, 225, 104951.	2.5	2
35	Porous Shallow Water Modeling for Urban Floods in the Zhoushan City, China. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	2
36	A New Strength Criterion for Frozen Clay Considering Temperature Effect. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018, , 1340-1344.	0.1	2

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37	A GPU-Accelerated and LTS-Based Finite Volume Shallow Water Model. <i>Water (Switzerland)</i> , 2022, 14, 922.	2.7	2
38	Multiple time scales of fluvial processes – theory and applications. <i>Theoretical and Applied Mechanics Letters</i> , 2011, 1, 052001.	2.8	1
39	A 2D well-balanced, coupled model of water flow, sediment transport, and bed evolution based on unstructured grids with efficient variable storage strategy. <i>International Journal of Sediment Research</i> , 2021, 36, 151-160.	3.5	1
40	A Computationally Efficient Shallow Water Model for Mixed Cohesive and Non-Cohesive Sediment Transport in the Yangtze Estuary. <i>Water (Switzerland)</i> , 2021, 13, 1435.	2.7	1
41	Dredging Volume Estimation and Dredging Timing for Waterway Maintenance: A Case Study Using a Depth-Averaged Hydrosediment–Morphodynamic Model with Transient Dredging Effects. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2022, 148, .	1.2	1
42	Multiple Time Scales and Coupled Mathematical Modeling of Turbidity Currents. , 2008, , .		0
43	Experimental Study on the Strength Characteristics of Frozen Clay on ĩ€ Plane. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018, , 1394-1398.	0.1	0