List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Hydrodynamics of horizontal heated buoyant jet in linearly stratified fluids. Physics of Fluids, 2022, 34, 025108. | 4.0 | 0 |
| 2 | A GPU-Accelerated and LTS-Based Finite Volume Shallow Water Model. Water (Switzerland), 2022, 14, 922. | 2.7 | 2 |
| 3 | Impacts of River Discharge on the Sea Temperature in Changjiang Estuary and Its Adjacent Sea. Journal of Marine Science and Engineering, 2022, 10, 343. | 2.6 | 0 |
| 4 | Fluid-particle interaction regimes during the evolution of turbidity currents from a coupled LES/DEM model. Advances in Water Resources, 2022, 163, 104171. | 3.8 | 9 |
| 5 | Propagation, mixing, and turbulence characteristics of saline and turbidity currents over rough and permeable/impermeable beds. Physics of Fluids, 2022, 34, . | 4.0 | 8 |
| 6 | Grain-resolving simulations of submerged cohesive granular collapse. Journal of Fluid Mechanics, 2022, 942, . | 3.4 | 9 |
| 7 | Numerical Investigation of the Sediment Hyperpycnal Flow in the Yellow River Estuary. Journal of Marine Science and Engineering, 2022, 10, 943. | 2.6 | 3 |
| 8 | Large deformation mechanics of the thrust performances generated by combustion-enabled soft actuators. International Journal of Mechanical Sciences, 2022, 229, 107513. | 6.7 | 10 |
| 9 | Experimental study on the vertical motion of colliding gravity currents. Physics of Fluids, 2021, 33, 016601. | 4.0 | 10 |
| 10 | The Seasonal Variation of the Anomalously High Salinity at Subsurface Salinity Maximum in Northern South China Sea from Argo Data. Journal of Marine Science and Engineering, 2021, 9, 227. | 2.6 | 1 |
| 11 | Impacts of coastal reclamation on tidal and sediment dynamics in the Rui'an coast of China. Ocean Dynamics, 2021, 71, 323-341. | 2.2 | 7 |
| 12 | Hydrodynamics of weakly and strongly stratified two-layer lock-release gravity currents. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 989-1003. | 1.7 | 6 |
| 13 | Experimental study of horizontal heated buoyant jets in a linearly stratified ambience. Physics of Fluids, 2021, 33, . | 4.0 | 4 |
| 14 | Removal of a dense bottom layer by a gravity current. Journal of Fluid Mechanics, 2021, 916, . | 3.4 | 4 |
| 15 | Unified Model of Sediment Transport Threshold and Rate Across Weak and Intense Subaqueous Bedload, Windblown Sand, and Windblown Snow. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005859. | 2.8 | 15 |
| 16 | Mechanical Metamaterials Gyro-Structure Piezoelectric Nanogenerators for Energy Harvesting under Quasi-Static Excitations in Ocean Engineering. ACS Omega, 2021, 6, 15348-15360. | 3.5 | 21 |
| 17 | A Computationally Efficient Shallow Water Model for Mixed Cohesive and Non-Cohesive Sediment Transport in the Yangtze Estuary. Water (Switzerland), 2021, 13, 1435. | 2.7 | 1 |
| 18 | Numerical study on the morphological evolution of the Qingshuigou channel on the Yellow River Delta in response to changing water and sediment regimes. IOP Conference Series: Earth and Environmental Science, 2021, 820, 012023. | 0.3 | 1 |

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|----|--|-----|-----------|
| 19 | Porous Shallow Water Modeling for Urban Floods in the Zhoushan City, China. Frontiers in Earth Science, 2021, 9, . | 1.8 | 2 |
| 20 | Contribution of sediments to stratification in a fluvial estuarine system during a low-discharge period. Estuarine, Coastal and Shelf Science, 2021, 261, 107537. | 2.1 | 1 |
| 21 | Role of barâ€channel interactions in a dominant branch shift: The Taipingkou waterway, Yangtze River, China. River Research and Applications, 2021, 37, 494-508. | 1.7 | 12 |
| 22 | Particle-laden gravity currents interacting with stratified ambient water using direct numerical simulations. Environmental Earth Sciences, 2021, 80, 1. | 2.7 | 4 |
| 23 | Untethered, high-speed soft jumpers enabled by combustion for motions through multiphase environments. Smart Materials and Structures, 2021, 30, 015035. | 3.5 | 14 |
| 24 | Effects of climate change on peak runoff and flood levels in Qu River Basin, East China. Journal of Hydro-Environment Research, 2020, 28, 34-47. | 2.2 | 24 |
| 25 | Interaction impacts of tides, waves and winds on storm surge in a channel-island system: observational and numerical study in Yangshan Harbor. Ocean Dynamics, 2020, 70, 307-325. | 2.2 | 17 |
| 26 | Layer-averaged numerical study on effect of Reynolds number on turbidity currents. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 628-637. | 1.7 | 4 |
| 27 | Effect of Inclination Angles on the Local Scour around a Submerged Cylinder. Water (Switzerland), 2020, 12, 2687. | 2.7 | 6 |
| 28 | Transport and Deposition Patterns of Particles Laden by Rising Submarine Hydrothermal Plumes. Geophysical Research Letters, 2020, 47, e2020GL089935. | 4.0 | 10 |
| 29 | A RANS numerical study of experimental swash flows and its bed shear stress estimation. Applied Ocean Research, 2020, 100, 102145. | 4.1 | 3 |
| 30 | Experimental Study on Sand Dike Breaching by Wave Overtopping. Applied Ocean Research, 2020, 101, 102195. | 4.1 | 6 |
| 31 | Numerical modeling of scour and deposition around permeable cylindrical structures. International Journal of Sediment Research, 2020, 35, 278-286. | 3.5 | 6 |
| 32 | High-speed soft actuators based on combustion-enabled transient driving method (TDM). Extreme Mechanics Letters, 2020, 37, 100731. | 4.1 | 16 |
| 33 | Opportunities for blue carbon strategies in China. Ocean and Coastal Management, 2020, 194, 105241. | 4.4 | 60 |
| 34 | Numerical Investigation on the Adaptation of Dam-Break Flow-Induced Bed Load Transport to the Capacity Regime over a Sloping Bed. Journal of Coastal Research, 2020, 36, . | 0.3 | 5 |
| 35 | Front propagation of gravity currents on inclined bottoms in linearly stratified fluids. Environmental Fluid Mechanics, 2019, 19, 279-296. | 1.6 | 3 |
| 36 | Large Effects of Particle Size Heterogeneity on Dynamic Saltation Threshold. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2311-2321. | 2.8 | 8 |

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|----|---|-----|-----------|
| 37 | Impacts of Sea Level Rise and River Discharge on the Hydrodynamics Characteristics of Jakarta Bay (Indonesia). Water (Switzerland), 2019, 11, 1384. | 2.7 | 13 |
| 38 | Improved Local Time Step for 2D Shallow-Water Modeling Based on Unstructured Grids. Journal of Hydraulic Engineering, 2019, 145, . | 1.5 | 15 |
| 39 | Separation of particle-laden gravity currents down a slope in linearly stratified environments. Physics of Fluids, 2019, 31, . | 4.0 | 15 |
| 40 | Numerical modelling study of seawater intrusion in Indus River Estuary, Pakistan. Ocean Engineering, 2019, 184, 74-84. | 4.3 | 23 |
| 41 | Computationally efficient modeling of hydro-sediment-morphodynamic processes using a hybrid local time step/global maximum time step. Advances in Water Resources, 2019, 127, 26-38. | 3.8 | 34 |
| 42 | Numerical simulation of two coalescing turbulent forced plumes in linearly stratified fluids. Physics of Fluids, 2019, 31, . | 4.0 | 23 |
| 43 | Changes in the Hydrodynamics of Hangzhou Bay Due to Land Reclamation in the Past 60 Years. , 2019, , 77-93. | | 1 |
| 44 | Numerical modeling of lock-exchange gravity/turbidity currents by a high-order upwinding combined compact difference scheme. International Journal of Sediment Research, 2019, 34, 240-250. | 3.5 | 7 |
| 45 | Integral model for multiple forced plumes arranged around a circle in a linearly stratified environment. Physical Review Fluids, 2019, 4, . | 2.5 | 9 |
| 46 | Transition of a Hyperpycnal Flow Into a Saline Turbidity Current Due to Differential Diffusivities. Geophysical Research Letters, 2018, 45, 11,875. | 4.0 | 10 |
| 47 | Dynamic Interaction and Mixing of Two Turbulent Forced Plumes in Linearly Stratified Ambience. Journal of Hydraulic Engineering, 2018, 144, . | 1.5 | 11 |
| 48 | Numerical investigation of a sandbar formation and evolution in a tide-dominated estuary using a hydro-morphodynamic model. Coastal Engineering Journal, 2018, 60, 466-483. | 1.9 | 14 |
| 49 | A numerical study on the effect of tidal flat's slope on tidal dynamics in the Xiangshan Bay, China. Acta Oceanologica Sinica, 2018, 37, 29-40. | 1.0 | 4 |
| 50 | Front Velocity and Front Location of Lock-Exchange Gravity Currents Descending a Slope in a Linearly Stratified Environment. Journal of Hydraulic Engineering, 2018, 144, . | 1.5 | 12 |
| 51 | Investigations of dynamic behaviors of lock-exchange turbidity currents down a slope based on direct numerical simulation. Advances in Water Resources, 2018, 119, 164-177. | 3.8 | 16 |
| 52 | The impacts of the large-scale hydraulic structures on tidal dynamics in open-type bay: numerical study in Jakarta Bay. Ocean Dynamics, 2018, 68, 1141-1154. | 2.2 | 10 |
| 53 | A well-balanced positivity preserving two-dimensional shallow flow model with wetting and drying fronts over irregular topography. Journal of Hydrodynamics, 2018, 30, 618-631. | 3.2 | 5 |
| 54 | Dynamics of sediment transport and stratification in Changjiang River Estuary, China. Estuarine, Coastal and Shelf Science, 2018, 213, 1-17. | 2.1 | 31 |

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| 55 | Numerical simulation of dam-break flow and bed change considering the vegetation effects. International Journal of Sediment Research, 2017, 32, 105-120. | 3.5 | 25 |
| 56 | Scaling for turbulent viscosity of buoyant plumes in stratified fluids: PIV measurement with implications for submarine hydrothermal plume turbulence. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 129, 89-98. | 1.4 | 17 |
| 57 | Responses of water environment to tidal flat reduction in Xiangshan Bay: Part II locally re-suspended sediment dynamics. Estuarine, Coastal and Shelf Science, 2017, 198, 114-127. | 2.1 | 18 |
| 58 | Limitations of empirical sediment transport formulas for shallow water and their consequences for swash zone modelling. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 114-120. | 1.7 | 6 |
| 59 | Hydrodynamics of Gravity Currents Down a Ramp in Linearly Stratified Environments. Journal of Hydraulic Engineering, 2017, 143, . | 1.5 | 37 |
| 60 | Effect of precipitation on the wind retrieval from synthetic aperture radar. , 2016, , . | | 0 |
| 61 | Spatio-temporal distribution of internal waves in the Andaman Sea based on satellite remote sensing. , 2016, , . | | 5 |
| 62 | International scientists discuss impact on China's estuarine and coastal environment by intensive anthropogenic activities – The 2nd workshop on sediment dynamics of muddy coasts and estuaries: Physics, biology and their interactions, Zhoushan, China, 23–26 October, 2015. Estuarine, Coastal and Shelf Science, 2016, 168, ii-iii. | 2.1 | 2 |
| 63 | Variations of temperature, salinity and current in the southern tidal passage of the Hangzhou Bay, China. Acta Oceanologica Sinica, 2016, 35, 30-37. | 1.0 | 10 |
| 64 | A Multi-Phase Mathematical Model for Gravity Currents. , 2016, , . | | 0 |
| 65 | A numerical study on the high-velocity impact behavior of pressure pipes. Journal of Zhejiang University: Science A, 2016, 17, 443-453. | 2.4 | 7 |
| 66 | Rainband feature tracking for wind speeds around typhoon eyes using multiple sensors. International Journal of Remote Sensing, 2016, 37, 2016-2031. | 2.9 | 3 |
| 67 | Experiments on gravity currents down a ramp in unstratified and linearly stratified salt water environments. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2016, 46, 570-578. | 0.5 | 3 |
| 68 | An Introduction to Zhejiang University - Zhairuoshan Experimental Research Observatory and Retrieved Data Analysis. , 2015, , . | | 0 |
| 69 | ls it appropriate to model turbidity currents with the threeâ€equation model?. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1153-1170. | 2.8 | 15 |
| 70 | Modeling of Breaching Due to Overtopping Flow and Waves Based on Coupled Flow and Sediment Transport. Water (Switzerland), 2015, 7, 4283-4304. | 2.7 | 10 |
| 71 | Impact of moving rainfall events on hillslope pollutant transport. Environmental Earth Sciences, 2015, 74, 5989-5999. | 2.7 | 3 |
| 72 | An optimized dispersion–relation-preserving combined compact difference scheme to solve advection equations. Journal of Computational Physics, 2015, 300, 92-115. | 3.8 | 11 |

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| 73 | Well-balanced and flexible morphological modeling of swash hydrodynamics and sediment transport. Coastal Engineering, 2015, 96, 27-37. | 4.0 | 19 |
| 74 | Finite volume method solution of pollutant transport in catchment sheet flow. Hydrology Research, 2014, 45, 182-189. | 2.7 | 0 |
| 75 | Development of a Cell-Centered Godunov-Type Finite Volume Model for Shallow Water Flow Based on Unstructured Mesh. Mathematical Problems in Engineering, 2014, 2014, 1-15. | 1.1 | 7 |
| 76 | Soil erosion and pollutant transport during rainfall-runoff processes. Water Resources, 2014, 41, 604-611. | 0.9 | 19 |
| 77 | Modeling pollutant transport in overland flow over non-planar and non-homogenous infiltrating surfaces. Journal of Zhejiang University: Science A, 2013, 14, 110-119. | 2.4 | 1 |
| 78 | Analysis of the Dynamic Response in Blast-Loaded CFRP-Strengthened Metallic Beams. Advances in Materials Science and Engineering, 2013, 2013, 1-13. | 1.8 | 4 |
| 79 | Depth-Averaged Two-Dimensional Model of Unsteady Flow and Sediment Transport due to Noncohesive Embankment Break/Breaching. Journal of Hydraulic Engineering, 2012, 138, 503-516. | 1.5 | 65 |
| 80 | Physically-based approach to analyze rainfall-triggered landslide using hydraulic gradient as slide direction. Journal of Zhejiang University: Science A, 2012, 13, 943-957. | 2.4 | 10 |
| 81 | Experimental study of the impact of rainfall characteristics on runoff generation and soil erosion. Journal of Hydrology, 2012, 424-425, 99-111. | 5.4 | 171 |
| 82 | Calibration of Nodal Demand in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 31-40. | 2.6 | 38 |
| 83 | Prediction and application for rain induced shallow landslides in natural catchments. , 2011, , . | | 1 |
| 84 | Earthen Embankment Breaching. Journal of Hydraulic Engineering, 2011, 137, 1549-1564. | 1.5 | 170 |
| 85 | Prediction of Changes in Soil Moisture Due to Rainfall, Infiltration, and Evapotranspiration Using a Physically-Based Model. , 2009, , . | | 0 |
| 86 | A Depth-Averaged 2-D Model of Non-Cohesive Dam/Levee Breach Processes. , 2009, , . | | 5 |
| 87 | Numerical analysis of effects of large wood structures on channel morphology and fish habitat suitability in a Southern US sandy creek. Ecohydrology, 2009, 2, 370-380. | 2.4 | 25 |
| 88 | A physically-based integrated numerical model for flow, upland erosion, and contaminant transport in surface-subsurface systems. Science in China Series D: Earth Sciences, 2009, 52, 3391-3400. | 0.9 | 1 |
| 89 | Integrated Two-Dimensional Surface and Three-Dimensional Subsurface Contaminant Transport Model Considering Soil Erosion and Sorption. Journal of Hydraulic Engineering, 2009, 135, 1028-1040. | 1.5 | 11 |
| 90 | Effects of vegetation on flow conveyance and sediment transport capacity. International Journal of Sediment Research, 2009, 24, 247-259. | 3.5 | 42 |

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| 91 | Cutting management of riparian vegetation by using hydrodynamic model simulations. Advances in Water Resources, 2008, 31, 1299-1308. | 3.8 | 29 |
| 92 | Coupled Finite-Volume Model for 2D Surface and 3D Subsurface Flows. Journal of Hydrologic Engineering - ASCE, 2008, 13, 835-845. | 1.9 | 25 |
| 93 | A Depth-Averaged 2-D Analysis of Fish Habitat Suitability Impacted by Vegetation and Sediment. , 2006, , 1. | | 2 |
| 94 | Investigation of Storm Tides Induced by Super Typhoon in Macro-Tidal Hangzhou Bay. Frontiers in Marine Science, 0, 9, . | 2.5 | 9 |