

# Qing-quan Liu

## List of Publications by Year in descending order

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58  
papers

708  
citations

623699

14  
h-index

610883

24  
g-index

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64  
docs citations

64  
times ranked

652  
citing authors

#	ARTICLE	IF	CITATIONS
1	An updated critical state model by incorporating inertial effects for granular material in solidâ€“fluid transition regime. <i>Granular Matter</i> , 2022, 24, 1.	2.2	5
2	Numerical study of waves generated during iceberg calving in sliding mode. <i>Ocean Engineering</i> , 2022, 246, 110622.	4.3	1
3	Characteristics of iceberg calving-generated waves based on three-dimensional SPH simulations. <i>Coastal Engineering</i> , 2022, 173, 104090.	4.0	1
4	Runout and deflection of granular flow past an array of obstacles on a slope. <i>European Journal of Mechanics, B/Fluids</i> , 2022, 94, 37-49.	2.5	4
5	Tandem cavity collapse in a high-speed droplet impinging on a constrained wall. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	3.4	0
6	SPH-ASR study of drop impact on a heated surface with consideration of inclined angle and evaporation. <i>Engineering Analysis With Boundary Elements</i> , 2022, 141, 235-249.	3.7	8
7	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
8	Mesoscale analysis of the suction stress characteristic curve for unsaturated granular materials. <i>Particuology</i> , 2021, 56, 183-192.	3.6	1
9	Large-Eddy Simulation of Turbulent Flow over Wavy Wall with Different Wave Steepness. <i>E3S Web of Conferences</i> , 2021, 299, 03012.	0.5	0
10	Numerical Study of Roll Wave Characteristics Based on Navier-Stokes Equations: A Two-Dimensional Simulation. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	4
11	Modeling shallow geological flows on steep terrains using a specific differential transformation. <i>Acta Mechanica</i> , 2021, 232, 2379-2394.	2.1	1
12	Numerical study on near-field characteristics of landslide-generated impulse waves in channel reservoirs. <i>Journal of Hydrology</i> , 2021, 595, 126012.	5.4	6
13	Effects of the spanwise heterogeneity of a three-dimensional wavy wall on momentum and scalar transport. <i>Physics of Fluids</i> , 2021, 33, .	4.0	8
14	A two-layer model for landslide generated impulse wave: Simulation of the 1958 Lituya bay landslide impact wave from generation to longâ€“duration transport. <i>Advances in Water Resources</i> , 2021, 154, 103989.	3.8	4
15	Smoothed particle hydrodynamics with adaptive spatial resolution (SPH-ASR) for free surface flows. <i>Journal of Computational Physics</i> , 2021, 443, 110539.	3.8	30
16	Curved surface effect on high-speed droplet impingement. <i>Journal of Fluid Mechanics</i> , 2021, 909, .	3.4	18
17	10.1063/5.0067485.2. , 2021, , .		0
18	Experimental investigation of immersed granular collapse in viscous and inertial regimes. <i>Physics of Fluids</i> , 2021, 33, .	4.0	7

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19	Smoothed particle hydrodynamics with adaptive spatial resolution for multiphase flows with large density ratio. <i>Physical Review E</i> , 2021, 104, 055308.	2.1	11
20	Experimental Study on Front Spreading of Lock-Exchange Gravity Current with Long Lock Length. <i>Journal of Engineering Mechanics - ASCE</i> , 2020, 146, 04019113.	2.9	2
21	Numerical simulation of fast granular flow facing obstacles on steep terrains. <i>Journal of Fluids and Structures</i> , 2020, 99, 103162.	3.4	12
22	Numerical study on immersed granular collapse in viscous regime by particle-scale simulation. <i>Physics of Fluids</i> , 2020, 32, .	4.0	22
23	Evolution of Energy in Submerged Granular Column Collapse. <i>Chinese Physics Letters</i> , 2020, 37, 074502.	3.3	3
24	A 2D hydrodynamic model for shallow water flows with significant infiltration losses. <i>Hydrological Processes</i> , 2020, 34, 2263-2280.	2.6	19
25	Grain energy release governs mobility of debris flow due to solid liquid mass release. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 2912-2926.	2.5	2
26	A two-dimensional layer-averaged numerical model for turbidity currents. <i>Geological Society Special Publication</i> , 2019, 477, 439-454.	1.3	6
27	Waves and Sediment Transport Due to Granular Landslides Impacting Reservoirs. <i>Water Resources Research</i> , 2019, 55, 495-518.	4.2	14
28	A depth-averaged two-phase model for fluvial sediment-laden flows over erodible beds. <i>Advances in Water Resources</i> , 2019, 129, 338-353.	3.8	7
29	Viscous Elastoplastic SPH Model for Long-Distance High-Speed Landslide. <i>International Journal of Computational Methods</i> , 2019, 16, 1846011.	1.3	8
30	Mathematical modeling of shallow-water flows on steep slopes. <i>Journal of Hydrology and Hydromechanics</i> , 2019, 67, 252-259.	2.0	10
31	Approximate Solutions for Ideal Dam-Break Sediment-Laden Flows on Uniform Slopes. <i>Water Resources Research</i> , 2018, 54, 2731-2748.	4.2	5
32	Characteristics and influencing factors of sediment deposition-scour in the Sanhuhekou-Toudaoguai Reach of the upper Yellow River, China. <i>International Journal of Sediment Research</i> , 2018, 33, 303-312.	3.5	11
33	A depth-averaged two-phase model for debris flows over fixed beds. <i>International Journal of Sediment Research</i> , 2018, 33, 462-477.	3.5	14
34	A depth-averaged two-phase model for debris flows over erodible beds. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 817-839.	2.5	45
35	A quasi single-phase model for debris flows and its comparison with a two-phase model. <i>Journal of Mountain Science</i> , 2018, 15, 1071-1089.	2.0	14
36	Shallow Water Hydro-Sediment-Morphodynamic Equations for Fluvial Processes. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	1.5	32

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37	Characterizing vertical migration of <i>Microcystis aeruginosa</i> and conditions for algal bloom development based on a light-driven migration model. <i>Ecological Research</i> , 2017, 32, 961-969.	1.5	11
38	Effect of viscosity on motion of splashing crown in high speed drop impact. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2017, 38, 1709-1720.	3.6	0
39	Fluorescent components and spatial patterns of chromophoric dissolved organic matters in Lake Taihu, a large shallow eutrophic lake in China. <i>Environmental Science and Pollution Research</i> , 2016, 23, 23057-23070.	5.3	12
40	Numerical simulation of landslide-generated waves using a soil-water coupling smoothed particle hydrodynamics model. <i>Advances in Water Resources</i> , 2016, 92, 130-141.	3.8	67
41	Adomian Decomposition Method Combined with Padé Approximation and Laplace Transform for Solving a Model of HIV Infection of CD4 <sup>+</sup> T Cells. <i>Discrete Dynamics in Nature and Society</i> , 2015, 2015, 1-7.	0.9	5
42	Whole-Process Modeling of Reservoir Turbidity Currents by a Double Layer-Averaged Model. <i>Journal of Hydraulic Engineering</i> , 2015, 141, .	1.5	36
43	Modelling roll waves with shallow water equations and turbulent closure. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 161-177.	1.7	38
44	Numerical study of hydrodynamic process in Chaohu Lake. <i>Journal of Hydrodynamics</i> , 2015, 27, 720-729.	3.2	14
45	SPH-Based Simulations for Slope Failure Considering Soil-Rock Interaction. <i>Procedia Engineering</i> , 2015, 102, 1842-1849.	1.2	12
46	A New Energy-Absorbing Device for Motion Suppression in Deep-Sea Floating Platforms. <i>Energies</i> , 2015, 8, 111-132.	3.1	19
47	Coupled flood and sediment transport modelling with adaptive mesh refinement. <i>Science China Technological Sciences</i> , 2015, 58, 1425-1438.	4.0	18
48	On the horizontal distribution of algal-bloom in Chaohu Lake and its formation process. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2014, 30, 656-666.	3.4	18
49	Modified asymptotic Adomian decomposition method for solving Boussinesq equation of groundwater flow. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014, 35, 481-488.	3.6	6
50	On semi-convergence of modified HSS iteration methods. <i>Numerical Algorithms</i> , 2013, 64, 507-518.	1.9	15
51	A double layer-averaged model for dam-break flows over mobile bed. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2013, 51, 518-534.	1.7	52
52	Dynamic criterion for the formation of surface water-blooms. <i>Theoretical and Applied Mechanics Letters</i> , 2013, 3, 042003.	2.8	2
53	The Characteristics and Estimation of Flow Through a Single Rough-Walled Fracture. <i>Journal of Hydrodynamics</i> , 2012, 24, 315-322.	3.2	11
54	Approximate Engineering Solution for Predicting Groundwater Table Variation During Reservoir Drawdown on the Basis of the Boussinesq Equation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011, 16, 791-797.	1.9	9

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55	Effects of rainfall infiltration on deep slope failure. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 108-114.	0.2	17
56	Numerical study on transient flow in the deep naturally fractured reservoir with high pressure. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1074-1085.	0.2	3
57	Mixing process in estuaries. Science in China Series A: Mathematics, 1999, 42, 1110-1120.	0.5	7
58	Fluidization Dynamics in an Impinging-jet-driven Bioreactor for Artificial Liver System. Physics of Fluids, 0, , .	4.0	0