

# Zheng Han

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,470  
citations

331670

21  
h-index

330143

37  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1017  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved landslide assessment using support vector machine with bagging, boosting, and stacking ensemble machine learning framework in a mountainous watershed, Japan. <i>Landslides</i> , 2020, 17, 641-658.	5.4	294
2	DDA validation of the mobility of earthquake-induced landslides. <i>Engineering Geology</i> , 2015, 194, 38-51.	6.3	126
3	3D numerical simulation of debris-flow motion using SPH method incorporating non-Newtonian fluid behavior. <i>Natural Hazards</i> , 2016, 81, 1981-1998.	3.4	71
4	Numerical simulation of debris-flow behavior incorporating a dynamic method for estimating the entrainment. <i>Engineering Geology</i> , 2015, 190, 52-64.	6.3	70
5	Numerical simulation of debris-flow behavior based on the SPH method incorporating the Herschel-Bulkley-Papanastasiou rheology model. <i>Engineering Geology</i> , 2019, 255, 26-36.	6.3	65
6	Detection of contacts between three-dimensional polyhedral blocks for discontinuous deformation analysis. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 78, 57-73.	5.8	57
7	Deep Learning-Based Safety Helmet Detection in Engineering Management Based on Convolutional Neural Networks. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-10.	0.7	49
8	Extensions of edge-to-edge contact model in three-dimensional discontinuous deformation analysis for friction analysis. <i>Computers and Geotechnics</i> , 2016, 71, 261-275.	4.7	41
9	Spatial Proximity-Based Geographically Weighted Regression Model for Landslide Susceptibility Assessment: A Case Study of Qingchuan Area, China. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1107.	2.5	41
10	Mapping the susceptibility to landslides based on the deep belief network: a case study in Sichuan Province, China. <i>Natural Hazards</i> , 2020, 103, 3239-3261.	3.4	40
11	Practical application of the coupled DDA-SPH method in dynamic modeling for the formation of landslide dam. <i>Landslides</i> , 2019, 16, 1021-1032.	5.4	33
12	A new algorithm to identify contact types between arbitrarily shaped polyhedral blocks for three-dimensional discontinuous deformation analysis. <i>Computers and Geotechnics</i> , 2016, 80, 1-15.	4.7	29
13	Prediction on landslide displacement using a new combination model: a case study of Qinglong landslide in China. <i>Natural Hazards</i> , 2019, 96, 1121-1139.	3.4	29
14	Comprehensive assessment of geological hazard safety along railway engineering using a novel method: a case study of the Sichuan-Tibet railway, China. <i>Geomatics, Natural Hazards and Risk</i> , 2020, 11, 1-21.	4.3	29
15	Assessing entrainment of bed material in a debris-flow event: a theoretical approach incorporating Monte Carlo method. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1877-1890.	2.5	28
16	Modeling the progressive entrainment of bed sediment by viscous debris flows using the three-dimensional SC-HBP-SPH method. <i>Water Research</i> , 2020, 182, 116031.	11.3	27
17	Exploring the velocity distribution of debris flows: An iteration algorithm based approach for complex cross-sections. <i>Geomorphology</i> , 2015, 241, 72-82.	2.6	26
18	A new approach for analyzing the velocity distribution of debris flows at typical cross-sections. <i>Natural Hazards</i> , 2014, 74, 2053-2070.	3.4	25

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19	An integrated method for rapid estimation of the valley incision by debris flows. <i>Engineering Geology</i> , 2018, 232, 34-45.	6.3	25
20	Estimation of lateral force acting on piles to stabilize landslides. <i>Natural Hazards</i> , 2015, 79, 1981-2003.	3.4	24
21	A new DDA model for kinematic analyses of rockslides on complex 3-D terrain. <i>Bulletin of Engineering Geology and the Environment</i> , 2018, 77, 555-571.	3.5	24
22	Extension of three-dimensional discontinuous deformation analysis to frictional-cohesive materials. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 86, 65-79.	5.8	22
23	Noncontact detection of earthquake-induced landslides by an enhanced image binarization method incorporating with Monte-Carlo simulation. <i>Geomatics, Natural Hazards and Risk</i> , 2019, 10, 219-241.	4.3	21
24	Development mechanism for the landslide at Xinlu Village, Chongqing, China. <i>Landslides</i> , 2018, 15, 2075-2081.	5.4	20
25	Numerical simulation for run-out extent of debris flows using an improved cellular automaton model. <i>Bulletin of Engineering Geology and the Environment</i> , 2017, 76, 961-974.	3.5	18
26	Exploring the Impact of Multitemporal DEM Data on the Susceptibility Mapping of Landslides. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2518.	2.5	17
27	Spatiotemporal assessment of landslide susceptibility in Southern Sichuan, China using SA-DBN, PSO-DBN and SSA-DBN models compared with DBN model. <i>Advances in Space Research</i> , 2022, 69, 3071-3087.	2.6	17
28	Elementary analysis on the bed-sediment entrainment by debris flow and its application using the TopFlowDF model. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 764-785.	4.3	16
29	A variable weight combination model for prediction on landslide displacement using AR model, LSTM model, and SVM model: a case study of the Xinming landslide in China. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	15
30	Vision-Based Crack Detection of Asphalt Pavement Using Deep Convolutional Neural Network. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 2047-2055.	1.9	14
31	Exploring the Detection Accuracy of Concrete Cracks Using Various CNN Models. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-11.	1.8	13
32	A hybrid automatic thresholding approach using panchromatic imagery for rapid mapping of landslides. <i>GIScience and Remote Sensing</i> , 2014, 51, 710-730.	5.9	12
33	An enhanced image binarization method incorporating with Monte-Carlo simulation. <i>Journal of Central South University</i> , 2019, 26, 1661-1671.	3.0	12
34	Research on Fault Cutting Algorithm of the Three-Dimensional Numerical Manifold Method. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	11
35	Comprehensive analysis of landslide stability and related countermeasures: a case study of the Lanmuxi landslide in China. <i>Scientific Reports</i> , 2019, 9, 12407.	3.3	11
36	Aggravation of debris flow disaster by extreme climate and engineering: a case study of the Tongzilin Gully, Southwestern Sichuan Province, China. <i>Natural Hazards</i> , 2021, 109, 237-253.	3.4	10

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37	Hydrodynamic and topography based cellular automaton model for simulating debris flow run-out extent and entrainment behavior. <i>Water Research</i> , 2021, 193, 116872.	11.3	9
38	Failure mechanism of the Yaoba loess landslide on March 5, 2020: the early-spring dry spell in Southwest China. <i>Landslides</i> , 2021, 18, 3183-3195.	5.4	8
39	A novel multiphase segmentation method for interpreting the 3D mesoscopic structure of asphalt mixture using CT images. <i>Construction and Building Materials</i> , 2022, 327, 127010.	7.2	8
40	Computer Vision-Based Hazard Identification of Construction Site Using Visual Relationship Detection and Ontology. <i>Buildings</i> , 2022, 12, 857.	3.1	8
41	Characteristics, mechanisms, and post-disaster lessons of the delayed semi-diagenetic landslide in Hanyuan, Sichuan, China. <i>Landslides</i> , 2022, 19, 437-449.	5.4	7
42	GIS-Based Three-Dimensional SPH Simulation for the 11 April 2018 Yabakei Landslide at Oita Nakatsu, Japan. <i>Water (Switzerland)</i> , 2021, 13, 3012.	2.7	6
43	Estimating the mud depth of debris flow in a natural river channel: a theoretical approach and its engineering application. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	5
44	Surrogate-Based Stochastic Multiobjective Optimization for Coastal Aquifer Management under Parameter Uncertainty. <i>Water Resources Management</i> , 2021, 35, 1479-1497.	3.9	5
45	Extreme climate and tectonic controls on the generation of a large-scale, low-frequency debris flow. <i>Catena</i> , 2022, 212, 106086.	5.0	5
46	Generation of Homogeneous Slope Units Using a Novel Object-Oriented Multi-Resolution Segmentation Method. <i>Water (Switzerland)</i> , 2021, 13, 3422.	2.7	5
47	Protecting highway bridges against debris flows using lateral berms: a case study of the 2008 and 2011 Cheyang debris flow events, China. <i>Geomatics, Natural Hazards and Risk</i> , 2018, 9, 196-210.	4.3	4
48	Analysis of secondary-factor combinations of landslides using improved association rule algorithms: a case study of Kitakyushu in Japan. <i>Geomatics, Natural Hazards and Risk</i> , 2021, 12, 1885-1904.	4.3	4
49	Spatiotemporal Landslide Susceptibility Mapping Incorporating the Effects of Heavy Rainfall: A Case Study of the Heavy Rainfall in August 2021 in Kitakyushu, Fukuoka, Japan. <i>Water (Switzerland)</i> , 2021, 13, 3312.	2.7	4
50	Back analysis of shear strength parameters for progressive landslides: case study of the Caifengyan landslide, China. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	3.5	3
51	Numerical Simulation of Post-Entrainment Debris Flow at Alluvial Fan Using FLO-2D Model. , 2017, , 311-321.		2
52	Semiautomatic Landslide Detection Using Remote Sensing and Slope Units. <i>Transportation Research Record</i> , 2017, 2604, 104-110.	1.9	2
53	New insights into the delayed initiation of a debris flow in southwest China. <i>Natural Hazards</i> , 2021, 108, 2855-2877.	3.4	2
54	Landslide Susceptibility Mapping Based on the Deep Belief Network: A Case Study in Sichuan Province, China. <i>ICL Contribution To Landslide Disaster Risk Reduction</i> , 2021, , 201-213.	0.3	1

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55	A method for estimating the bed-sediment entrainment in debris flow. Japanese Geotechnical Society Special Publication, 2016, 2, 1089-1093.	0.2	0
56	Spatial Distribution Features of Debris Flows at Active Fault Zone Along Ya-Lu Highway, China. Open Civil Engineering Journal, 2017, 11, 563-571.	0.8	0
57	Simulating the impact of highway construction to landslides with creep deformation using DDA: a case study of Qinglong landslide in Guizhou Province, China. Arabian Journal of Geosciences, 2022, 15, 1.	1.3	0
58	Hierarchical Statistics-Based Nonlinear Vertical Velocity Distribution of Debris Flow and Its Application in Entrainment Estimation. Water (Switzerland), 2022, 14, 1352.	2.7	0