

Choi, Clarence

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

1,306
citations

23
h-index

34
g-index

59
ext. papers

1,699
ext. citations

4.3
avg, IF

5.15
L-index

#	Paper	IF	Citations
54	A depth-averaged SPH study on spreading mechanisms of geophysical flows in debris basins: Implications for terminal barrier design requirements. <i>Computers and Geotechnics</i> , 2022 , 141, 104503	4.4	1
53	Towards realistic predictions of microplastic fiber transport in aquatic environments: Secondary motions.. <i>Water Research</i> , 2022 , 218, 118476	12.5	1
52	Towards Depth-Averaged Modelling of the Decay of Granular Flows by Deposition. <i>Computers and Geotechnics</i> , 2022 , 148, 104792	4.4	0
51	Design Recommendations for Single and Dual Debris Flow Barriers with and Without Basal Clearance. <i>ICL Contribution To Landslide Disaster Risk Reduction</i> , 2021 , 33-53		0
50	Revealing the Importance of Capillary and Collisional Stresses on Soil Bed Erosion Induced by Debris Flows. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126,	3.8	2
49	Effects of particle shape on the cushioning mechanics of rock-filled gabions. <i>Acta Geotechnica</i> , 2021 , 16, 1043-1052	4.9	7
48	New impact equation using barrier Froude number for the design of dual rigid barriers against debris flows. <i>Landslides</i> , 2021 , 18, 2309	6.6	5
47	Translational Inertial Effects and Scaling Considerations for Coarse Granular Flows Impacting Landslide-Resisting Barriers. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 04021153	3.4	3
46	Improved Settling Velocity for Microplastic Fibers: A New Shape-Dependent Drag Model.. <i>Environmental Science & Technology</i> , 2021 ,	10.3	2
45	Effects of barrier deformability on load reduction and energy dissipation of granular flow impact. <i>Computers and Geotechnics</i> , 2020 , 121, 103445	4.4	16
44	Interaction between granular flows and flexible obstacles: A grain-scale investigation. <i>Computers and Geotechnics</i> , 2020 , 128, 103800	4.4	5
43	Numerical study of granular debris flow run-up against slit dams by discrete element method. <i>Landslides</i> , 2020 , 17, 585-595	6.6	23
42	Slit structures: Fundamental mechanisms of mechanical trapping of granular flows. <i>Computers and Geotechnics</i> , 2020 , 119, 103376	4.4	13
41	Interaction between dry granular flow and rigid barrier with basal clearance: analytical and physical modelling. <i>Canadian Geotechnical Journal</i> , 2020 , 57, 236-245	3.2	10
40	Direct simulation of two-dimensional isotropic or anisotropic random field from sparse measurement using Bayesian compressive sampling. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 1477-1496	3.5	18
39	3D Analysis of gravel surface texture. <i>Powder Technology</i> , 2019 , 346, 414-424	5.2	14
38	The cost of rapid and haphazard urbanization: lessons learned from the Freetown landslide disaster. <i>Landslides</i> , 2019 , 16, 1167-1176	6.6	68

37	Froude characterization for unsteady single-surge dry granular flows: impact pressure and runup height. <i>Canadian Geotechnical Journal</i> , 2019 , 56, 1968-1978	3.2	18
36	Experimental investigation on the longitudinal evolution of landslide dam breaching and outburst floods. <i>Geomorphology</i> , 2019 , 334, 29-43	4.3	37
35	Quantitative analysis of debris-flow flexible barrier capacity from momentum and energy perspectives. <i>Engineering Geology</i> , 2019 , 251, 81-92	6	33
34	Effects of particle size and cushioning thickness on the performance of rock-filled gabions used in protection against boulder impact. <i>Canadian Geotechnical Journal</i> , 2019 , 56, 198-207	3.2	17
33	Load-attenuation mechanisms of flexible barrier subjected to bouldery debris flow impact. <i>Landslides</i> , 2019 , 16, 2321-2334	6.6	17
32	Debris flow impact on flexible barrier: effects of debris-barrier stiffness and flow aspect ratio. <i>Journal of Mountain Science</i> , 2019 , 16, 1629-1645	2.1	9
31	Depositional mechanisms and morphology of debris flow: physical modelling. <i>Landslides</i> , 2019 , 16, 315-338	3.3	23
30	Eco-friendly recycled crushed glass for cushioning boulder impacts. <i>Canadian Geotechnical Journal</i> , 2019 , 56, 1251-1260	3.2	4
29	Effects of dynamic fragmentation on the impact force exerted on rigid barrier: centrifuge modelling. <i>Canadian Geotechnical Journal</i> , 2019 , 56, 1215-1224	3.2	9
28	The characteristics of the Mocoa compound disaster event, Colombia. <i>Landslides</i> , 2018 , 15, 1223-1232	6.6	39
27	Effects of particle size of mono-disperse granular flows impacting a rigid barrier. <i>Natural Hazards</i> , 2018 , 91, 1179-1201	3	57
26	Impulse load characteristics of bouldery debris flow impact. <i>Geotechnique Letters</i> , 2018 , 8, 111-117	1.7	19
25	Geophysical flows impacting a flexible barrier: effects of solid-fluid interaction. <i>Landslides</i> , 2018 , 15, 99-110	6.6	42
24	Surge impact behavior of granular flows: effects of water content. <i>Landslides</i> , 2018 , 15, 695-709	6.6	18
23	Utilizing crowdsourcing to enhance the mitigation and management of landslides. <i>Landslides</i> , 2018 , 15, 1889-1899	6.6	7
22	Back-analysis of geophysical flows using three-dimensional runout model. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 1081-1094	3.2	25
21	Dry granular flow interaction with dual-barrier systems. <i>Geotechnique</i> , 2018 , 68, 386-399	3.4	46
20	Case Study: Effects of a Partial-Debris Dam on Riverbank Erosion in the Parlung Tsangpo River, China. <i>Water (Switzerland)</i> , 2018 , 10, 250	3	19

19	Comparison of Cushioning Mechanisms between Cellular Glass and Gabions Subjected to Successive Boulder Impacts. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018 , 144, 04018058	3.4	16
18	Velocity attenuation of debris flows and a new momentum-based load model for rigid barriers. <i>Landslides</i> , 2017 , 14, 617-629	6.6	37
17	Interaction between dry granular flow and deflectors. <i>Landslides</i> , 2017 , 14, 1375-1387	6.6	14
16	Influence of particle size on the mechanism of dry granular run-up on a rigid barrier. <i>Geotechnique Letters</i> , 2017 , 7, 79-89	1.7	29
15	Influence of debris flow solid fraction on rigid barrier impact. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1421-1434	3.2	61
14	Impact mechanisms of granular flow against curved barriers. <i>Geotechnique Letters</i> , 2017 , 7, 330-338	1.7	12
13	Impact mechanisms of granular and viscous flows on rigid and flexible barriers. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 188-206	3.2	66
12	Discrete-element investigation of influence of granular debris flow baffles on rigid barrier impact. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 179-185	3.2	29
11	A novel flexible barrier for landslide impact in centrifuge. <i>Geotechnique Letters</i> , 2016 , 6, 221-225	1.7	30
10	Flume investigation of the influence of rigid barrier deflector angle on dry granular overflow mechanisms. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 1751-1759	3.2	13
9	Coarse granular flow interaction with slit structures. <i>Geotechnique Letters</i> , 2016 , 6, 267-274	1.7	23
8	Large-scale successive boulder impacts on a rigid barrier shielded by gabions. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 1688-1699	3.2	33
7	Froude characteristics of both dense granular and water flows in flume modelling. <i>Landslides</i> , 2015 , 12, 1197-1206	6.6	39
6	Computational investigation of baffle configuration on impedance of channelized debris flow. <i>Canadian Geotechnical Journal</i> , 2015 , 52, 182-197	3.2	51
5	Physical modeling of baffles influence on landslide debris mobility. <i>Landslides</i> , 2015 , 12, 1-18	6.6	68
4	Performance of landslide debris-resisting baffles. <i>HKIE Transactions</i> , 2015 , 22, 235-246	2.9	5
3	Flume investigation of landslide granular debris and water runup mechanisms. <i>Geotechnique Letters</i> , 2015 , 5, 28-32	1.7	66
2	Flume investigation of landslide debris-resisting baffles. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 540-553	3.2	57

- 1 Longitudinal spreading of granular flow in trapezoidal channels. *Geomorphology*, **2013**, 194, 84-93 4.3 25