

Su-Chin Chen

List of Publications by Citations

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Version: 2024-04-23

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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.

55
papers

767
citations

16
h-index

25
g-index

58
ext. papers

910
ext. citations

3.6
avg, IF

4.38
L-index

#	Paper	IF	Citations
55	Determining landslide susceptibility in Central Taiwan from rainfall and six site factors using the analytical hierarchy process method. <i>Geomorphology</i> , 2009 , 112, 190-204	4.3	67
54	Flow characteristics within different configurations of submerged flexible vegetation. <i>Journal of Hydrology</i> , 2011 , 398, 124-134	6	53
53	Geomorphologic characteristics of catastrophic landslides during typhoon Morakot in the Kaoping Watershed, Taiwan. <i>Engineering Geology</i> , 2011 , 123, 13-21	6	53
52	Formation, failure, and consequences of the Xiaolin landslide dam, triggered by extreme rainfall from Typhoon Morakot, Taiwan. <i>Landslides</i> , 2014 , 11, 357-367	6.6	43
51	Changes in water volume of the Aral Sea after 1960. <i>Applied Water Science</i> , 2012 , 2, 285-291	5	42
50	Assessment of disaster resilience capacity of hillslope communities with high risk for geological hazards. <i>Engineering Geology</i> , 2008 , 98, 86-101	6	40
49	Large-scale desiccation of the Aral Sea due to over-exploitation after 1960. <i>Journal of Mountain Science</i> , 2012 , 9, 538-546	2.1	37
48	Observations on flow and local scour around submerged flexible vegetation. <i>Advances in Water Resources</i> , 2012 , 43, 28-37	4.7	36
47	Modeling of natural dam failure modes and downstream riverbed morphological changes with different dam materials in a flume test. <i>Engineering Geology</i> , 2015 , 188, 148-158	6	35
46	Dimension and frequency of bar formation in a braided river. <i>International Journal of Sediment Research</i> , 2013 , 28, 358-367	3	30
45	Two-dimensional numerical model of two-layer shallow water equations for confluence simulation. <i>Advances in Water Resources</i> , 2006 , 29, 1608-1617	4.7	23
44	Characteristics of rainfall-induced landslides in Miocene formations: A case study of the Shenmu watershed, Central Taiwan. <i>Engineering Geology</i> , 2014 , 169, 133-146	6	19
43	Deep-seated gravitational deformation of mountain slopes caused by river incision in the Central Range, Taiwan: Spatial distribution and geological characteristics. <i>Engineering Geology</i> , 2015 , 196, 126-138	6	18
42	A Hooked-Collar for Bridge Piers Protection: Flow Fields and Scour. <i>Water (Switzerland)</i> , 2018 , 10, 1251	3	18
41	Identifying nearshore groundwater and river hydrochemical variables influencing water quality of Kaoping River Estuary using dynamic factor analysis. <i>Journal of Hydrology</i> , 2013 , 486, 39-47	6	17
40	Non-structural mitigation programs for sediment-related disasters after the Chichi Earthquake in Taiwan. <i>Journal of Mountain Science</i> , 2010 , 7, 291-300	2.1	16
39	Seismology-based early identification of dam-formation landquake events. <i>Scientific Reports</i> , 2016 , 6, 19259	4.9	16

38	The efficiency of artificial materials used for erosion control on steep slopes. <i>Environmental Earth Sciences</i> , 2011 , 62, 197-206	2.9	15
37	Sediment removal efficiency of siphon dredging with wedge-type suction head and float tank. <i>International Journal of Sediment Research</i> , 2010 , 25, 149-160	3	15
36	Resilient capacity assessment for geological failure areas: examples from communities affected by debris flow disaster. <i>Environmental Geology</i> , 2009 , 56, 1523-1532		15
35	Debris flow disaster prevention and mitigation of non-structural strategies in Taiwan. <i>Journal of Mountain Science</i> , 2014 , 11, 308-322	2.1	14
34	Characteristics and interpretation of the seismic signal of a field-scale landslide dam failure experiment. <i>Journal of Mountain Science</i> , 2017 , 14, 219-236	2.1	11
33	Analysis of the characteristics of seismic and acoustic signals produced by a dam failure and slope erosion test. <i>Landslides</i> , 2020 , 17, 1605-1618	6.6	11
32	Slope stabilization and landslide size on Mt. 99 Peaks after Chichi Earthquake in Taiwan. <i>Environmental Geology</i> , 2006 , 50, 623-636		11
31	Local Scour of Armor Layer Processes around the Circular Pier in Non-Uniform Gravel Bed. <i>Water (Switzerland)</i> , 2019 , 11, 1421	3	10
30	Channel Planform Dynamics Monitoring and Channel Stability Assessment in Two Sediment-Rich Rivers in Taiwan. <i>Water (Switzerland)</i> , 2017 , 9, 84	3	9
29	Annual landslide risk and effectiveness of risk reduction measures in Shihmen watershed, Taiwan. <i>Landslides</i> , 2016 , 13, 551-563	6.6	8
28	Effects of submerged flexible vegetation and solid structure bars on channel bed scour. <i>International Journal of Sediment Research</i> , 2012 , 27, 323-336	3	8
27	Imaging Rainfall Infiltration Processes with the Time-Lapse Electrical Resistivity Imaging Method. <i>Pure and Applied Geophysics</i> , 2016 , 173, 2227-2239	2.2	7
26	Fluvial incision history that controlled the distribution of landslides in the Central Range of Taiwan. <i>Geomorphology</i> , 2014 , 226, 175-192	4.3	7
25	A Long-Term Vegetation Recovery Estimation for Mt. Jou-Jou Using Multi-Date SPOT 1, 2, and 4 Images. <i>Remote Sensing</i> , 2017 , 9, 893	5	7
24	Bedform development and its effect on bed stabilization and sediment transport based on a flume experiment with non-uniform sediment. <i>International Journal of Sediment Research</i> , 2017 , 32, 305-312	3	6
23	The large Aral Sea water balance: a future prospective of the large Aral Sea depending on water volume alteration. <i>Carbonates and Evaporites</i> , 2014 , 29, 211-219	1.3	6
22	Long-term impact of extra sediment on notches and incised meanders in the Hoshe River, Taiwan. <i>Journal of Mountain Science</i> , 2013 , 10, 716-723	2.1	6
21	Effects of Vegetation Density and Arrangement on Sediment Budget in a Sediment-Laden Flow. <i>Water (Switzerland)</i> , 2018 , 10, 1412	3	6

20	Exploring landslide erosion volume-area scaling relationships by slip depth using changes in DTMs for basin sediment volume estimation. <i>Journal of Mountain Science</i> , 2019 , 16, 581-594	2.1	5
19	Thermal monitoring and analysis of the large-scale field earth-dam breach process. <i>Environmental Monitoring and Assessment</i> , 2018 , 190, 483	3.1	5
18	Typhoon-dominated influence on wood debris distribution and transportation in a high gradient headwater catchment. <i>Journal of Mountain Science</i> , 2013 , 10, 509-521	2.1	4
17	Incipient motion of large wood in river channels considering log density and orientation. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020 , 58, 489-502	1.9	4
16	The Collapse Process of Granular Slopes Under Seismic Forcing 2013 , 45-57		3
15	A Large-Scale Test on Overtopping Failure of Two Artificial Dams in Taiwan 2015 , 1177-1181		2
14	Investigation of the Freeway No. 3 Landslide in Taiwan 2015 , 2093-2096		2
13	Evaluating an optimum slit check dam design by using a 2D unsteady numerical model. <i>E3S Web of Conferences</i> , 2018 , 40, 03027	0.5	2
12	Indicators for Post-Disaster Search and Rescue Efficiency Developed Using Progressive Death Tolls. <i>Sustainability</i> , 2020 , 12, 8262	3.6	1
11	Catastrophic Deep-Seated Landslide at Xiaolin Village in Taiwan Induced by 2009.8.9 Typhoon Morakot. <i>Environmental Science and Engineering</i> , 2013 , 401-419	0.2	1
10	Assessment of the Visual Quality of Sediment Control Structures in Mountain Streams. <i>Water (Switzerland)</i> , 2020 , 12, 3116	3	1
9	A landslide ternary diagram for geometric form and topographic site in Taiwan. <i>Landslides</i> , 2021 , 18, 619-627	6.6	1
8	Effective planting arrangement on floodplains to reduce soil loss in a flood regime: Study using physical models. <i>Ecological Engineering</i> , 2021 , 167, 106258	3.9	1
7	Visual Harmony of Engineering Structures in a Mountain Stream. <i>Water (Switzerland)</i> , 2021 , 13, 3324	3	0
6	On Dam Failure Induced Seismic Signals Using Laboratory Tests and on Breach Morphology due to Overtopping by Modeling. <i>Water (Switzerland)</i> , 2021 , 13, 2757	3	0
5	Upstream morphological effects of a sequential check dam adjustment process. <i>Earth Surface Processes and Landforms</i> , 2021 , 46, 2527	3.7	0
4	The Evaluation of Color Spaces for Large Woody Debris Detection in Rivers Using XGBoost Algorithm. <i>Remote Sensing</i> , 2022 , 14, 998	5	0
3	TXT-tool 4.886-1.2: Procedures for Constructing Disaster Evacuation Maps: Guidelines and Standards 2018 , 669-673		

- 2 The influence of large wood and rootwad on flow patterns and bed morphology in a moving bed channel. *E3S Web of Conferences*, **2018**, 40, 02044 0.5
- 1 Determining transition reaches between torrents and downstream rivers using a valley morphology index in a mountainous landscape. *Hydrological Processes*, **2021**, 35, e14393 3.3