Su-Chin Chen

List of Publications by Year
in descending order

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57	1,054	430442	454577
papers	citations	18 h-index	30 g-index

58	58	58	1185
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Determining landslide susceptibility in Central Taiwan from rainfall and six site factors using the analytical hierarchy process method. Geomorphology, 2009, 112, 190-204.	1.1	78
2	Flow characteristics within different configurations of submerged flexible vegetation. Journal of Hydrology, 2011, 398, 124-134.	2.3	66
3	Geomorphologic characteristics of catastrophic landslides during typhoon Morakot in the Kaoping Watershed, Taiwan. Engineering Geology, 2011, 123, 13-21.	2.9	64
4	Modeling of natural dam failure modes and downstream riverbed morphological changes with different dam materials in a flume test. Engineering Geology, 2015, 188, 148-158.	2.9	59
5	Formation, failure, and consequences of the Xiaolin landslide dam, triggered by extreme rainfall from Typhoon Morakot, Taiwan. Landslides, 2014, 11, 357-367.	2.7	55
6	Changes in water volume of the Aral Sea after 1960. Applied Water Science, 2012, 2, 285-291.	2.8	54
7	Assessment of disaster resilience capacity of hillslope communities with high risk for geological hazards. Engineering Geology, 2008, 98, 86-101.	2.9	52
8	Large-scale desiccation of the Aral Sea due to over-exploitation after 1960. Journal of Mountain Science, 2012, 9, 538-546.	0.8	42
9	Observations on flow and local scour around submerged flexible vegetation. Advances in Water Resources, 2012, 43, 28-37.	1.7	41
10	Dimension and frequency of bar formation in a braided river. International Journal of Sediment Research, 2013, 28, 358-367.	1.8	36
11	Two-dimensional numerical model of two-layer shallow water equations for confluence simulation. Advances in Water Resources, 2006, 29, 1608-1617.	1.7	31
12	A Hooked-Collar for Bridge Piers Protection: Flow Fields and Scour. Water (Switzerland), 2018, 10, 1251.	1.2	30
13	Characteristics of rainfall-induced landslides in Miocene formations: A case study of the Shenmu watershed, Central Taiwan. Engineering Geology, 2014, 169, 133-146.	2.9	23
14	Deep-seated gravitational deformation of mountain slopes caused by river incision in the Central Range, Taiwan: Spatial distribution and geological characteristics. Engineering Geology, 2015, 196, 126-138.	2.9	23
15	Seismology-based early identification of dam-formation landquake events. Scientific Reports, 2016, 6, 19259.	1.6	23
16	Non-structural mitigation programs for sediment-related disasters after the Chichi Earthquake in Taiwan. Journal of Mountain Science, 2010, 7, 291-300.	0.8	20
17	Sediment removal efficiency of siphon dredging with wedge-type suction head and float tank. International Journal of Sediment Research, 2010, 25, 149-160.	1.8	20
18	The efficiency of artificial materials used for erosion control on steep slopes. Environmental Earth Sciences, 2011, 62, 197-206.	1.3	20

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19	Identifying nearshore groundwater and river hydrochemical variables influencing water quality of Kaoping River Estuary using dynamic factor analysis. Journal of Hydrology, 2013, 486, 39-47.	2.3	20
20	Debris flow disaster prevention and mitigation of non-structural strategies in Taiwan. Journal of Mountain Science, 2014, 11, 308-322.	0.8	19
21	Channel Planform Dynamics Monitoring and Channel Stability Assessment in Two Sediment-Rich Rivers in Taiwan. Water (Switzerland), 2017, 9, 84.	1.2	19
22	Local Scour of Armor Layer Processes around the Circular Pier in Non-Uniform Gravel Bed. Water (Switzerland), 2019, 11, 1421.	1.2	18
23	Analysis of the characteristics of seismic and acoustic signals produced by a dam failure and slope erosion test. Landslides, 2020, 17, 1605-1618.	2.7	17
24	Resilient capacity assessment for geological failure areas: examples from communities affected by debris flow disaster. Environmental Geology, 2009, 56, 1523-1532.	1.2	16
25	Characteristics and interpretation of the seismic signal of a field-scale landslide dam failure experiment. Journal of Mountain Science, 2017, 14, 219-236.	0.8	16
26	Slope stabilization and landslide size on Mt. 99 Peaks after Chichi Earthquake in Taiwan. Environmental Geology, 2006, 50, 623-636.	1.2	15
27	Fluvial incision history that controlled the distribution of landslides in the Central Range of Taiwan. Geomorphology, 2014, 226, 175-192.	1.1	13
28	Imaging Rainfall Infiltration Processes with the Time-Lapse Electrical Resistivity Imaging Method. Pure and Applied Geophysics, 2016, 173, 2227-2239.	0.8	13
29	Effects of submerged flexible vegetation and solid structure bars on channel bed scour. International Journal of Sediment Research, 2012, 27, 323-336.	1.8	11
30	Annual landslide risk and effectiveness of risk reduction measures in Shihmen watershed, Taiwan. Landslides, 2016, 13, 551-563.	2.7	11
31	Exploring landslide erosion volumeâ€“area scaling relationships by slip depth using changes in DTMs for basin sediment volume estimation. Journal of Mountain Science, 2019, 16, 581-594.	0.8	11
32	Indicators for Post-Disaster Search and Rescue Efficiency Developed Using Progressive Death Tolls. Sustainability, 2020, 12, 8262.	1.6	11
33	Typhoon-dominated influence on wood debris distribution and transportation in a high gradient headwater catchment. Journal of Mountain Science, 2013, 10, 509-521.	0.8	10
34	The large Aral Sea water balance: a future prospective of the large Aral Sea depending on water volume alteration. Carbonates and Evaporites, 2014, 29, 211-219.	0.4	10
35	Effects of Vegetation Density and Arrangement on Sediment Budget in a Sediment-Laden Flow. Water (Switzerland), 2018, 10, 1412.	1.2	10
36	Thermal monitoring and analysis of the large-scale field earth-dam breach process. Environmental Monitoring and Assessment, 2018, 190, 483.	1.3	10

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37	A Long-Term Vegetation Recovery Estimation for Mt. Jou-Jou Using Multi-Date SPOT 1, 2, and 4 Images. Remote Sensing, 2017, 9, 893.	1.8	9
38	Long-term impact of extra sediment on notches and incised meanders in the Hoshe River, Taiwan. Journal of Mountain Science, 2013, 10, 716-723.	0.8	7
39	Incipient motion of large wood in river channels considering log density and orientation. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 489-502.	0.7	7
40	Bedform development and its effect on bed stabilization and sediment transport based on a flume experiment with non-uniform sediment. International Journal of Sediment Research, 2017, 32, 305-312.	1.8	6
41	A Large-Scale Test on Overtopping Failure of Two Artificial Dams in Taiwan. , 2015, , 1177-1181.		5
42	Upstream morphological effects of a sequential check dam adjustment process. Earth Surface Processes and Landforms, 2021, 46, 2527-2539.	1.2	5
43	Assessment of the Visual Quality of Sediment Control Structures in Mountain Streams. Water (Switzerland), 2020, 12, 3116.	1.2	4
44	Investigation of the Freeway No. 3 Landslide in Taiwan. , 2015, , 2093-2096.		4
45	The Collapse Process of Granular Slopes Under Seismic Forcing. , 2013, , 45-57.		3
46	Evaluating an optimum slit check dam design by using a 2D unsteady numerical model. E3S Web of Conferences, 2018, 40, 03027.	0.2	3
47	A landslide ternary diagram for geometric form and topographic site in Taiwan. Landslides, 2021, 18, 619-627.	2.7	3
48	Determining transition reaches between torrents and downstream rivers using a valley morphology index in a mountainous landscape. Hydrological Processes, 2021, 35, e14393.	1.1	2
49	On Dam Failure Induced Seismic Signals Using Laboratory Tests and on Breach Morphology due to Overtopping by Modeling. Water (Switzerland), 2021, 13, 2757.	1.2	2
50	Visual Harmony of Engineering Structures in a Mountain Stream. Water (Switzerland), 2021, 13, 3324.	1.2	2
51	The Evaluation of Color Spaces for Large Woody Debris Detection in Rivers Using XGBoost Algorithm. Remote Sensing, 2022, 14, 998.	1.8	2
52	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.	0.2	1
53	Effective planting arrangement on floodplains to reduce soil loss in a flood regime: Study using physical models. Ecological Engineering, 2021, 167, 106258.	1.6	1
54	Development of Soil Erosion Index Model in Taiwan Watershed. , 0, , .		0

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55	Clear Water Local Scour and Flow Field around Various Submerged Flexible and Solid Structures. , 2010, , .		0
56	TXT-tool 4.886-1.2: Procedures for Constructing Disaster Evacuation Maps: Guidelines and Standards. , 2018, , 669-673.		0
57	Soilâ€“Water Conservation, Erosion and Landslide. Water (Switzerland), 2022, 14, 665.	1.2	0