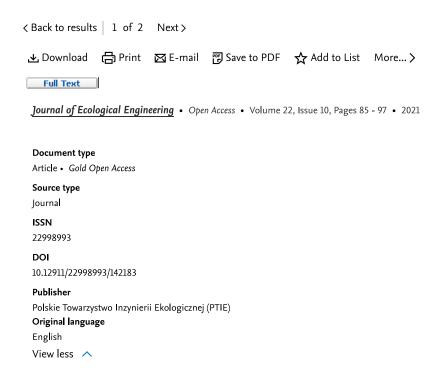


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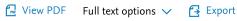


# Rainfall-Induced Landslide Thresholds Development by Considering Different Rainfall Parameters: A Review

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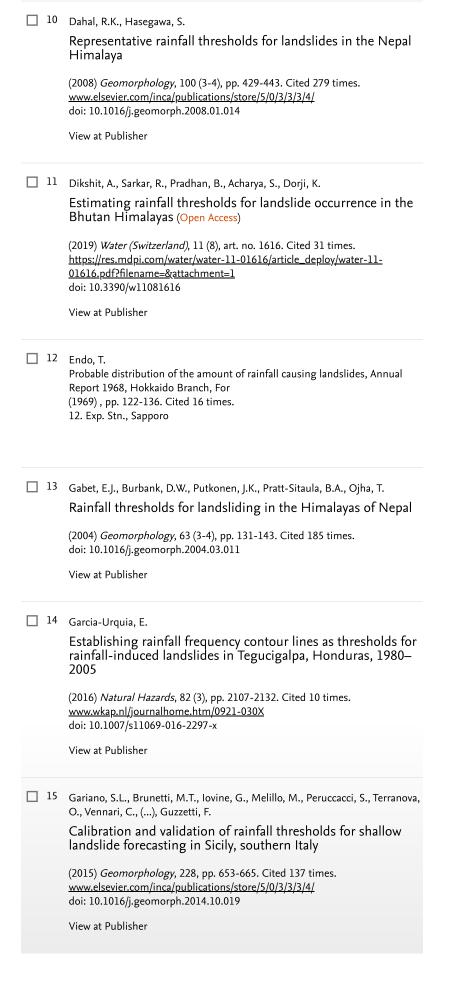
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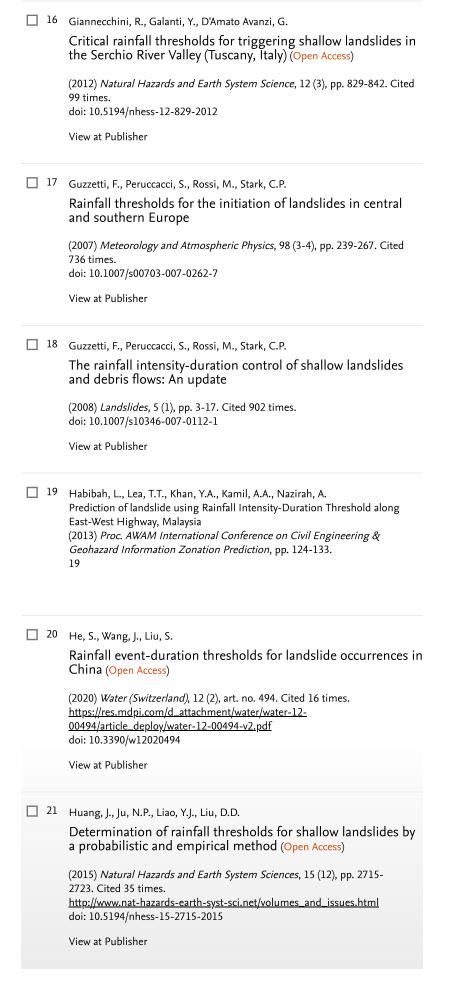
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This paper reviews the development of landslide thresholds from the perspective of rainfall and climate patterns. For certain, geology, morphology, lithology, etc., contribute to the initiation of the mass movement. However, the role of rainfall as the triggering mechanism of the landslide is vital as well. It has been proven by many researchers from various studies worldwide that have proposed the rainfall thresholds by utilising different rainfall parameters. The outcome of their studies is interesting, since different regions have diversified patterns of rainfall that produce variety of threshold models. Therefore, from various published papers on rainfall thresholds, this paper studied the variety of rainfall parameters that have been utilised in establishing the rainfall threshold for landslide prediction. Instead of providing a better understanding regarding the application, this review aimed to cultivate the following study for deriving rigorous parameters for the purpose of sustainable findings. © 2021 Journal of Ecological Engineering. All Rights Reserved.

# the purpose of sustainable findings. © 2021. Journal of Ecological Engineering. All Rights Reserved. Author keywords correlation; empirical; landslides; rainfall parameters; rainfall threshold SciVal Topics (i) Metrics Funding details View in search results format > References (51) ☐ All 🔀 E-mail Export 合 Print 丽 Save to PDF Create bibliography Abraham, M.T., Satyam, N., Pradhan, B., Alamri, A.M. Forecasting of landslides using rainfall severity and soil wetness: A probabilistic approach for Darjeeling Himalayas (Open Access) (2020) Water (Switzerland), 12 (3), art. no. 804, pp. 1-19. Cited 21 times. https://res.mdpi.com/d\_attachment/water/water-12-00804/article\_deploy/water-12-00804-v2.pdf doi: 10.3390/w12030804 View at Publisher $\square$ 2 Aleotti, P. A warning system for rainfall-induced shallow failures (2004) Engineering Geology, 73 (3-4), pp. 247-265. Cited 569 times. doi: 10.1016/j.enggeo.2004.01.007 View at Publisher ☐ 3 Brunetti, M.T., Peruccacci, S., Rossi, M., Luciani, S., Valigi, D., Guzzetti, F. Rainfall thresholds for the possible occurrence of landslides in Italy (Open Access) (2010) Natural Hazards and Earth System Science, 10 (3), pp. 447-458. Cited 341 times. http://www.nat-hazards-earth-syst-sci.net/volumes\_and\_issues.html doi: 10.5194/nhess-10-447-2010 View at Publisher

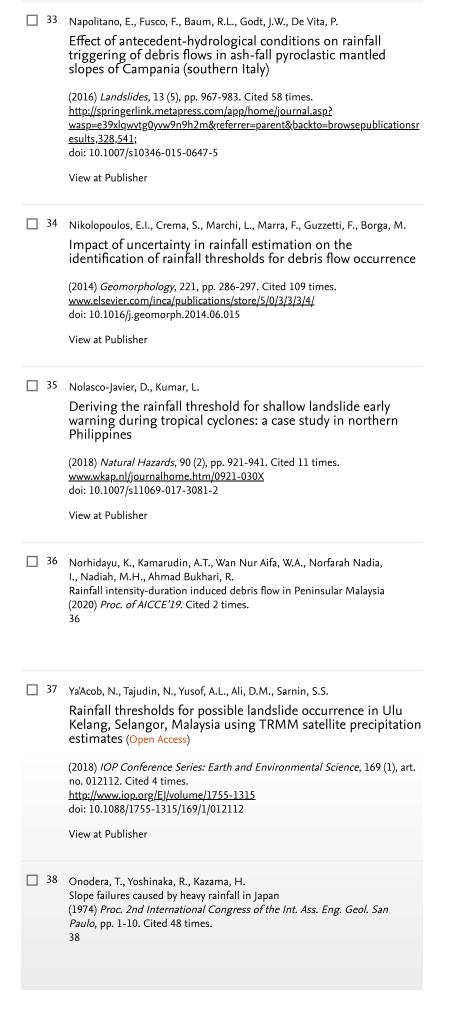
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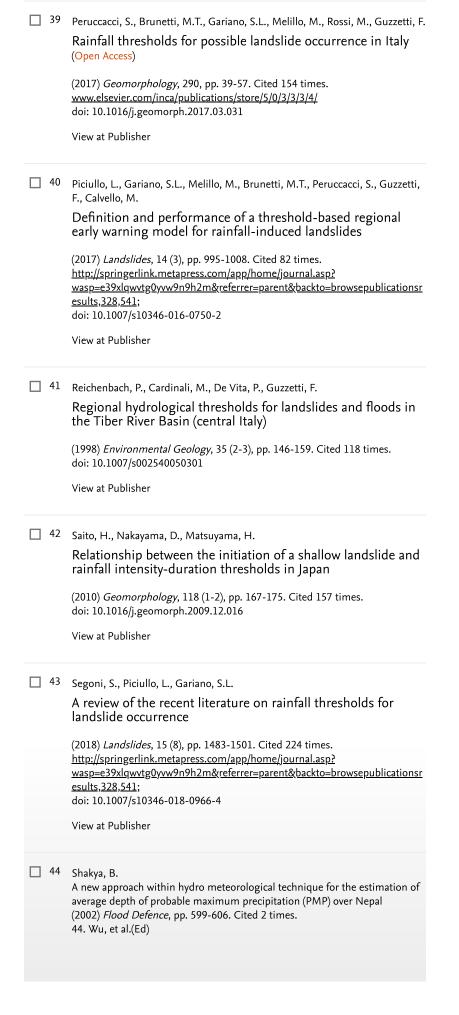




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