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Debris Flow, Environmental Fluid Mechanics, Wave Dynamics

## 期刊論文( (Journal Paper)

1. C.W. Shen, S.-H. Liu, Y.-C. Chen, K.-F. Liu (2016) Budget of landslide-induced sediment for the watersheds in Taiwan— a case study in pre-and post-typhoon morakot periods J**ournal of Taiwan Agricultural Engineering** 62(3):23-42
2. 魏士超、劉格非、黃亦敏、方耀民、尹孝元、黃效禹、林建良 (2018)，「愛玉子溪土石流之地動訊號特性與警戒方法之探討」，**中華水土保持學報**，49(2)，77-88。
3. Wei, S.-C., Li, H.-C., Shih, H.-J., and Liu, K.-F. (2018) Potential Impact of Climate Change and Extreme Events on Slope Land Hazard – A Case Study of Xindian Watershed, **Nat. Hazards Earth Syst. Sci.**, https://doi.org/10.5194/nhess-2017-262, (SCI, IF=2.51)
4. Hsu, Y.-C., Liu, K.-F., Shu, H.-M. (2019): Combining TRIGRS and DEBRIS-2D Models for A Debris Flow Simulation from Rainfall Infiltration Induced Shallow Landslides: A Case Validation of Daniao Tribe, **Water** doi:10.3390/w11050890 (SCI, IF=2.56, ci=78)
5. Shih-Chao Wei, Ko-Fei Liu (2019, Dec). Automatic debris flow detection using geophones. **Landslides** DOI 10.1007/s10346-019-01258-9..(SCI, IF=3.81, ci=11)
6. Liu K.F., Jhou J.M., Wei S.C. and Chien C.H. (2019, Jun). Tipping Bucket Rain Gauge Performance Analysis under Heavy Rain fall. **Advancements in Civil Engineering & Technology** DOI 10.31031/ACET.2019.03.000564. (SCI, IF=1.14, ci=3)
7. Chae B.G., Y.-H. Wu, K.-F. Liu, J.h. Choi, and H.-J. Park (2020) Simulation of Debris-Flow Runout Near a Construction Site in Korea, **Appl. Sci**. 10, 6079; doi:10.3390/app10176079 (SCI, IF=1.23)

## 研討會論文(Conference Papers) (2017-2020)

1. **Liu, K.F. Li, H.C. 2017, Social vulnerability index for natural disaster with case study for debris flows, Taiwan" The International Conference on Human Society and Culture (HSC2016), 8/19–21, Shenzhen, China (KeyNote)**
2. Liu, K. F., and S. C. Wei. 2017. A Complete Watershed Monitoring System in Shenmu Village, Taiwan. The 11th Asian Regional Conference of IAEG, Nov. 28-30, 2017, Kathmandu, Nepal.
3. Wei, S. C., K. F. Liu, Y. M. Huang, and Y. M. Fang. 2017. Characteristics of Ground Vibration Signal Produced by Debris Flows at Ai-Yu-Zi Creek, Taiwan. The 11th Asian Regional Conference of IAEG, Nov. 28-30, 2017, Kathmandu, Nepal.
4. Wei S.C.*, Liu K.F., Yin H.Y., Lin C.L. (2018) Detecting Debris Flow Using Ground

Vibration Signal. The 16th International Symposium on Geo-disaster Reduction, Aug. 27-31, 2018, Strasbourg, France.

5. Wei S.C.*, Liou J.W., Liu K.F. (2018) Grain-size Distributions Based on Automatic Image Processing. The 16th International Symposium on Geo-disaster Reduction, Aug. 27-31, 2018, Strasbourg, France.
6. Li P.C., Wei S.C.*, Liu K.F. (2018) Rheological Parameters Calibration for Unsteady Mud Flows in Concentric Cylinder Viscometer. The 16th International Symposium on Geo-disaster Reduction, Aug. 27-31, 2018, Strasbourg, France.
7. Liu K.F., Wei S.C., Yin H.Y., Lin C.L. (2018) Debris flow detection with geophones and video camera. 5th International Debris Flow Workshop & Symposium on Silk Roads Disaster Mitigation, Nov. 5-6, 2018 Beijing, China. **(Keynote)**
8. Wei S.C.*, Li P.C., Liu K.F. (2018) Transient Behavior of Bingham Fluid in Concentric Cylinder Viscometer. 5th International Debris Flow Workshop & Symposium on Silk Roads Disaster Mitigation, Nov. 5-6, 2018 Beijing, China. (Young Oral-report Award)
9. Liu K.F., Jhou J.M., Wei S.C.*, Chien C.H. (2019) Tipping Bucket Rain Gauge Performance Analysis under Heavy Rainfall. 7th International Conference on Debris-Flow Hazards Mitigation, (EI)
10. Yu Charn - Hsu, Ko Fei Liu, Hung Ming Shu (2019,). Debris flow assessment from rainfall infiltration induced landslide. 7th International Conference on Debris Flow Hazards Mitigation , Colorado - School of Mine, Colorado, USA. (EI).。
11. 劉格非, 2019 “流域土砂運移監測”。災害感知新技術國際學術研討會，北京。
12. Liu, K.F. (2019). Risk Assessment and Mitigation Strategy of Large Scale Potential Landslide. Nature Based Landslide Risk Management Training May 30-31, 2019, Hotel Taj Samudra, Colombo - Sri Lanka by WORLD BANK **(KEYNOTE)**

## 專書專章 (2016-2020)

1. Wu, Y.H., Liu, K.F., Chen, Y.C., Chiu, Y.J., Shih, S.S, 2016 “Simulation of mass movement in a large-scale watershed,” In (Sassa K. eds.) Landslide Dynamics: ISDR-ICL Landslide Teaching Tools, 143-158.
2. Choi, J.H., Chae, B.G., Liu, K.F., & Wu, Y.-H. (2016). Numerical analysis of debris flow hazards from case study. Landslides and Engineered Slopes. Experience, Theory and Practice, 2, 649-656
3. Liu, K.F., and Wu, Y.H., 2016 “Debris-2D Tutorial,” In (Sassa K. eds.) Landslide Dynamics: ISDR-ICL Landslide Teaching Tools, 108-117.
4. Abolmasov B., Fathani, T. F., Liu, K. F. and Sassa K., 2017 “Progress of the World Report on Landslides” in Advancing Culture of Living with Landslides , pp.219-226. DOI: 10.1201/b21520-73
5. Wu, Y.-H., Liu, K.F., Chen, Y.C., Chiu, Y.J., & Shih, S.S. (2018). TXT-tool 3.886-1.2: Simulation of mass movement in a large-scale watershed. In (Sassa K. eds.) Landslide Dynamics: ISDR-ICL Landslide Interactive Teaching Tools, 2, 251-262.
6. Liu, K.F., & Wu, Y.-H. (2018). TXT-tool 3.886-1.1: Debris-2D Tutorial. In (Sassa K. eds.)

Landslide Dynamics: ISDR-ICL Landslide Teaching Tools, 2, 181-189.

7. Liu K.F.*, Kuo T.I., Wei S.C.(2020) Debris flow detection using a video camera. In (Sassa K. et al. ed) Understanding and Reducing Landslide Disaster Risk, 2, 305-413