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Debris Flow, Environmental Fluid Mechanics, Wave Dynamics

期刊論文 (Journal Paper)

1. 李欣輯, 劉格非 2010 “土石流間接災損評估研究—以台中縣松鶴一溪為例” 中國土木水利工程學刊, 第 22 卷, 第 2 期, 第 159-166 頁。(EI)
2. M.-P. Tsai, Y.-C. Hsu, H.-C. Li, H.-M. Shu, K.-F. Liu (2011), "Application of simulation technique on debris flow hazard zone delineation: a case study in the Daniao tribe, Eastern Taiwan", Natural Hazards and Earth System Science, Vol. 11 (11), pp. 3053-3062. (SCI,IF=1.864)
3. Liu, K.F., Hsu, Y.C., Li, H.C. and Shu, H.M. 2011 “Numerical simulation of debris flow: A case study of the Daniao tribe debris flow in eastern Taiwan at August, 2009,” Italian Journal of Engineering Geology and Environment, Special Volume.
4. Liu, K.F. and Wu, Y.H. 2012 “Detecting field topography by using microwave.” Advanced Science Letters, Vol. 8, pp520-523. (doi:10.1166/asl.2012.2368) (SCI, IF=1.253)
5. Liu, K.F., Wu, Y.H. and Hsu, Y.C. 2012 “Homogenization theory applied to unsaturated solid-liquid mixture” Journal of Mechanics, Vol. 28, No. 2, pp329-335. (SCI, IF=0.408)
6. 劉格非, 吳映昕 2012 “同心圓柱間賓漢流體穩態流況” 中華水土保持學報, 第 43 卷, 第 3 期, 第 264-274 頁。(EI)
7. Wu, Y.H., Liu, K.F. and Chen, Y.C. 2013 Comparison between FLO-2D and Debris-2D on the application of assessment of granular debris flow hazards with case study. Journal of Mountain Science, Vol. 10(2): 293-304 (SCI, IF=1.000)
8. Liu, K.F., Wu, Y.H. and Chen, Y.C. 2013 Large scale simulation of watershed mass transport - A case study of TsengWen watershed. Natural Hazards, Vol. 67 (2): 855-867. (SCI, IF=1.529)
9. Hsin-Chi Li, Ko-Fei Liu, Yu-Charn Hsu 2013 Loss Curve Analysis of A debris Flow : A Case Study on The Daniao Tribe” Applied Mechanics and Materials Vols. 284-287, pp 1499-1510
10. Liu, K.F., Wei, S.C., Li, P.C. 2013 “The influence of accumulated precipitation on debris flow hazard area.” Journal of Chinese Soil and Water Conservation, 44(3):225-233. (in Chinese)
11. Y.H. Wu, K.F. Liu. 2014 “Formulation for Calibration of rheological

- parameters of Bingham fluid in Couette rheometer” , Transactions of ASEM. April, Vol. 137,
12. Wu, Y.H. and Liu, K.F. 2014 “On the Transient Flow of Bingham Fluid between Two Co-axial Cylinders under a Constant Wall Shear” Under consideration for publication in J. Fluid Mech.

研討會論文 (Conference Paper)

1. Liu, K.F. and Wu, Y.H. 2010 “The Assessment of Debris Flow Hazard in Korea Using Debris2D” , INTERPRAEVENT 2010-International Symposium in Pacific Rim, 2010.
2. 劉格非、吳映昕 2010 “同心圓柱間賓漢流體穩態流況之研究” , 第三十四屆全國力學會議。
3. 劉格非、吳映昕 2010 “應用均質化理論於非飽和靜止土壤內滲流問題之研究” , 第三十四屆全國力學會議。
4. Liu, K.F. and Wu, Y.H. 2011 “The unified theory of debris flow initiation by using homogenization theory,” The 5th International Conference on Debris-Flow Hazards Mitigation: Mechanics, Prediction, and Assessment, Italy. (EI)
5. Liu, K.F., Hsu, Y.C., Li, H.C. and Shu, H.M. 2011 ” Numerical simulation of debris flow: A case study of the Daniao tribe debris flow in eastern Taiwan at August, 2009,” The 5th International Conference on Debris-Flow Hazards Mitigation: Mechanics, Prediction, and Assessment, Proceedings, Italy. (EI)
6. 劉格非、吳映昕 2011 “同心圓柱間賓漢流體時變之流況” , 第三十五屆全國力學會議, 台南。
7. 劉格非、江宏晟 2011 “土體破壞過程之實驗觀察” , 第三十五屆全國力學會議, 台南。
8. Liu, K.F., Chen, Y.C. and , Wu, Y.H, 2012, “Large scale simulation of watershed mass transport – a case study of Tsengwen reservoir watershed” The 10th International Symposium on Mitigation of Geo-disasters in Asia” , Oct., Kyoto University, Japan. (Keynote)
9. Liu, K.F., Wu, Y.H. and Chen, Y.C., 2012 “Comparison between FLO-2D and Debris-2D on the application of assessment of granular debris flow hazards” , 2012 International Debris-Flow Workshop, Aug., Chengdu, China. (Keynote)
10. Liu, K.F., Li, H.C. and Wu, Y.H. 2012 “Assessment social impact of debris flow disaster by social vulnerability index” , The 10th International Symposium on Mitigation of Geo-Disaster in Asia, Kyoto, Japan.
11. Liu, K.F., Wei, S.C., 2012 “Solutions of laminar mud flow on rectangular channel” , The 10th International Symposium on Mitigation of Geo-Disaster in Asia, Shimane University, Japan.
12. Liu, K.F., Hsu, Y.C., 2013 “TRIGRS and DEBRIS-2D in Large Scale Sediment Disaster Assessment: Applied in Daniao Tribe Watershed in Taiwan” , The 11th International Symposium on Mitigation of Geo-Disaster in Asia, 22-28 Oct. 2013, Kathmandu, Nepal. (Keynote)
13. Liu, K.F., Wu, Y.H. , 2013 “Calibration Formula of Rheological Parameters of

- Bingham Fluid in Couette Rheometer” , The 11th International Symposium on Mitigation of Geo-Disaster in Asia, 22-28 Oct. 2013, Kathmandu, Nepal.
14. Liu, K.F., Wei, S.C., and Hsu, Y.C., 2013 “The influence of accumulated precipitation on debris flow hazard area” , The 11th International Symposium on Mitigation of Geo-Disaster in Asia, 22-28 Oct. 2013, Pokhara, Nepal.
 15. Liu, K.F., Wu, Y.H. , 2013 “The Influence of Countermeasures on Debris Flow Hazard Area with Numerical Simulation” , The 11th International Symposium on Mitigation of Geo-Disaster in Asia, 22-28 Oct. 2013, Pokhara, Nepal.
 16. Liu, K.F., Wei, S.C., and Wu, Y.H., 2014 “The influence of accumulated precipitation on debris flow hazard area” , World Landslide Forum 3, 2-6 Jun. 2014, Beijing, China
 17. Liu, K.F., Wu, Y.H., 2014 “The Influence of Countermeasures on Debris Flow Hazard Area with Numerical Simulation” , World Landslide Forum 3, 2-6 Jun. 2014, Beijing, China
 18. Liu, K.F. 2104, “Large scale sediment transport: Combine landslide area-volume relation, debris flow simulation and river sedimentation calculation to find large watershed sediment movement and storage change” , Int. Symposium on Geo-disaster reduction, Cal. St. Univ., Fullerton, CA, USA Sep. 5-7 (Invited)
 19. Liu, K. F., Chung, MC , Wang GS, Tan CH, Chi SY, Su TW, Chen MM, Fei LY, Shen CW, 2014 “Establishment of landslide bench mark monitoring sites in Taiwan” , Proceedings of KSEG Fall Conference / November 27 - 28, 2014 (Invited)

書 (Books)

1. Marguis Who’s who, 2012, p104-105. Liu, Ko-Fei, Chyan-Deng Jan, Ping Sien Lin and Hsin-Chi Li, 2012 “Progress of Geo-Disaster Mitigation Technology in Asia : Chap 4: Advances of Geo-Disaster Mitigation Technologies in Taiwan” F. Wang et al. (eds.), pp:77-103, Springer
2. Su-Chin Chen, Ko-Fei Liu, Lien-Kuang Chen, Chun-Hung Wu, Fawu Wang and Shih-Chao Wei, 2012 “Progress of Geo-Disaster Mitigation Technology in Asia : Chap 23: Catastrophic Deep-Seated Landslide at Xiaolin Village in Taiwan Induced by 2009.8.9 Typhoon Morakot” F. Wang et al. (eds.), pp:401-419, Springer
3. Ko-Fei Liu, Ying-Hsin Wu. 2013, “Introduction to Debris-2D – A Debris Flow Simulation Program : 3.886-1.1 *ICL Landslide Teaching Tools*” K. Sassa, B. He, M. Mcsaveney and O. Nagai (eds.). Apr, 2013: 238-246. (ISBN: 978-4-9903382-2-0)
4. Ko-Fei Liu, Hsin-Chi Li, Mei-Chun Kuo and Hui-Hsuan Yang, 2013, ‘Assessment Social Impact of debris flow disaster by Social Vulnerability Index : 5.886-1.2 *ICL Landslide Teaching Tools*” K. Sassa, B. He, M. Mcsaveney and O. Nagai (eds.) Apr, pp 410-412. (ISBN: 978-4-9903382-2-0).

其它(含技術報告)

1. 劉格非、2010「HYPERLINK "./2007-2011/故宮博物院極端降雨事件的淹水模擬」，

故宮博物院"/2007-2011/故宮博物院極端降雨事件的淹水模擬」，故宮博物院委託，臺灣大學水工所執行。

專利 (Patents)

類別	專利名稱	國別	專利號碼	發明人	專利權人	專利期間	國科會計畫編號
(A)	土石流變特性測量裝置	本國	199071	劉格非	劉格非	2004/3/1- 2021/6/6	
(A)	地下水測量之法與系統	本國	1225936	劉格非 黃名村	劉格非 黃名村	2004/6/6- 2021/9/12	NSC90-2625-Z-002-021
(A)	測量河川水域平均流速之方法	本國	1230783	劉格非 張書豪 莊素敏	劉格非	2005/4/11- 2021/5/22	
(A)	災害預警系統	中國	01124357.0	劉格非	劉格非	2001/7/27- 2021/7/27	NSC91-2625-Z-002-020