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Engineering Geology, Rock Mechanics, Slope Stability

### **期刊論文 (Journal Papers)**

1. 董家鈞、陳天健、陳江淮、**林銘郎** (2020) 大地工程發展史-天然災害，地工技術，164期，101-116 頁。
2. Yang, Kuo-Hsin, Chiang, Jung, Lai, Chao-Wei, Han, Jie, Ming-Lang Lin (2020) Performance of geosynthetic-reinforced soil foundations across a normal fault. *Geotextiles and Geomembranes* 48 (2020) 357–373. (SCI)
3. Lin, Hsi-Hung, **Lin, Ming-Lang**, Lu, Jia-Hao, Chi, Chung-Chi, Fei, Li-Yuan (2020) Deep-seated gravitational slope deformation in Lushan, Taiwan: transformation from cleavage-controlled to weakened rockmass-controlled deformation. *Engineering Geology*, 264  
<https://www.sciencedirect.com/science/article/pii/S0013795218319586> (SCI)
4. Weng, Meng-Chia, Lin, Ming-Lang, Lo, Chia-Ming, Lin, Hsi-Hung, Lin, Cheng-Han, Lu, Jia-Hao, Tsai, Shang-Jyun (2019) Evaluating failure mechanisms of dip slope using a multiscale investigation and discrete element modelling. *Engineering Geology*,  
<https://doi.org/10.1016/j.enggeo.2019.105303> (SCI)
5. Lin, Cheng-Han, Hung, Ching, Weng, Meng-Chia, **Lin, Ming-Lang**, Uzuoka, Ryosuke (2019) Failure mechanism of a mudstone slope embedded with steep anti-dip layered sandstones: case of the 2016 Yanchao catastrophic landslide in Taiwan. *Landslides*, 16:2233–2245,  
<https://doi.org/10.1007/s1034> (SCI)
6. Li, Chien-Hung, Lin, Ming-Lang, Huang, Wen-Chao (2019) Interaction between pile groups and thrust faults in a physical sandbox and numerical analysis. *Engineering Geology*, 252, 65-77. (SCI)
7. Lin, Cheng-Han, **Lin, Ming-Lang**, Peng, Hou-Ren, Lin, Hsi-Hung (2018) Framework for susceptibility analysis of layered rock slopes considering the dimensions of the mapping units and geological data resolution at various map scales. *Engineering Geology*, 246 (2018), 310-325. (SCI)
8. Cheng Hsueh Weng, **Ming Lang Lin**, Chia Ming Lo, His Hung Lin (2018) The influence of

- groundwater on the sliding and deposition behaviors of cataclinal slopes. *Water* 10 (9), 1179 (SCI)
9. Chia-Ming Lo, Meng-Chia Weng, Ming-Lang Lin, Shun-Min Lee & Kuo-Chen Lee (2018) Landscape evolution characteristics of large-scale erosion and landslides at the Putanpunas Stream, Taiwan. *Geomatics, Natural Hazards and Risk*, 9:1, 175-195, DOI:10.1080/19475705.2017.1414079 (SCI)
  10. 詹佩臻、謝沛宸、陸安、柳鈞元、林劭儒、李健宏、林銘郎 (2018) 0206 花蓮地震之米崙斷層地表變形破裂與人工設施互制關係. *地工技術*, 156 期, 79-90 頁
  11. 李健宏、詹佩臻、吳亮均、林銘郎 (2018) 跨斷層國道三號田寮 3 號橋與中寮隧道北口段變形機制, *中國土木水利工程學刊*, 第 30 卷, 1 期, 001-010 頁(EI)。
  12. Yeh, CH, Lin, ML, Chan, YC, Chang, KJ, Hsieh, YC (2017) Dip-slope mapping of sedimentary terrain using polygon auto-tracing and airborne LiDAR topographic data. *Engineering Geology*, 222(2017), 236-249. (SCI)
  13. 謝沛宸、陸安、詹佩臻、林銘郎 (2017) 為什麼土木系學生應該與地質系學生一起進行野外觀察?, *地質*, 36(2)期, 第 60-64 頁。
  14. Lo, CM, Huang, WK, and Lin, ML (2016) [Earthquake-induced deep-seated landslide and landscape evolution process at Hungtsaiping, Nantou County, Taiwan](#), *Environmental Earth Sciences* 75 (8), 1-16. (SCI)
  15. Lo CM, Lee CF, Lin ML (2016) Consideration of the Maximum Impact Force Design for the Rock-Shed Slab. *Journal of Geography & Natural Disasters*, 6: 169. doi:10.4172/2167-0587.1000169 (SCI)
  16. Huang, W.-J., W.-S. Chen, Y.-H. Lee, C.-C. Yang, M.-L. Lin, C.-S. Chiang, J.-C. Lee, and S.-T. Lu (2016) Insights from heterogeneous structures of the 1999  $M_w$  7.6 Chi-Chi earthquake thrust termination in and near Chushan excavation site, Central Taiwan, *J. Geophys. Res. Solid Earth*, 121, 339–364, doi:[10.1002/2015JB012174](#). (SCI)
  17. 詹佩臻、林銘郎、張國楨 (2016) 順層岩坡滑動破壞面之粗糙度特徵與尺寸效應, *中國土木水利工程學刊*, 28 卷, 第 2 期, 129-137。(EI)

### 研討會論文 (Conference Papers)

1. Chang, Yu-Hsuan, Lin, Cheng-Han and Lin, Ming-Lang (2020). [Influences of Joint Persistence and Groundwater on Wedge Failure Potential of Jointed Rock Slope](#). 2020 EGU-7303.
2. Hung Chien-Hui, Lin, Cheng-Han and Ming-Lang Lin (2020). Discrete Element Modeling on

- Deformation Pattern of Composite Strata Induced by Repeated Thrust Faulting: Case Study of Chushan Site, Central Taiwan. 2020 EGU-6377.
3. Hsieh, Pei-Chen and Lin, Ming-Lang (2018, November). "Block Toppling Induced by Differential Settlement of Bearing Layers". The Thirty-First KKHTCNN Symposium on Civil Engineering, November 22-24, 2018, Kyoto, Japan.
  4. Hung, Chien-Hui, Liu, Chun-Yuan, Li, Chien-Hung and Lin, Ming-Lang (2018, November). "The Deformation Pattern of Gravel Layer with Different Fabrics Induced by Thrust Faulting". The Thirty-First KKHTCNN Symposium on Civil Engineering, November 22-24, 2018, Kyoto, Japan.
  5. Chang, Yu-Hsuan, Lin, Shao-Ru and Lin, Ming-Lang (2018, November). "Calculating the Volume of Wedge Failure by Photogrammetry and 3-D Point Cloud Analysis". The Thirty-First KKHTCNN Symposium on Civil Engineering, November 22-24, 2018, Kyoto, Japan.
  6. 謝沛宸、林劭儒、陸安、林銘郎（2018）。軟硬岩層形成逆向坡承載破壞之研究，2018 岩盤工程研討會，台南，2018/09/06-07，350-355。
  7. 陸安、林劭儒、謝沛宸、翁正學、林銘郎（2018）。向上滲流水對順向節理岩體邊坡可滑動體形成之影響，2018 岩盤工程研討會，台南，2018/09/06-07，356-361。
  8. 謝沛宸、陸安、林銘郎（2018 年 5 月）。軟硬岩層形成之逆向坡承載力破壞。中華民國地質學會與中華民國地球物理學會 107 年年會暨學術研討會，嘉義，臺灣。
  9. 林劭儒、謝沛宸、陸安、黃韋凱、林銘郎（2018 年 5 月）。以無人飛行載具(UAV)攝影測量分析節理性質對楔型破壞行為之影響。中華民國地質學會與中華民國地球物理學會 107 年年會暨學術研討會，嘉義，臺灣。
  10. 陸安、謝沛宸、林銘郎（2018 年 5 月）。向上滲流水對順向節理岩體邊坡可滑動形成的影響。中華民國地質學會與中華民國地球物理學會 107 年年會暨學術研討會，嘉義，臺灣。
  11. 柳鈞元、李健宏、林銘郎（2018 年 5 月）。斜移斷層之上覆土層和淺基礎互制行為。中華民國地質學會與中華民國地球物理學會 107 年年會暨學術研討會，嘉義，臺灣。
  12. Hsieh, Pei-Chen, Huang, Wei-Kai, Chan, Pei-Chen, and Lin, Ming-Lang (2018). "An Overhang Obsequent Slope Landslide Due to Bearing Failure on Coastal Area in Northern Taiwan". 20th EGU General Assembly, EGU2018, Proceedings from the conference held 4-13 April, 2018 in Vienna, Austria, p.15446.
  13. Lu An, Hsieh Pei-Chen, Huang Shao-Cheng, Wang Tai-Tien, Yeh Chin-Hsiang, Lin His-Hung and Lin Ming\_lang (2017) The Influence of Control Factors on History of Pore Pressure Within Preferential Flow Path on Rock Slope Stability. American Geophysical Union's Fall Meeting 2017, AGU NH43A-0187, New Orleans, America.

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15. Liu, Chun-Yuan and Lin, Ming-Lang (2017, November). "Co-seismic ground deformation and shallow foundation displacement of overburden cohesive soil induced by oblique-slip fault". The Thirtieth KKHTCNN Symposium on Civil Engineering, November 2-4, 2017, Taipei, Taiwan.
16. Wu, LC, Li, CH, Chan, PC, Lin, Ming-Lang (2017). The Deformation of Overburden Soil and Interaction with Pile Foundations of Bridges Induced by Normal Faulting. 2017 EGU General Assembly Conference, Vienna, Austria.
17. Lu, An, Hsieh, Pei-Chen, Wu, LC, Lin, Ming-Lang (2017). Using Discrete Element Method to Simulate Influence of Vertical Joints and Upward Groundwater on The Stability of Dip Slope: A Case Study on Formosa Freeway. 2017 EGU General Assembly Conference, Vienna, Austria.
18. Hsieh, Pei-Chen, Weng, Cheng-Hsueh, Lu, An, Lin, Ming-Lang (2017). A Case Study of the Activity Gravitational Deformation Slope on One Newly Rebuild Highway Bridge in Taitung Longitudinal Valley of Taiwan. 2017 EGU General Assembly Conference, Vienna, Austria.
19. 翁正學, 林錫宏, 吳亮均, 林銘郎, 楊智翔, 蔡易辰, 黃耀儀, 張少華, 凌家宜 (2017) 由工程地質角度評估烏來忠治崩塌地災害潛勢。中華民國地球物理學會與中華民國地質學會 106 年年會暨學術研討會, 臺南, 106 年 5 月 10~11 日、論文集-O-2-NH1-1。
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21. Li, Chien-Hung, Wum Liang-Chun, Chan, Pei-Chen, Lin, Ming-Lang (2016) Interaction Behavior between Thrust Faulting and the National Highway No. 3 - Tianliao III bridge as Determined using Numerical Simulation. American Geophysical Union's 49th annual Fall Meeting 2016, AGU NH53C-2011, San Francisco, America.
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23. Weng, Cheng-Hsueh, Shao-Cheng, Hsieh, Pei-Chen, Lin, Ming-Lang (2016) The Influence of Upward Groundwater between Joints on the Stability and the Behavior of Dip Slope Failures. American Geophysical Union's 49th annual Fall Meeting 2016, AGU NH41B-1780, San Francisco, America. (獲優良論文獎)
24. Wu, Liang-Chun, Li, Chien-Hung, Lin, Ming-Lang (2016). Interaction between Thrust Faulting

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27. Lin, ML, Lee, KC, Lo, CM, Weng, MC, Lee, SM (2016) Multi-stage evolution process of large scale landslides at the Patanpunas stream, Taiwan, EGU General Assembly Conference Abstracts 18, 2361, Vienna, Austria.
28. Wong, PS, Lin, ML (2016) preliminary study on surface ground deformation near shallow foundation induced by strike-slip faulting, EGU General Assembly Conference Abstracts 18, 6968, Vienna, Austria.
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30. 林錫宏、林銘郎、紀宗吉、劉桓吉、呂家豪、蘇泰維 (2016) 利用孔內探測技術探討順向坡的岩體滑動變形之研究，2016 岩盤工程研討會，高雄，2016/11/24-25，245-253。
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### **專書、技術報告 (Monographs, Technical reports)**

1. 林銘郎 (2019) 跨越活動斷層橋梁基礎互制行為研究(106-2221-E-002-085-MY2) 期末報告。
2. 林銘郎 (2019) 整合不同調查尺度之岩坡破壞潛勢區評估、分析及監測研究—子計畫:不連續面位態及延續性對岩坡崩塌及滑動機制之影響(II)( 107-2625-M-002-018-) 期末報告。
3. 林銘郎 (2018) 整合不同調查尺度之岩坡破壞潛勢區評估、分析及監測研究—子計畫:不連續面位態及延續性對岩坡崩塌及滑動機制之影響(I)(106-2625-M-002-015-) 期末報告

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5. **林銘郎** (2017) 斜移斷層引致上覆土層變形行為及對結構物影響之研究(II)(104-2221-E-002-160-MY2) 期末報告
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