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Tunnel Engineering, Rock Mechanics, Tunnel Maintenance, Engineering Geology

(一) SCI/Scopus期刊論文 (☒表通訊作者)

1. Lo, P.C., W. Lo, Y.C., Chiu, T.T. Wang☒ (2021): Movement characteristics of a creeping slope influenced by river erosion and aggradation: Study of Xinwulü River in southeastern Taiwan, *Engineering Geology*, 295, 106443.
2. Lo, P.C., W. Lo, T.T. Wang☒, Y.C. Hsieh (2021): Application of geological mapping using Airborne-based LiDAR DEM to tunnel engineering: Example of Dongao Tunnel in northeastern Taiwan. *Applied Sciences*, 11, 4404.
3. Wang, T.T.☒, O.L.A. Kwok, F.S. Jeng (2021): Seismic response of tunnels revealed following the Chi-Chi earthquake: a review, *Engineering Geology*, 287, 106090.
4. Tsao, M.C., W. Lo, W.L. Chen, T.T. Wang☒ (2021): Landslide-related maintenance issues around mountain road in Dasha River section of Central Cross Island Highway, Taiwan, *Bulletin of Engineering Geology and the Environment*, 80, 813-834.
5. Wang, T.T.☒, F.S. Jeng, T.T. Lee (2020): Environmental impact of Hsuehshan Tunnel on water quality at Feitsui Reservoir and its tributaries, *Environmental Monitoring and Assessment*, 192, 700.
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11. Chiu, Y.C., C.H. Lee, T.T. Wang☒ (2017): Lining crack evolution of an operational tunnel influenced by slope instability, *Tunnelling and Underground Space Technology*, 65, 167-178.
12. Wang☒, T.T., S.S. Zhan, C.H. Chen, W.C. Su (2017): Characterizing fractures to mitigate inrush of water into a shaft using hydrogeological approaches, *Tunnelling and Underground Space*

Technology, 61, 205-220.

(二) 非 SCI 期刊論文：

1. 李紫彤、陳玟伶、楊宜蓉、鄭富書、王泰典、劉曉樺、曹孟真、黃奉琦(2021)：精細測繪於岩坡脆弱度評估及監測應用，*中國土木水利工程學刊*，33(2)，151-162。(EI)
2. 邱雅筑、王泰典、黃燦輝(2021)：隧道維護管理發展現況、回顧暨展望，*地工技術*，168，5-16。
3. 羅百喬、潘立慈、羅偉、李紫彤、陳玟玲、王泰典、謝有忠(2021)：板岩片岩交界帶附近邊坡穩定與岩體工程特性探討～以南橫公路摩天下馬沿線為例，*地工技術*，167，19-28。
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12. 王泰典、莊海岳、蘇威元、邱雅筑、羅百喬(2017)：無人載具攝影產製數值地表模型在隧道洞口段及倒懸邊坡崩塌調查的應用，*地質*，36(3)，55-60。
13. 李文正、王泰典、陳營富、廖吳章(2017)：台 9 線 112K+600 致災原因研析及工程改善報告，*臺灣公路工程*，43(7)，2-38。
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(三) 研討會論文(Conference papers)：

1. Lo, P.C., Y.C. Chiu, T.T. Wang, W. Lo (2021.10): Spatial characteristics of a deep-seated gravitational slope deformation case in Taiwan: insights from long-term, multiple types of geodetic surveys, *the 3rd European Regional Conference of IAEG*, Athens, Greece, 188-189,
2. 黃宥傑、蘇仁偉、蘇芳郁、王泰典、鄭富書(2020)：板岩邊坡穩定受不連續面影響探討—以

田古爾溪口附近為例，第 18 屆大地工程學術研究討論會，墾丁，B27。

3. 李紫彤、王楷霖、陳玟伶、王泰典(2020)：倒懸邊坡潛在岩塊穩定性之微振動特性探討-以物理模型實驗驗證，第 18 屆大地工程學術研究討論會，墾丁，E17。
4. 陳玟伶、曹孟真、王泰典、鄭富書(2020)：岩坡上潛在移動岩塊辨識與視覺化技術，第 18 屆大地工程學術研究討論會，墾丁，P05。(本文獲選為特優論文)
5. 楊宜蓉、Johnson, K.M.、王泰典、鄭富書(2020)：利用震源機制解與大地震同震應力變化量逆推地殼三維應力場與軸差應力絕對值，以日本 311 大地震為例，第 18 屆大地工程學術研究討論會，墾丁，I09。
6. 曹家銘、詹尚書、王泰典(2020)：裂隙岩體水力特性代表性單元體積評估及平行驗證程序，第 18 屆大地工程學術研究討論會，墾丁，I17。
7. Chiu, Y.C., T.T. Wang (2020.06): Quantified Features of Field Monitoring from a Mountain Tunnel Before and After Reinforcement, *ISRM International Symposium Eurock 2020 – Hard Rock Engineering*, Trondheim, Norway.
8. Wang, T.T., W.L. Chen, F.S. Jeng, M.C. Tsao, W. Lo, W.J. Lee (2020): Engineering geological factors affect maintenance of Dasha River section of Tai-8 Highway, *ISRM International Symposium Eurock 2020 – Hard Rock Engineering*, Trondheim, Norway.
9. Shu, P.Y., C.Y. Lin, H.H. Li, T.W. Cheng, T.H. Ueng, T.T. Wang (2019): Dynamic strength of rock containing regular sawteeth joints at various loading rates and angles. *The 5th ISRM Young Scholars' Symposium on Rock Mechanics and International Symposium on Rock Engineering for Innovative Future*, Okinawa, Japan. 3-3-4.
10. Lo, P.C., W. Lo, T.T. Wang, Y.C. Chiu (2019): Geological characteristics of tunnel surrounding rocks in heavily deformed ground: Case study of Dongao Tunnel, Taiwan. *The 5th ISRM Young Scholars' Symp. on Rock Mechanics and Int. Symp. on Rock Eng. for Innovative Future*, Okinawa, Japan.3-5-3.
11. Tsao, M.C., W.L. Chen, F.S. Jeng, T.T. Wang (2019): Influence of engineering geological characteristics on highway maintenance: Example of Dasha River section of Central Cross-Island Highway. *The 5th ISRM Young Scholars' Symp. on Rock Mechanics and Int. Symp. on Rock Eng. for Innovative Future*, Okinawa, Japan. P-30.
12. Wang, T.T., T.T. Lee, K.L. Wang, M.C. Tsao (2019): Seismic characteristics of micro-tremors of rock block and related slope revealed by physical model experiment. *The ISRM 14th International Congress of Rock Mechanics*, Foz do Iguaçu, Brazil.
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15. Chiu, Y.C., C.L. Kung, T.T. Wang (2019): Site characteristics of a rock tunnel based on field-monitored seismic response. *2019 Rock Dynamics Summit*, Okinawa, Japan.
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heavily deformed ground: Case study of Dongao Tunnel, Taiwan. *2019 World Tunnel Congress*, Naples, Italy.

17. Hsiao, F.Y., C.C. Lin, T.T. Wang (2018): Assessment of hard rock strength degradation under high stress condition, *The 10th Asian Rock Mechanics Symposium- ISRM International Symposium*, Singapore.
18. Chiu, Y.C., P.C. Lo, W.Y. Shu, H.Y. Chuan, T.T. Wang (2018): Investigating continual collapse of a coastal highway cliff, *The 10th Asian Rock Mechanics Symposium- ISRM International Symposium*, Singapore.
19. Wang T.T., M.C. Tsao, W. Lo (2018): Risk identification and mitigation for potential rock falls through point clouds obtained by LiDAR techniques: A case study in eastern Taiwan, *2018 AEG/IAEG Congress*, San Francisco, TS34.
20. 許珮筠、林辰宇、李宏輝、翁祖炘、王泰典(2018): 以實驗設計法探討個別元素法微觀組構因子與介觀力學特性參數關係, *2018 岩盤工程研討會論文集*, 9月6-7日, 台南, 75-80。
21. 曹孟真、王泰典(2018): 應用地面 LiDAR 掃描及 UAV 影像產製數值地表模型精細化落石分析—以台2線68k附近邊坡為例, *2018 岩盤工程研討會論文集*, 9月6-7日, 台南, 160-166。
22. 羅百喬、羅偉、莊海岳、吳璿焜、陳玟伶、王泰典(2018): 利用近景攝影測量產製精細地表模型應用於露頭不連續面調查—以台7線牛鬥橋鄰近一斷層通過的邊坡為例, *2018 岩盤工程研討會論文集*, 9月6-7日, 台南, 167-171。
23. 陳玟伶、曹孟真、丁原智、王泰典(2018): 應用多期航照探討公路線形變化及邊坡失穩影響因素—以台8線泰山隧道附近為例, *2018 岩盤工程研討會論文集*, 9月6-7日, 台南, 177-182。
24. 邱雅筑、羅百喬、蘇威元、莊海岳、王泰典(2018): 臨海公路陡峭邊坡持續崩塌機制之調查研究, *2018 岩盤工程研討會論文集*, 9月6-7日, 台南, 207-212。
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28. Chiu, Y.C., P.C. Lo, T.T. Wang (2017): Characterizing microtremor signals of a slope with deep-seated gravitational deformation, *AfriRock 2017-ISRM International Symposium: Rock Mechanics for Africa*, October 3-5, Cape Town, South Africa, 52.
29. Tsao, M.C., T.T. Wang (2017): Identification of potential rock wedge controlled rockfalls using ground-based LiDAR techniques: A case study in eastern Taiwan, *AfriRock 2017-ISRM International Symposium: Rock Mechanics for Africa*, October 3-5, Cape Town, South Africa, 22.
30. Chiu, Y.C., B.C. Lo, W. Lo, T.C. Chen, T.T. Wang (2017): Case study on a dip slope influenced by riverbank erosion and highway construction, *Proceedings of the 5th International Conference*

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32. 羅百喬、邱雅筑、陳天健、羅偉、王泰典(2017)：順向坡地形變化及穩定影響因素探討，第17屆大地工程學術研究討論會論文集，8月30日-9月1日，宜蘭，57。
33. 劉曉樺、王泰典、鄭富書、黃燦輝(2017)：圍岩應力狀態及節理面剪脹效應對岩栓支撐功效的影響，第十六屆海峽兩岸隧道與地下工程學術與技術研討會論文集，8月19-20日，貴州貴陽，168-175。
34. 徐立政、王泰典、陳逢時、傅賜榮、李亮瑩(2017)：三維雷射掃瞄技術應用於大型雙孔隧道開挖中間柱安全監測，第十六屆海峽兩岸隧道與地下工程學術與技術研討會論文集，8月19-20日，貴陽，300-307。
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37. Lo, P.C., T.C. Chen, W. Lo, T.T. Wang (2017): Influence of river bank erosion and artificial cutting on dip slope stability, *Proceedings of the 2017 ISRM Young Scholars' Symposium on Rock Mechanics (YSRM 2017) & 2017 International Conference on New Developments in Rock Mechanics and Geotechnical Engineering (NDRMGE 2017)*, May 10-13, Jeju, Korea, 157-160.
38. Chiu, Y.C., S.T. Huang, T.T. Wang, T.H. Huang (2017): An innovative modeling simulating 3D displacement induced lining crack pattern for operational tunnels, *Proceedings of the 2017 ISRM Young Scholars' Symposium on Rock Mechanics (YSRM 2017) & 2017 International Conference on New Developments in Rock Mechanics and Geotechnical Engineering (NDRMGE 2017)*, May 10-13, Jeju, Korea, 300-303.
39. Tsao, M.C., T.T. Wang (2017): Forensic wedge instability-induced failure of gallery tunnel through ground-based LiDAR point cloud interpretation, *Proceedings of the 2017 ISRM Young Scholars' Symposium on Rock Mechanics (YSRM 2017) & 2017 International Conference on New Developments in Rock Mechanics and Geotechnical Engineering (NDRMGE 2017)*, May 10-13, Jeju, Korea, 372-375.

(四) 專書及其他

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