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期刊論文著述 (* Corresponding Author) (作者是依 paper 格式)

Dang, M.-Q., S.-J. Wang*, C.-C. Fu, H.-D. Truong.

Coastal Flowing Artesian Wells and Submarine Groundwater Discharge Driven by Tidal Variation at TaiCOAST Site in Taoyuan, Taiwan

Journal of Hydrology: Regional Studies, accepted, 2024. (SCI)

Ngo, T.-M.-L., S.-J. Wang*, P.-Y. Chen

Assessment of Future Climate Change Impacts on Groundwater Recharge Using Hydrological Modeling in the Choushui River Alluvial Fan, Taiwan, Water, 16(3), 419, 2024. (SCI)

莊信宏、王士榮*

以河床出入滲試驗探討東港溪流域地下水與河川交換量季節性特徵，
農業工程學報，2024。(EI)

Wang S.-J.; Nguyen Q.C.; Lu Y.-C.; Doyoro Y.G.; Tran D.-H.

Evaluation of geological model uncertainty caused by data sufficiency using groundwater flow and land subsidence modeling as example

Bulletin of Engineering Geology and the Environment, 81(8), August 2022. (SCIE)

Duc-Huy Tran, Shih-Jung Wang, Quoc Cuong Nguyen

Uncertainty of Heterogeneous Hydrogeological Models in Groundwater Flow and Land Subsidence Simulations – A Case Study in Huwei Town, Taiwan

Engineering Geology, 298(5), 106543, March 2022. (SCI)

Shih-Jung Wang, Jian-Yu Chen, Kuo-Chin Hsu

Investigation of Cross-Interactions of Coupled Thermal-Hydraulic-Mechanical Model Using Stochastic Simulations

Computers and geotechnics, 133, 104020, May 2021. (SCI)

Shih-Jung Wang, Cheng-Haw Lee, Chen-Feng Yeh, Yong Fern Choo, and Hung-Wei Tseng

Evaluation of Climate Change Impact on Groundwater Recharge in Groundwater Regions in Taiwan.

Water, 13(9), 1153, May 2021. (SCI)

邱正鈞、萬昱廷、王士榮*

以深度學習模型進行地下水位預測與抽水水量推估
農業工程學報，第六十六卷，第四期，1-15 頁，12 月 2020。

Duc-Huy Tran and Shih-Jung Wang

Land subsidence due to groundwater extraction and tectonic activity in Pingtung Plain, Taiwan

Proc. IAHS, 382, 361-365, APR 2020. (EI)

王士榮*

濁水溪流域地下水資源開發與管理

台灣水利，第六十七卷，第一期，43-67 頁，3 月 2019。 (EI)

Wang, S.-J.*, and K.-C. Hsu

Stochastic Analysis of Thermal-Hydraulic- Mechanical Modeling for Buffer Material in Nuclear Waste Repository

Poromechanics VI - Proceedings of the 6th Biot Conference on Poromechanics, 787-794, Paris, France, July 2017. (EI)

Wang, S.-J.*, K.-C. Hsu, C.-L. Wang, W.-C. Lai, and L.-T. Hsu

Evaluation of Hydraulic Properties of Aquitards Using Earthquake-Triggered Groundwater Variation Groundwater, 2017. (SCI)

研討會論文

Tran, D.-H.* S.-J. Wang, and J.-J. Dong,

From Boreholes to Models: Understanding the Influence of Spatial Borehole Density on the Construction of 3D Heterogeneously Hydrogeological Models

AOGS 2024 21st Annual Meeting, 2024/06/23

Wang, S.-J.* and H.-D. Truong

Coupled HMC Model for the Investigation of the Influences of Geological Model Complexity in Simulating Seawater Intrusion and Land Subsidence

Japan Geoscience Union Meeting 2024, 2024/05/26

Chen, Y.-H.* and S.-J. Wang

Investigation of sustainable resource management of Taiwan Jiaoxi hot spring by integrating the hydrothermal numerical simulation in a heterogeneous hydrogeological model

Japan Geoscience Union Meeting 2024, 2024/05/26

Dang, M.-Q.*, F.-H. Hsu, C.-C. Su, S.-J. Wang, C.-C. Fu, I.-T. Lin

Investigation of Submarine Groundwater Discharge in Northwestern Coastal Taiwan through Radium Isotopes

Japan Geoscience Union Meeting 2024, 2024/05/26

高靖淵*、王士榮

以清水地熱案場簡化模型建立熱-水-力耦合數值模式並進行參數敏感度分析

2023 第十五屆地下水資源及水質保護研討會及臺灣地下水資源暨水文地質學會年會, 2023/10/18

陳映涵*、王士榮

以異質地質模型與數值模式探討礁溪溫泉水資源管理，

2023 第十五屆地下水資源及水質保護研討會及臺灣地下水資源暨水文地質學會年會, 2023/10/18

Truong, H.-D* and S.-J. Wang

Developing a Coupled Hydraulic – Mechanical - Chemical Model to Investigate Seawater Intrusion and Land Subsidence due to Groundwater Over-exploitation in Pingtung Plain, Taiwan

2023 第十五屆地下水資源及水質保護研討會及臺灣地下水資源暨水文地質學會年會, 2023/10/18

Tran, D.-H.*, S.-J. Wang, C.-R. Chen, Y.-H. Yang

Evaluating the Hydromechanical Interactions in the Context of Mountain Block Recharge: A Case Study around Douliu Foothill to Choushui River Alluvial Fan

2023 第十五屆地下水資源及水質保護研討會及臺灣地下水資源暨水文地質學會年會, 2023/10/18

王士榮*、楊詠涵、陳德輝

耦合地層下陷模擬受到不同複雜度水文地質模型之影響探討

第二十六屆水利工程研討會, 2023/08/29

Tran, D.-H*, Wang, S.-J., I-Y. Wu, S.-C. Wu, C.-W. Lin

Using a Heterogeneous Hydrogeological Model to Quantify the Deep Compression due to Shallow Groundwater Pumping

第二十六屆水利工程研討會, 2023/08/29

Tran, D.-H*, Wang, S.-J., Dong, J.-J., 2023,

Borehole densities induced uncertainty in heterogeneously hydrogeological models,

中華民國地球物理學會與中華民國地質學會 112 年暨學術研討會, 2023/05/17

Marginingsih, A. S.*, S.-J. Wang

The Influences of Hydrogeological Models on Pore Water Pressure Buildup Triggered by Seismic Wave Propagation

中華民國地球物理學會與中華民國地質學會 112 年暨學術研討會, 2023/05/17

Nguyen, N.-T.-V.*, and S.-J. Wang

Spatiotemporal Variations in the Hydromechanical Property of Aquifers in Choushui River Alluvial Fan, Taiwan

中華民國地球物理學會與中華民國地質學會 112 年暨學術研討會, 2023/05/17

王士榮、楊詠涵*

水文地質模型對耦合地層下陷模擬之影響探討

中華民國地球物理學會與中華民國地質學會 112 年暨學術研討會, 2023/05/17

簡佑安*、王士榮、陳德輝

應用數值模擬方法訂定臺北盆地地下水管理水位

中華民國地球物理學會與中華民國地質學會 112 年暨學術研討會, 2023/05/17

Tran Duc Huy 陳德輝; Shih-Jung Wang 王士榮

Land subsidence due to groundwater extraction and tectonic activity in Pingtung Plain, Taiwan

Tenth International Symposium on Land Subsidence. 2023/04/17

Wang, S.-J.*, Nguyen Q.-C., Y.-C. Lu, Y. G. Doyoro, and D.-H. Tran

Data Availability induced Geological Model Uncertainty in Groundwater Flow and Land Subsidence Simulations

Tenth International Symposium on Land Subsidence. 2023/04/17

Tran Duc Huy 陳德輝; Shih-Jung Wang 王士榮

Using Geostatistical Approach to Assess the Hydrogeological Model Uncertainty on Groundwater Flow and Land Subsidence in Huwei Township

International Symposium on Geotechnical Safety and Risk (ISGSR 2022), 2022/12/14

YUNG-HAN YANG 楊詠涵; Shih-Jung Wang 王士榮

以水力耦合模式探討不同複雜度地質模型對地層下陷模擬之影響—以雲林地區為例
農業工程研討會. 2022/11/30.

Shih-Jung Wang 王士榮; SIN-HONG JHUANG 莊信宏

東港河流域地下水與河川交換量季節特徵

2022 第十四屆地下水資源及水質保護研討會及臺灣地下水資源暨水文地質學會年會, 2022/11/09.

Chien Yu An 簡佑安; Shih-Jung Wang 王士榮

以數值模式探討臺北盆地地下水資源管理策略

2022 第十四屆地下水資源及水質保護研討會及臺灣地下水資源暨水文地質學會年會, 2022/11/09.

YUNG-HAN YANG 楊詠涵; Shih-Jung Wang 王士榮; Tran Duc Huy 陳德輝

不同複雜度地質模型與非線性參數對地層下陷模擬之影響—以雲林地區為例

2022 第十四屆地下水資源及水質保護研討會及臺灣地下水資源暨水文地質學會年會, 2022/11/09.

Ngo Thi My Linh 吳氏馬林; Shih-Jung Wang 王士榮; Pei Chen 陳沛芄

Assessment of future climate change impacts on streamflow and groundwater by hydrological modeling in the Choushui River Alluvial Fan, Taiwan

2022 第十四屆地下水資源及水質保護研討會及臺灣地下水資源暨水文地質學會年會, 2022/11/09.

Tran Duc Huy 陳德輝; Shih-Jung Wang 王士榮; YUNG-HAN YANG 楊詠涵; Chien Yu An 簡佑安

Assessment on the Deep Compression due to Shallow Groundwater Pumping by Using a Heterogeneous Hydrogeological Model

2022 第十四屆地下水資源及水質保護研討會及臺灣地下水資源暨水文地質學會年會, 2022/11/09.

Dang Minh Quan 鄧明君; Shih-Jung Wang 王士榮

Using a Multiphysical Model to Investigate Submarine Groundwater Discharge Under Tidal Variations at a Coastal Site in Taoyuan City
AOGS2022 Virtual, 2022/08/01.

Tran Duc Huy 陳德輝; Shih-Jung Wang 王士榮

Revealing Deep Displacement Mechanism induced by Seasonal Variations Beneath the Zone of Human Activity in Taiwan
臺灣地球科學聯合學術研討會(TGA), 2022/06/07.

Agustina Shinta Marginingsih 馬金寧; Shih-Jung Wang 王士榮

Investigating the Influences of Various Complexity of Hydrogeological Models on Pore Water Pressure Distribution Due to Seismic Wave Propagation
2022 臺灣地球科學聯合學術研討會(TGA), 2022/06/07.

Shih-Jung Wang ;Kuo-Fong Ma ;傅慶州;賴文基 ;許鶴瀚 ;江協堂 ;何彥德

花蓮米崙斷層地下水整合觀測計畫

2022 臺灣地球科學聯合學術研討會(TGA), 2022/06/07

Nguyen Thi Rin Gan; Shih-Jung Wang

Revealing the aquifer confinement potential throughout the impact of barometric pressure on groundwater system in Donggang River Watershed, Taiwan

2022 臺灣地球科學聯合學術研討會(TGA), 2022/06/07

Stanley SAINT PREUX; Shih-Jung Wang

Investigation on the Mechanism of Step Groundwater Level Variations in Different Aquifers in Chianan and Pingtung Plains During the 2010 Jiashan Earthquake in Taiwan

2022 臺灣地球科學聯合學術研討會(TGA), 2022/06/07

Tran, D.-H. and S.-J. Wang

Land subsidence due to groundwater extraction and tectonic activity in Pingtung Plain, Taiwan

Tenth International Symposium on Land Subsidence, 2022/5/17

Duc-Huy Tran, Yao-An Chien, Shih-Jung Wang

The Simulations of 3D Heterogeneous Hydrogeological Model: from Local to Basin Scales

2022 岩盤工程暨工程地質研討會, 2022/1/20

Tran, D. H.*, S.-J. Wang, and Q. C. Nguyen

Stochastic Groundwater Flow and Land Subsidence Modeling in Heterogeneous Hydrogeological Models in Huwei Town, Yunlin County

中華民國地球物理學會與中華民國地質學會 110 年年會暨學術研討會, 2021/11/22

Nguyen, Q. C.*, S.-J. Wang, D. H. Tran, and Y. G. Doyoro

Assessing the geological model uncertainty using groundwater flow and land subsidence simulations

中華民國地球物理學會與中華民國地質學會 110 年年會暨學術研討會, 2021/11/22

莊信宏*、王士榮

探討地質材料垂向解析度對水文地質異質場模型建置與地下水流模擬之影響—以屏東東港溪流域為例

第十三屆地下水資源及水質保護研討會暨臺灣地下水資源暨水文地質學會年會, 2021/10/8

Tran, D. H.* and S.-J. Wang

Using Aquifer Reflection to Investigate the Mechanism of Shallow Compaction in Pingtung Plain, Taiwan

第十三屆地下水資源及水質保護研討會暨臺灣地下水資源暨水文地質學會年會, 2021/10/8

Nguyen, T. R. G.* and S.-J. Wang

Using Barometric Efficiency to Estimate the Specific Storage in Donggang River Watershed, Taiwan

第十三屆地下水資源及水質保護研討會暨臺灣地下水資源暨水文地質學會年會, 2021/10/8

Nguyen, Q. C.*, S.-J. Wang, and D. H. Tran

Using Groundwater Flow and Land Subsidence Simulations to Assess the Geological Model Uncertainty

AOGS 18th Annual Meeting, 2021/8/1

Tran, D.-H. and S.-J. Wang*

Groundwater flow modeling in heterogeneously hydrogeological models generated by using geostatistical method in Huwei township, Taiwan

3rd European Regional Conference of IAEG, 2021/4/8

Tran, D.-H. and S.-J. Wang

Land subsidence due to groundwater extraction and tectonic activity in Pingtung Plain, Taiwan

Tenth International Symposium on Land Subsidence, 2021/05/17

Tran, D.-H. and S.-J. Wang*

Groundwater flow modeling in heterogeneously hydrogeological models generated by using geostatistical method in Huwei township, Taiwan

3rd European Regional Conference of IAEG, 2021/04/08

Chen, J.-Y. and S.-J. Wang

The study on stochastic thermal – hydraulic – mechanical coupled model for porous media with dependent parameters

AGU Fall Meeting 2020, 2020/12/01

王士榮*

地震水文觀測現況與遭遇問題初探

中華民國地球物理學會與中華民國地質學會 109 年年會暨學術研討會, 11 月 2020 年.

陳建語*、王士榮

用過核子燃料處置場中相依參數序率熱-水-力全耦合交互作用行為探討

中華民國地球物理學會與中華民國地質學會 109 年年會暨學術研討會, 11 月 2020 年.

Tran, D. H.*, S.-J. Wang, and Q. C. Nguyen

Geological Model Uncertainty in 3D Heterogeneous Models on Groundwater Flow and Land Subsidence Simulations in Huwei Town, Yunlin County

中華民國地球物理學會與中華民國地質學會 109 年年會暨學術研討會, 11 月 2020 年.

Nguyen, Q. C.*, S.-J. Wang, and D. H. Tran

Quantify the geological model uncertainty in groundwater flow and land subsidence simulations

中華民國地球物理學會與中華民國地質學會 109 年年會暨學術研討會, 11 月 2020 年.

蔡孟儒*、王士榮、董家鈞

地質概念模型差異對污染傳輸模擬之影響

中華民國地球物理學會與中華民國地質學會 109 年年會暨學術研討會, 11 月 2020 年.

簡佑安*、楊詠涵、王士榮

甲仙地震引致地下水文異常變化與美濃地震之比較

中華民國地球物理學會與中華民國地質學會 109 年年會暨學術研討會, 11 月 2020 年.

莊信宏*、王士榮

利用現地試驗探討東港溪地面水與地下水交互作用

中華民國地球物理學會與中華民國地質學會 109 年年會暨學術研討會, 11 月 2020 年.

Lin, Y.-Y.*, Wang, S.-J., and W.-C. Lai

The research of Meinong earthquake induced hydrological anomalies and increased vertical permeability in southwestern Taiwan

EGU General Assembly, May 2020.

Lin, Y.-Y.*, Wang, S.-J., and W.-C. Lai

The research of Meinong earthquake induced hydrological anomalies and increased vertical permeability in southwestern Taiwan

EGU General Assembly, May 2020.

Tran, D.-H.* and S.-J. Wang

Estimating land subsidence due to both groundwater extraction and tectonic activity in Pingtung Plain, Taiwan
AGU Fall Meeting 2019, December 2019.

Wang, S.-J.*, Y.-Y. Lin, W.-C. Lai, and H.-J. Chu

Hydrology Anomalies Triggered by 2016 Taiwan Meinong Earthquake

18th Japan-Taiwan International Workshop on Hydrological and Geochemical Research for Earthquake Prediction, September 2019.

王士榮、李忠沛、何信緯、顏鈺靜

東港溪流域地面水與地下水之水文分析與研討

第 24 屆水利工程研討會，9 月 2019.

Wang, S.-J., Y.-Y., Lin, W.-C. Lai, and H.-J. Chu

Investigating Permeability Enhancement by Using Groundwater Level Anomalies in 2016 Kaohsiung Meinong Earthquake, Taiwan

International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake ,
September 2019.

林彥耀、王士榮、賴文基、朱宏杰

美濃地震引致嘉南平原異常水文變化之研究

2019 臺灣地下水資源暨水文地質學會年會及第十一屆地下水資源及水質保護研討會，9 月 2019.

邱正鈞、萬昱廷、王士榮

以深度學習模型進行地下水位預測與抽水量推估

2019 臺灣地球科學聯合學術研討會，5 月 2019.

Wang, S.-J.* and C.-H. Lee

The Climate Change Impact on Groundwater Recharge in Taiwan

International Conference on Earth Observations and Societal Impacts, June 2019.

Wang, S.-J.*, C.-H. Lee, and C.-W. Lin

Groundwater Resources Management and Its Application in Choushui River Watershed

Workshop for Land Subsidence Prevention and Mitigation, July 2019.

Wang, S.-J.*

Using Conditional Approach to Reduce the Uncertainty in Stochastic Subsidence Modeling

AOGS 16th Annual Meeting , July 2019.

Wang, S.-J.*

Reducing the Modeling Uncertainty in Subsidence Assessment by Using a Conditional Stochastic Method
2019 Taiwan Geosciences Assembly, May 2019.

Tran, D.-H. and S.-J. Wang

Estimating land subsidence due to tectonic activity in Pingtung Plain, Taiwan
2019 Taiwan Geosciences Assembly, May 2019.

王士榮*、徐國錦

熱水力耦合行為探討與不確定性分析
第一屆海峽兩岸環境放射化學與核種遷移研討會，9月2018.

Wang, S.-J.*, W.-C. Lai, K.-C. Hsu, C.-L. Wang, and L.-T. Hsu

Using Earthquake induced Post-seismic Recovery of Groundwater Variations to Estimate the Hydraulic Properties of Aquitards.

17th Japan-Taiwan International Workshop on Hydrological and Geochemical Research for Earthquake Prediction, September 2018.

邱正鈞、萬昱廷、張融、王士榮、李奕賢

深度學習模型在地下水位預測的應用
第十屆地下水資源及水質保護研討會暨2018海峽兩岸地下水與水文地質應用研討會，8月2018。

林家豐、王士榮

東港溪地面水與地下水相關性探討
第十屆地下水資源及水質保護研討會暨2018海峽兩岸地下水與水文地質應用研討會，8月2018。

王士榮*、李忠沛、林家豐

東港溪水文與水質相關性探討
第十屆地下水資源及水質保護研討會暨2018海峽兩岸地下水與水文地質應用研討會，8月2018。

Wang S.-J.*, Y.-C. Chen, N.-K. Chiu, C. F. Lin, C. P. Lee, and B. N. Wang

The Recharge Effect of Great Chaozhou Artificial Lake on Hydrology and Water Quality of Donggang River Watershed, Taiwan

2018 EGU General Assembly, April 2018.

李振誥、王士榮、周永分、葉振峰、葉信富、游保杉

氣候變遷下臺灣九大地下水資源區地下水潛能變化之研究
臺灣氣候變遷科學報告說明會暨氣候變遷資料使用經驗座談會，3月2018.

王士榮*、徐國錦、賴文基、王建力、許良賜

以震後地下水位變化推估阻水層水力傳導係數

2017年中華民國地球物理學會與中華民國地質學會年會暨學術研討會，水文與水文地質(H1)，口頭發表，國立成功大學地球科學系暨研究所承辦，台南，臺灣，2017。

Wang, S.-J.*, and K.-C. Hsu

Stochastic Analysis of Thermal-Hydraulic- Mechanical Modeling for Buffer Material in Nuclear Waste Repository

6th Biot Conference on Poromechanics, Paris, France, 2017. (國際研討會)

專書及專書論文

年技術報告

王士榮*

東港河流域水文與水質監測計畫

經濟部水利署南區水資源局計畫成果報告，2018。