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期刊論文著述 (* Corresponding Author, ^YAdvised Student Paper)

Lu, Y.-C.*, Song, S.-R., Song,T.-J., Wang, C., Lin, T.-S., Taguchi,S. (2024) Applicability of Na/K geothermometer to the metapelitic non-volcanic geothermal fields in the Taiwan orogenic belt, [Geothermics](#), 124. 103133.

Peng,T.-R, Lee, H.F., Liu, T.S., Lee, J.Y.*, Lu, Y.-C. (2024) Topographic influence on ecohydrology in volcanic watersheds of the western Pacific monsoon area: evidence from water stable isotope composition of meteoric water, thermal water, and plants, [Isotopes in Environmental and Health Studies](#), 60, 1, 32-52.

Wang,C., Lu, Y.-C., Song, S.-R.* (2024) Geothermal Feasibility Analysis Inside Yangmingshan National Park, Taiwan. [Geothermics](#). 116. 102834.

Lu, Y.-C., Song, S.-R., Liu, L.-W., Peng, T.-R., Chen, B.-C., Tu, K.-C., Lin, L-H, Wang, P.-L.* (2023) Applicability of carbonate clumped isotope thermometry in the Tuchang-Jentse geothermal field. [Geothermics](#). 112. 102728.

Lu, Y.-C., Song, S.-R.* , Lin, P.-H., Taguchi, S., Wang, C., Lai, Y.-M., Peng, T.-R., Lee, H.-F. (2020) Thermal Fluid Changes after Operating a Geothermal System: A Case Study of the Chingshui Geothermal Field, Taiwan. [Geothermics](#). 87. 101878.

Chuang, H.-C., Tsai, S.-W., Shie, R.-H., Lu, Y.-C., Song, S.-R., Huang, S.-H., Peng, H.-Y., Yang H.-Y.* (2020) A novel lung alveolar cell model for exploring volatile biomarkers of particle induced lung injury. [Scientific Reports](#), 10, 15700.

鍾昇達、盧乙嘉、李俊賢* (2022) 奈米碳管的健康風險。工業安全衛生月刊，392，47-61。

盧乙嘉* (2021)迎接綠島的第一道曙光-朝日溫泉。地質，40(1-2)，35-38。

盧乙嘉* (2021)蘭嶼象鼻岩。地質，40(1-2)，43-46。

盧乙嘉* (2021)迎接綠島的第一道曙光-朝日溫泉。地質，40(1-2)，35-38。

盧乙嘉*、宋聖榮、王祈 (2021) 全世界國家公園地熱發電概況。臺灣礦業，73(1)，13-24。

盧乙嘉*、宋聖榮、王祈、田口幸洋 (2021) 由日本法規鬆綁看臺灣國家公園地熱開發。國家公園學報，31(1)，35-41。

研討會論文

Lu, Y.-C.*, Song, S.-R., Song, T.-J., Peng, T.-R., Lee, H.-F., Lin, L.-H., Chen, M.-M. (2024) Deciphering Geochemical Traits of Orogenic Lushan Geothermal field in Taiwan. 46st New Zealand Geothermal Workshop2024, Oakland, New Zealand, Nov 20-22, 2024. (full paper)

Song, T.-J., Song, S.-R., Lu, Y.-C., Hase, H., Lin, T.S., Lin, P.H. (2024) Constructing geothermal conceptual model of Huangzui Volcano, Northern Taiwan. 46st New Zealand Geothermal Workshop2024, Oakland, New Zealand, Nov 20-22, 2024. (full paper)

Song, S.-R., Song, T.-J., Lu, Y.-C., Lin, Y.J., Ko, Y.I., Chen, M.M., Chen, C.H., Chiang, W.C. (2024) A Conceptual Model of Slate Formation: A Case from the Lushan Geothermal Field, Taiwan. 46st New Zealand Geothermal Workshop2024, Oakland, New Zealand, Nov 20-22, 2024. (full paper)

楊智豪、黃淳銘、譚志豪、俞旗文、林伯修、何恭睿、李建成、盧乙嘉、宋聖榮、趙韋安、姜智文、蘇宗正、陳致言、陳棋炫、陳勉銘(2024)臺東紅葉地熱區地熱資源調查與潛能評估。中華民國地質學會與中華民國地球物理學會113年學術研討會。東華大學。2024/05/07-08。

李俊逸、彭宗仁、李曉芬、劉滄夢、盧乙嘉(2024)地形對火山集水區的生態水文之影響：從氫氧同位素證據。中華民國地質學會與中華民國地球物理學會113年學術研討會。東華大學。2024/05/07-08。

盧乙嘉、宋聖榮、宋庭瑞、楊雅閔、彭宗仁、陳勉銘、江婉綺(2024) 由溫泉水化學探討廬山熱液與儲集層特徵。中華民國地質學會與中華民國地球物理學會113年學術研討會。東華大學。2024/05/07-08。

李建成, 何恭睿, 黃詠晴, 楊智豪, 宋聖榮, 盧乙嘉, 姜智文, 俞旗文, 陳棋炫(2024) 瑞穗紅葉地熱地質概念模型之建構。中華民國地質學會與中華民國地球物理學會113年學術研討會。東華大學。2024/05/07-08。

Song, S.-R., Song, T.-J., Lu, Y.-C., Chen, M.-M., Lin, Y.-J., Chen, C.-H., Chiang, W.-C. (2023) Preliminary 3D Geothermal Conceptual Model of Lushan Area, Central Taiwan. 2023 American Geophysical Union Fall Meeting, San Francisco, CA, USA & Online. Dec 11-15, 2023.

Lu, Y.-C.*, Song, S.-R., Wang, P.-L., Song, T.J., Lin, P.H., Wang, C., Lin, L.H. (2023) Exploring mildly acidic to neutral hot fluids through carbonate clumped isotope ($\Delta 47$) thermometer in the Liuhuangtzuping Area. 45st New Zealand Geothermal Workshop2023, Oakland, New Zealand, Nov 15-17, 2023. (full paper)

Ho, G.-R.*, Lee, J.-C., Chen, C.-C., Huang, H.-H., Song, S.-R., Chiang, C.-W., Lu, Y.C., Wang, C. (2023) The geothermal reservoir characteristics of metamorphic terrain, an initiative of geological and geophysical survey of Qingshui, Tuchang, and Renze, NE Taiwan. 45st New Zealand Geothermal Workshop2023, Oakland, New Zealand, Nov 15-17, 2023. (full paper)

Lee, J-C, Ho, G.-R., Chen, C.-C., Huang, H.-H., Lin, C.-H., Song,S.-R., Chiang, C.-W., Lu, Y.-C., Hase, H., Chan, Y.-C., Yang, C.-C., Chen, Y.-G., Chung, S.-L. (2023) Combining geophysical, geochemical and geological studies toward geothermal models at Hongchailin for geothermal power generation in NE Taiwan. 45st New Zealand Geothermal Workshop2023, Oakland, New Zealand, Nov 15-17, 2023. (full paper)

Lu, Y.-C.*, Song, S.-R., Yang, Y.-M., Song, J., Wang, C. (2023) Applicability of Na-K geothermometer in the Chingshui-type geothermal field. 2023 Annual Conference of Geological Society Taipei & Chinese Taipei Geophysical Society, Taoyuan City, 23–28 May 2023.

Wang, C., Lu, Y.-C.*, Song, S.-R. (2023) The game plan for reaching the carbon-zero community of Taiwan: case study of Green Island. 2023 Annual Conference of Geological Society Taipei & Chinese Taipei Geophysical Society, Taoyuan City, 23–28 May 2023.

Song, S.-R.*, Lu, Y.-C., Song, J., Wang, C. (2023) Geothermal Energy in Taiwan: Update and Perspectives, Proceedings World Geothermal Congress 2023.Beijing, China, October, 2023

Song, S.-R.*, Lu, Y.-C., Song, J., Wang, C. (2023) Fluid Compositions and Reservoir Temperature of Toucheng-Jentse Geothermal Field, Northeastern Taiwan. Goldschmidt 2023 Conference, Lyon Congress Center, Lyon, France, 09–14 July 2023.

Lee, J.-C.*, Ho, G.-R., Song, S.-R., Lu, Y.-C., Chiang, C.-W. (2023) Combining geophysical, geochemical and geological studies toward plausible geothermal models at the Hongchailin site for geothermal power generation in northeastern Taiwan. EGU General Assembly 2023, Vienna, Austria, 23–28 April 2023.

Lu, Y.C.*, S.R. Song, P.L. Wang, T.J. Song, P.H. Lin, C. Wang, P.T. Lee, L.H. Lin (2022). Non-acidic geothermal fluid under the Tatun Volcano Group inferred from clumped isotope thermometry, 2022 Annual Conference of Geological Society Taipei & Chinese Taipei Geophysical Society, Nangang Exhibition Building 1, Taipei City.

Abe, K.* M. Fujisaki, S. Taguchi, H. Chiba, Y.C. Lu, S.R. Song, J.F. Li, P.T. Li, C.H. Chen, K. Yonezu, (2022) Hydrothermal alteration of exploration wells syk-01 and yms-95-01 drilled in the Tatun Volcano

Group, northern Taiwan. International Symposium on Earth Resources and Geo-Environmental Technology 2022. Cambodia.

楊智豪, 雷世璋, 譚志豪, 俞旗文, 何恭睿, 李建成, 盧乙嘉, 宋聖榮, 姜智文, 陳致言, 陳棋炫, 陳勉銘 (2022) 花蓮瑞林-紅葉地區地熱資源初探。中華民國地質學會與中華民國地球物理學會 111 年年會暨學術研討會, 臺北南港展覽館。

王祈、宋聖榮、盧乙嘉 (2021)。陽明山國家公園地區地熱開發可行性規劃。中華民國地質學會與中華民國地球物理學會 110 年會暨學術研討會, 張榮發基金會國際會議中心。

Lu, Y.C.*, E.C. Yeh, L.W. Liu, T.M. Nguyen, P.L. Wang, (2021) The clumped isotope geochemistry of exhumed marbles from the Hoping Area, Eastern Taiwan. 2021 Annual Conference of Geological Society Taipei & Chinese Taipei Geophysical Society, Taipei, Nov 22-24, 2021.

Lu, Y.C.*, S.R. Song, P.H. Lin, S. Taguchi, C. Wang, Y.M. Lai, T.R. Peng, H.F. Lee, (2021) Geochemical Variations of Thermal Fluids After the Chingshui Pilot Geothermal Power Plant, Taiwan. World Geothermal Congress 2020+1, Reykjavik, Iceland (Video conference), Oct 24-27, 2021.

Song, S.R*, Y.C. Lu, and Geothermal Energy Research Teams of NTU, (2021) Current Developments of the Geothermal Energy in Taiwan. World Geothermal Congress 2020+1, Reykjavik, Iceland (Video conference), Oct 24-27, 2021.

Song, S.R.*, Y.C. Lu, C. Wang, (2021) A Role of Geothermal heat on Energy conservation: Implications for Green (Low Carbon) Campus in Taiwan. 2021 Annual Conference of Geological Society Located in Taipei & Chinese Taipei Geophysical Society, Taipei, Nov 22-24, 2021.

Song, S.R.*, Y.C. Lu, (2020) The Pengchiayu Volcano: A Holocene Surtsey-Type Eruption in North Offshore Island of Taiwan. 2020 Annual Conference of Geological Society Located in Taipei & Chinese Taipei Geophysical Society, Taipei New Horizon 6th floor, Taipei, Nov 17-18, 2020.

Lu, Y.C.*, S.R. Song, L.W. Liu, B.C. Chen, K.C. Tu, P.L. Wang, (2020) Applicability of the carbonate clumped isotope thermometry in Tuchang-Jentse geothermal field. 2020 Annual Conference of Geological Society Located in Taipei & Chinese Taipei Geophysical Society, Taipei New Horizon 6th floor, Taipei, Nov 17-18, 2020.

專書及專書論文

宋聖榮、盧乙嘉(2023)《七美地質解說手冊》。共110頁。澎湖：澎湖縣政府農漁局。

李建成、何恭睿、宋聖榮、**盧乙嘉**、姜智文、楊智豪 (2023) 二萬五千分之一臺灣地熱地質圖說明書-花蓮瑞穗紅葉地區。經濟部中央地質調查所，財團法人中興工程顧問社，共54頁。

盧乙嘉、宋聖榮(2020)《北寮、小門嶼地質解說手冊》。共 50 頁。澎湖：澎湖縣政府農漁局。