

**2015.01.01-2025.01.31**

**期刊論文著述**(\* Corresponding Author)

W. J. Huang, M.T. Fitrianto, C.C. Chen, P.Y. Chang, I.C. Yen, M. Le Béon, and S.T. Lu

Complexity of near-surface deformation and subsurface structure of the Chihshang creeping fault-line scarp, eastern Taiwan: insights from integration of geological and geophysical data

Earth, Planets and Space ,77:10, January 2025.

Hassan Aleem, Maryline Le Béon\*, Andrew Tien-Shun Lin, Kuo-En Ching, Juan I. Soto, Kai-Feng Chen, and Ngoc-Thao Nguyen

Structures in the active Western Foothills of southwestern Taiwan: Fault-related folding versus shale tectonics Interpretation, 13 (2), doi.org/10.1190/int-2024-0030.1, December 2024

M. Le Béon\*, C.-C. Chen, W.-J. Huang, K.-E. Ching, J.-W. Shih, Y.-C. Tseng, Y.-W. Chiu, Y.-C. Liu, M.-L. Hsieh, E. Pathier, C.-H. Lu & B. Fruneau

Aseismic deformation within fold-and-thrust belts: Example from the Tsengwen River section of southwest Taiwan

Geoscience Letters, 11 (57), doi.org/10.1186/s40562-024-00373-3, December 2024

Ding, C., J.-J. Dong, M. Le Béon\*, C.-C. Lee, S.-K. Ho & S.-T. Wang

Characterization of the active fault deformation zone of the Chegualin Fault in the alluvial plain of southwestern Taiwan

Engineering Geology, 342, 107740, doi.org/10.1016/j.enggeo, November 2024

Bernard Delcaillau, Fabien Graveleau, Gang Rao, Maryline Le Béon, Dimitri Delcaillau

Fluvial styles during fold growth: An example from the eastern segment of the Qiulitage and Yakeng folds, southern Tian Shan, China

Geomorphology, 443, 108933, December 2023.

Bernard Delcaillau, Fabien Graveleau, Dimitri Saint Carlier , Gang Rao , Maryline Le Béon, Julien Charreau , Maelle Nixer

Geomorphic analysis of active fold growth and landscape evolution in the central Qiulitage fold belt, southern Tian Shan, China

Geomorphology, 398(1), 108063, February 2022.

Gang Rao, Maryline Le Béon, Renqi Lu, Fabien Graveleau, Jonny Wu and Bernard Delcaillau

Editorial: Active Fold-and-Thrust Belts: From Present-Day Deformation to Structural Architecture and Modelling

Frontiers in Earth Science, 9, December 2021.

邱奕維、蘭于鈞、黃文正\*、顏一勤、波玲琳、李元希  
臺灣西南部中寮隧道北端口旗山斷層構造特性研究,

經濟部中央地質調查所特刊，34,83-100，2019年12月

Maryline Le Béon\*, Odin Marc, John Suppe, Mong-Han Huang, Shiuh-Tsann Huang, Wen-Shan Chen

Structure and deformation history of the rapidly growing Tainan anticline at the deformation front of the Taiwan mountain belt

Tectonics, 38(9), August 2019.

Maryline Le Béon\*, Ya-Chu Tseng, Yann Klinger, AtaElias, Alexander Kunz, Alexandre Sursock, Mathieu Daëron, PaulTapponnier, Rachid Jomaa

High-resolution stratigraphy and multiple luminescence dating techniques to reveal the paleoseismic history of the central Dead Sea fault (Yammouneh fault, Lebanon)

Tectonophysics, 738–739, Pages 1-15, July 2018.

Lefevre M., Y. Klinger, M. Al-Qaryouti, M. Le Béon and K. Moumani

Slip deficit and temporal clustering along the Dead Sea fault from paleoseismological investigations

Scientific Reports, 8 (1), 4511, March 2018.

Le Béon M.\*, M.-H. Huang, J. Suppe, S.-T. Huang, E. Pathier, W.-J. Huang, C.-L. Chen, B. Fruneau, S. Baize, K.-E. Ching, and J.-C. Hu

Shallow geological structures triggered during the Mw6.4 Meinong earthquake, southwestern Taiwan

TAO, 28 (5), 663-681, March 2017.

### 研討會論文

M. Le Béon, C.-C. Chen, W.-J. Huang, K.-E. Ching, J.-W. Shih\*, Y.-C. Tseng, Y.-W. Chiu, Y.-C. Liu, M.-L. Hsieh, E. Pathier, C.-H. Lu & B. Fruneau

Aseismic deformation within fold-and-thrust belts: Example from the Tsengwen River section of southwest Taiwan

LithoDef25: The Deformation of the Lithosphere, State of the Art and Future Directions, 2025/02/12

Nguyen, N.-T., M. Le Béon, N.-W. Huang, C. Ding, M.-L. Hsieh, K.-E. Ching, E. Pathier, C.-C. Shen

Active tectonics and evolution of the Gunshuiping mud volcano during the Holocene, southwest Taiwan

LithoDef25: The Deformation of the Lithosphere, State of the Art and Future Directions, 2025/02/12

Maryline Le Beon, Chang-Chih Chen, Jhih-Wei Shi, Wen-Jeng Huang, Ya-Chu Tseng, Yi-Wei Chiu, Yen-Chiu Liu, Meng-Long Hsieh, Chih-Heng Lu, Kuo-En Ching, Erwan Pathier

Aseismic fold growth and backthrusting within the foothills of southwestern Taiwan along the Tsengwen River

第九屆台法地球科學研討會, 2024/06/05

Fang-Yi Lee, GRAVELEAU Fabien, Maryline Le Beon,

Influence of foreland basin structural and stratigraphic inheritance on fold-and-thrust belt kinematic evolution in southwest Taiwan,

第九屆台法地球科學研討會, 2024/06/05

Kai-Feng Chen, Maryline Le Béon, Arthur Delorme, Yann Klinger, Ewelina Rupnik, Lulin Zhang, Erwan Pathier, Kuo-En Ching, Marc Pierrot-Deseilligny

Measuring ground deformation across the Chegualin fault and Chishan fault, Southwestern Taiwan using aerial image correlation and DSM time series

第九屆台法地球科學研討會, 2024/06/05

Ngoc-Thao Nguyen, Maryline Le Beon, Neng-Wei Huang, Chuan Ding, Meng-Long Hsieh, Kuo-En Ching, Erwan Pathier, Chuan-Chou Shen

Active tectonics and evolution of the Gunshuiping mud volcano during the Holocene, southwest Taiwan

第九屆台法地球科學研討會, 2024/06/05

Hassan Aleem, Maryline Le Beon, Andrew Tien-Shun Lin, Kuo-En-Ching, J. I. Soto

Structural analysis in the actively deforming Western Foothills at the latitude of Erhjen River in southwestern Taiwan

第九屆台法地球科學研討會, 2024/06/05

Kai-Feng Chen, Maryline Le Beon, Arthur Delorme, Yann Klinger, Ewelina Rupnik, Lulin Zhang, Erwan Pathier, Kuo-En Ching, Marc Pierrot-Deseilligny

Pierrot-Deseilligny Measuring ground deformation across the Chegualin fault and Chishan fault, Southwestern Taiwan using aerial image correlation and DSM time series

中華民國地質學會與中華民國地球物理學會 113 年暨學術研討會, 2024/05/07

Hassan Aleem, Maryline Le Beon

Structural analysis in the actively deforming Erhjen River Basin, southwestern 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, 2023/05/07

Ngoc-Thao Nguyen, Maryline Le Beon, Neng-Wei Huang, Chuan Ding, Kuo-En Ching

Holocene kinematics and geometry of a reverse strike-slip fault revealed by geomorphology and near-surface observations at the Gunshuiping mud volcano site, southwestern 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, 2023/05/07

Fang, H.-T.\*., M. Le Béon, C.-Y. Chen

Investigating the morphotectonic evolution of Chiayi-Tainan area based on geomorphometry and fluvial terraces.

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, 2023/05/08

Owen Huang, Mohammad Tri Fitrianto, Chien-Chih Chen. Ping Yu Chang, I-Chi Yen, Maryline Le Béon, Shih Ting Lu

The Holocene Evolution of the Chihshang Creeping Fault-line Scarp in Tapo Elementary School Area, Eastern 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, 2023/05/08

Nguyen, N.-T., M. Le Béon, K.-E. Ching, E. Pathier

Near-surface structure and morphology of an offset mud volcano constrain the structure and Holocene kinematics of a reverse strike-slip fault in the Coastal Plain of southwestern Taiwan,

EGU General Assembly Conference Abstracts, 2023/05, EGU-15198, DOI: 10.5194/egusphere-egu23-15198

M. Le Béon, J.-W. Shih\*, C.-C. Chen\*, W.-J. Huang, Y.-C. Tseng, Y.-W. Chiu, Y.-C. Liu, M.-L. Hsieh, C.-H. Lu, E. Pathier

Active anticline and backthrust override a geological thrust: evidence from present and Holocene deformation rates within the foothills of southwestern Taiwan,

EGU General Assembly Conference Abstracts, 2023/05, EGU-15525, DOI: 10.5194/egusphere-egu23-15525

Nguyen, N.-T.\*, M. Le Béon, C. Ding, K.-E. Ching

Active tectonics in the southwestern part of the Western foothills of Taiwan in relation to mud volcanoes, 2022

臺灣地球科學聯合學術研討會, 2022/06/08.

Chen, C.-C.\*, M. Le Béon, C.-C. Yang, Shih, J.-W.

Active structures at the toe of the foothills in southwestern Taiwan, Tainan

2022 臺灣地球科學聯合學術研討會, 2022/06/08.

Kai-Fong Chen, Maryline Le Béon, Yi-Wei Chiou, Yu-Cheng Hsu, Chang-Chih Chen

A geological exploration of the unexpected normal faulting in the Zhongliao tunnel area, southwestern Taiwan

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

Shih, J.-W.\* (石智偉), M. Le Béon, W.-J. Huang, Y.-C. Tseng (Ya-Chu), Y.-W. Chiou (Yi-Wei), P.-S. Chou (Pin-Shan of CGS) and Y.-C. Liu (Yen-Chiu of CGS)

利用曾文溪沿岸階地及碳 14 定年法分析台灣西南部崙後斷層及口宵里斷層之活動特性

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

Le Béon, Maryline, Suppe John, Hsieh Yu-Huan, Huang Mong-Han, Huang, Hsin-Hua, Chen Chih-Tung

Geological structure and active deformation in the fold-thrust belt of southern Taiwan in relation to crustal-scale structure

EGU, 2020-18768, Online, 2020/05

Huang, W.-J., Y.-C. Lin, Y.-W. Chiou, I.-C. Yen, M. Le Béon, Y.-H. Lee and K.-E. Ching

Characteristics of the Chishan "active" fault exposed around the northern end of Zhongliao tunnel, southwestern Taiwan,

AGU Fall Meeting, San Francisco, California, USA, December 8-13, 2019, Abstract.

M. Le Béon, J. Suppe, M.-H. Huang, Y.-H. Hsieh, H.-H. Huang and C.-T. Chen

Active Tectonics and Structural Architecture at the Piedmont of Southwestern Taiwan in Relation to Recent

## Seismicity and Orogeny

International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake, Taipei, Taiwan 2019/09/15

Suppe, J., Y.-H. Hsieh, C.-S. Liu, H.-H. Huang and M. Le Béon

Massive subduction channels adjacent to Taiwan arc-continent collision,  
AGU Fall Meeting, Washington D.C., USA 2018/12/10

Hsieh, C.-E.\*, M. Le Béon, W.-J. Huang, I.-C. Yen, P.-Y. Chang, Y.-H. Chen and S.-T. Lu

Structural complexity and Late Pleistocene tectonic activity near the junction between the Chelungpu and Sanyi thrusts, central western Taiwan

AGU Fall Meeting, Washington D.C., USA 2018/12/10

Poujol, A., M. Le Béon, A. Kunz, L. Siame, L.-W. Kuo, R.-F. Chen, W.-J. Huang and Y.-G. Chen

Luminescence ages from quartz and feldspar (post-IR IRSL) and <sup>10</sup>Be exposure ages of Late Pleistocene terrace deposits at the deformation front of central Taiwan

5th Asia-Pacific Luminescence and Electron-spin-resonance Dating conference, Beijing, China 2018/10/15

Suppe, J., Y.-H. Hsieh, C.-S. Liu, H.-H. Huang and M. Le Béon

Subducting of continental rise, slope and shelf basins in Taiwan oblique arc-continent collision

EGU2018-11916, EGU General Assembly, Vienna, Austria 2018/04/08

Poujol, A., M. Le Béon, L. Siame, A. Kunz, R.-F. Chen, W.-J. Huang and Y.-G. Chen

New chronological insights from Late Pleistocene tilted terraces along the deformation front of the Central Range

(Taiwan): A comparison of luminescence and in situ cosmogenic dating

EGU General Assembly, Vienna, Austria 2018/04/08

M. Le Béon, J. Suppe, M.-H. Huang, S.-T. Huang, H. S. H. M. Ulum, K.-E. Ching and Y.H. Hsieh

Shallow Geological Structures Triggered During the Mw6.4 Meinong Earthquake and Their Significance in Accommodating Long-term Shortening Across the Foothills of Southwestern Taiwan

AGU Fall Meeting, New Orleans, USA 2017/12/11.

M. Le Béon, M.-H. Huang, E. Pathier, J. Suppe, S.-T. Huang, B.

Fruneau, Patterns and Mechanisms of Interseismic, Coseismic, Late Quaternary and Pliocene Deformation in the Foothills of Southwestern Taiwan Mountain Belt

AGU Fall Meeting, San Francisco, USA 2016/12/12

Graveleau, F., Delcaillau, B., M. Le Béon, Rao, G., Charreau, J

Croissance du pli de Qilutagh au front sud de la chaîne plissée de Kuqa, Tian Shan, Chine.

26ème Réunion des Sciences de la Terre, France 2018/10/22

M. Le Béon, J. Suppe, M.-H. Huang, S.-T. Huang, Y.-H. Hsieh, H.-H. Huang

Structural setting of the Mw6.4 Meinong earthquake, Taiwan, from shallow triggered fold-and-thrusts to crustal-scale structure, Taiwan

Geosciences annual conference, Chia-Yi, Taiwan.2018/05/02

Ulum, H.\*, M. Le Béon, W.-J. Huang, K.-E. Ching

Holocene morphotectonic evolution in the Erhjen River, southwestern Taiwan  
Taiwan Geosciences annual conference, ChiaYi, Taiwan. 2018/05/02,

M. Le Béon, M.-H. Huang, J. Suppe, S.-T. Huang, E. Pathier, W.-J. Huang, C.-L. Chen, B. Fruneau, S. Baize,  
K.-E. Ching and J.-C. Hu

Shallow geological structures triggered during the Mw6.4 Meinong earthquake and their significance in  
accommodating longterm shortening across the foothills of southwestern Taiwan  
Taiwan Geosciences Assembly, Tainan, Taiwan. 2017/05/10.