

鍾孫霖 特聘研究員 兼所長 (中央研究院地球科學研究所)

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研究領域：地球化學，火成岩成因，亞洲岩漿作用與造山運動

Research Fields: Geochemistry, Igneous Petrogenesis, Asian Magmatism and Orogeny

Current Positions:

Distinguished Research Fellow, Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan, ROC (*Starting from May 1st, 2014*) 中央研究院地球科學研究所特聘研究員
Director, Institute of Earth Sciences, Academia Sinica (*from May 1st, 2017*)

Distinguished Chair Professor, Department of Geosciences, National Taiwan University
(Joint Appointment; *from May 1st, 2014*) 國立臺灣大學地質科學系特聘講座教授(合聘)

Education:

Ph.D. Geology (1990, December): Department of Geology, National Taiwan University

M.Sc. Geology (1984, June): Department of Geology, National Taiwan University

B.Sc. Geology (1981, June): Department of Geology, National Taiwan University

Professional Experience:

1991-1994: Lecturer, Department of Geology, National Taiwan University

1994-1998: Associate Professor, Department of Geology, National Taiwan University

1998-2014(April): Professor, Department of Geosciences, National Taiwan University

2006-2011: Distinguished Professor, National Taiwan University

2011-2014(April): Chair Professor, National Taiwan University

1992(July)-1993(August): Postdoctoral Research Fellow, Institut de Géologie - CNRS, Université de Rennes 1, France

1997(February-October): Visiting Research Fellow, SRC CODES, Department of Geology, University of Tasmania, Australia

2001-2014: Adjunct Research Fellow, Institute of Earth Sciences, Academia Sinica

2002-2005: Program Coordinator, Earth Science Division, National Science Council, Taiwan

2006(September)-2007(March): Academic Visitor, Department of Earth Sciences, University of Oxford, UK

2008-2013: Honorary Guest Research Fellow, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou, China

2009-2013: Adjunct Professor, Department of Earth Science, National Central University, Taiwan

2010-2012: Program Coordinator, Earth Science Division, National Science Council, Taiwan

2012 to 2015: Honorary Guest Professor, China University of Geosciences, Beijing, China

2014 to 2017: Honorary Concurrent Professor, Nanjing University, Nanjing, China

2015 to 2018: External Assessor, University of Malaya, Kuala Lumpur, Malaysia

Professional Affiliations:

The Geological Society Located in Taipei (Taiwan) 中華民國地質學會

Chinese Geosciences Union (Taiwan) 中華民國地球科學聯合會

Chinese Taipei Geophysical Society (Honorary Member) 中華民國地球物理學會榮譽會員

The American Geophysical Union (AGU): Fellow elected 2023

The Geochemical Society (GS): Geochemistry Fellow elected 2016

The Geological Society of America (GSA): Fellow elected 2005

The Mineralogical Society of America (MSA): Fellow elected 2012

Editorial Services:

1998: Co-editor with M.F.J. Flower, C.-H. Lo and T.-Y. Lee of *AGU Geodynamics Ser. 27*, “Mantle Dynamics and Plate Interactions in East Asia”
1998-2007: Associate Editor of *The Island Arc* (Blackwell Sci.)
2001-2015: Editorial Board Member of *Chemical Geology* (Elsevier)
2004-2007: Editorial Board Member of *Geochimica* (Chinese Academy of Sciences)
2006-2015: Editorial Board Member of *Journal of Asian Earth Sciences* (Elsevier)
2009: Lead Guest Editor, *Tectonophysics* v.477, Spec. Issue “Continental Collision, Partial Melting and Ductile Deformation in the Tibetan-Himalayan Orogenic Belt”
2010: Co-Guest Editor, *Lithos* v.119, Spec. Issue: “The Emeishan Large Igneous Province”
2012: Lead Guest Editor, *Jour. Asian Earth Sci.* v. 53, Spec. Issue “The Tibetan Orogenic Evolution: New Advances from Pre- to Post-collisional Geologic Records”
2012: Lead Guest Editor, *Chemical Geology* v.328, Spec. Issue “Geochemical Perspectives on Mantle Dynamics and Plate Interactions in Asia” in honor/memory of Dr. Shen-su Sun
2014: Co-Guest Editor, *American Journal of Science*, v.314 (January and February) Special Issue in honor of Prof. Bor-ming Jahn
2014-2017: Editor-in-Chief of *Lithos* (Elsevier)
2015 to date: Editorial Board Member of *Solid Earth Sciences* (Elsevier)
2015 to date: Editorial Board Member of *Earth Science Frontiers* (China Uni. Geosciences)
2016: Co-Guest Editor, *Lithos*, v.245, Spec. Issue “Recent Advances on the Tectonic and Magmatic Evolution of the Greater Tibetan Plateau” in honor of Prof. Guitang Pan
2017 to date: Editorial Board Member of *Lithos* (Elsevier)
2017-2018: Lead Guest Editor, *Journal of Asian Earth Sciences*, Spec. Issue “Asian Orogeny and Continental Tectonics from Geochemical Perspectives” in memory of Prof. Bor-ming Jahn: Part I, v.145 (Sept. 2017); Part II v. 167 (Nov. 2018)
2020: Co-Guest Editor, *Lithos* v.360, Spec. Issue “Subduction and Continental Collision Processes: Petrologic, Geochemical and Structural Perspectives”
2022: Co-Guest Editor, *Geological Journal*, Spec. Issue “Geodynamic evolution of East Himalayan and Indo-Myanmar orogenic belts”, Part I, v.57 (Feb. 2022); Part II, v.57 (Dec. 2022)

Awards and Honors:

1999-2000: Outstanding Research Award, NSC, Taiwan 國科會傑出研究獎
2003-2006: Outstanding Research Award, NSC, Taiwan 國科會傑出研究獎
2004: GEOTIMES’s citation of reporting one of the major discoveries in earth sciences
2005: Fellow, The Geological Society of America
2006: National Academic Award, Ministry of Education Affairs, Taiwan 教育部學術獎
2008-2011: National Chair Professorship, Ministry of Education Affairs, Taiwan 教育部國家講座
2011-2016: Academic Summit Research Program, NSC/MoST, Taiwan 國科會學術攻頂計畫
2012: Fellow, The Mineralogical Society of America
2012: Two “Highly Cited Geology Papers” (2000-2010; <https://doi.org/10.1130/focus122012.1>)
2014: TWAS (The World Academy of Sciences) Prize in Earth Sciences
2016: Fellow, The Geochemical Society & European Association of Geochemistry
2016: Academician, Academia Sinica, Taiwan 中央研究院院士 (數理組)
2016-2021: Academic Pioneering Research Project, MoST, Taiwan 科技部學術攻頂計畫
2016, 2017, 2019: Highly Cited Researcher in Geosciences, Web of Science (Clarivate Analytics)
2018: Axford Lecture, AOGS (Asia Oceania Geosciences Society) Meeting, Hawaii, USA
2018: Fellow, Astronomy, Space and Earth Sciences, The World Academy of Sciences (TWAS)
2022: One of Geology’s 20 Most-Cited Papers published in the journal’s 50 years
(<https://pubs.geoscienceworld.org/gsa/geology/article/50/5/531/613117/Geology-s-Most-Cited-Papers>)
2023: Fellow, The American Geophysical Union

Recent/Ongoing Research Projects:

(1) 國科會/科技部學術攻頂研究計畫

- **Tibet & Beyond:** 越過西藏 (2011/8/1-2016/7/31; NSC/MoST)
- **Tibet & Beyond (II):** A Geochemical Perspective on Asian Orogeny and Continental Tectonics (2016/8/1-2022/7/31; MoST)

- (2) 中研院深耕計畫 Academia Sinica Investigator Award (2015/1/1-2019/12/31)
 - **ACT in Asia: SEA Experiment** (亞洲大地構造與岩漿作用研究：東南亞實驗)
(Accretionary & Collisional Tectonics in Asia: Studying continental orogeny from magmatic perspectives through South East Asia experiment)
- (3) 科技部智慧災防新南向地球科學重點科技合作研究深耕計畫 (2018/8/1-2023/6/30)
 - **New South Bound Project of MoST: Bridging Earth Science and Technology** (總主持人)
- (4) 科技部/國科會特約研究計畫 (2021/8/1-2024/7/31; MoST/NSTC)
 - 東南亞行動：班達海周邊岩漿活動與地體構造演化研究
SEA-ACT from Magmatic Perspectives: The Banda Sea
(SEA = South East Asia; ACT = Accretionary & Collisional Tectonics)
- (5) 中研院深耕計畫 Academia Sinica Investigator Award (2023/1/1-2027/12/31)
 - 南洋行動再升級：亞洲造山與大陸演化
SEA-ACT & Beyond: Asian Orogeny and Continental Evolution

Research Highlight:

In the past 25+ years, I have been consecutively playing an active role as lead PI in the **CREATE** (Comprehensive Research on East Asian Tectonic Evolution) joint project supported by NSC/MoST and applied geochronological, geochemical and isotopic techniques to study important petrogenetic and tectonic problems in many areas of Asia. For example, I have been working on an Academic Pioneering Research Project (學術攻頂研究計畫) “**Tibet & Beyond (II): A Geochemical Perspective on Asian Orogeny and Continental Tectonics**”, which was based on the successful Phase I project for a comparative investigation of two active and arguably the most important continental collision zones, i.e., Tibet/Himalaya and Caucasus/Iran/Anatolia (CIA) in the Tethyan orogen. The abundance of precise age and geochemical results we have obtained compose a solid database, demonstrating that the eastern part of the Tethyan “collisional” belt was preceded in many places by accretionary orogeny that had produced a significant amount of juvenile (arc) continental crust. Alike the Central Asian Orogenic Belt (CAOB), the eastern Tethyan orogenic belt appears to have started from an accretionary system and ended with a collisional system, thus fulfill the “orogenic cycle”. Our geochemical data further reveal that, in contrast to generating large portions of juvenile crust in the earlier accretionary stage of orogenic development, crustal recycling has played a more important role in the final collisional stage. The latter process, as exemplified in SE Turkey and southern Tibet, involves the addition of older continental crust material back into the upper mantle, which subsequently melted and caused compositional transformation of the juvenile crust produced in the accretionary stage. Similar features are observed also in the young arc volcanics from eastern Taiwan, which is the northernmost component of the Luzon intra-oceanic arc among the complex and active subduction/accretion/collision system in South East Asia (**SEA**) that will evolve one day to resemble the eastern Tethyan and Central Asian orogenic belts by final collision with the advancing Australian continent. Therefore, SEA is a modern and natural laboratory that provides us the best albeit perhaps rare opportunity for dwelling details of the **ACT** (accretionary & collisional tectonics) processes that account for the mountain building, magma genesis and crustal formation in Asia, and the continental orogenesis worldwide over the geologic time.

Selected Publications:

1. Taiwan Magmatism & Orogeny

- Chung, S.-L. and S.-s. Sun (1992) A new genetic model for the East Taiwan ophiolite and its implications for Dupal domains in the northern hemisphere. *Earth Planet. Sci. Lett.*, v.109, p.133-145.
- Chung, S.-L., S.-s. Sun, K. Tu, C.-H. Chen, C.-Y. Lee (1994) Late Cenozoic basaltic volcanism around the Taiwan Strait, SE China: Product of lithosphere-asthenosphere interaction during continental extension. *Chem. Geol.*, v.112, p.1-20.
- Chung, S.-L., B.-m. Jahn, S. Chen, T. Lee, C.-H. Chen (1995) Miocene basalts in NW Taiwan: Evidence for EM-type mantle sources in the continental lithosphere. *Geochim. Cosmochim. Acta*, v.59, p.549-555.
- Chung, S.-L., K.-L. Wang, A.J. Crawford, V.S. Kamenetsky, C.-H. Chen, C.-Y. Lan, C.H. Chen (2001) High-Mg potassic rocks from Taiwan: Implications for the genesis of orogenic potassic lavas. *Lithos*, v.59, p.153-170.
- Wang, K.-L., S.-L. Chung, S.Y. O'Reilly, S.-s. Sun, R. Shinjo, C.H. Chen (2004) Geochemical and Pb-Sr-Nd isotopic constraints on the genesis of post-collisional magmatism around northern Taiwan. *J. Petrology*, v.45, p.975-1011.
- Shao, W.-Y., S.-L. Chung, W.-S. Chen, H.-Y. Lee, L.-W. Xie (2015) Old continental zircons from a young oceanic arc, eastern Taiwan: Implications for Luzon subduction initiation and Asian accretionary orogeny. *Geology*, 43, 479-482.
- Chen, W.-S., S.-L. Chung, H.-Y. Chou, Z. Zügerbai, W.-Y. Shao, Y.-H. Lee (2017) A reinterpretation of the metamorphic Yuli belt: Evidence for a middle-late Miocene accretionary prism in eastern Taiwan. *Tectonics*, v.36, doi:10.1002/2016TC004383.
- Lo, W.-H., C.-H. Tsai, S.-L. Chung, X.-H. Li, Q. Li, H.-Y. Lee, C.-Y. Lee, Y. Iizuka (2022) Petrographic, geochemical and geochronological characteristics of meta-plagiogranites from a high-pressure mélange in the Yuli belt, eastern Taiwan: Evidence for an early Miocene igneous precursor. *Lithos*, v.428-429, doi.org/10.1016/j.lithos.2022.106829.

2. East Asian Magmatism & Orogeny

- Chung, S.-L. and B.-m. Jahn (1995) Plume-lithosphere interaction in generation of the Emeishan flood basalts at the Permian-Triassic boundary. *Geology*, v.23, p.889-892.
- Chung, S.-L., B.-m. Jahn, G. Wu, C.-H. Lo, B. Cong (1998) The Emeishan Flood Basalt in SW China: A mantle plume initiation model and its connection with continental breakup and mass extinction at the Permian-Triassic boundary. In: M.F.J. Flower, S.-L. Chung, C.H. Lo, T.Y. Lee, eds., *Mantle Dynamics and Plate Interactions in East Asia*, AGU Geodyn. Ser. 27, p.47-58.
- Chung, S.-L. (1999) Trace element and isotope characteristics of Cenozoic basalts around the Tanlu fault with implications for the eastern plate boundary between North and South China. *J. Geology*, v.107, p.301-312. w/ Z.-x. Li (2000) A Reply to Discussion by K.J. Zhang. *J. Geology*, v.108, p.743-747.
- Shinjo, R., S.-L. Chung, Y. Kato, M. Kimura (1999) Geochemical and Sr-Nd isotopic characteristics of volcanic rocks from the Okinawa Trough and Ryukyu arc: Implications for the evolution of a young, intra-continental backarc basin. *J. Geophys. Res.*, v.104, p.10591-10608.
- Xu, Y.-G., S.-L. Chung, B.-m. Jahn, G. Wu (2001) Petrologic and geochemical constraints on the petrogenesis of the Permo-Triassic Emeishan flood basalts, SW China. *Lithos*, v.58, p.145-168.
- Lo, C.-H., S.-L. Chung, T.-Y. Lee, G. Wu (2002) Age of the Emeishan flood magmatism and relations to Permian-Triassic boundary events. *Earth Planet. Sci. Lett.*, v.198, p.449-458.
- Yang, J.-H., S.-L. Chung, S.A. Wilde, F.-Y. Wu, M.-F. Chu, C.-H. Lo, H.R. Fan (2005) Petrogenesis of post-orogenic syenites in the Sulu Orogenic Belt, east China: Geochronological, geochemical and Nd-Sr isotopic evidence. *Chem. Geol.*, v.214, p.99-125.
- Zhu, D.-C., S.-L. Chung, X.-X. Mo, Z.-D. Zhao, Y. Niu, B. Song, Y.-H. Yang (2009) The 132 Ma Comei-Bunbury large igneous province: Remnants identified in present-day southeastern Tibet and southwestern Australia. *Geology*, v.37, p.583-586.
- Kamenetsky, V.S., S.-L. Chung, M.B. Kamenetsky, D.V. Kuzmin (2012) Picrites from the Emeishan large igneous province, SW China: A compositional continuum in primitive magmas and respective mantle sources. *J. Petrology*, v.53, p.2095-2113.
- Li, Z.-x., X.-H. Li, S.-L. Chung, C.-H. Lo, X. Xu, W.-X. Li (2012) Magmatic switch-on and switch-off along the South China continental margin since the Permian: Transition from an Andean-type to a Western Pacific-type plate boundary. *Tectonophysics*, v.532-535, p.271-290.
- Li, S., S.-L. Chung, S.A. Wilde, B.-M. Jahn, W.-J. Xiao, T. Wang, Q.-Q. Guo (2017) Early-Middle Triassic high Sr/Y granitoids in the southern Central Asian Orogenic Belt: Implications for ocean closure in accretionary orogens. *J. Geophys. Res., Solid Earth*, v.122, doi:10.1002/2017JB014006.
- Tang, G.-J., S.-L. Chung, C.J. Hawkesworth, P.A. Cawood, Q. Wang, R.A. Wyman, Y.-G. Xu, Z. Zhao (2017) Short episodes of crust generation during protracted accretionary processes: Evidence from Central Asian Orogenic Belt, NW China. *Earth Planet. Sci. Lett.*, v.464, p.142-154.

- Zhai, Q.-G., S.-L. Chung, Y. Tang, P. Hu, X. Jin, J. Wang, H. Wang, K.-L. Wang, H.-Y. Lee (2019) Late Carboniferous ophiolites from the southern Lancangjiang belt, SW China: Implication for the arc-backarc system in the eastern Paleo-Tethys. *Lithos*, v.344-345, p.134-146.
- Guo, Q.-Q., S.-L. Chung, H.-Y. Lee, W.-J. Xiao, Q. Hou (2023) Termination of the Paleo-Asian Ocean in the Beishan orogen, NW China: Constraints from detrital zircon U-Pb age and Hf isotope analysis of turbidites. *Geol. Soc. Amer. Bull.*, v.135, p.1734-1746. doi.org/10.1130/B36455.1.

3. Tibet-Himalaya (India-Eurasia Collision Zone)

- Chung, S.-L., C.-H. Lo, T.-Y. Lee, Y. Zhang, Y. Xie, X.-H. Li, K.-L. Wang, P.-L. Wang (1998) Diachronous uplift of the Tibetan plateau starting 40 Myr ago. *Nature*, v.394, p.769-773.
- Chung, S.-L., D.-Y. Liu, J.-Q. Ji, M.-F. Chu, H.-Y. Lee, D.-J. Wen, C.-H. Lo, T.-Y. Lee, Q. Qian, Q. Zhang (2003) Adakites from continental collision zones: Melting of thickened lower crust beneath southern Tibet. *Geology*, v.31, p.1021-1024.
- Lee, H.-Y., S.-L. Chung, J.-R. Wang, D.-J. Wen, Y. Zhang, Y. Xie, C.-H. Lo, T.-F. Yang, T.-Y. Lee, G. Wu, J. Ji (2003) Miocene Jiali faulting and its implications for Tibetan tectonic evolution. *Earth Planet. Sci. Lett.*, v.205, p.185-194.
- Chung, S.-L., M.-F. Chu, Y. Zhang, Y. Xie, T.-Y. Lee, C.-H. Lo, X.-H. Li, C.-Y. Lan, Q. Zhang, Y. Wang (2005) Tibetan tectonic evolution inferred from temporal and spatial variations in post-collisional magmatism. *Earth-Sci. Reviews*, v.68, p.173-196.
- Chu, M.-F., S.-L. Chung, B. Song, D. Liu, S.Y. O'Reilly, N.J. Norman, J. Ji, D. Wen (2006) Zircon U-Pb and Hf isotope constraints on Mesozoic tectonics and crustal evolution of southern Tibet. *Geology*, v.34, p.745-748.
- Wen, D.-R., D.-Y. Liu, S.-L. Chung, Chu, M.-F., J. Ji, Q. Zhang, B. Song, T.-Y. Lee, M. Yeh, C.-H. Lo (2008) New zircon SHRIMP U-Pb ages of the Gangdese Batholith with implications for the Neotethyan subduction and tectonic evolution in southern Tibet. *Chem. Geol.*, v.252, p.191-201.
- Ji, W.-Q., F.-Y. Wu, S.-L. Chung, J.-X. Li, C.-Z. Liu (2009) Zircon U-Pb and Hf isotopic constraints on petrogenesis of the Gangdese batholith, southern Tibet. *Chem. Geol.*, v.262, p.229-245.
- Lee, H.-Y., S.-L. Chung, C.-H. Lo, J. Ji, T.-Y. Lee, Q. Qian, Q. Zhang (2009) Eocene Neotethyan slab breakoff in southern Tibet inferred from the Linzizong volcanic record. *Tectonophysics*, v.477, p.20-35.
- Chung, S.-L., M.-F. Chu, J. Ji, S.Y. O'Reilly, N.J. Pearson, D. Liu, T.-Y. Lee, C.-H. Lo (2009) The nature and timing of crustal thickening in southern Tibet: Geochemical and zircon Hf isotopic constraints from post-collisional adakites. *Tectonophysics*, v.477, p.36-48. Erratum: (2010) v.483, p.427-428.
- Chu, M.-F. S.-L. Chung, S.Y. O'Reilly, N.J. Pearson, F.-Y. Wu, X.-H. Li, D. Liu, J.-Q. Ji, C.-H. Chu, H.-Y. Lee (2011) India's hidden inputs to Tibetan orogeny revealed by Hf isotopes of Transhimalayan zircons and host rocks. *Earth Planet. Sci. Lett.*, v.307, p.479-486.
- Liu, C.-Z., F.-Y. Wu, S.-L. Chung, Z.-D. Zhao (2011) Fragments of hot metasomatized mantle lithosphere in mid-Miocene ultrapotassic lavas, southern Tibet. *Geology*, v.39, p.923-926.
- Wang, Q., S.-L. Chung, X.-h. Li, D. Wyman, Z.-x Li, W.D. Sun, H.N. Qiu, Y.S. Liu, Y.T. Zhu (2012) Crustal melting and flow beneath northern Tibet: Evidence from Mid-Miocene to Quaternary strongly peraluminous rhyolites in the southern Kunlun Range. *J. Petrology*, v.53, p.2523-2566.
- Ji, W.-Q., F.-Y. Wu, S.-L. Chung, X.-C. Wang, C.-Z. Liu, Q. Li, Z.-C. Liu, X.-C. Liu, J.-G. Wang (2016) Eocene Neo-Tethyan slab breakoff constrained by 45 Ma OIB-type magmatism in southern Tibet. *Geology*, v.44, p.283-286.
- Lin, T.-H., A.H. Mitchell, S.-L. Chung, X.-B. Tan, R.-T. Tang, F.-Y. Wu (2019) Two parallel magmatic belts with contrast isotopic characteristics from S Tibet to Burma: Zircon U-Pb and Hf isotopic constraints. *J. Geol. Soc. London*, v.176, p.574-587.
- Zhang, X.-R., S.-L. Chung, Y.-M. Lai, A.A. Ghani, S. Murtadha, H.-Y. Lee, C.-C. Hsu (2019) A 6000-km-long Neo-Tethyan arc system with coherent magmatic flare-ups and lulls in South Asia. *Geology*, v.47, p.573-576.
- Zhu, D.-C., Q. Wang, S.-L. Chung, P.A. Cawood, Z.-D. Zhao (2019) Gangdese magmatism in southern Tibet and India-Asia convergence since 120 Ma. In: Himalayan Tectonics: A Modern Synthesis. *GS London Spec. Publ.*, no.483, doi.org/10.1144/SP483.14.
- Singh, A.K., S.-L. Chung, I. Somerville (2022) Petrogenesis of mantle peridotites in Neo-Tethyan ophiolites from the Eastern Himalaya and Indo-Myanmar Orogenic Belt in the geo-tectonic framework of Southeast Asia. *Geol. Jour.*, v.57, 4886-4919, doi.org/10.1002/gj.4629.

4. CIA (Arabia-Eurasia Collision Zone)

- Pang, K.-N., S.-L. Chung, M.H. Zarrinkoub, S.S. Mohammadi, H.-M. Yang, C.-H. Chu, H.-Y. Lee, C.-H. Lo (2012) Age, geochemistry and petrogenesis of late Cenozoic intraplate alkali basalts in the Lut-Sistan region, eastern Iran. *Chem. Geol.*, v.306-307, p.40-53.
- Zarrinkoub, M.H., K.-N. Pang, S.-L. Chung, M.M. Khatib, S.S. Mohammadi, H.-Y. Chiu, H.-Y. Lee (2012) Zircon U-Pb ages and geochemical constraints on the origin of the Birjand ophiolite, eastern Iran. *Lithos*, v.154, p.392-405.

- Chiu, H.-Y., S.-L. Chung, M.H. Zarrinkoub, S.S. Mohammadi, M.M. Khatib, Y. Iizuka (2013) Zircon U-Pb age constraints from Iran on the magmatic evolution related to Neotethyan subduction and Zagros orogeny. *Lithos*, v.162-163, p.70-87.
- Pang, K.-N., S.-L. Chung, M.H. Zarrinkoub, H.-Y. Chiu, X.-H. Li (2014) On the magmatic record of the Makran arc, southeastern Iran: Insights from zircon U-Pb geochronology and bulk-rock geochemistry. *G³ (Geochemistry, Geophysics, Geosystems)*, v.15, doi:10.1002/2014GC005262.
- Su, B.-X., S.-L. Chung, M.H. Zarrinkoub, K.-N. Pang, L. Chen, W.-Q. Ji, A. Brewer, J.-F. Ying, M.M. Khatib (2014) Composition and structure of the lithospheric mantle beneath NE Iran: Constraints from mantle xenoliths. *Lithos*, v.202/203, p.267-282.
- Pang, K.-N., S.-L. Chung, M.H. Zarrinkoub, X.-H. Li, H.-Y. Lee, T.-H. Lin, H.-Y. Chiu (2016) New age and geochemical constraints on the origin of Quaternary adakite-like lavas in the Arabia Eurasia collision zone. *Lithos*, v.264, p.348-359.
- Lin, Y.-C., S.-L. Chung, A.F. Bingol, L.-K. Yang, A. Okrostsvaridze, K.-N. Pang, H.-Y. Lee, T.-H. Lin (2020) Diachronous initiation of post-collisional magmatism in the Arabia-Eurasia collision zone. *Lithos*, v.356, doi.org/10.1016/j.lithos.2020.105394.

5. SEA (South East Asia) Magmatism & Tectonics

- Chung, S.-L., T.-Y. Lee, C.-H. Lo, P.-L. Wang, C.-Y. Chen, T.Y. Nguyen, T.H. Tran, G.-Y. Wu (1997) Intraplate extension prior to continental extrusion along the Ailao Shan-Red River shear zone. *Geology*, v.25, p.311-314.
- Wang, P.-L., C.-H. Lo, T.-Y. Lee, S.-L. Chung, C.-Y. Lan, T.Y. Nguyen (1998) Thermochronological evidence for the movement along the Ailao Shan-Red River shear zone: A perspective from Vietnam. *Geology*, v.26, p.887-890.
- Lan, C.-Y., S.-L. Chung, C.-H. Lo, T.-Y. Lee, P.-L. Wang, H.-M. Li, D.V. Toan (2001) First evidence for Archean continental crust from northern Vietnam: The oldest rock in SE Asia and its implications for crustal and tectonic evolution. *Geology*, v.29, p.219-222.
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