

## 鍾孫霖 特聘研究員 兼所長 (中央研究院地球科學研究所)

### Sun-Lin Chung Distinguished Research Fellow & Director, IES-AS

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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. *G<sup>3</sup> (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.
- Lin, T.-H., S.-L. Chung, H.-Y. Chiu, F.-Y. Wu, M.-W. Yeh, M.P. Searle, Y. Iizuka (2012) Zircon U-Pb and Hf isotopic constraints from the Ailao Shan-Red River shear zone on the tectonic and crustal evolution of SW China. *Chem. Geol.*, v.291, p.23-37.
- Mitchell, A.H.G., S.-L. Chung, Thura Oo, T.-H. Lin, C.-H. Hung (2012) Zircon U-Pb ages in Myanmar: Magmatic-metamorphic events and the closure of a Neo-Tethys ocean? *J. Asian Earth Sci.*, v.56, p.1-23.
- Liu, C.-Z., S.-L. Chung, F.-Y. Wu, C. Zhang, Y. Xu, J.-G. Wang, Y. Chen (2016) Tethyan suturing in SE Asia: Zircon U-Pb and Hf-O isotopic constraints from Myanmar ophiolites. *Geology*, v.44, p.311-314.
- Tsai, C.-H., J.B.H. Shyu, S.-L. Chung, N.T. Ramos, H.-Y. Lee (2019) Detrital zircon record from major rivers of Luzon Island: Implications for Cenozoic continental growth in Southeast Asia. *J. Geol. Soc. London*, v.176, p.727-735.
- Li, S., S.-L. Chung, Y.-M. Lai, A.A. Ghani, H.-Y. Lee, S. Murtadha (2020) Mesozoic juvenile crustal formation in the easternmost Tethys: Zircon Hf isotopic evidence from Sumatran granitoids, Indonesia. *Geology*, v.48, p.1002-1005, <https://doi.org/10.1130/G47304.1>.
- Zhang, X.-R., C.-Y. Tien, S.-L. Chung, A. Maulana, M. Mawaleda, M.-F. Chu, H.-Y. Lee (2020) A Late Miocene magmatic flare-up in West Sulawesi triggered by Banda slab rollback. *Geol. Soc. Amer. Bull.*, v.132, p.2517-2528, doi.org/10.1130/B35534.1.
- Lai, Y.-M., S.-L. Chung, A.A. Ghani, S. Murtadha, H.-Y. Lee, M.-F. Chu (2021) Mid-Miocene volcanic migration in the westernmost Sunda arc induced by India-Eurasia collision. *Geology*, v.49, p.713-717. doi.org/10.1130/G48568.1.
- Liu, P.-P., L. Caricchi, S.-L. Chung, X.-H. Li, Q.-L. Li, M.-F. Zhou, Y.-M. Lai, A. Ghani, T. Shihotang, T.E. Sheldrake, G. Simpson (2021) Growth and thermal maturation of the Toba magma reservoir. *Proc. Nat'l Acad. Sci.*, v.118 (45) e2101695118; <https://doi.org/10.1073/pnas.2101695118>.
- Zhang, X.-R., S.-L. Chung, J.-T. Tang, A. Maulana, M. Mawaleda, Thura Oo, C.-Y. Tien, H.-Y. Lee (2021) Tracing Argoland in eastern Tethys and implications for India-Asia convergence. *Geol. Soc. Amer. Bull.*, v.133, p.1712-1722. doi.org/10.1130/B35772.1.
- Gao, M.-H., P.-P. Liu, S.-L. Chung, Q. Li, B. Wang, W. Tien, X.-H. Li, H.-Y. Lee (2022) Himalayan zircons resurface in Sumatran arc volcanoes through sediment recycling. *Communications Earth & Environment*, 3, 283, doi.org/10.1038/s43247-022-00611-6.
- Yu, Y., X.-L. Huang, S.-L. Chung, J. Li, Y.-M. Lai, I. Setiawan, M. Sun (2022) Molybdenum isotopic constraint from Java on slab inputs to subduction zone magmatism. *Geochim. Cosmochim. Acta*, v.332, p.1-18, doi.org/10.1016/j.gca.2022.06.009.
- Lin, Y.-C., S.-L. Chung, S. Maruyama, A. Kadarusman, H.-Y. Lee (2023) The ephemeral history of Earth's youngest supra-subduction zone type ophiolite from Timor. *Comm. Earth & Environment*, 4, 308, doi.org/10.1038/s43247-023-00973-5.

## Full List of Peer-reviewed Publications:

<http://scholar.google.com/citations?user=rNgbj8UAAAAJ&hl=en>

<https://orcid.org/0000-0002-5362-4496> (Scopus ID: 57192003158)

<https://publons.com/researcher/1715579/sun-lin-chung/> (WoS Researcher ID: F-5559-2010)

[H-index=98, Citations=37,476, Google Scholar; H-index=88, Citations=27,392, Publons; Dec. 18, 2023]

- (1) Chung, S.-L., S.-H. Jiang and C-H. Chen (1985) REE distribution and petrogenesis of basaltic rocks from Kuanhsi-Chutung area, northern Taiwan. *Acta Geologica Taiwanica*, v.23, p.63-76.
- (2) Chen, C-H. and S.-L. Chung (1985) Petrology and geochemistry of Neogene continental basalts and related rocks in Taiwan: (1) Basanitoids, alkali olivine basalts and tholeiites from Kuanhsi-Chutung area. *Acta Geologica Taiwanica*, v.23, p.35-62.
- (3) Chen, C-H., S.-L. Chung and C.-Y. Lee (1987) Genesis of Neogene continental margin alkali basalts and tholeiites in western Taiwan and the significance of high-pressure megacrysts and lherzite inclusion. *Acta Geologica Taiwanica*, v.25, p.111-132.
- (4) Chung, S.-L., T.Y. Yang, S.-H. Jiang and C-H. Chen (1989) Instrumental neutron activation analysis of rock standards. *Ti-Chih* (Geology), v.9, p.275-284 (in Chinese).
- (5) Chung, S.-L. and C-H. Chen (1990) Origin of clinopyroxene and amphibole megacrysts in the alkali basaltic rocks from western Taiwan as constrained by REE geochemistry. *Proceedings of the Geological Society of China*, v.33, p.177-204.
- (6) 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 and Planetary Science Letters*, v.109, p.133-145.
- (7) Lee, C.-Y., S.-L. Chung, C-H. Chen and Y.-L. Hsieh (1993) Mafic granulite xenoliths from Penghu Islands: Evidence for basic lower crust in SE China continental margin. *Journal of the Geological Society of China*, v.36(4), p.351-379.
- (8) Chung, S.-L., S.-s. Sun, K. Tu, C-H. Chen and C.Y. Lee (1994) Late Cenozoic basaltic volcanism around the Taiwan Strait, SE China: Product of lithosphere-asthenosphere interaction during continental extension. *Chemical Geology*, v.112, p.1-20.
- (9) Lan, C.Y., S.-L. Chung, S.A. Mertzman and W.Y. Hsu (1994) Petrology, geochemistry and Nd-Sr isotope of late Miocene basalts from Liehyu and Chinmen, Fujian. *Journal of the Geological Society of China*, v.37(3), p.309-334.
- (10) Chung, S.-L., B.M. Jahn, S. Chen, T. Lee and 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.
- (11) Chung, S.-L., T.F. Yang, S.J. Chen, C.H. Chen, T. Lee and C-H. Chen (1995) Sr-Nd isotope compositions of high-pressure megacrysts and a lherzite inclusion in alkali basalts from western Taiwan. *Journal of the Geological Society of China*, v.38(1), p.15-24.
- (12) Chung, S.-L., T.F. Yang, C.Y. Lee and C-H. Chen (1995) Igneous provinciality in Taiwan: Consequence of continental rifting superimposed by Luzon and Ryukyu subduction systems. *Journal of Southeast Asian Earth Sciences*, v.11, p.73-80.
- (13) Chung, S.-L. (1995) Discriminating tectonic environments for meta-igneous rocks: Comment on Yui et al. "Geochemical characteristics of metabasites from the slate formations of Taiwan". *Journal of the Geological Society of China*, v.38(2), p.173-177.
- (14) 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.
- (15) Lan, C.Y., S.-L. Chung, S.A. Mertzman and C.H. Chen (1995) Mafic dikes from Chinmen and Liehyu islands off SE China: Petrochemical characteristics and tectonic implications. *Journal of the Geological Society of China*, v.38(3), p.183-213.
- (16) Yang, T.F., C.C. Yang, C.Y. Lee, S.-L. Chung and C-H. Chen (1996) The NTUG rock standards for geochemical analysis. *Journal of the Geological Society of China*, v.39(3), p.307-323.
- (17) Lan, C.Y., C.H. Chen, C.H. Chen, S.-L. Chung, T. Lee, C.M. Wang Lee and T.F. Yui (1996) The crustal evolution of continental Taiwan. *Journal of the Geological Society of China*, v.39(3), p.337-353.
- (18) Chung, S.-L., T.Y. Lee, C.H. Lo, P.L. Wang, C.Y. Chen, T.Y. Nguyen, T.H. Tran and G.Y. Wu (1997) Intraplate extension prior to continental extrusion along the Ailao Shan-Red River shear zone. *Geology*, v.25, p.311-314.
- (19) Chung, S.-L., H. Cheng, B.M. Jahn, S.Y. O'Reilly and B.Q. Zhu (1997) Major and trace element, and Sr-Nd isotope constraints on the origin of Paleogene volcanism in South China prior to the South China Sea opening. *Lithos*, v.40, p.203-220.
- (20) Lan, C.Y., S.-L. Chung and S.A. Mertzman (1997) Mineralogy and geochemistry of granitic rocks from Chinmen, Liehyu and Dadan islands, Fujian. *Journal of the Geological Society of China*, v.40, p.527-558.
- (21) Zhang, Y.Q., Y.W. Xie, H. Liang, H.N. Qiu, X.H. Li and S.-L. Chung (1998) Petrogenesis of ore-bearing porphyries of the Yulong copper ore belt in eastern Tibet. *Geochimica*, v.27, p.236-243. (in Chinese)
- (22) Chung, S.-L., B.M. Jahn, G.Y. Wu, C.H. Lo and B.L. 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.

- (23) Lee, T.Y., C.Y. Chen, C.H. Lo, S.-L. Chung, P.L. Wang, W.P. Lin, M.F.J. Flower, H. Nguyen, T.Y. Nguyen and T.C. Cung (1998)  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  dating result of Neogene basalts in Vietnam and its tectonic implication. In: M.F.J. Flower, S.-L. Chung, C.H. Lo, and T.Y. Lee, eds., *Mantle Dynamics and Plate Interactions in East Asia*, AGU Geodyn. Ser. 27, p.317-330.
- (24) Chung, S.-L., C.H. Lo, T.Y. Lee, Y.Q. Zhang, Y.W. Xie, X.H. Li, K.L. Wang and P.L. Wang (1998) Diachronous uplift of the Tibetan plateau starting 40 Myr ago. *Nature*, v.394, p.769-773.
- (25) Wang, P.L., C.H. Lo, T.Y. Lee, S.-L. Chung, C.Y. Lan and 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.
- (26) Zhang, Y.Q., Y.W. Xie, H.N. Qiu, X.H. Li and S.-L. Chung (1998) Shoshonitic series: Sr, Nd, and Pb isotopic compositions of ore-bearing porphyries from Yulong copper ore deposit in eastern Tibet. *Scientia Geologica Sinica*, v.33, p.359-366. (in Chinese)
- (27) 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. *Journal of Geology*, v.107, p.301-312.
- (28) Wang, K.L., S.-L. Chung, C.H. Chen, R. Shinjo, T.F. Yang and C-H. Chen (1999) Post-collisional magmatism around northern Taiwan and its relation with opening of the Okinawa Trough. *Tectonophysics*, v.308, p.363-376.
- (29) Shinjo, R., S.-L. Chung, Y. Kato and 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.
- (30) Yang, T.F., J.J. Wang, C.H. Lo, S.-L. Chung, R.L. Tien, R. Xu and W. Deng (1999) The thermal history of the Lhasa Block, southern Tibetan plateau based on FTD and Ar-Ar dating. *Radiation Measurements*, v.31, p.626-632.
- (31) Liou, Y.S., C.H. Lo, C.H. Tsai, S.-L. Chung, J.S. Qiu and X.H. Li (1999)  $^{40}\text{Ar}/^{39}\text{Ar}$  geochronology of volcanic and intrusive rocks in the Dabie and Sulu terranes, eastern China, and their tectonic implications. *Jour. Geol. Soc. China*, v.42, p.493-520.
- (32) Xie, Y.W., Y.Q. Zhang, S.-L. Chung and X.H. Li (1999) Trace element characteristics of Cenozoic high-potassic magmas from Haidong, Yunnan, SW China. *Acta Petrologica Sinica*, v.15, p.75-82. (in Chinese)
- (33) Chung, S.-L. and Z.-X. Li (2000) Trace element and isotope characteristics of Cenozoic basalts around the Tanlu fault with implications for the eastern plate boundary between North and South China: A reply (to Discussion by K.J. Zhang). *Jour. Geology*, v.108, p.743-747.
- (34) Chung, S.-L., S.L. Wang, R. Shinjo, C.S. Lee, C-H. Chen (2000) Initiation of arc magmatism associated with embryo continental extension in the southernmost part of Okinawa Trough. *Terra Nova*, v.12, p.225-230.
- (35) Lan, C.Y., S.-L. Chung, J.J.S. Shen, C.H. Lo, P.L. Wang, T.H. Tran, H.T. Hoang and S.A. Mertzman (2000) Geochemical and Sr-Nd isotopic characteristics of granitic rocks from northern Vietnam. *Journal of Asian Earth Sciences*, v.18, 267-280.
- (36) Wang, P.L., C.H. Lo, S.-L. Chung, T.Y. Lee, C.Y. Lan, T.Y. Nguyen (2000) Onset of the movement along the Ailao Shan-Red River shear zone: Evidence from  $^{40}\text{Ar}/^{39}\text{Ar}$  thermo-chronological data. *Journal of Asian Earth Sciences*, v.18, 281-292.
- (37) Wang, K.L., C.H. Chen, S.-L. Chung, L.H. Lin, C.H. Lo, T.F. Yang and H.Y. Lee (2000) Field occurrence, Ar-Ar dating and petrochemical features of volcanic rocks in the Mienhuayu off NE Taiwan. *Journal of Geol. Soc. China*, v.43, p.247-266.
- (38) Zhang, Y.Q., Y.W. Xie, X.H. Li, H. Qiu, H. Liang, J. Li, Z. Zhao, W. Deng and S.-L. Chung (2001) Isotopic characteristics of shoshonitic rocks in the eastern Qinghai-Tibet plateau: Petrogenesis and tectonic significance. *Science in China (D)*, v.44, p.1-6.
- (39) Chung, S.-L., S.-s. Sun and A.J. Crawford (2001) Indian Ocean type convecting mantle underlies East Asia: A consequence of Gondwana breakup and reassembly? *Western Pacific Earth Sciences*, v.1, p.1-18.
- (40) Chung, S.-L., K.L. Wang, A.J. Crawford, V.S. Kamenetsky, C-H. Chen, C.Y. Lan and C.H. Chen (2001) High-Mg potassic rocks from Taiwan: Implications for the genesis of orogenic potassic lavas. *Lithos*, v.59, p.153-170.
- (41) Lan, C.Y., S.-L. Chung, C.H. Lo, T.Y. Lee, P.L. Wang, H.M. Li and D.V. Toan (2001) First evidence for Archean continental crust from northern Vietnam: The oldest rocks in SE Asia and its implications for crustal and tectonic evolution. *Geology*, v.29, p.219-222.
- (42) Xu, Y.G. and S.-L. Chung (2001) The Emeishan Large Igneous Province: Evidence for mantle plume activity and melting conditions. *Geochimica*, v.30, p.1-9. (in Chinese)
- (43) Chen, C-H., S.H. Chung, H.H. Huang and S.-L. Chung (2001) Petrology and geochemistry of Neogene continental basalts and related rocks in northern Taiwan (III). Alkali basalts and tholeiites from Shiting-Yinko area. *Western Pacific Earth Sciences*, v.1, p.19-46.
- (44) Wang, P.L., C.H. Lo, S.-L. Chung, T.Y. Lee and C.Y. Lan (2001) Reply to the comment by Leloup et al. on "Onset of the movement along the Ailao Shan-Red River shear zone: Evidence from  $^{40}\text{Ar}/^{39}\text{Ar}$  thermochronological data". *Jour. Asian Earth Sci.*, v.20, p.101-103.
- (45) Xu, Y.G., S.-L. Chung, B.M. Jahn and G.Y. Wu (2001) Petrologic and geochemical constraints on the petrogenesis of the Permo-Triassic Emeishan flood basalts, SW China. *Lithos*, v.58, p.145-168.



- (46) Shinjo, R., H. Machiyama, Y. Maki, I. Motoyama, G. Toyama, S. Hokakubo and S.-L. Chung (2001) SHINKAI-2000 dive surveys at the westernmost part of the Okinawa Trough and the Kuroshima Knoll. *JAMSTEC J. Deep Sea Res.*, v.19, p.109-121.
- (47) Wang, K.L., S.-L. Chung, C.H. Chen and C.H. Chen (2002) Geochemical constraints on the petrogenesis of high-Mg basaltic andesites from the northern Taiwan volcanic zone and their geodynamic significance. *Chemical Geology*, v.182, p.513-528.
- (48) Lo, C.H., S.-L. Chung, T.Y. Lee and 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.
- (49) Li, X.H., H.W. Zhou, S.-L. Chung, S.J. Ding, Y. Liu, C.Y. Lee, W.C. Ge, Y.M. Zhang and R.J. Zhang (2002) Geochemical and Sm-Nd isotopic characteristics of metabasites from central Hainan Island, South China and their tectonic significance. *The Island Arc*, v.11, p.193-205.
- (50) Lo, C.H., K.T. Howard, S.-L. Chung and S. Meffre (2002) Laser-fusion  $^{40}\text{Ar}/^{39}\text{Ar}$  ages of Darwin impact glass. *Meteoritics and Planetary Sci.*, v.37, p.1555-1562.
- (51) Li, X.H., H.W. Zhou, S.-L. Chung, C.H. Lo, G.J. Wei, Y. Liu and C.Y. Lee (2002) Geochemical and Sr-Nd isotopic characteristics of late Paleogene ultrapotassic magmatism in SE Tibet. *International Geology Review*, v.44, p.559-574.
- (52) Qian, Q., S.-L. Chung, T.Y. Lee, D.J. Wen (2002) Geochemical characteristics and petrogenesis of the Badaling high Ba-Sr granitoids: A comparison of igneous rocks from North China and the Dabie-Sulu orogen. *Acta Petrologica Sinica*, v.18, p.275-292. (in Chinese)
- (53) Lee, H.Y., S.-L. Chung, J.R. Wang, D.J. Wen, Y.Q. Zhang, Y.W. Xie, C.H. Lo, T.F. Yang, T.Y. Lee, G.Y. Wu and J.Q. Ji (2003) Miocene Jiali faulting and its implications for Tibetan tectonic evolution. *Earth Planet. Sci. Lett.*, v.205, p.185-194.
- (54) Lan, C.Y., S.-L. Chung, T.V. Long, C.H. Lo, T.Y. Lee and S.A. Mertzman (2003) Geochemical and Sr-Nd isotopic constraints from the Kontum Massif, central Vietnam for crustal evolution of the Indochina block. *Precambrian Research*, v.122, p.7-27.
- (55) Chung, S.-L., C.H. Lo and T.Y. Lee (2003) Petrologic case for Eocene slab breakoff during the Indo-Asian collision: Comment. *Geology*, (On-line – <http://www.gsjournals.org/i0091-7613-31-6-e7.html>).
- (56) Qian, Q., S.-L. Chung, T.Y. Lee and D.J. Wen (2003) Mesozoic high Ba-Sr granitoids from North China: Geochemical characteristics and geodynamic implications. *Terra Nova*, v.15, p.272-278.
- (57) He, B., Y.G. Xu, S.-L. Chung, L.X. Huang, Y. Wang (2003) Sedimentary evidence for a rapid, kilometer scale crustal doming prior to the eruption of the Emeishan flood basalts. *Earth Planet. Sci. Lett.*, v.213, p.391-405.
- (58) Xu, Y.G., H. Mei, J. Xu, X. Huang, Y. Wang and S.-L. Chung (2003) Origin of two differentiation trends in the Emeishan flood basalts. *Chinese Science Bulletin*, v.48, p.390-394.
- (59) Wang, K.L., S.Y. O'Reilly, W.L. Griffin, S.-L. Chung and N.J. Pearson (2003) Proterozoic mantle lithosphere beneath the extended margin of the South China Block: in-situ Re-Os evidence. *Geology*, v.31, p.709-712.
- (60) Qian, Q., M.F. Chu, S.-L. Chung, T.Y. Lee and X.M. Xiong (2003) Was Triassic continental subduction solely responsible for the generation of Mesozoic mafic magmas and mantle source enrichment in the Dabie-Sulu orogen? *Inter. Geol. Rev.*, v.45, p.659-670.
- (61) 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.
- (62) Xiao, L., Y.G. Xu, S.-L. Chung, B. He, H.J. Mei (2003) Chemo-stratigraphic correlation of late Permian lava successions from the Jinping and Binchuan areas, Yunnan, China: Implications for the extent of the Emeishan large igneous province. *Inter. Geol. Rev.*, v.45, p.753-766.
- (63) Wang, K.L., S.-L. Chung, S.Y. O'Reilly, S.-s. Sun, R. Shinjo and C.H. Chen (2004) Geochemical and Pb-Sr-Nd isotopic constraints on the genesis of post-collisional magmatism around northern Taiwan. *Jour. of Petrology*, v.45, p.975-1011.
- (64) Yang, J.H., S.-L. Chung, M. Zhai, X. Zhou (2004) Geochemical and Sr-Nd-Pb isotopic compositions of Cretaceous mafic dikes from the Jiaodong Peninsula, eastern China: Petrogenesis and mantle sources. *Lithos*, v.73, p.145-160.
- (65) Li, X.H., S.-L. Chung, H. Zhou, C.H. Lo, Y. Liu, C.H. Chen (2004) Jurassic intraplate magmatism in southern Hunan, eastern Guangxi:  $^{40}\text{Ar}/^{39}\text{Ar}$  age, geochemistry, Sr-Nd isotopes and implications for tectonic evolution of SE China. In: Aspects of The Tectonic Evolution of China, J. Malpas et al. (eds.), *Geol. Soc. London, Spec. Publ.* 226, p.193-215.
- (66) Xu, Y.G., B. He, S.-L. Chung, M. Menzies, F.A. Frey (2004) The geologic, geochemical and geophysical consequences of plume involvement in the Emeishan flood-basalt province. *Geology*, v.32, p.917-920.
- (67) Yang, J.H., F.Y. Wu, S.-L. Chung, S.A. Wilde, M.F. Chu (2004) Multiple sources for the origin of granites: Geochemical and Nd/Sr isotopic evidence from Gudaoling granite and its mafic enclaves, NE China. *Geochim. Cosmochim. Acta*, v.68, p.4469-4483.
- (68) Xu, Y.G., S.-L. Chung, J.L. Ma, L.B. Shi (2004) Basalt chemistry suggests contrasting Cenozoic lithospheric evolution and architecture in western and eastern Sino-Korean Craton. *Jour. of Geology*, v.112, p.593-605.

- (69) Xu, Y.G., J.L. Ma, X.L. Hunag, Y. Iizuka, S.-L. Chung, Y.B. Wang, X.Y. Wu, J.F. Xu, Q. Wang (2004) Early Cretaceous gabbroic complex from Yinan, Shandong Province: Petrogenesis and mantle domains beneath the North China Craton. *International Jour. of Earth Sci.*, v.93, p.1025-1041.
- (70) Yang, J.H., F.Y. Wu, C.H. Lo, S.-L. Chung, Y.B. Zhang, S.A. Wilde (2004) Deformation age of Jurassic granites in the Dandong area, eastern China:  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  geochronologic constraints. *Acta Petrol. Sinica*, v.20, p.1241-1250.
- (71) Chung, S.-L., M.F. Chu, Y.Q. Zhang, Y.W. 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.
- (72) Li, X.H., L. Su, S.-L. Chung, Z.X. Li, Y. Liu, B. Song, D.Y. Liu (2005) Formation of the Jinchuan ultramafic intrusion and the world's third largest Ni-Cu sulfide deposit: Associated with the ~825 Ma South China mantle plume? *G-Cubed*, vol. 6, no. 11, doi:10.1029/2005GC001006.
- (73) 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.
- (74) Yang, J.H., F.Y. Wu, S.-L. Chung, S.A. Wilde, M.F. Chu, C.H. Lo, B. Song (2005) Petrogenesis of Early Cretaceous intrusions in the Sulu ultrahigh-pressure orogenic belt, east China and their relationship to lithospheric thinning. *Chem. Geol.*, v.222, p.200-231.
- (75) Li, X.H., Z.X. Li, M.T.D. Wingate, S.-L. Chung, Y. Liu, G.C. Lin, W.X. Li (2006) Geochemistry of the 755 Ma Mundine Well dyke swarm, NW Australia: Part of a Neoproterozoic mantle superplume beneath Rodinia? *Precambrian Res.*, v.146, p.1-15.
- (76) Yang, J.H., F.Y. Wu, S.-L. Chung, S.A. Wilde, M.F. Chu (2006) A hybrid origin for the Qianshan A-type granite, northeast China: Geochemical and Sr-Nd-Hf isotopic evidence. *Lithos*, v.89, p.89-106.
- (77) Chu, M.F., S.-L. Chung, B. Song, D.Y. Liu, S.Y. O'Reilly, N.J. Norman, J. Ji, D.J. Wen (2006) Zircon U-Pb and Hf isotope constraints on Mesozoic tectonics and crustal evolution of southern Tibet. *Geology*, v.34, p.745-748.
- (78) Yang, J.H., S.-L. Chung, S.A. Wilde, F.Y. Wu, M.F. Chu, C.H. Lo, H.R. Fan (2006) Petrogenesis of post-orogenic syenites in the Sulu Orogenic Belt, east China: Geochronological, geochemical and Nd-Sr isotopic evidence – Reply. *Chem. Geol.*, v.235, p.186-190.
- (79) Lee, H.Y., S.-L. Chung\*, Y.B. Wang, D.C. Zhu, J.H. Yang, B. Song, D. Liu, F.Y. Wu (2007) Zircon U-Pb and Hf isotopic constraints on the Linzhou basin on the onset timing and petrogenesis of the Linzong volcanic successions, southern Tibet. *Acta Petrologica Sinica*, v.23, p.493-500.
- (80) Sobolev, A.V., A.W. Hofmann, D.V. Kuzmin, G.M. Yaxley, N.T. Arndt, S.-L. Chung, L.V. Danyushevsky, T. Elliott, F.A. Frey, M.O. Garcia, A.A. Gurenko, V.S. Kamenetsky, A.C. Kerr, N.A. Kivolutsкая, V.V. Matvienkov, I.K. Nikogosian, A. Rocholl, N.M. Suschevskaya, M. Teklay (2007) The amount of recycled crust in sources of mantle-derived melts. *Science*, v.316, p.412-417.
- (81) Xu, Y.G., B. He, X. Huang, Z. Luo, S.-L. Chung et al. (2007) Identification of mantle plumes in the Emeishan large igneous province. *Episodes*, v.30, p.32-42.
- (82) Yang, J.H., F.Y. Wu, S.-L. Chung, C.H. Lo, S.A. Wilde, G.A. Davis (2007) Rapid exhumation and cooling of the Liaonan metamorphic core complex: Inferences from  $^{40}\text{Ar}/^{39}\text{Ar}$  thermochronology and implications for Late Mesozoic extension in eastern North China craton. *Bull. Geol. Soc. America*, v.119, p.1405-1414.
- (83) Chung, S.-L., M.P. Searle, M.W. Yeh (2008) The age of the potassic alkaline igneous rocks along the Ailao Shan-Red River shear zone: Implications for the onset age of left-lateral shearing: Discussion. *J. Geology*, v.116, p.201-204.
- (84) Liang, Y.H., S.-L. Chung, D.Y. Liu, Y.G. Xu, F.Y. Wu, J.H. Yang, Y.B. Wang, C.H. Lo (2008) Detrital zircon evidence from Burma for reorganization of the eastern Himalayan river system. *American Journal of Science*, v.308, p.618-638.
- (85) Wen, D.R., S.-L. Chung, B. Song, Y. Iizuka, H.-J. Yang, J.Q., Ji, D. Liu, S. Gallet (2008) Late Cretaceous Gangdese intrusions of adakitic geochemical characteristics, SE Tibet: Petrogenesis and tectonic implications. *Lithos*, v.105, p.1-11.
- (86) 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. *Chemical Geology*, v.252, p.191-201.
- (87) Wang, Y.B., D.Y. Liu, S.-L. Chung, L.X. Tong, L.D. Ren (2008) SHRIMP zircon age constraints from the Larsemann Hills region, Prydz Bay, for a late Mesoproterozoic to early Neoproterozoic tectono-thermal event in East Antarctica. *American Journal of Science*, v.308, p.573-617.
- (88) Zhu, D.C., G.T. Pan, S.-L. Chung, Z.L. Liao, L.Q. Wang, G.M. Li (2008) SHRIMP zircon age and geochemical constraints on the origin of lower Jurassic volcanic rocks from the Yeba Formation, southern Gangdese, south Tibet. *Int. Geol. Rev.*, v.50, p.442-471.
- (89) Hoa, T.T., T.T. Anh, N.T. Phuong, P.T. Dung, T.V. Anh, A.E. Izokh, A.S. Borisenko, C.-Y. Lan, S.-L. Chung, C.-H. Lo (2008) Permo-Triassic intermediate-felsic magmatism of the Truong Son belt, eastern margin of Indochina. *Comptes Rendus Geoscience*, v.340, p.112-126.
- (90) Yeh, M.-W., T.-Y. Lee, C.-H. Lo, S.-L. Chung, C.-Y. Lan, T.T. Anh (2008) Structural evolution of the Day Nui Con Voi metamorphic complex: Implications on the development of the Red River Shear Zone, northern Vietnam. *Journal of Structural Geology*, v.40, p.1540-1553.

- (91) Yang, J.-H., F.-Y. Wu, S.-L. Chung, C.-H. Lo (2008) The extensional geodynamic setting of early Cretaceous granitic intrusions in the eastern North China Craton: evidence from laser ablation Ar-40/Ar-39 dating of K-bearing minerals. *Acta Petrologica Sinica*, v.24, p.1175-1184.
- (92) Lin, T.-H., C.-H. Lo, S.-L. Chung, F.-J. Hsu, M.-W. Yeh, T.-Y. Lee, J.-Q. Ji, Y.-Z. Wang (2009) <sup>40</sup>Ar/<sup>39</sup>Ar dating of the Jiali and Gaoligong Shear Zones and its tectonic implications to crustal deformation around Eastern Himalayan Syntaxis. *Journal of Geology*, v.117, p.192-199.
- (93) Lin, T.-H., C.-H. Lo, S.-L. Chung, F.-J. Hsu, M.-W. Yeh, T.-Y. Lee, J.Q. Ji, Y.Z. Wang, D.Y. Liu (2009) <sup>40</sup>Ar/<sup>39</sup>Ar dating of the Jiali and Gaoligong shear zones: Implications for crustal deformation around the eastern Himalayan Syntaxis. *Journal of Asian Earth Science*, v.34, p.674-685.
- (94) 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. *Chemical Geology*, v.262, p.229-245.
- (95) Zhu, D.-C., S.-L. Chung, X.-X. Mo, Z.-D. Zhao, Y. Niu, Y.L., B. Song, Y.-H. Yang (2009) The 132 Ma Comei-Bunbury large igneous province: Remnants identified in present-day SE Tibet and SW Australia. *Geology*, v.37, p.583-586.
- (96) Chiu, H.-Y., S.-L. Chung, F.Y. Wu, D. Liu, Y.-H. Liang, I.-J. Lin, Y. Iizuka, L.W. Xie, Y. Wang, M.-F. Chu (2009) Zircon U-Pb and Hf isotopic constraints from eastern Transhimalayan batholiths on the pre-collisional magmatic and tectonic evolution in southern Tibet. *Tectonophysics*, v.477, p.3-19.
- (97) 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.
- (98) 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 postcollisional adakites. *Tectonophysics*, v.477, p.36-48. Erratum: *Tectonophysics* (2010) v.483, p.427-428.
- (99) Chu, M.-F., K.-L. Wang, W.F. Griffin, S.-L. Chung, S.Y. O'Reilly, N.J. Pearson, Y. Iizuka (2009) Apatite composition: Tracing petrogenetic processes in Transhimalayan granitoids. *Journal of Petrology*, v.50, p.1829-1955.
- (100) Ji, W.Q., F.Y. Wu, C.Z. Liu, S.-L. Chung (2009) Geochronology and petrogenesis of granitic rocks in the Gangdese batholith, southern Tibet. *Science in China, Series D*, v.52, p.1240-1261.
- (101) Wu, F.Y., W.Q. Ji, C.Z. Liu, S.-L. Chung (2010) Detrital zircon U-Pb and Hf isotopic constraints from the Xigaze fore-arc basin, southern Tibet on the source provenance and Transhimalayan magmatic evolution. *Chemical Geology*, v.271, p.13-25.
- (102) Searle, M.P., M.W. Yeh, T.-H. Lin, S.-L. Chung (2010) Structural constraints on the timing of left-lateral shear along the Red River shear zone in the Ailao Shan and Diancang Shan Ranges, Yunnan, SW China. *Geosphere*, v.6, p.316-338.
- (103) Xu, Y.G., S.-L. Chung, H. Shao, B. He (2010) Silicic magmas from the Emeishan large igneous province, Southwest China: Petrogenesis and their link with the end-Guadalupian biological crisis. *Lithos*, v.119, p.47-60.
- (104) Searle, M.P., S.-L. Chung, C.-H. Lo (2010) Geological offsets and age constraints along the northern Dead Sea fault, Syria. *J. Geol. Soc Lond*, v.167, p.1001-1008.
- (105) Wang, Q., D.A. Wyman, Z.-X. Li, W.D. Sun, S.-L. Chung, et al. (2010) Eocene north-south trending dikes in central Tibet: New constraints on the timing of east-west extension with implication for early plateau uplift? *Earth Planet. Sci. Lett.*, v.298, p.205-216.
- (106) Gao, Y., X.H. Li, C.L., Li, S.-L. Chung (2010) Quaternary zircon geochronology by SIMS: A case study of the Chinkuashi dacite from NE Taiwan. *Earth Sci. Frontiers*, v.17, p.146-155. (in Chinese)
- (107) Lin, S.-C., B.-Y. Kuo, S.-L. Chung (2010) Thermomechanical models for the dynamics and melting processes in the Mariana subduction system. *J. Geophys. Res., Solid Earth*, v.115, B12403, doi:10.1029/2010JB007658.
- (108) Zhang, R.Y., B.-M. Jahn, J.G. Liou, J.S. Yang, H.-Y. Chiu, S.-L. Chung, T.-F. Li, C.-H. Lo (2010) Origin and tectonic implication of an UHP metamorphic mafic-ultramafic complex from the Sulu UHP terrane, eastern China: Evidence from petrologic and geochemical studies of CCSD-Main Hole core samples. *Chem. Geol.*, v.276, p.69-87.
- (109) Zhu, D.C., Z.D. Zhao, Y. Niu, Z.Q. Hou, X.X. Mo, S.-L. Chung, L.Q. Wang, F.Y. Wu (2011) The Lhasa terrane: Record of a microcontinent and its histories of drift and growth. *Earth Planet. Sci. Lett.*, v.301, p.241-255.
- (110) Eyuboglu, Y., S.-L. Chung, M. Santosh, F.O. Dudas, E. Akaryali (2011) Transition from shoshonitic to adakitic magmatism in the eastern Pontides, NE Turkey: Implications for slab window melting. *Gondwana Res.*, v.19, p.413-429.
- (111) Wang, P.L., C.H. Lo, C.Y. Lan, S.-L. Chung, T.Y. Lee, T.N. Nam, Y. Sano (2011) Thermochronology of the PoSen complex, northern Vietnam: Implications for the tectonic evolution in SE Asia. *J. Asian Earth Sci.*, v.40, p.1044-1055.
- (112) Searle, M.P., S.-L. Chung, C.-H. Lo (2011) Reply to Discussion by Westway on "Geological offsets and age constraints along the northern Dead Sea fault, Syria. *J. Geol. Soc. London*, v.168, doi: 10.1144/0016-76492010-166.
- (113) Eyuboglu, Y., M. Santosh, S.-L. Chung (2011) Crystal fractionation of adakitic magmas in the crust-mantle transition zone: Petrology, geochemistry and U-Pb zircon chronology of the Seme adakites, eastern Pontides, NE Turkey. *Lithos*, v.121, p.151-166.

- (114) Searle, M.P., J.R. Elliott, R.J. Phillips, S.-L. Chung (2011) Crustal-Lithospheric structure, geologic evolution and continental extrusion of Tibet. *J. Geol. Soc. London*, v.167, p.633-672.
- (115) Eyuboglu, Y., M. Santosh, F.O. Dudas, S.-L. Chung, E. Akaryali (2011) Migrating magmatism in a continental arc: Geodynamics of the eastern Mediterranean revisited. *J. Geodynamics*, v.52, p.2-15.
- (116) Wang, B., L.S. Shu, M. Faure, B.-M. Jahn, D. Cluzel, J. Charvet, S.-L. Chung, S. Meffre (2011) Paleozoic tectonics of the southern Tianshan: New insights from Structural, chronological and geochemical studies of the Heiyingshan ophiolitic mélange (NW China). *Tectonophysics*, v.497, p.85-104.
- (117) Azizi, H., S.-L. Chung, T. Tanaka, Y. Asahara (2011) Isotopic dating of the Khoy metamorphic complex (KMC), northwestern Iran: A significant revision of the formation age and magma source. *Precambrian Res.*, 185, 87-94.
- (118) Azizi, H., T. Tanaka, Y. Asahara S.-L. Chung, M.H. Zarrinkoub (2011) Discrimination of the age and tectonic setting for magmatic rocks along the Zagros thrust zone, northwest Iran, using the zircon U–Pb age and Sr–Nd isotopes. *J. Geodynamics*, 52, 304-320.
- (119) Azizi, H., Y. Asahara, B. Mehrabl, S.-L. Chung (2011) Geochronological and geochemical constraints on the petrogenesis of high-K granites from the Suffi abad area, Sanandaj-Sirjan zone, NW Iran. *Chemie der Erde – Geochemistry*, 71, 363-376.
- (120) Sun, W.D., H. Zhang, M.X. Ling, X. Ding, S.-L. Chung, J.B. Zhou, X.Y. Yang, W.M. Fan (2011) The genetic association of adakites and Cu-Au ore deposits. *Int'l Geology Reviews*, 53, 691-701.
- (121) 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*, 39, 923-926.
- (122) 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.*, 307, 479-486.
- (123) Eyuboglu, Y., M. Santosh, S.-L. Chung (2011) Petrochemistry and U-Pb zircon ages of adakitic intrusions from the Pular Massif (Eastern Pontides, NE Turkey): Implications for slab rollback and ridge subduction associated with Cenozoic convergent tectonics in the Eastern Mediterranean. *Jour. of Geology*, 119, 394-417.
- (124) Eyuboglu, Y., M. Santosh, O. Bektas, S.-L. Chung (2011) Late Triassic subduction-related ultramafic–mafic magmatism in the Amasya region (eastern Pontides, N. Turkey): Implications for the ophiolite conundrum in Eastern Mediterranean. *J. Asian Earth Sci.*, 42, 234-257.
- (125) Tran, V.A., K.-N. Pang, S.-L. Chung\*, H.-M. Lin, T.T. Hoa, T.T. Anh, H.J. Yang (2011) Geochemical and Sr–Nd isotopic constraints on Permian intra-plate volcanism in the Song Da zone (NW Vietnam). *J. Asian Earth Sci.*, 42, 1341-1355.
- (126) Wang, Q., Z.-x Li, S.-L. Chung, D. Wyman, Y.L. Sun, Z.H. Zhao, Y.T. Zhu, H.N. Qiu (2011) Late Triassic high-Mg andesite/dacite suites from northern Hohxil, North Tibet: Geochronology, geochemical characteristics, petrogenetic processes and tectonic implications. *Lithos*, 126, 54-67.
- (127) Demonerova, E.I., A.V. Ivanov, L.Z. Reznitskii, V.G. Belichenko, C.-H. Hung, S.-L. Chung, Y. Iizuka, K.-L. Wang (2011) Formation history of the Tuva-Mongolian Massif (Western Hubsugul region, North Mongolia) based on U–Pb dating of detrital zircons from sandstone of the Darkhat group by the LA-ICP-MS method. *Doklady Earth Sciences*, 441, 1498-1501.
- (128) Lin, T.-H., S.-L. Chung, H.-Y. Chiu, F.Y. Wu, M.-W. Yeh, M.P. Searle, Y. Iizuka (2012) Zircon U–Pb and Hf isotopic constraints from the Ailao Shan–Red River shear zone on the tectonic and crustal evolution of SW China. *Chemical Geology*, 291, 23-37.
- (129) Lee, H.-Y., S.-L. Chung, J. Ji, Q. Qian, S. Gallet, C.-H. Lo, T.-Y. Lee, Q. Zhang (2012) Geochemical and Sr–Nd isotopic constraints on the genesis of the Cenozoic Linzizong volcanic successions, southern Tibet. *J. Asian Earth Sci.*, 53, 96-114.
- (130) Lin, I.-J., S.-L. Chung, C.-H. Chu, H.-Y. Lee, S. Gallet, G. Wu, J. Ji, Y. Zhang (2012) Geochemical and Sr–Nd isotopic characteristics of Cretaceous to Paleocene granitoids and volcanic rocks, SE Tibet: Petrogenesis and tectonic implications. *J. Asian Earth Sci.*, 53, 131-150.
- (131) Ji, W.Q., F.Y. Wu, C.Z. Liu, S.-L. Chung (2012) Early Eocene crustal thickening in southern Tibet: New age and geochemical constraints from the Gangdese batholith. *J. Asian Earth Sci.*, 53, 82-95.
- (132) 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.
- (133) Tsai, C.-H., T.-F. Yui, W.-S. Chen, S.-L. Chung (2012) Comment on “Geochronologic evidence for a cold arc-continent collision: the Taiwan orogeny” by R.P. Wintsch, H.-J. Yang, X.-H. Li, K.-A. Tung [*Lithos* 125 (2011) 236-248], v.132/133, p.193-195.
- (134) 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. *Chemical Geology*, 306/307, 40-53.
- (135) Sun, W.D., M.X. Ling, S.-L. Chung, X.Y. Yang, H.Y. Liang, W.M. Fan, R. Goldfarb, Q.Z. Yin (2012) Geochemical constraints on adakites of different origins and copper mineralization. *Jour. of Geology*, 120, 105-120.

- (136) Ji, W.Q., F.Y. Wu, S.-L. Chung, C.Z. Liu (2012) Identification of early Carboniferous granitoids from southern Tibet and implications for terrane assembly related to the Paleo-Tethyan evolution. *Jour. Geology*, 120, 531-541.
- (137) Searle, M.P., M.J. Whitehouse, L.J. Robb, A.A. Ghani, C.S. Hutchison, M. Sone, S. W.-P. Ng, M.H. Roselee, S.-L. Chung, G.J. H. Oliver (2012) Tectonic evolution of the Sibumasu-Indochina terrane collision zone in Thailand and Malaysia: Constraints from new U-Pb zircon chronology of SE Asian tin granitoids. *J. Geol. Soc. London*, 169, 489-500.
- (138) Sun, W.D., H. Zhang, M.X. Ling, X. Ding, S.-L. Chung, J.B. Zhou, X.Y. Yang, W.M. Fan (2012) The genetic association of adakites and Cu-Au ore deposits: A reply. *Int'l Geology Reviews*, 54, 370-372.
- (139) Wang, B., B.-m. Jahn, L. Shu, K. Li, S.-L. Chung, D. Liu (2012) Middle-Late Ordovician arc-type plutonism in the NW Chinese Tianshan: Implications for the accretion of the Kazakhstan continent in Central Asia. *J. Asian Earth Sci.*, 49, 40-53.
- (140) Mitchell, A.H.G., S.-L. Chung, Thura Oo, T.-H. Lin, C.-H. Hung (2012) Zircon U-Pb ages in Myanmar: Magmatic-metamorphic events and the closure of a neo-Tethys ocean? *J. Asian Earth Sci.*, Invited Review Article, v.56, p.1-23.
- (141) Walia, M., U. Knittel, S. Suzuki, S.-L. Chung, R.E. Pena, T.F. Yang (2012) No Paleozoic metamorphics in Palawan (the Philippines)? Evidence from single grain U-Pb dating of detrital zircons. *J. Asian Earth Sci.*, 52, 134-145.
- (142) 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*, 154, 392-405.
- (143) 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. *Journal of Petrology*, 53, 2095-2113.
- (144) 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. *Journal of Petrology*, 53, 2523-2566.
- (145) Wang, K.-L., Y.-M. Lo, S.-L. Chung, C.-H. Lo, S.-K. Hsu, H.-J. Yang, R. Shinjo (2012) Age and geochemical features of dredged basalts from offshore SW Taiwan: Coincidence of intraplate magmatism with the South China Sea spreading. *Terr. Atmos. Ocean Sci.*, 23, 657-669.
- (146) Wang, K.-L., S.-L. Chung, Y.-M. Lo, C.-H. Lo, H.-J. Yang, R. Shinjo, T.-Y. Lee, J.-C. Wu, H.-T. Huang (2012) Age and geochemical characteristics of Paleogene basalts drilled from western Taiwan: Records of initial rifting at the southeastern Eurasian continental margin. *Lithos*, 155, 426-441.
- (147) Kovach, V., E. Salnikova, K.-L. Wang, B.-m. Jahn, H.-Y. Chiu, L. Reznitskiy, A. Kotov, Y. Iizuka, S.-L. Chung (2013) Zircon ages and Hf isotopic constraints on sources of clastic metasediments of the Slyudyansky high-grade complex, southeastern Siberia: Implication for continental growth and evolution of the Central Asian Orogenic Belt. *J. Asian Earth Sci.*, 62, 18-36.
- (148) Zhang, R.Y., C.-H. Lo, S.-L. Chung, M. Grove, Y. Iizuka, S. Omori, J.G. Liou, T.V. Tri (2013) Origin and tectonic implication of ophiolite and eclogite in the Song Ma suture zone between the South China and Indochina blocks. *Journal of Metamorphic Geology*, 31, 49-62.
- (149) Tapsoba, B., C.-H. Lo, B.-m. Jahn, S.-L. Chung (2013) Chemical and Sr-Nd isotopic compositions and zircon U-Pb ages of the Birimian granitoids from NE Burkina Faso, West African Craton: Implications on the geodynamic setting and crustal evolution. *Precambrian Research*, 224, 364-396.
- (150) Pang, K.-N., N. Arndt, H. Svensen, S. Planke, A. Polozov, S. Polteau, Y. Iizuka, S.-L. Chung (2013) A petrologic, geochemical and Sr-Nd isotopic study of contact metamorphism and degassing of Devonian evaporates in the Norilsk aureoles, Siberia. *Contributions to Mineralogy and Petrology*, 164, 683-704.
- (151) Walia, M., T.F. Yang, U. Knittel, T.-K. Liu, C.-H. Lo, S.-L. Chung, L.S. Teng, C.B. Dimalanta, G.P. Yumul Jr., W.M. Yuan (2013) Cenozoic tectonics in the Buruanga Peninsula, Panay Island, Central Philippines, as constrained by U-Pb,  $^{40}\text{Ar}/^{39}\text{Ar}$  and fission track thermochronometers. *Tectonophysics*, 582, 205-220.
- (152) 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*, 162-163, 70-87.
- (153) Palin, R.M., M.P. Searle, D.J. Waters, R.R. Parrish, N.M.W. Roberts, M.S.A. Horstwood, M.-W. Yeh, S.-L. Chung, T.T. Anh (2013) A geochronological and petrological study of anatectic gneiss and associated granitic dykes from the Day Nui Con Voi metamorphic core complex, North Vietnam: Constraints upon the timing of metamorphism within the Red River shear zone. *J. Metamorphic Geology*, 31, 359-387.
- (154) Eyuboglu, Y., M. Santosh, F.O. Dudas, E. Akaryali, S.-L. Chung, K. Akdag, Bo. Bektas (2013) The nature of transition from adakitic to non-adakitic magmatism in a slab window setting: A synthesis from the eastern Pontides, NE Turkey. *Geoscience Frontiers*, 4, 353-375.
- (155) Pang, K.-N., S.-L. Chung, M.H. Zarrinkoub, Y.-C. Lin, H.-Y. Lee, C.-H. Lo, M. Khatib (2013) Iranian ultrapotassic rocks at ~11 Ma signify the initiation of post-collisional magmatism in the Arabia-Eurasia collision zone. *Terra Nova*, 25, 405-413.

- (156) Pang, K.-N., M.-F. Zhou, L. Qi, S.-L. Chung, C.-H. Chu, H.-Y. Lee (2013) Petrology and geochemistry at the LZ-MZa transition of the Panzhihua intrusion, SW China: implications for differentiation and oxide ore genesis. *Geoscience Frontiers*, 4, 517-533.
- (157) Lin, Y.-L., M.-W. Yeh, T.-Y. Lee, S.-L. Chung, Y. Iizuka, C. Punya (2013) First evidence of the Cambrian basement in Upper Peninsula of Thailand and its implication for crustal and tectonic evolution of the Sibumasu terrane. *Gondwana Research*, 24, 1031-1037.
- (158) Lin, T.-H., S.-L. Chung, A. Kumar, F.Y. Wu, H.-Y. Chiu, I.-J. Lin (2013) Linking a prolonged Neo-Tethyan magmatic arc in South Asia: Zircon U-Pb and Hf isotopic constraints from the Lohit batholith, NE India. *Terra Nova*, 25, 453-458.
- (159) Ghani, A., M.P. Searle, L. Robb, S.-L. Chung (2013) Transitional I-S type characteristics in the Main Range granite of Peninsular Malaysia. *J. Asian Earth Sci.*, 76, 225-240.
- (160) Pang, K.-N., S.-L. Chung, M.H. Zarrinkoub, M.M. Khatib, S.S. Mohammadi, H.-Y. Chiu, C.-H. Chu, H.-Y. Lee, C.-H. Lo (2013) Eocene-Oligocene post-collisional magmatism in the Lut-Sistan region, eastern Iran: Magma genesis and tectonic implications. *Lithos*, 180/181, 234-251.
- (161) Tapsoba, B., C.-H. Lo, U. Wenmenga, B.-m. Jahn, S.-L. Chung (2013)  $^{40}\text{Ar}/^{39}\text{Ar}$  thermochronology of Paleoproterozoic granitoids from northeast Burkina Faso, West Africa: Implications for regional tectonics. *Precambrian Res.*, 235, 208-229.
- (162) Ghani, A., C.-H. Lo, S.-L. Chung (2013) Basaltic dykes of the eastern belt of Peninsular Malaysia: The effects of the difference in crustal thickness of Sibumasu and Indochina. *JAES*, 77, 127-139.
- (163) Weller, O., M. St-Onge, D. Waters, N. Rayner, M. Searle, S.-L. Chung, R. Palin, Y.-H. Lee, X. Xu (2013) Quantifying Barrovian metamorphism in the Danba structural culmination of eastern Tibet. *J. Metamorphic Geology*, 31, 909-935.
- (164) Shellnutt, J.G., C.-Y. Lan, T.V. Long, T. Usuki, H.-J. Yang, S.A. Mertzman, Y. Iizuka, S.-L. Chung, K.-L. Wang, W.-Y. Hsu (2013) Formation of Cretaceous Cordilleran and post-orogenic granites and their micro-granular enclaves from the Dalat zone, southern Vietnam: Tectonic implications for the evolution of Southeast Asia. *Lithos*, 182/183, 229-241.
- (165) Wu, F.-Y., W.-Q. Ji, J.-G. Wang, C.-Z. Liu, S.-L. Chung, P.D. Clift (2014) Zircon U-Pb and Hf isotopic constraints on the onset time of the India-Asia collision. *Amer. J. Sciences*, 314, 548-579.
- (166) Zhang, R.Y., C.-H. Lo, X.-H. Li, S.-L. Chung, T.T. Anh, T.V. Tri (2014) U-Pb dating and tectonic implication of ophiolite and metabasite from the Song Ma suture zone, northern Vietnam. *Amer. J. Sciences*, 314, 649-678.
- (167) Jahn, B.-M., M. Usuki, T. Usuki, S.-L. Chung (2014) Generation of Cenozoic granitoids in Hokkaido (Japan): Constraints from zircon geochronology, Sr-Nd-Hf isotopic and geochemical analyses, and implications for crustal evolution. *Amer. J. Sciences*, 314, 704-750.
- (168) Shao, W.-Y., S.-L. Chung, W.-S. Chen (2014) Zircon U-Pb age determination of volcanic eruptions in Lutao and Lanyu, the northern Luzon arc. *Terr. Atmos. Ocean. Sci.*, 25, 149-187.
- (169) Wang, B., H. Liu, L. Shu, B.-M. Jahn, S.-L. Chung, Y. Zhai, D. Liu (2014) Early Neoproterozoic crustal evolution in northern Yili Block: Insights from migmatite, orthogneiss and leucogranite of the Wenquan metamorphic complex in the NW Chinese Tianshan. *Precambrian Research*, 242, 58-81.
- (170) Liu, C.-Z., F.-Y. Wu, S.-L. Chung, Q.-L. Li, W.-D. Sun, W.Q. Ji (2014) A hidden  $^{18}\text{O}$ -enriched reservoir in the sub-arc mantle. *Scientific Reports*, 4 : 4232 | DOI: 10.1038/srep04232.
- (171) Wang, Q., D.-C. Zhu, Z.-D. Zhao, S. Liu, S.-L. Chung, D. Liu, J.-G. Dai, L.-Q. Wang, X.X. Mo (2014) Origin of the ca. 90 Ma magnesia-rich volcanic rocks in SW Nyima, central Tibet: Products of lithospheric delamination beneath the Lhasa-Qiangtang collision zone. *Lithos*, 198/199, 24-37.
- (172) Shellnutt, J.G., T.-Y. Lee, M.E. Brookfield, S.-L. Chung (2014) Correlation between magmatism of the Ladakh batholith and plate convergence rates during the Indo-Eurasian collision. *Gondwana Research*, 26, 1051-1059.
- (173) 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.  $G^3$  (*Geochemistry, Geophysics, Geosystems*), doi:10.1002/2014GC005262.
- (174) Tang, G.-J., S.-L. Chung, Q. Wang, D.A. Wyman, W. Dan, H.-Y. Chen (2014) Petrogenesis of a Late Carboniferous mafic dike-granitoid association in the western Tianshan: Response to the geodynamics of oceanic subduction. *Lithos*, 202/203, 85-99.
- (175) 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*, 202/203, 267-282.
- (176) Yeh, M.-W., R.P. Wintsch, Y.-C. Liu, C.-H. Lo, S.-L. Chung, Y.-L. Lin, T.-Y. Lee, Y.-C. Wang, M.R. Stokes (2014) Evidence of cool extrusion of the North Indochina Block along the Ailao Shan Red River shear zone: A Diancang Shan perspective. *Journal of Geology*, 122, 567-590.
- (177) François, T., P. Agard, M. Bernet, B. Meyer, S.-L. Chung, M.H. Zarrinkoub, E. Burov, P. Monié (2014) Cenozoic exhumation of the internal Zagros: First constraints from low-temperature thermochronology and implications for the build-up of the Iranian plateau. *Lithos*, 206/207, 100-112.
- (178) Ji, W.-Q., F.-Y. Wu, S.-L. Chung, C.-Z. Liu (2014) The Gangdese magmatic constraints on a Latest Cretaceous delamination of the Lhasa terrane, southern Tibet. *Lithos*, 210/211, 168-180.

- (179) Ghani, A.A., F.I. Hazad, A. Jamil, Q.L. Xiang, W. Ismail, S.-L. Chung, Y.-M. Lai et al. (2014) Permian ultra-felsic A-type granite from Besar Islands group, Johor, peninsula Malaysia. *J. Earth System Sci.*, 123, 1857-1878.
- (180) Weller, O.M., M.R. St-Onge, M.P. Searle, D.J. Walters, N. Rayner, S.-L. Chung, R.M. Palin, S. Chen (2015) Mesozoic metamorphism in the northern Lhasa terrane: Constraining pre-Himalayan architecture of the Tibetan plateau. *Journal of Metamorphic Geology*, 33, 91-113.
- (181) Usuki, T., C.-Y. Lan, T.H. Tran, T.D. Pham, K.-L. Wang, G. Shellnutt, S.-L. Chung (2015) Zircon U-Pb ages and Hf isotopic compositions of alkaline silicic magmatic rocks in the Phan Si Pan-Tu Le region, northern Vietnam: Identification of a displaced western extension of the Emeishan Large Igneous Province. *Journal of Asian Earth Sciences*, 97, 102-124.
- (182) 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.
- (183) Ng, S.W., S.-L. Chung, L.J. Robb, M.P. Searle, A.A. Ghani, M.J. Whitehouse, G. Oliver, M. Sone, M.J. Gardiner, M.H. Roselee (2015) Petrogenesis of Malaysian granitoids in the Southeast Asian Tin Belt: Part I. Geochemical and Sr-Nd isotopic characteristics. *Geol. Soc. Amer. Bulletin*, 127, 1209-1237.
- (184) Ng, S.W., M.J. Whitehouse, M.P. Searle, L.J. Robb, A.A. Ghani, S.-L. Chung, G. Oliver, M. Sone, M.J. Gardiner, M.H. Roselee (2015) Petrogenesis of Malaysian granitoids in the Southeast Asian Tin Belt: Part II. U-Pb zircon geochronology and tectonic model. *Geol. Soc. Amer. Bulletin*, 127, 1238-1258.
- (185) Zhu, D.-C., Q. Wang, Z.-D. Zhao, S.-L. Chung, P.A. Cawood, Y. Niu, S.-A. Liu, F.-Y. Wu, X.-X. Mo (2015) Magmatic record of India-Asia collision. *Scientific Reports*, 5: 14289 | DOI: 10.1038/srep14289.
- (186) Pang, K.-N., S.-L. Chung, M.H. Zarrinkoub, F. Wang, V.S. Kamenetsky, H.-Y. Lee (2015) Quaternary high-Mg ultrapotassic rocks from the Qal'eh Hasan Ali maars, SE Iran: Petrogenesis and geodynamic implications. *Contr. to Mineralogy and Petrology*, 170:27. doi:10.1007/s00410-015-1183-y.
- (187) Wang, Q., Zhu, D.-C., P.A. Cawood, Z.-D. Zhao, S.-A. Liu, S.-L. Chung, L. Zhang, D. Liu, Y. Zheng, J. Dai (2015) Eocene magmatic processes and crustal thickening in southern Tibet: Insights from strongly fractionated 43 Ma granites in the western Gangdese batholith. *Lithos*, 239, 128-141.
- (188) Wang, B.D., L.Q. Wang, S.-L. Chung, J.L. Chen, F.G. Yin, H. Liu, X.B. Li, L.K. Chen (2016) Evolution of the Bangong-Nujiang Tethyan ocean: Insights from geochronology and geochemistry of mafic rocks within ophiolites. *Lithos*, 245, 18-33.
- (189) Lee, H.-Y. S.-L. Chung, H.-M. Yang (2016) Late Cenozoic volcanism in central Myanmar: Geochemical characteristics and geodynamic significance. *Lithos*, 245, 174-190.
- (190) Zhai, Q.-G., B.-m. Jahn, J. Wang, P.Y. Hu, S.-L. Chung, H.-Y. Lee, S.H. Tang, Y. Tang (2016) Oldest Paleo-Tethyan ophiolitic mélange in the Tibetan plateau. *Bull. Geol. Soc. America*, 128, 255-378.
- (191) 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*, 44, 283-286.
- (192) Liu, C.-Z., S.-L. Chung, F.-Y. Wu, C. Zhang, Y. Xu, J.-G. Wang, Y. Chen (2016) Tethyan suturing in SE Asia: Zircon U-Pb and Hf-O isotopic constraints from Myanmar ophiolites. *Geology*, 44, 311-314.
- (193) Searle, M.P., N. Rogers, S.-L. Chung, Y.-H. Lee, K.L. Cook, J.R. Elliot, O.M. Weller, M.R. St-Onge, X.W. Xu, X.B. Tan, K. Li (2016) Age and anatomy of the Gongga Shan batholith, eastern Tibetan plateau and its relationship to the active Xianshui-he fault. *Geosphere*, 12, 948-970, doi:10.1130/GES01244.1.
- (194) Li, S., S.-L. Chung, S.A. Wilde, T. Wang, W.-J. Xiao, Q. Guo (2016) Linking magmatism with collision in an accretionary orogen. *Scientific Reports*, 6, DOI: 10.1038/srep25751.
- (195) Ivanov, A.V., E.I. Demonterova, L.Z. Reznitskii, I.G. Barash, S.G. Arzhannikov, A.V. Arzhannikova, C.-H. Hung, S.-L. Chung, Y. Iizuka (2016) Catastrophic outburst and tsunami flooding of Lake Baikal: U-Pb detrital zircon provenance study of the Palaeo-Manzurka megaflood sediments. *International Geology Review*, 58, 1818-1830.
- (196) Wang, Q., C.J. Hawkesworth, D. Wyman, S.-L. Chung, F.-Y. Wu, X.-H. Li, Z.-X. Li, X.-Z. Zhang, G.-J. Tang, Y.-H. Dong (2016) Pliocene-Quaternary crustal melting in central and northern Tibet and insights into crustal flow. *Nature Communications*, 7, doi:10.1038/ncomms11888.
- (197) Rehman, H., H.-Y. Lee, S.-L. Chung, T. Khan, P.J. O'Brien, H. Yamamoto (2016) Source and mode of the Permian Panjal Trap magmatism: Evidence from zircon U-Pb and Hf isotopes and trace element data from the Himalayan ultrahigh-pressure rocks. *Lithos*, 260, 286-299.
- (198) 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*, 264, 348-359.
- (199) Chen, W.-S., Y.-C. Huang, C.-H. Liu, H.-Y. Feng, S.-L. Chung, Y.-H. Lee (2016) U-Pb zircon geochronology constraints on the ages of the Tananao Schist Belt and timing of orogenic events in Taiwan: Implications for a new tectonic evolution of the South China Block during the Mesozoic. *Tectonophysics*, 686, 68-81.

- (200) Beyarslan, M., Y.-C. Lin, A.F. Bingol, S.-L. Chung (2016) Zircon U-Pb age and geochemical constraints on the origin and tectonic implication of Cadomian (Ediacaran-Early Cambrian) magmatism in SE Turkey. *Journal of Asian Earth Sciences*, 130, 223-238.
- (201) Fedele, L., I. Seghedi, S.-L. Chung, F. Laiena, T.-H. Lin, V. Morra, M. Lustrino (2016) Post-collisional magmatism in the Late Miocene Rodna-Bârgău district (East Carpathians, Romania): Geochemical constraints and petrogenetic models. *Lithos*, 266-267, 367-382.
- (202) Tseng, T.-L., H.-C. Hsu, P.-R. Jian, B.-S. Huang, J.-C. Hu, S.-L. Chung (2016) Focal mechanism and stress variations in the Caucasus and NE Turkey from constraints of regional waveforms. *Tectonophysics*, 691, 362-374.
- (203) Kotov, A.B., Velikoslavinsky, S.D., Kovach, V.P., Sorokin, A.A., Sorokin, A.P., Skovitina, T.M., Zagornaya, N.Yu., Wang, K.-L., Chung, S.-L., Jahn, B.-M. (2016) Paleoproterozoic age of the Zeya Group, Stanovoy Complex of the Dzhugdzhur-Stanovoy Superterrane (Central Asian mobile belt): Results of Sm-Nd isotopic and U-Th-Pb geochronological analyses. *Doklady Earth Sciences*, 471, 1234-1237.
- (204) Lai, Y.-M., S.-R. Song, C.-H. Lo, T.-H. Lin, M.-F. Chu, S.-L. Chung\* (2017) Age, geochemical and Sr-Nd isotopic variations in volcanic rocks from the Coastal Range of Taiwan: Magma generation in the northern Luzon arc. *Lithos*, v.272-273, 92-115.
- (205) Singh, A.K., S.-L. Chung, R.K. Bikramaditya, H.-Y. Lee (2017) New U-Pb zircon ages of plagiogranites from the Nagaland-Manipur ophiolites, Indo-Myanmar orogenic belt, NE India. *Journal of the Geol. Soc. London*, 174, 170-179.
- (206) Chen, W.-S., S.-L. Chung, H.-Y. Chou, Z. Zugeerbai, 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*, 36, doi:10.1002/2016TC004383.
- (207) Hu, P.-Y., Q.-G. Zhai, B.-M. Jahn, J. Wang, C. Li, S.-L. Chung, H.-Y. Lee, S.-H. Tang (2017) Late Early Cretaceous magmatic rocks (118-113 Ma) in the middle segment of the Bangong-Nujiang suture zone, Tibetan Plateau: Evidence of lithospheric delamination. *Gondwana Research*, 44, 116-138.
- (208) Guo, Q.-Q., S.-L. Chung, W.-J. Xiao, Q.-L. Hou, S. Li (2017) Petrogenesis and tectonic implications of Late Devonian arc volcanic rocks from southern Beishan Orogen, NW China: Geochemical and Nd-Sr-Hf isotopic constraints. *Lithos*, v.278-281, p.84-96.
- (209) 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. *Journal of Geophysical Research, Solid Earth*, 122, doi:10.1002/2017JB014006.
- (210) 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 and Planetary Science Letters*, 464, 142-154.
- (211) Liu, P.-P., F.-Z. Teng, M.-F. Zhou, H. Dick, S.-L. Chung (2017) Mg isotopic composition of oceanic mantle and Mg recycling. *Geochimica et Cosmochimica Acta*, 206, 151-165.
- (212) Brookfield, M.E., S.-L. Chung, J.G. Shellnutt (2017) Mid-Miocene (Post 12 Ma) displacement along the central Karakoram fault zone in the Nubra valley, Ladakh, India from spot LA-ICPMS U/Pb zircon ages of granites. *Journal of Geological Society of India*, 89, 231-239.
- (213) Quek, L.X., A.A. Ghani, S.-L. Chung, S. Li, Y.-M. Lai et al. (2017) Mafic microgranular enclaves in amphibole-bearing granites of the Bintang batholith, Main Range granite province: evidence for a meta-igneous basement in western Peninsular Malaysia. *Journal of Asian Earth Sciences*, 143, 11-29.
- (214) Kovach, V., K. Degtyarev, A. Tretyakov, A. Kotov, E. Tolmacheva, K.-L. Wang, S.-L. Chung, H.-Y. Lee, B.-m. Jahn (2017) Sources and provenance of the Neoproterozoic placer deposits of Northern Kazakhstan: Implication for continental growth of the western Central Asian Orogenic Belt. *Gondwana Research*, 47, 28-43.
- (215) Tang, G.-J., Q. Wang, D.A. Wyman, S.-L. Chung, Z. Zhao (2017) Genesis of pristine adakitic magmas by lower crustal melting: A perspective from amphibole composition. *Journal of Geophysical Research, Solid Earth*, 122, doi:10.1002/2016JB013678.
- (216) Li, S., S.-L. Chung, T. Wang, S.A. Wilde, M.-F. Chu, Q.-Q. Guo (2017) Tectonic significance and geodynamic processes of large-scale Early Cretaceous granitoid magmatic events in the southern Great Xing'an Range, North China. *Tectonics*, 36, 615-633, doi: 10.1002/2016TC004422.
- (217) Liu, P.-P., M.-F. Zhou, G. Zhao, S.-L. Chung, W.T. Chen, F. Wang (2017) Eocene granulite-facies metamorphism prior to deformation of the Mianhuadi mafic complex in the Ailao Shan-Red River shear zone, Yunnan Province, SW China. *J. Asian Earth Sci.*, 145, 626-640.
- (218) Lin, T.-H., S.-L. Chung, J.-T. Tang, Thura Oo (2017) The delimitation between the mature and juvenile crustal provinces in SE Asia: Insights from detrital zircon U-Pb and Hf isotopic data for the Salween drainage, Myanmar. *J. Asian Earth Sci.*, 145, 641-651.
- (219) Chiu, H.-Y., S.-L. Chung, M.H. Zarrinkoub, R. Melkonyan, K.-N. Pang, H.-Y. Lee, K.-L. Wang, S.S. Mohammadi, M.M. Khatib (2017) Zircon Hf isotopic constraints on the magmatic and tectonic evolution in Iran: Implications for crustal evolution in the Tethyan orogenic belt. *J. Asian Earth Sci.*, 145, 652-669.
- (220) Huang, C.-D., T.-Y. Lee, C.-H. Lo, S.-L. Chung et al. (2017) Structural inversion in the southern South China Sea continental margin and its tectonic implications. *Terr. Atm. Ocean Sci.*, 28, 891-922.
- (221) Shao, W.-Y., W.-S. Chen, H.-Y. Lee, S.-L. Chung (2018) Zircon U-Pb and Hf isotopic study of the East Taiwan Ophiolite. *Western Pacific Earth Sci.*, v.15-18, p.107-130. (in Chinese)



- (222) Lai, Y.-M., M.-F. Chu, W.-S. Chen, W.-Y. Shao, H.-Y. Lee, S.-L. Chung (2018) Zircon U-Pb and Hf isotopic constraints from the Coastal Range of Taiwan on the magmatic evolution in the northern Luzon arc. *TAO Sci.*, 29, 149-186. Doi: 10.3319/TAO.2017.08.29.01.
- (223) Rehman, H.U., K. Katajima, J.W. Valley, S.-L. Chung, H.-Y. Lee, H. Yamamoto, T. Khan (2018) Low- $\delta^{18}\text{O}$  mantle-derived magma in Panjal Traps overprinted by hydrothermal alteration and Himalayan UHP metamorphism: Revealed by SIMS zircon analysis. *Gondwana Research*, 56, 12-22.
- (224) Li, S., S.-L. Chung, T. Wang, S.A. Wilde, M.-F. Chu, C.-J. Pang, Q.-Q. Guo (2018) Water-fluxed crustal melting and petrogenesis of large-scale Early Cretaceous intracontinental granitoids in the southern Great Xing'an Range, North China. *Geol. Soc. Amer. Bull.*, 130, 580-597. doi.org/10.1130/B31771.1.
- (225) Chiu, Y.-P., M.-W. Yeh, K.-H. Wu, T.-Y. Lee, C.-H. Lo, S.-L. Chung, Y. Iizuka (2018) Transition from extrusion to flow tectonism around the eastern Himalayan syntaxis. *Geol. Soc. Amer. Bull.*, 130, 1675-1696. doi.org/10.1130/B31811.1.
- (226) Ertürk, M.A., M. Beyarslan, S.-L. Chung, T.-H. Lin (2018) Eocene magmatism (Maden Complex) in the SE Anatolian orogenic belt: Magma genesis and tectonic implications. *Geosci. Frontiers*, 9, 1829-1847.
- (227) Zhang, X.-R., S.-L. Chung, Y.-M. Lai, A.A. Ghani, S. Murtadha, H.-Y. Lee, C.-C. Hsu (2018) Detrital zircons dismember Sibumasu in East Gondwana. *J. Geophys. Res.: Solid Earth*, v.123, p.6098-6110. doi.org/10.1029/2018JB015780.
- (228) Liao, C.-P., B.-m. Jahn, I. Alexandrov, S.-L. Chung, P. Zhao, V. Ivin, T. Usuki (2018) Petrogenesis of mid-Eocene granites in South Sakhalin, Russian far east: Juvenile crustal growth and comparison with granitic magmatism in Hokkaido and Sikhote-Alin. *JAES*, 167, 103-129.
- (229) Zhai, Q.-G., J. Wang, P.-Y. Hu, H.-Y. Lee, Y. Tang, H.-T. Wang, S.-H. Tang, S.-L. Chung (2018) Late Paleozoic granitoids from central Qiangtang, northern Tibetan plateau: A record of Paleo-Tethys Ocean subduction. *J. Asian Earth Sci.*, 167, 139-151.
- (230) Rehman, H.U., T. Khan, M.Q. Jan, H.-Y. Lee, S.-L. Chung, M. Murata (2018) Timing and span of the continental crustal growth in SE Pakistan: Evidence from LA-ICPMS U-Pb zircon ages from granites of the Nagar Parkar igneous complex. *Gondwana Res.*, 61, 172-186.
- (231) Tapsoba, B., C.-H. Lo, U. Wenmenga, Y. Iizuka, S.-L. Chung, G. Shellnutt (2018) Chemical and Sr-Nd isotopic compositions and  $^{40}\text{Ar}/^{39}\text{Ar}$  ages of NW-trending dolerite dikes of Burkina Faso: Evidence for a Mesoproterozoic magmatism in the West African craton. *Geosci. Frontiers*, 9, 1957-1980.
- (232) Bikramaditya, R.K., A.K. Singh, S.-L. Chung, R. Sharma, H.-Y. Lee (2018) Zircon U-Pb and Lu-Hf isotopes of metagranites from Subansiri region in eastern Himalaya: Implications for the crustal evolution along the northern Indian passive margin in the early Paleozoic. In: Architecture and Evolution of the Himalaya-Karakoram-Tibet Orogen. *GS London Spec. Publ.*, 481, doi.org/10.1144/SP481.7.
- (233) 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.*, 483, doi.org/10.1144/SP483.14.
- (234) 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*, 176, 574-587.
- (235) 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*, 47, 573-576.
- (236) Ghalamghash, J., A.K. Schmitt, K. Shiaian, R. Jamal, S.-L. Chung (2019) Magma origins and geodynamic implications of the Makran-Chagai arc from geochronology and geochemistry of Bazman volcano, SE Iran. *Asian J. Earth Sciences*, 171, 289-304.
- (237) Tsai, C.-H., J.B.H. Shyu, S.-L. Chung, N.T. Ramos, H.-Y. Lee (2019) Detrital zircon record from major rivers of Luzon Island: Implications for Cenozoic continental growth in Southeast Asia. *J. Geol. Soc. London*, 176, 727-735.
- (238) Mateen, T., K. Okamoto, S.-L. Chung, K.-L. Wang, H.-Y. Lee, S. Abe, Y. Mita, H.U. Rehman, M., Terabayashi, H. Yamamoto (2019) LA-ICP-MS zircon U-Pb age and Hf isotopic data from the granitic rocks in the Iwakuni area, Southwest Japan: Re-evaluation of emplacement order and the source magma. *Geochemical Journal*, v.23, p.917-931, doi.org/10.1002/gj.3477.
- (239) Baharifar, A., D.L. Whitney, K.-N. Pang, S.-L. Chung, Y. Iizuka (2019) Petrology, geothermobarometry, and P-T path of spinel-bearing symplectite migmatites from the Simin area, Hamedan, Sanandaj-Sirjan Zone, Iran. *Turkish Journal of Earth Sciences*, v.28, p.275-298.
- (240) Rehman, H.U., Y. Iizuka, H.-Y. Lee, S.-L. Chung, Z. Duan, C.-J. Wei, T. Khan, T. Zafar, H. Yamamoto (2019) Zirconium in rutile thermometry of the Himalayan ultrahigh-pressure eclogites and their retrogressed counterparts, Kaghan Valley, Pakistan. *Lithos*, v.344-345, p.86-99.
- (241) 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.
- (242) Zhu, Z., Q.-G. Zhai, R. Hu, S.-L. Chung, Y. Tang, H. Wang, H. Wu, W. Wang, Z. Huang, H.-Y. Lee (2019) Closure of the Bangong-Nujiang Tethyan Ocean in Central Tibet: Results from the provenance of the Duoni Formation. *J. Sedimentary Res.*, v.89, p.1039-1054.

- (243) Li, S., S.-L. Chung, Z.-Q. Hou, D. Chew, T. Wang, B.-D. Wang, Y.-B. Wang (2019) Early Mesozoic magmatism within the Tibetan Plateau: Implications for the Paleo-Tethyan tectonic evolution and continental amalgamation. *Tectonics*, v.38, p.3505-3543, doi.org/10.1029/2019TC005546.
- (244) Rehman, H.U., T. Khan, H.-Y. Lee, S.-L. Chung, M. Murata, M. Jan (2019) Permian felsic magmatism in the Neoproterozoic Nagar Parkar igneous complex of the Malani igneous suite: Evidence from zircon U-Pb age. *Island Arc*, v.28, doi.org/10.1111/iar.12323.
- (245) Maulana, A., T. van Leeuwen, R. Takahashi, S.-L. Chung, K. Sanematsu, H. Li, U.R. Irfan (2019) Geochemistry and geochronology of UHMS mineralization in central-west Sulawesi, Indonesia: Constraints on its tectono-magmatic setting. *Ore Geology Reviews*, 114, doi.org/10.1016/j.oregeorev.2019.103134.
- (246) Bikramaditya, R.K., S.-L. Chung, A.K. Singh, H.-Y. Lee, T.-H. Lin, Y. Iizuka (2020) Age and isotope geochemistry of magmatic rocks of the Lohit plutonic complex, eastern Himalaya: Implications for the evolution of Transhimalayan arc magmatism. *J. Geol. Soc. London*, 177, 379-394.
- (247) Singh, A.K., S.-L. Chung, Bikramaditya, R.K., H.-Y. Lee, S. Kumar (2020) Zircon U-Pb geochronology, Hf isotopic compositions and Petrogenetic study of Abor volcanic rocks of Eastern Himalayan Syntaxis, Northeast India: implications for eruption during breakup of Eastern Gondwana. *Geological Journal*, v.55, p.1227-1244.
- (248) Okrostsvaridze, A., S.-L. Chung, Y.-C. Lin, I. Skhirtladze (2020) Geology and zircon U-Pb geochronology of the Mtkvari pyroclastic flow and evaluation of destructive processes affecting Vardzia rock-cut city, Georgia. *Quaternary International*, v.540, p.137-145, doi.org/10.1016/j.quaint.2019.03.026.
- (249) Tang, Y., Q.-G. Zhai, P.-Y. Hu, S.-L. Chung, X.-C. Xiao, H.-T. Wang, Z.-C. Zhu, W. Wang, H. Wu, H.-Y. Lee (2020) Southward subduction of the Bangong-Nujiang Tethys ocean: Insights from ca.161-129 Ma arc volcanic rocks in the north of Lhasa terrane. *International J. Earth Sci.*, v.109, p.631-647.
- (250) Tsai, C.-H., J.B.H. Shyu, S.-L. Chung, H.-Y. Lee (2020) Miocene sedimentary provenance and paleogeography of the Hengchun peninsula, southern Taiwan: Implications for tectonic development of the Taiwan orogen. *J. Asian Earth Sci.*, v.194, doi.org/10.1016/j.jseaes.2019.104032.
- (251) Azizi, H., F. Nouri, R. Stern, M. Azizi, F. Lucci, Y. Asahara, M.H. Zarrinkoub, S.-L. Chung (2020) New evidence for Jurassic continental rifting in the northern Sanandaj Sirjan zone, western Iran. *International Geol. Review*, v.62, p.1635-1657, doi.org/10.1080/00206814.2018.1535913.
- (252) Pang, K.-N., F.-Z. Teng, Y. Sun, S.-L. Chung, M.M. Zarrinkoub (2020) Balance between Mg isotopes in the mantle and continental crust: A hidden role of carbonates. *Geochimica et Cosmochimica Acta*, v.278, p.110-121, doi.org/10.1016/j.gca.2019.10.005.
- (253) Lin, Y.-C., S.-L. Chung, A.F. Bingöl, 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.
- (254) Tang, Y., Q.-G. Zhai, S.-L. Chung, P.-Y. Hu, K. Wang, X.-C. Xiao, B. Song, H.-T. Wang, H.-Y. Lee (2020) First MOR-type ophiolite from the Meso-Tethys suture zone in the north-central Tibetan plateau. *Geol. Soc. Amer. Bull.*, v.132, p.2202-2220, doi.org/10.1130/B35500.1.
- (255) Li, S., S.-L. Chung, Y.-M. Lai, A.A. Ghani, H.-Y. Lee, S. Muradtha (2020) Mesozoic juvenile crustal formation in the easternmost Tethys: Zircon Hf isotopic evidence from Sumatran granitoids, Indonesia. *Geology*, v.48, p.1002-1005, https://doi.org/10.1130/G47304.1.
- (256) Lo, Y.-C., C.-T. Chen, C.-H. Lo, S.-L. Chung (2020) Ages of ophiolitic rocks along plate suture in the Taiwan orogen: Fate of the South China Sea from subduction to collision. *TAO Sci.*, v.31, no.4, 383-402, doi:10.3319/TAO.2019.06.19.01.
- (257) Zhang, X.-R., C.-Y. Tien, S.-L. Chung, A. Maulana, M. Mawaleda, M.-F. Chu, H.-Y. Lee (2020) A Late Miocene magmatic flare-up in West Sulawesi triggered by Banda slab rollback. *Bull. Geol. Soc. Amer.*, v.132, p.2517-2528, doi.org/10.1130/B35534.1.
- (258) Lin, J.-W., C.-Y. Lee, C.-H. Chen, Y. Sano, H. Takahata, S.-L. Chung (2020) Exotic origin of Pingtan Island in the Pingtan-Dongshan Metamorphic Belt (SE China): Zircon U-Pb age and Hf isotope evidences. *Lithos*, v.374, doi.org/10.1016/j.lithos.2020.105701.
- (259) Lin, K.-Y., K.-L. Wang, S.-L. Chung, A.F. Bingöl, Y. Iizuka, H.-Y. Lee (2020) Tracking the magmatic response to subduction initiation in the forearc mantle wedge: Insights from peridotite geochemistry of the Guleman and Kızıldağ ophiolites, SE Turkey. *Lithos*, v.376, doi.org/10.1016/j.lithos.2020.105737.
- (260) Zhang, X.-R., S.-L. Chung, J.-T. Tang, A. Maulana, M. Mawaleda, Thura Oo, C.-Y. Tien, H.-Y. Lee (2021) Tracing Argoland in eastern Tethys and implications for India-Asia convergence. *Geol. Soc. Amer. Bull.*, v.133, p.1712-1722. doi.org/10.1130/B35772.1.
- (261) Wang, W., Q.-G. Zhai, P.-Y. Hu, S.-L. Chung, Y. Tang, H.-T. Wang, Z. Zhu, H. Wu, Z.-Q. Huang (2021) Simultaneous growth and reworking of the Lhasa basement: A case study of early Cretaceous magmatism in north-central Tibet. *Lithos*, v.380/381, doi.org/10.1016/j.lithos.2020.105863.
- (262) Rehman, H.U., T. Khan, H.-Y. Lee, S.-L. Chung, M.Q. Jan, T. Zafar, M. Murata (2021) Petrogenetic source and tectonic evolution of the Proterozoic Nagar Parkar Igneous Complex granitoids: Evidence from Hf isotope and trace element geochemistry of zircons. *Precambrian Research*, v.354, doi.org/10.1016/j.precamres.2020.106047.
- (263) Wu, Z., L. Chen, M. Talebian, X. Wang, M. Jiang, Y. Ai, H. Lan, Y. Gao, M. Khatib, G. Hou, S.-L. Chung, X. Liang, L. Zhao, N. Naimi-Ghassabian, W. Xiao, R. Zhu (2021) Lateral structural variation of the

- lithosphere-asthenosphere system in the northeastern to eastern Iranian plateau and its tectonic implications. *J. Geophys. Res.*, Solid Earth, v.126, doi.org/10.1029/2020JB020256.
- (264) Huang, Y.-S., Q. Li, Y. Liu, P.-P. Liu, S.-L. Chung, X.-H. Li (2021)  $^{238}\text{U}$ - $^{206}\text{Pb}$  dating of U-series disequilibrium zircons by secondary ion mass spectrometry. *J. Analytical Atom. Spectrometry*, v.36, p.999-1006. DOI: 10.1039/D0JA00510J.
- (265) Majidi, S., J. Omrani, V.R. Troll, F.A. Weis, A. Houshmandzadeh, E. Ashouri, N. Nezafati, S.-L. Chung (2021) Employing geochemistry and geochronology to unravel genesis and tectonic setting of iron oxide-apatite deposits of the Bafq-Saghand metallogenic belt, Central Iran. *Internat'l J. Earth Sci.*, v.110, p.127-164. doi.org/10.1007/s00531-020-01942-5.
- (266) Lai, Y.-M., S.-L. Chung, A.A. Ghani, S. Murtadha, H.-Y. Lee, M.-F. Chu (2021) Mid-Miocene volcanic migration in the westernmost Sunda arc induced by India-Eurasia collision. *Geology*, v.49, p.713-717. doi.org/10.1130/G48568.1.
- (267) Wang, Q., D.-C. Zhu, P.A. Cawood, S.-L. Chung, Z. Zhao (2021) Resolving the paleogeographic puzzle of the Lhasa Terrane in southern Tibet. *Geophys. Res. Lett.*, v.48, e2021GL0942, doi.org/10.1029/2021GL094236.
- (268) Okrostsvaridze, A., Y.H. Chang, S.-L. Chung, F. Rabarol, G. Boichenko, S. Gogolanze (2021) Paleozoic xenoliths in Eocene plutons: Evidence for the destruction of Pre-Jurassic crystalline basement beneath the Adjara-Trialeti belt, Lesser Caucasus. *Geologica Carpathica*, v.72(4), p.299-314.
- (269) Wang, W., Q.-G. Zhai, P.-Y. Hu, S.-L. Chung, Y. Tang, H.-T. Wang, Z. Zhu, H. Wu, Z.-Q. Huang (2021) Late Cretaceous adakitic rocks from the western Tibetan Plateau: Implications for the subduction of the Neo-Tethys Ocean. *Internat'l Geol. Review*, v.63, 1884-1899, doi.org/10.1080/00206814.2020.1805803.
- (270) Liu, P.-P., L. Caricchi, S.-L. Chung, X.-H. Li, Q.-L. Li, M.-F. Zhou, Y.-M. Lai, A. Ghani, T. Shihotang, T.E. Sheldrake, G. Simpson (2021) Growth and thermal maturation of the Toba magma reservoir. *Proc. Nat'l Acad. Sci.*, v.118 (45) e2101695118; https://doi.org/10.1073/pnas.2101695118.
- (271) Yamamoto, H., K. Okamoto, S.-L. Chung, H.-Y. Lee, Y. Mita, S. Ueda, M. Terabayashi (2022) Paleoproterozoic to Cenozoic zircon U-Pb ages with Hf signatures from metamorphic rocks and granodiorite of Tokunoshima: Constraints on geotectonic subdivision of the Ryukyu island arc, SW Japan. *Internat'l Geol. Review*, v.64, p.425-440, doi.org/10.1080/00206814.2020.1858356.
- (272) Singh, A.K., G. Oinam, S.-L. Chung, R.K. Bikramaditya, H.-Y. Lee, M. Joshi (2022) Magmatism in the Siang Window of Eastern Himalayan Syntaxis, Northeast India: Vestige of the Kerguelen mantle plume activity. *GS London Spec. Publ.*, 518, p.301-323, doi.org/10.1144/SP518-2021-13.
- (273) Wei, W., C.-Z. Liu, Y.-F. Hou, C. Deng, W. Yan, X.-H. Li, S.-L. Chung, R. Mitchell (2022) Discovery of a hidden Triassic arc in the southern South China Sea: Evidence for the breakaway of a ribbon continent with implications for the evolution of the western Pacific margin. *Terra Nova*, v.34(1), p.12-19, doi.org/10.1111/ter.12556.
- (274) Bikramaditya, R.K.; S.-L. Chung; A.K. Singh; H.-Y. Lee, L. Lemba (2022) New zircon U-Pb age and Hf isotope data of I-type granite from Lesser Himalaya, western Arunachal Himalaya, NE India: Implications for the continental arc magmatism in the Paleoproterozoic supercontinent Columbia. *Geol. Jour.*, v.57, p.5000-5018, doi.org/10.1002/gj.4342.
- (275) Mokhtari M.A.A., H. Kouhestani, K.-N. Pang, S.-C. Hsu, S.-L. Chung, H.-Y. Lee (2022) Early Eocene high-Sr/Y magmas from the Urumieh-Dokhtar paleo-arc, Iran: Implications for the origin of high-flux events in magmatic arcs. *Lithos*, v.416-417, doi.org/10.1016/j.lithos.2022.106656.
- (276) Zhang, X.-R., T.-N. Huang, S.-L. Chung, A. Maulana, M. Mawaleda, C.-Y. Tien, H.-Y. Lee, P.-P. Liu (2022) Late Eocene subduction initiation of the Indian Ocean in the North Sulawesi Arc, Indonesia, induced by abrupt Australian plate acceleration. *Lithos*, v.422-423, doi.org/10.1016/j.lithos.2022.106742.
- (277) Yu, Y., X.-L. Huang, S.-L. Chung, J. Li, Y.-M. Lai, I. Setiawan, M. Sun (2022) Molybdenum isotopic constraint from Java on slab inputs to subduction zone magmatism. *Geochim. Cosmochim. Acta*, v.332, p.1-18, doi.org/10.1016/j.gca.2022.06.009.
- (278) 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.
- (279) Gao, M.-H., P.-P. Liu, S.-L. Chung, Q. Li, B. Wang, W. Tien, X.-H. Li, H.-Y. Lee (2022) Himalayan zircons resurface in Sumatran arc volcanoes through sediment recycling. *Comm. Earth & Environment*, 3, 283, doi.org/10.1038/s43247-022-00611-6.
- (280) Liu, P.-P., S.-L. Chung, B. Ma, X.-H. Li, Q.-L. Li, H.-Y. Lee, X.-R. Zhang (2022) Zircon Hf-O isotopic constraints on the origin and temporal evolution of the Toba volcanic system, Indonesia. *Lithos*, v.434-435, doi.org/10.1016/j.lithos.2022.106925.
- (281) Liu, P.-P., S.-L. Chung, C.A. Chesner, Y.-M. Lai, H.-Y. Lee, Y.-H. Yang, M.-H. Gao (2022) New insights into the petrogenesis of voluminous crustal-signature silicic volcanic rocks of the Toba eruptions (Indonesia). *J. Geophys. Res.*, Solid Earth, v.127, e2022JB024559, doi.org/10.1029/2022JB024559.
- (282) 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, p.4886-4919, doi.org/10.1002/gj.4629.

- (283) 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.
- (284) Jayananda, M., M. Guitreau, K.R. Aadhiseshan, T. Miyazaki, S.-L. Chung (2023) Origin of the oldest (3600-3200 Ma) cratonal core in the Western Dharwar Craton, Southern India: Implications for evolving tectonics of the Archean Earth. *Earth-Sci. Reviews*, v.236, doi.org/10.1016/j.earscirev.2022.104278.
- (285) Singh, A.K. N. Kumar, S.-L. Chung, H.-Y. Lee, M. Santosh, R. Sharma, N. Kumar, R.K. Bikramaditya, G. Oiman, N. Lakhan (2023) Tectonic evolution of the Neoproterozoic Tusham ring complex, NW India: Constraints from geochemistry and zircon U-Pb geochronology and implication for Rodinia supercontinent history. *Lithos*, v.440-441, doi.org/10.1016/j.lithos.2023.107022.
- (286) Zhang, X.-R., S.-L. Chung, A.A. Ghani, R. Rahmat, Y.-J. Hsin, H.-Y. Lee, P.-P. Liu, Y. Xi (2023) Time to reconsider the enigmatic tail of eastern Paleo-Tethys: New insights from Borneo. *Lithos*, v.442-443, doi.org/10.1016/j.lithos.2023.107089.
- (287) Chen, T.-W., M.-F. Chu, W.-S. Chen, S.-L. Chung, H.-Y. Lee, Y. Iizuka (2023) Retro-foredeep basin evolution in Taiwan: Zircon U-Pb and Hf isotopic constraints from the Coastal Range. *G<sup>3</sup> (Geochemistry, Geophysics, Geosystems)*, v.24, doi.org/10.1029/2022GC010787.
- (288) Lo, Y.-C., C.-T. Chen, C.-H. Lo, S.-L. Chung, M. Yeh (2023) Record of short-lived orogen in Eurasian continental margin by South China Sea obduction in the Taiwan collision. *Front. Earth Sci.*, v.11, doi.org/10.3389/feart.2023.1118520.
- (289) Yu, Y, X.L. Huang, Y.-M. Lai, J. Li, Y.-G. Xu, S.-L. Chung, I. Setiawan, F. Yang (2023) Different B-Mo isotopic fractionation processes controlled by redox conditions in the subduction zone. *Chem. Geol.*, v.636, doi.org/10.1016/j.chemgeo.2023.121646.
- (290) Lin, Y.-C., S.-L. Chung, S. Maruyama, A. Kadarusman, H.-Y. Lee (2023) The ephemeral history of Earth's youngest supra-subduction zone type ophiolite from Timor. *Comm. Earth & Environment*, 4, 308, doi.org/10.1038/s43247-023-00973-5.
- (291) Zhang, X.-R., S.-L. Chung, C.-Y. Tien, A. Maulana, M. Mawaleda, H.-Y. Lee, P.-P. Liu, J. Xi (2023) Mid-Cretaceous to early Eocene Neo-Tethyan subduction records in West Sulawesi, Indonesia. *Geol. Soc. Amer. Bull.*, v.135, doi.org/10.1130/B37038.1.
- (292) Lai, Y.-M., P.-P. Liu, S.-L. Chung, A.A. Ghani, H.-Y. Lee, L.X. Quek, S. Li, M.H. Roselee, S. Murtadha, L. Lintjewas, Y. Iizuka (2023) Zircon U-Pb geochronology and Hf isotopic compositions of igneous rocks from Sumatra: Implications for the Cenozoic magmatic evolution of the western Sunda Arc. *GS London Spec. Publ.*, 537, doi.org/10.1144/SP537-2022-199.

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