

Kuo-Lung Wang

[Current position]

Associate research fellow/Professor
Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan

Joint appointment Associate Professor
Department of Geosciences, National Taiwan University

[Education qualifications]

1988-1992: Undergraduate studies at Department of Geology, National Taiwan University,
Taiwan: Bachelor of Science honors

(1992-1994: Compulsory military service)

1994-1995: Graduate studies for master degree at Department of Geology, National Taiwan
University, Taiwan

1995-2000: Doctoral studies at Department of Geosciences, National Taiwan University,
Taiwan: Doctor of Philosophy; Title of Thesis: Geochemistry and Petrogenesis
of Late Pliocene-Quaternary Volcanic Rocks from the Northern Taiwan Volcanic
Zone; Advisor: Prof. Sun-Lin Chung.

[Career history]

Since Feb. 2017: Joint appointment Associate Professor, Department of Geosciences, National
Taiwan University, Taipei, Taiwan.

Since Aug. 2014: Adjunct associate professor, Department of Earth Sciences, National Central
University, Taoyuan City, Taiwan.

Since Jan. 2013: Associate research fellow, Institute of Earth Sciences, Academia Sinica,
Taipei, Taiwan

Since Jan. 2006: Honorary Research Fellow at CCFS/GEMOC National Key Centre,
Department of Earth and Planetary Sciences, Macquarie University,
Sydney, Australia

Mar. 2017-Feb. 2020: Council member of Chinese Geoscience Union

Jun. 2017-May 2019: Council member of Geological Society of Taiwan (Located in Taipei)

Jun. 2015-May 2017: Secretary General, Geological Society of Taiwan (Located in Taipei)

Aug. 2005-Dec. 2012: Assistant research fellow, Institute of Earth Sciences, Academia Sinica,
Taipei, Taiwan

Aug. 2004-Jul. 2005: Postdoctoral research scholar at Department of Geosciences, National
Taiwan University, Taiwan

Jun. 2004-Oct. 2005: Research fellow at GEMOC National Key Centre, Department of Earth
and Planetary Sciences, Macquarie University, Sydney, Australia.

Jun. 2001-May. 2004: Macquarie University Research Fellow (MURF) at GEMOC National
Key Centre, Department of Earth and Planetary Sciences, Macquarie
University, Sydney, Australia.

Jan. 2000-Jun. 2001: Postdoctoral research fellow, Department of Geosciences, National
Taiwan University, Taiwan

[Honors and awards]

Jan. 2018: Honorary Research Fellow in the ARC Centre of Excellence for Core to Crust Fluid
System (CCFS) in Department of Earth and Planetary Sciences, Macquarie
University, Sydney, Australia.

Jan. 2018: Academia Sinica Career Development Award (2018-2022).

Aug. 2013: MOST Project for Excellent Junior Research Investigators (2013-2017) awarded.

- Jan. 2006-Dec. 2017: Honorary Associate at CCFS/GEMOC National Key Centre, Department of Earth and Planetary Sciences, Macquarie University, Sydney, Australia
- Aug. 2004: 3-year postdoctoral research scholarship awarded by the National Science Council, Taiwan
- Oct. 2003: Invited talk as young outstanding scientist in "Investing in the future: the search for talent" held at Institute of Earth Sciences, Academia Sinica, Taiwan.
- Jun. 2001: 3-year Macquarie University Research Fellow (MURF) awarded by Macquarie University, Australia.
- Jul. 2001-Jun. 2003 2-year Overseas Postdoctoral Research Fund awarded by Ministry of Educational Affairs, Taiwan
- Jun. 2000: "Outstanding Ph. D. thesis" awarded by Dean of College of Science, National Taiwan University, Taiwan
- Jun. 1992: Undergraduate President's Award, National Taiwan University, Taiwan

[Editorial service]

Since Jan. 2020: Associate Editor, *Geochemical Journal*.

Since Jan. 2020: Associate Editor, *Journal of Island Arc*.

Aug. 2015-Jul. 2020: Associate Editor, *Journal of Terrestrial, Atmospheric and Oceanic Sciences (TAO)*.

Guest Editor, Special issue to honor Bor-Ming Jahn, *American Journal of Sciences*, 314 (1, 2), 2014.

Reviewed more than 80 manuscripts from international high-profile journals including *JGR-Solid Earth*, *Contribution to Mineralogy and Petrology*, *Journal of Petrology*, *Geochimica et Cosmochimica Acta*, *Scientific Report*, *Chemical Geology*, *Gondwana Research*, *Geochemistry Geophysics Geosystems*, *Island Arc*, *Journal of Geology*, *Journal of Asian Earth Sciences*, *Journal of Volcanology and Geothermal Research*, *Lithos*, *Physics of the Earth and Planetary Interiors*, *Precambrian Research*, *Quaternary International*, *TAO*, *Advances in Geosciences*, *American Journal of Sciences*, *Gondwana Research*, *Collection and Research* (domestic; National Museum of Natural Science, Taichung) since 2004.

Reviewed more than 100 MOST (previous NSC) proposals since 2010.

[Field(s) of specialization]

Geochemistry, isotope geochemistry, igneous petrogenesis, petrology and mantle dynamics.

[Expertise]

Clean lab separation and TIMS analytical techniques for Sr, Nd, and double-spike Pb isotope measurements.

Operations on thermal ionization mass spectrometry (TIMS): Finnigan MAT-262, X-ray fluorescence analysis (XRF), inductively coupled plasma analysis (ICP) and atomic absorption analysis (AA), ICP-mass spectrometer (MS), laser-ablation microprobe (LAM)-multiple collector (MC)-ICPMS.

[Professional affiliation]

Geological Society of Taiwan (Located in Taipei): since 2000 to present

American Geophysical Union: since 08/1997 to present

Geochemical Society: since 2003 to present

International Association of Geoanalysts: since 2018 to present

[Publication]

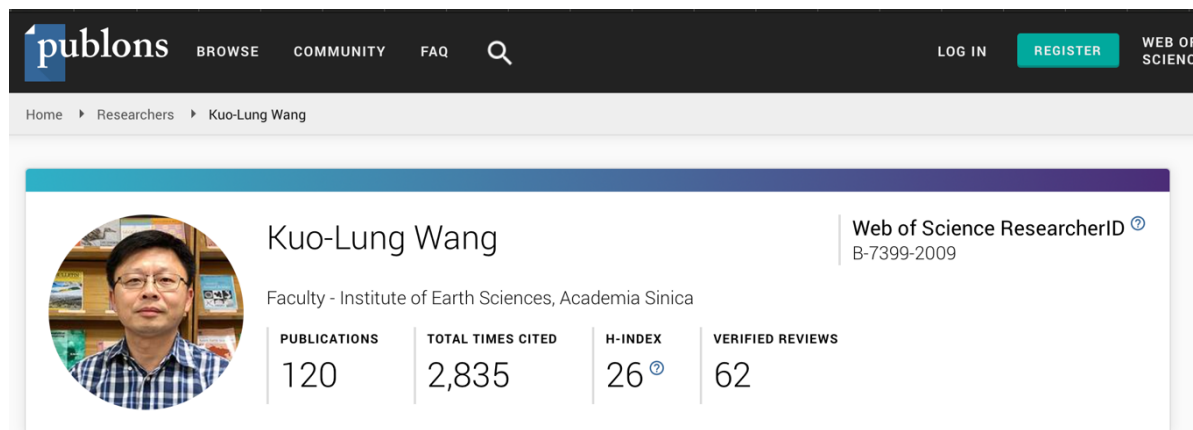
Listed peer-reviewed publications below:

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[h-index = 26 and total citations = 2835 times; Publons (Web of Science); 23 Sep 2021]



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 Kuo-Lung Wang

Web of Science ResearcherID[®]
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Faculty - Institute of Earth Sciences, Academia Sinica

PUBLICATIONS	TOTAL TIMES CITED	H-INDEX	VERIFIED REVIEWS
120	2,835	26 [®]	62

Peer-reviewed papers:

Since 2021:

108. Kourim, F., Wang, K.-L.* , Beinlich, A., Chieh, C.-J., Dygert, N., Lafay, R., Kovach, V., Michibayashi, K., Yarmolyuk, V., Iizuka, Y., 2021. Metasomatism of the off-cratonic lithospheric mantle beneath Hangay Dome, Mongolia: Constraints from trace-element modelling of lherzolite xenoliths. *Lithos* 400–401, 106407.
107. Skuzovatov, S. Yu*, Wang, K.-L.* , Smelov, A. P., 2021. Tracing the origin of zircon megacrysts in Triassic sediments of northeastern Siberian craton with implications to diamond paucity of craton-edge subcontinental lithospheric mantle. *Lithos* 400–401, 106376.
106. Cisneros de León¹, A., Schmitt¹, A. K., Kutterolf, S., Schindlbeck-Belo, J. C., Hernández, W., Sims, K. W. W., Garrison, J., Kant, L. B., Weber, B., **Wang, K.-L.**, Lee, H.-Y. and Trumbull, R. B. Zircon evidence for melt extraction from a vertically extensive magma system in the Tierra Blanca Eruptive Suite, Ilopango Caldera (El Salvador). *Geochemistry, Geophysics, Geosystems*, 22, e2020GC009507. <https://doi.org/10.1029/2020GC009507>.
105. Kovach, V. P., Kozakov, I., Kröner, A., Salnikova, E., **Wang, K.-L.**, Lee, H.-Y., Plotkina, J., Gorokhovskiy, B., Adamskaya, E., Tolmacheva, Shpakovich, L., E., 2021. Early Neoproterozoic crustal growth and microcontinent formation of the north-central Central Asian Orogenic Belt: New geological, geochronological, and Nd–Hf isotopic data on the Mélange Zone within the Zavkhan terrane, western Mongolia. *Gondwana Research* 91, 254-276.
104. Kanygina, N. A., Tretyakov, A. A., Degtyarev, K. E., Kovach, V. P., Plotkina, J. V., Pang, K.-N., **Wang, K.-L.** and Lee, H.-Y., 2021. Late Mesoproterozoic–Early Neoproterozoic quartzite–schist sequences of the Aktau–Mointy terrane (Central Kazakhstan): provenance, crustal evolution, and implications for paleotectonic

103. Skuzovatov, S., Shatsky, V., Ragozin, Al., **Wang, K.-L.**, 2021. Ubiquitous post-peak zircon in an eclogite from the Kumdy-Kol, Kokchetav UHP-HP massif (Kazakhstan): significance of exhumation-related zircon growth and modification in continental-subduction settings. *Island Arc* 30, e12385. <https://doi.org/10.1111/iar.12385>
102. Cisneros de León, A. Schindlbeck-Belo, J., Kutterolf, S., Danišik, M., Schmitt, A., Freund, A. Pérez, W., Harvey, J., **Wang, K.-L.**, Lee, H.-Y. A history of violence: magma incubation, timing, and tephra distribution of the Los Chocoyos super-eruption (Atitlán Caldera, Guatemala). *Journal of Quaternary Science*. 36, 169-179. <https://doi.org/10.1002/jqs.3265>

2016-2020:

101. Friedrichs, B., Schindlbeck-Belo, J. C., Danišik, M., Jenkins, S. F., Yurteri, E., Çobankaya, M., Frische, M., **Wang, K.-L.**, Lee, H.-Y., Atıcı, G., Schmitt, A. K., Sparks, R. S. J., 2020. New insights into source and dispersal of Mediterranean S1 tephra, an early Holocene marker horizon erupted at Mt. Erciyes (Turkey). *Quaternary Science Reviews* 249, 106606. <https://doi.org/10.1016/j.quascirev.2020.106606>.
100. Brlek, M., Kutterolf, S., Gaynor, S., Kuiper, K., Belak, M., Brčić, V., Holcova, K., **Wang, K.-L.**, Bakrač, K., Hajek-Tadesse, V., Mišur, I., Horvat, M., Šuica, S., Schaltegger, U., 2020. Miocene syn-rift evolution of the North Croatian Basin (Carpathian-Pannonian Region): new constraints from Mts. Kalnik and Požeška gora volcanoclastic record with regional implications. *International Journal of Earth Sciences* 109, 2775-2880. doi.org/10.1007/s00531-020-01927-4
99. Lin, K.-Y. **Wang, K.-L.***, Chung, S.L., Iizuka, Y., Bingöl, A.F., Lee, H.-Y., 2020. Tracking magmatic response to subduction initiation in the forearc mantle wedge: Insights from peridotite geochemistry of the Guleman and Kızıldağ ophiolites, Southeastern Turkey. *Lithos* 376-377, 105737. <https://doi.org/10.1016/j.lithos.2020.105737>
98. Kovach, V. P., Kotov, A. B., Salnikova, E. B., Popov, N., V, Velikoslavinsky, S. D., Plotkina, J., V, **Wang, K.-L.**, Fedoseenko, A. M., 2020. The Upper Age Boundary of the Formation of the Olondo Fragment of the Tokko-Khani Greenstone Belt, Aldan Shield: U-Pb (ID-TIMS) Geochronological Data. *Doklady Earth Sciences* 494, 767–772.
97. Kovach, V. P., Rytsk, E. Yu., Velikoslavinsky, S. D., Kuznetsov, A. B., **Wang, K.-L.** and Chung, S-L, 2020. Age of Detrital Zircons and Sources of Terrigenous Deposits of the Olokit Zone (Northern Baikal Region). *Doklady Earth Sciences* 493, 600–603.
96. Kanygina, N. A., Tretyakov, A. A., Degtyarev, K. E., Kovach, V. P., Plotkina, J. V., Pang, K.-N., **Wang, K.-L.** and Lee, H.-Y., 2020. Quartzite–Schist Sequences of the Aktau–Mointy Massif (Central Kazakhstan): Structural Position, Provenance, and Formation Stages of the Earth Crust in the Precambrian. *Geotectonics* 54, 212–228.
95. Kutterolf, S., Schindlbeck, J.C., Rohr, I., Rademacher, M., Cisneros de León, A., Eisele, S., Freundt, A., Hernandez, W., **Wang, K.-L.** The Arce Tephra: two subsequent paroxysmal Plinian eruptions from Coatepeque Caldera (El Salvador). *J. Vol. Geotherm Res.*, *in press*.
94. Kovach, V.P., Kozakov, I.K., **Wang, K.-L.**, Plotkina, Yu. V., Lee, H.-Y., Chung, S.-L., 2019. Age and sources of terrigenous rocks of basal formation of the Tsagaan-Olom Group of the Dzabkhan Terrane: results of U–Th–Pb geochronological, Lu–Hf and Sm–Nd isotopic studies. *Stratigraphy and Geological Correlation* 27, 555–572.
93. Tretyakov, A.A., Pilitsyna, A.V., Degtyarev, K.E., Salnikova, E.B., Kovach, E.B., Lee, H.-Y., Batanova, V.G., **Wang, K.-L.**, Kanygina, N.A., Kovalchuk, E.V.

- Neoproterozoic granitoid magmatism and granulite metamorphism in the Chu-Kendykta terrane (Southern Kazakhstan, Central Asian Orogenic Belt): Zircon dating, Nd isotope and tectono-magmatic evolution. *Precambrian Research* 332, 105397.
92. Zhai, Q.G., Chung, S.-L., Tang, Y., Hu, P.Y., Jin, X.C., Wang, J., Wang, H.T., **Wang, K.L.**, Lee, H.-Y., 2019. Late Carboniferous ophiolites from the southern Lancangjiang belt, SW China: Implication for the arc-back-arc system in the eastern Paleo-Tethys. *Lithos* 344–345, 134-146.
 91. Skuzovatov, S., Shatsky, V., **Wang, K.-L.** Continental subduction during arc-microcontinent collision in the southern Siberia: Constraints on protoliths and metamorphic evolution of the North Muya complex eclogites (Eastern Siberia). *Lithos*, 342–343, 76-96.
 90. Mateen, T., Okamoto, K., Chung, S.-L., **Wang, K.-L.**, Lee, H.-Y., Abe, S., Mita, Y., Rehman, H.U. Terabayashi, M. and Yamamoto, H., 2019. LA-ICP-MS zircon U-Pb age and Hf isotope data from the granitic rocks in the Iwakuni area, Southwest Japan: reevaluation of emplacement order and the source magma. *Geosciences Journal*, in press.
 89. Budyak, A.E., Skuzovatov, S.Yu., Tarasova, I., **Wang, K.-L.**, and Goryachev, N. A., 2019. Common Neoproterozoic–Early Paleozoic Evolution of Ore-Bearing Sedimentary Complexes in the Southern Siberian Craton. *Doklady Earth Sciences* 484, 92–96.
 88. Kourim, F., Beinlich, A., **Wang, K.-L.**, Michibayashi, K., O'Reilly, S.Y., Pearson, N.J., 2019. Feedback of mantle metasomatism on olivine micro-fabric and seismic properties of the deep lithosphere. *Lithos* 328–329, 43-57.
 87. Skuzovatov, S.Yu., **Wang, K.-L.**, Dril, S.I., Iizuka, Y., Lee, H.-Y., 2019. Geochemistry, zircon U-Pb and Lu-Hf systematics of high-grade metasedimentary sequences from the South Muya block (northeastern Central Asian Orogenic Belt): reconnaissance of polymetamorphism and accretion of Neoproterozoic exotic blocks in southern Siberia. *Precambrian Research* 321, 34-53.
 86. Pilitsyna, A.V., Tretyakov, A.A., Degtyarev, K.E., Salnikov, E.B., Kotov, A.B., Kovach, V.P., **Wang, K.-L.**, Batanova, V.G., Plotkina, Yu.V., Tolmacheva, E.V., B.V.Ermolaev, Lee, H.-Y., 2019. Early Palaeozoic metamorphism of Precambrian crust in the Zheltau terrane (Southern Kazakhstan; Central Asian Orogenic belt): P-T paths, protoliths, zircon dating and tectonic implications. *Lithos* 324–325, 115-140.
 85. Schindlbeck, J.C., Kutterolf, S., Freundt, A., Eisele, S., **Wang, K.-L.**, Frische, M., 2018. Miocene to Holocene marine tephrostratigraphy offshore northern Central America and southern Mexico: Pulsed activity of known volcanic complexes. *Geochemistry, Geophysics, Geosystems*. 19, 4143-4173.
 84. Larin, A.M., Kotov, A.B., Sal'nikova, E.B., Kovach, V.P., Ovchinnikova, G.V., Savatenkov, V.M., Velikoslavinskii, S.D., Sorokin, A. A., Vasil'eva, I. M., Sergeeva, N. A., Mel'nikov, N. N., **Wang, K.-L.**, 2018. Granitoids of the Pozdnestanovoy Complex of the Dzhugdzhur-Stanovoy Superterrane, Central Asia Fold Belt: Age, Tectonic Setting, and Sources, *Petrology*, 26, 447-468, doi: 10.1134/S0869591118050041
 83. Scudder, R.P., Murray, R.W., Kutterolf, S., Schindlbeck, J., Underwood, M.B., **Wang, K.-L.** Sedimentary Inputs to the Nankai Subduction Zone: The Importance of Dispersed Ash. *Geosphere* 14, 1451-1467.
 82. Stoppa, L., Kutterolf, S., Rausch, J., Grobety, B., Pettke, T., **Wang, K.-L.**, Hemming, S., 2018. The Malpaisillo Formation: An explosive eruptive episode in the mid to late Pleistocene (Nicaragua, Central America). *J. Vol. Geotherm Res.* 359, 47-67.

81. Deevsalar, R., Shinjo, R., **Wang, K.-L.**, Yeganehfar, H. and Neill, I., 2018. Gabbroic-dioritic dykes from the Sanadaj-Sirjan Zone: windows on Jurassic and Eocene geodynamic processes in western Iran. *Journal of the Geological Society* 175, 915-933. <https://doi.org/10.1144/jgs2017-156>
80. Kanygina N. A., Tretyakov A. A., Kovach V. P., Degtyarev K. E., **Wang, K.-L.**, Kotov A. B., 2018. First Results of Study of Detrital Zircons from Late Precambrian Quartzite–Schist Sequences of the Aktau–Mointy Block, Central Kazakhstan. *Doklady Earth Sciences* 479, 320–323.
79. Degtyarev K. E., Tretyakov A. A., Kotov A. B., Salnikova E. B., Luchitskaya M. V., Kovach V. P., **Wang K.-L.**, 2018. The Late Silurian Age of the Reference Aralaul Granosyenites–Granite Massif (Northern Kazakhstan). *Doklady Earth Sciences* 479, 275–278.
78. Reznitskiia, L. Z., Kovach V. P., Barash I. G., Plotkina Yu. V., **Wang K.-L.**, Chiu H.-Y., 2018. Age and Provenance Areas of Terrigenous Rocks of the Dzhida Terrane: Results of U–Th–Pb (LA-ICP-MS) Geochronological Study of Detrital Zircons. *Stratigraphy and Geological Correlation* 26, 489–513.
77. Kutterolf, S., Schindlbeck, J.C., Robertson, A.H.F., Avery, A., Baxter, A.T., Petronotis, K., **Wang, K.-L.**, 2018. Tephrostratigraphy and provenance from IODP Expedition 352, Izu-Bonin arc: tracing tephra sources and volumes from the Oligocene to the Recent. *Geochemistry, Geophysics, Geosystems* 19, 150-174.
76. Schindlbeck, J.C., Kutterolf, S., Straub, S.M., Andrews, G.D.M., **Wang, K.-L.**, Mleneck-Vautravers, M.J., 2018. The 1 Ma-Recent Tephra Record at IODP Sites U1436 and U1437: Insights into explosive volcanism from the Japan and Izu arcs. *Island Arc* 27, e12244.
75. Degtyarev, K. E., Tolmacheva, T.Y., Tretyakov, A.A., Kotov, A.B., Yakubchuk, A.S. Salnikova, E.B. **Wang, K.L.**, 2017. Polychronous Formation of the Ophiolite Association in the Tekturmas Zone of Central Kazakhstan Inferred from Geochronological and Biostratigraphic Data, *Doklady Earth Sciences*, 472, 26-30, doi: 10.1134/S1028334X17010214
74. **Wang K.-L.**, Chu Z., Gornova M.A., Dril S., Belyaev V.A., Lin K.-Y., O'Reilly S.Y., 2017. Depleted SSZ type mantle peridotites in Proterozoic Eastern Sayan ophiolites in Siberia. *Geodynamics & Tectonophysics* 8(3), 583-587.
73. Skuzovatov, S.Yu., Noskova, Yu.V., Dril, S.I., **Wang, K.-L.**, Iizuka, Y., 2017. Geochemistry, zircon U-Pb geochronology, Nd-Hf isotopic characteristics and tectonic implications of the South Muya block metasediments (northeastern Central Asian Orogenic Belt). *Geodynamics & Tectonophysics* 8(3), 565-568.
72. Kröner A., Kovach V., Alexeiev D., **Wang K.-L.**, Wong J., Degtyarev K., Kozakov I. No excessive crustal growth in the Central Asian Orogenic Belt: further evidence from field relationships and isotopic data. *Geodynamics & Tectonophysics* 8(3), 503-504.
71. Kovach V.P., Kozakov I.K., Kröner A., Salnikova E.B., Wang K.-L., Lee H.-Y., Chung S.-L. Early Neoproterozoic crust formaton in the Dzabkhan microcontinent, Central Asian Orogenic Belt. *Geodynamics & Tectonophysics* 8(3), 499-501.
70. Dril, S.I., Noskova Yu.V., **Wang K.-L.**, Belyaev, V., Skuzovatov, S.Yu., Grigoriev D.A., Belkov D.A., 2017. Geochronology and Sr-Nd isotope geochemistry of Late Paleozoic collisional granitoids of Undinsky complex (Eastern Transbaikal region). *Geodynamics & Tectonophysics* 8(3), 455-459.
69. Belyaev V.A., **Wang K.-L.**, Gornova M.A., Dril' S.I., Karimov A.A., Medvedev A.Ya., Noskova, Yu.V. Geochemistry and origin of the Eastern Sayan ophiolites, Tuva-Mongolian microcontinent (Southern Siberia). *Geodynamics & Tectonophysics* 8(3), 411-415.

68. Chiu, H.-Y., Chung, S.-L., Zarrinkoub, M.H., Melkonyan, R., Pang, K.-N., Lee, H.-Y., **Wang, K.-L.**, Mohammadi, S.S., Khatib, M.M., 2017. Zircon Hf isotopic constraints on magmatic and tectonic evolution in Iran: Implications for crustal growth in the Tethyan orogenic belt. *Journal of Asian Earth Sciences* 145, 652-669.
67. Kröner, A., Kovach, V., Kozakov, I., Aranovich, L., Xie, H., Kirnozova, T., Fuzgan, M., Serebryakov, N., **Wang, K.-L.**, Lee, H.-Y., 2017. Granulites and Palaeoproterozoic lower crust of the Baidarik Block, Central Asian Orogenic Belt of NW Mongolia. *Journal of Asian Earth Sciences* 145, 393-407.
66. Xiao, Y., Niu, Y., **Wang, K.-L.**, Iizuka, Y., Lin, J., Wang, D., Tan, Y., Wang, G. 2017. Different stages of chemical alteration on metabasaltic rocks in the subduction channel: Evidence from the Western Tianshan metamorphic belt, NW China. *Journal of Asian Earth Sciences* 145, 111-122.
65. Kröner, A., Kovach, V., Alexeiev, D., **Wang, K.-L.**, Wong, J., Degtyarev, K., Kozakov, I., 2017. No excessive crustal growth in the Central Asian Orogenic Belt: Further evidence from field relationships and isotopic data. *Gondwana Research* 50, 135-166.
64. Velikoslavinskii, S. D., Kotov, A. B., Kovach, V. P., Tolmacheva, E. V., Sorokin, A. A., Sal'nikova, E. B., Larin, A. M., Zagornaya, N. Yu., **Wang, K.-L.**, Chung, S.L., 2017. Age and Tectonic Position of the Stanovoi Metamorphic Complex in the Eastern Part of the Central Asian Foldbelt. *Geotectonics* 51, 341-352.
63. Deevsalar, R., Shinjo, R., Ghaderi, M., Murata, M., Hoskin, P., Oshiro, S., **Wang, K.-L.**, Lee, H. Y., Neill, I., 2017. Mesozoic-Cenozoic mafic magmatism in Sanandaj-Sirjan Zone, Zagros Orogen (Western Iran): geochemical and isotopic inferences from Middle Jurassic and Late Eocene gabbros. *Lithos* 284, 588-607.
62. Kovach, V.P., Degtyrev, K., Tretyakov, A., Kotov, A., Tolmacheva, E., **Wang, K.-L.**, Chung, S.-L., Lee, Hao-Yang, Jahn, B.-M., 2017. Sources and provenance of the Neoproterozoic placer deposits of the Northern Kazakhstan: Implication for continental growth of the western Central Asian Orogenic Belt. *Gondwana Research*, 47, 28-43.
61. Xiao, Yuanyuan, Niu, Yaoling, Zhang, Hong-Fu, **Wang, Kuo-Lung**, Iizuka, Yoshiyuki, Lin, Jinyan, Tan, Yulong, Xu, Yongjiang, 2017. Effects of decarbonation on elemental behaviors during subduction-zone metamorphism: Evidence from a titanite-rich contact between eclogite-facies marble and omphacitite. *Journal of Asian Earth Sciences* 135, 338-346.
60. Li, Y., Brouwer, F. M., Xiao, W., **Wang, K.-L.**, Lee, Y.H., Luo, B. Su, Y., Zheng, J., 2017. Subduction-related metasomatic mantle source in the eastern Central Asian Orogenic Belt: Evidence from amphibolites in the Xilingol Complex, Inner Mongolia, China. *Gondwana Research*, 43, 193-212.
59. Yui, T. F., Chu, H. T., Suga, K., Lan, C. Y., Chung, S. H., **Wang, K.-L.**, Grove, M., 2017. Subduction-related 200 Ma Talun metagranite, SE Taiwan: an age constraint for palaeo-Pacific plate subduction beneath South China Block during the Mesozoic. *International Geology Review*, 59, 333-346.
58. Liang, Y.H., Halliday, A.N., Siebert, C., Fitton, J.G., Burton, K.W., **Wang, K.-L.**, Harvey, J., 2017. Molybdenum isotope fractionation in the mantle. *Geochim. Cosmochim. Acta*, 199, 91-111.
57. 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 (LA-ICP-MS) analyses. *Doklady Earth Sciences* 471, 1234–1237.

56. Schindlbeck, J.C., Kutterolf, S., Freundt, A., Andrews, G.D.M., **Wang, K.-L.**, Völker, D., Werner, R., M. Frische, Hoernle, K., 2016. Alkalic marine tephra layers at ODP Site 1241- major explosive eruptions from an oceanic volcano in a pre-shield stage? *J. Vol. Geotherm Res.* 328, 96-104.
55. Schindlbeck, J.C., Kutterolf, S., Freundt, A., Alvarado, G., **Wang, K.-L.**, Straub, S.M., Hemming, S.R., Frische, M., Woodhead, J. D. 2016. Late Cenozoic tephrostratigraphy offshore the southern Central American Volcanic Arc: 1. Tephra ages and provenance. *Geochemistry, Geophysics, Geosystems* 17, 4641–4668.
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