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研究專長：同位素地球化學、火成岩成因學、岩石學

[現職]

- 中央研究院地球科學研究所副研究員 (2013.1 迄今)
- 國立台灣大學地質科學系合聘副教授 (2017.2 迄今)
- 國立中央大學地球科學系兼任副教授 (2014.2 迄今)
- 中國文化大學地質系兼任副教授 (2023.2 迄今)
- 澳洲麥覺理大學行星與地球科學系榮譽研究員 (Honorary Research Fellow; 2006.1 迄今)

[學歷]

- 國立台灣大學地質科學研究所博士 (1995.9-2000.1; 論文題目：台灣北部第四紀火山岩的岩石成因; 指導教授：鍾孫霖)
- 國立台灣大學地質科學研究所碩士班研究 (1994.9-1995.6; 1995.9 直攻博士班)
- 軍中服役 (42 期預官：1992.7-1994.6)
- 國立台灣大學地質科學系學士 (1988.9-1992.6)

[經歷]

- 中華民國地球科學學會理事 (2017.3-2020.2)
- 中華民國地質學會常務理事 (2017.6-2019.5)
- 中華民國地質學會秘書長 (2015.7-2017.6)
- 中央研究院地球科學研究所助研究員 (2005.8~2012.12)
- 澳洲麥覺理大學(Macquarie University)行星與地球科學系博士後研究員 (2001.6~2005.7)
- 國立台灣大學地質科學系博士後研究員 (2000.2~2001.5)
- 國立台灣大學地質科學系助教 (1995.9~1997.6)

[榮譽]

- 中央研究院前瞻計畫(2018.1-2022.12)
- 科技部優秀年輕學者研究計畫 (2013.8~2017.7)
- 澳洲麥覺理大學研究獎學金(Macquarie University Research Fellowship (MURF)) (2001.6~2004.5)
- 教育部公費留學博士後研究補助(2001.6~2003.6)

[編輯服務]

- TAO 國際學術期刊地質領域主編 (2022.11 起)
- Geochemical Journal 國際學術期刊副編輯 (2020.1 起)
- Island Arc 國際學術期刊副編輯 (2020.1 起)
- TAO 國際學術期刊副編輯 (2015.8-2020.7)
- American Journal of Sciences 客座編輯 (2014.1~2)
- 自 2004 年起擔任包括 Contribution to Mineralogy and Petrology, 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, Scientific Report, American Journal of Sciences, Gondwana Research 等國際著名學術期刊超過 75 篇論文的審查者(reviewer)
- 自 2010 年起擔任超過 100 個科技部研究計畫審查人

[研究領域]

- 島弧岩漿與隱沒帶交代變質作用
- 造山帶玄武岩質與高鉀岩漿的地化特性與演化
- 地函捕獲岩與岩石圈地函之演化
- 原位 (雷射) 鉑族元素含量與鐵同位素組成分析
- 蛇綠岩中超基性岩體的地球化學研究

[著作]

Listed peer-reviewed publications below:

ORCID: 0000-0002-6447-2168

Web of Science Researcher ID: B-7399-2009

Scopus Author ID: 57208293165/ 37101195800

[h-index = 30 and total citations = 3347 times; Web of Science; 6 Feb. 2023]

The screenshot shows the Web of Science interface for a Citation Report. At the top, the Clarivate logo and language options (English) are visible. The main header includes 'Web of Science' and the user's name 'Kuo-Lung Wang'. The search bar contains 'Wang, Kuo-Lung (Author)'. Below the search bar are buttons for 'Analyze Results' and 'Create Alert'. The report is divided into four main sections: 'Publications' (108 Total, From 1900 to 2023), 'Citing Articles' (2,746 Total, 2,682 Without self-citations), 'Times Cited' (3,347 Total, 3,207 Without self-citations, Average per item: 30.99), and 'H-Index' (30). A sidebar on the left contains navigation icons for home, search, and notifications.

Publications	Citing Articles	Times Cited	H-Index
108 Total	2,746 Total	3,347 Total	30
From 1900 to 2023	2,682 Without self-citations	3,207 Without self-citations	H-Index
		30.99 Average per item	

Peer-reviewed papers:

Since 2021:

117. Shellnutt, J.G., Ma, G.S.K., Chan, J.S.L. Wong, J.P.M., **Wang, K.-L.** Early Cretaceous volcanic-arc magmatism in the Dalat-Kratie Fold Belt of eastern Cambodia: implications for the lithotectonic evolution of the Indochina terrane. *Frontiers in Earth Science*, *accepted*.
116. M. Luo, M., Hong, W.-L., Torres, M.E., Kutterolf, S., Pank, K., Hopkins, J.L., Solomon, E.A., **Wang, K.-L.**, Lee, H.-Y. 2023. Volcanogenic aluminosilicate alteration drives formation of authigenic phases at the northern Hikurangi margin: Implications for subseafloor geochemical cycles. *Chemical Geology* 619, 121317. <https://doi.org/10.1016/j.chemgeo.2023.121317>
115. Brlek, M., Tapster, S.R., Schindlbeck-Belo, J., Gaynor, S., Kutterolf, S., Hauff, F., Georgiev, S.V., Trinajstić, N., Suica, S., Brčić, V., **Wang, K.-L.**, Lee, H.-Y., Beier, C., Abersteiner, A.B., Mišur, I., Peytcheva, I., Kukoc, D., Nemeth, B., Trajanova, M., Balen, D., Guillong, M., Szymanowski, D., Lukacs, R., 2023. Tracing widespread Early Miocene ignimbrite eruptions and petrogenesis at the onset of the Carpathian-Pannonian Region silicic volcanism. *Gondwana Research* 116, 40-60. <https://doi.org/10.1016/j.gr.2022.12.015>
114. Tran, T.-D., **Wang K.-L.***, Kovach, V., Kotov, A., Velikoslavinsky, S., Popov, N., Dril, S., Chu, Z., Lee, D.-C., Kuo, L.-W., Iizuka, Y., Lee, H.-Y., 2023. Plate tectonics in action in the Mesoarchean: implication from the Olondo greenstone belt on the Aldan Shield of Siberian Craton. *Earth and Planetary Science Letters* 603, 117975. <https://doi.org/10.1016/j.epsl.2022.117975>
113. Cisneros de León, A., Danišík, M. Schindlbeck-Belo, J., Kutterolf, S., Schmitt, A.K., Freundt, A., Kling, J., **Wang, K.-L.**, Lee, H.-Y., 2023. Timing and recurrence intervals for voluminous silicic eruptions from Amatitlán Caldera (Guatemala). *Quaternary Science Reviews* 301, 107935. <https://doi.org/10.1016/j.quascirev.2022.107935>
112. Rizelia, M.E., Bingöl, A.F., **Wang, K.-L.**, Lee, H.-Y., 2023. Abyssal and forearc features of mantle peridotites in the Guleman ophiolite in SE Turkey. *Lithos* 436–437, 106958. <https://doi.org/10.1016/j.lithos.2022.106958>
111. Motova, Z.L., Donskaya, T.V., Gladkochub, D.P., Mazukabzov, A.M., **Wang, K.-L.**, Lee, H.-Y., 2022. Late Precambrian “Pre-Glacial” Sedimentation Stage in the Southern Siberian Platform. *Russ. Geol. Geophys.*, 1–17. <https://doi.org/10.2113/RGG20214394>
110. Kourim F., Rospabé, M., Dygert, N., Chatterjee, S., Takazawa, E., **Wang K.-L.**, Godard, M., Benoit, M., Giampouras, M., Ishii, K., Teagle, D. A.-H., Cooper, M.-J., Kelemen, P.B., 2022. Geochemical characterization of the Oman Crust-Mantle transition zone, OmanDP Holes CM1A and CM2B. *Journal of Geophysical Research: Solid Earth* 127, e2021JB022694. <https://doi.org/10.1029/2021JB022694>
109. Kutterolf, S., Freundt, A., Hansteen, T.H., Dettbarn, R., Hampel, F., Sievers, C., Wittig, C., Druitt, T.H., McPhie, J., Nomikou, P., Pank, K., Schindlbeck-Belo, J.C., **Wang, K.-L.**, Lee, H.-Y., Friedrichs, B., 2021. The medial offshore record of explosive volcanism along the central to eastern Aegean Volcanic Arc: 1. Tephrostratigraphic correlations. *Geochemistry, Geophysics, Geosystems*, 22, e2021GC010010. <https://doi.org/10.1029/2021GC010011>
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 reconstruction. *Precambrian Research* 354, 106040. <https://doi.org/10.1016/j.precamres.2020.106040>
103. Skuzovatov, S., Shatsky, V., Ragozin, A., **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., Holcová, 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 Chukendyktas terrane (Southern Kazakhstan, Central Asian Orogenic Belt): Zircon dating, Nd isotopy 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. Gabbro-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.
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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.

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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 formation 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.
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