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Yui, Tzen-Fu Distinguished Research Fellow (2018/09/01 Retired)

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研究領域：同位素地球化學、礦物學、岩石學

Specialty: Isotope Geochemistry, Mineralogy, Petrology

〔學歷〕 [Education]

- 1970 - 1974 : 國立臺灣大學地質系學士
Ph.D., Institute of Geology, National Taiwan University, 1981-1985
- 1976 - 1979 : 國立臺灣大學地質研究所碩士
M.S., Institute of Geology, National Taiwan University, 1976-1979
- 1981 - 1985 : 國立臺灣大學地質研究所博士
Ph.D., Institute of Geology, National Taiwan University, 1981-1985

〔經歷〕 [Experiences]

- 2018/10/01 - : 中央研究院地球科學研究所 兼任研究員
Institute of Earth Sciences, Academia Sinica, Adjunct Research Fellow
- 2017/9/21 - 2018/08/31 : 中央研究院地球科學研究所 特聘研究員
Institute of Earth Sciences, Academia Sinica, Distinguished Research Fellow
- 2013/5/8 - 2013/8/31, 2015/2/1 - 2017/4/30 : 中央研究院地球科學研究所 副所長
Institute of Earth Sciences, Academia Sinica, Deputy Director
- 2004/8 - 2006/8/31 : 中央研究院地球科學研究所 副所長
Institute of Earth Sciences, Academia Sinica, Deputy Director
- 1990 - 2017/9 : 中央研究院地球科學研究所 研究員
Institute of Earth Sciences, Academia Sinica, Research Fellow
- 1985 - 1990 : 中央研究院地球科學研究所 副研究員
Institute of Earth Sciences, Academia Sinica, Associate Research Fellow
- 1981 - 1985 : 中央研究院地球科學研究所 助理研究員
Institute of Earth Sciences, Academia Sinica, Assistant Research Fellow

〔學術服務〕 [Professional Activities]

- 1990 : 中國地質學會祕書長 Secretary General, Geological Society of China
- 1993 - : 中國地質學會會刊編輯 Editor, Journal of the Geological Society of China
- 1995 - : 地質編輯 Editor, Ti-Chi

〔榮譽與獎助〕 [Awards]

- 1991 : 中國地質學會馬廷英青年獎章
Tin-In Ma Youth Medal Award, Geological Society of China
- 1990, 1993, 1994 : 國科會研究獎助優等獎
Excellent Research Award, National Science Council
- 1991 - 1992, 1995 - 1996 : 國科會研究獎助傑出獎
Outstanding Research Award, National Science Council

- 2014 : 教育部第 58 屆學術獎 58th Academic Award, Ministry of Education

[學會會員] [Affiliation]

- 中國地質學會 Geological Society of China
- 中國地球科學聯合會 Chinese Geoscience Union

Research Highlight

1. Stable isotope studies on gem deposits
2. Tectonics of Taiwan basement
3. Genesis and mantle-crustal rock interactions of ultrahigh-pressure rocks

[著 作] [Publication list]

(1) SCI Journals

1. Hwang Shyh-Lung, Shen Pouyan, Chu Hao-Tsu, **T. F. Yui**, Iizuka Yoshiyuki, Schertl Hans-Peter, (2019), Rutile inclusions in garnet from a dissolution-reprecipitation mechanism, *Journal of Metamorphic Geology*, 37(8) 1079-1098. <https://doi.org/10.1111/jmg.12502>
2. Hwang, S. L., P. Shen, **T. F. Yui**, H. T. Chu, A. M. Logvinova, N. V. Sobolev, (2018), Low-energy phase boundary pairs and preferred crystallographic orientations of olivines in nanometer-size ultrapotassic fluid inclusions of Aykhal diamond, *LITHOS*, 322, 392-404. DOI: 10.1016/j.lithos.2018.10.026.
3. Hwang S.-L., P. Shen, H.-T. Chu, **T.-F. Yui**, M.-E. Varela, Y. Iizuka, (2018), New minerals tsangpoite Ca₅(PO₄)₂(SiO₄) and matyhite Ca₉(Ca_{0.5}•0.5)Fe(PO₄)₇ from angrite D'Orbigny, *Mineralogical Magazine*, 1-55 , <http://dx.doi.org/10.1180/mgm.2018.125>
4. Chen, C.-T., Wu, C.-Y., Lo, C.-H., Chu, H.-T., **Yui, T.-F.**, (2018), Dating Palaeo-seismic faulting in the Taiwan Mountain Belt, *Terra Nova* 30(2), 146-151, DOI: 10.1111/ter.12319
5. Suga, K. *, **T.F. Yui**, K. Miyazaki, S. Sakara, T. Hirata and M. Fukuyama, 2017, A revisit to the Higo terrane, Kyushu, Japan: The eastern extension of the North China–South China collision zone., *JOURNAL OF ASIAN EARTH SCIENCES*, 143, 218-235
6. Shahzeidi, M. *, M. Moayyed, M. Murata, **T.F. Yui**, S. Arai, F. Chen, T. Pirnia and J. Ahmadian, 2017, Late Ediacaran Crustal Thickening in Iran: Geochemical and isotopic constraints from the ~550 Ma Mishu granitoids (NW Iran), *INTERNATIONAL GEOLOGY REVIEW*, 59, 793-811
7. Varela M.E*, Hwang S.-L, Shen P, Chu H.-T, **Yui T.-F.**, Iizuka Y, Brandstätter F, Abdu Y.A, 2017, Olivinites in the angrite D'Orbigny: Vestiges of pristine reducing conditions during angrite formation", *Geochimica et Cosmochimica Acta*, 217, 349-364
8. **T.F. Yui***, H.T. Chu, K. Suga, C.Y. Lan, S.H. Chung, K.L. Wang and M. Grove, 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
9. Zhang, R.Y. *, X.H. Li, **T.F. Yui**, B.M. Jahn, X.X. Ling, J.G. Liou., 2016, U-Pb geochronology of zircon and rutile from the Kokchetav metamorphic belt, northern Kazakhstan, and its tectonic implication., *European Journal of Mineralogy*, 28, 1203-1213
10. Laskar, A.H., **T.F. Yui***, M.-C. Liang., 2016, Clumped Isotope Composition of Marbles from the Backbone Range of Taiwan, *Terra Nova*, 28, 265-270
11. Hwang, S.L. *, P. Shen, H.T. Chu, **T.F. Yui**, M.E. Varela and Y. Iizuka, 2016, Kuratite, Ca₄(Fe₂+10Ti₂)O₄[Si₈Al₄O₃₆], the Fe₂₊-analogue of rhönite, a new rhönite subgroup mineral from angrite D'Orbigny, *MINERALOGICAL MAGAZINE*, 80, 1067-1076
12. Hwang, S.L. *, P. Shen, H.T. Chu, **T.F. Yui**, 2016, On the forbidden and the optimum crystallographic variant of rutile in garnet, *J. Appl. Crystallogr.*, 49, 1922-1940
13. Suga, K. *, **T.F. Yui**, J.G. Shellnutt, T.W., Wu, Y. Mori, K. Miyazaki and B.M. Jahn, 2016, Nd–Sr isotopic constraint to the formation of metatexite and diatexite migmatites, Higo metamorphic terrane,

central Kyushu, Japan: implications for mass transfer through diatexite magma channels via hybrid silicic melt, *Int. Geol. Rev.*, 58, 405-423

14. **Yui, T.F.** and M. Fukuyama, 2015, A revisit to the Yorii jadeite-quartz rock, the Kanto Mountains, Japan: implications from zircon. *J. Asian Earth Sci.*, 108, 58-67
15. Hwang, S.L., P. Shen, H.T. Chu, **T.F. Yui** and Y. Iizuka, 2015, Origin of rutile needles in star garnet and implications for interpretation of inclusion textures in ultrahigh-pressure metamorphic rocks. *J. Metamorphic Geol.*, 33, 249-272
16. Khin Zaw, Lin F. Sutherland, **T.F. Yui**, Sebastien Meffre and Kyaw Thu, 2015, Vanadium-rich ruby and sapphire within Mogok gemfield, Myanmar: Implications for gem color and genesis. *Mineralium Deposita*, 50, 25-39
17. Sutherland, F. Lin, Khin Zaw, Sebastien Meffre, **T.F. Yui** and Kyaw Thu, 2015, Advances in trace element 'fingerprinting' of gem corundum, ruby and sapphire, Mogok area, Myanmar. *Minerals*, 5, 61-97
18. **Yui, T.F.**, T. Usuki, C.Y. Chen, A. Ishida, Y. Sano, K. Suga, Y. Iizuka and C.T. Chen, 2014, Dating thin zircon rims by NanoSIMS: the Fengtien nephrite (Taiwan) is the youngest jade on Earth. *Int. Geol. Rev.*, 56, 1932-1944
19. Maki, K., **T.F. Yui**, K. Miyazaki, M. Fukuyama, K.L. Wang, U. Martens, M. Grove, J.G. Liou, 2014, Petrogenesis of metatexite and diatexite migmatites determined using zircon U–Pb age, trace element and Hf isotope data, Higo metamorphic terrane, central Kyushu, *Journal of Metamorphic Geology*, 32, 301-323
20. Hwang, S.L., P. Shen, H.T. Chu, **T.F. Yui**, Y. Iizuka, 2013, A TEM study on the oriented orthopyroxene and forsterite inclusions in garnet from Otrøy garnet peridotite, WGR, Norway: New insights on crystallographic characteristics and growth energetics of exsolved pyroxene in relict majoritic garnet, *J. Metamorphic Geol.* 31, 113-130
21. **Yui, T.F.**, Y. Ogasawara, L. Zhang, C.H. Tsai, 2013, Editorial: HP and UHP metamorphic belts in Asia, *J. Asian Earth Sci.*, 63, 1-4.
22. Hwang, S.L., **T.F. Yui**, H.T. Chu, P. Shen, J.G. Liou, N.V Sobolev, 2013, Oriented kokchetavite compound rods in clinopyroxene of Kokchetav ultrahigh-pressure rocks, *J. Asian Earth Sci.*, 63, 56-69
23. **Yui, T.F.**, M. Fukuyama, Y. Iizuka, C.M. Wu, T.W. Wu, J.G. Liou and M. Grove, 2013, Is Myanmar jadeitite of Jurassic age? A result from incompletely recrystallized inherited zircon, *Lithos*, 160-161, 268-282
24. Miyazaki, K., T. Ikeda, K. Arima, M. Fukuyama, K. Maki, **T.F. Yui**, M. Grove, 2013, Pressure–temperature structure of a mylonitized metamorphic pile, and the role of advection of the lower crust, Nagasaki Metamorphic Complex, Kyushu, Japan, *Lithos*, 162-163, 14-26
25. Okamoto, K., B. Jahn, **T.F. Yui**, M. Akasaka, 2013, Redox state at ultrahigh-pressure metamorphism: Constraint from the Chinese Continental Scientific Drilling eclogites. *Island Arc*, 22, 25-36.
26. Chu, H.T., S.L. Hwang, P. Shen, and **T.F. Yui**, 2012, Pseudotachylyte in the Tananao Metamorphic Complex, Taiwan: occurrence and dynamic phase changes of fossil earthquakes, *Tectonophysics*, 581, 62-75
27. **Yui, T.F.**, K. Maki, C.Y. Lan, T. Hirata, H.T. Chu, Y. Kon, T.D. Yokoyama, B.M. Jahn, W.G. Ernst, 2012, Detrital zircons from the Tananao metamorphic complex of Taiwan: implications for sediment provenance and Mesozoic tectonics, *Tectonophysics*, 541-543, 31-42
28. Tsai, C.H., **T.F. Yui**, W.S. Chen and 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*, 132-133, 193-195
29. **Yui, T.F.**, K. Maki, K.L. Wang, C.Y. Lan, T. Usuki, Y. Iizuka, C.M. Wu, T.W. Wu, T. Nishiyama, U. Martens, J. G. Liou, and M. Grove, 2012, Hf isotope and REE composition of zircons from jadeitite (Tone, Japan and north of the Motagua fault, Guatemala): implications on jadeitite genesis and possible geochemical characteristics of protoliths, *Eur. J. Mineral.*, 24, 263-275
30. Liu, Y., J. Deng, G. Shi, **T.F. Yui**, G. Zhang, M. Abuduwayiti, L. Yang, X. Sun, 2011, Geochemistry and petrology of nephrite from Alamas, Xinjiang, NW China”, *J. Asian Earth Sciences*, 42, 440-451
31. Hwang, S.L., **T.F. Yui**, H.T. Chu, P. Shen, R.Y. Zhang and J.G. Liou, 2011, An AEM study of garnet clinopyroxenite from the Sulu ultrahigh-pressure terrane: Formation mechanisms of oriented ilmenite,

- spinel, magnetite, amphibole and garnet inclusions in clinopyroxene, *Contrib. Mineral. Petrol.*, *161*, 901-920
32. **Yui, T.F.**, H.T. Chu, S.L. Hwang, P. Shen and T.W. Wu, 2010, Geochemistry of garnetiferous Ti-clinohumite rock and talc-kyanite-phengite-almandine schist from the Kokchetav UHP terrane, Kazakhstan: an insight to possible origins of some chemically unusual UHP rocks, *Lithos*, *118*, 131-144
 33. Hwang, S.L., P. Shen, **T.F. Yui** and H.T. Chu, 2010, On the coherency-controlled growth habit of precipitate in minerals: A new reciprocal-space criterion for optimum interphase boundary, *J. Appl. Crystallogr.*, *43*, 417-428
 34. **Yui, T.F.**, K. Maki, T. Usuki, C.Y. Lan, U. Martens, C.M. Wu, T.W. Wu and J.G. Liou, 2010, Genesis of Guatemala jadeitite and related fluid characteristics: Insight from zircon, *Chem. Geol.*, *270*, 45-55.
 35. Hwang, S.L., P. Shen, H.T. Chu, **T.F. Yui**, J.G. Liou and N.V. Sobolev, 2009, Kumdykolite, an orthorhombic polymorph of albite, from the Kokchetav ultrahigh-pressure massif, Kazakhstan, *Eur. J. Mineral.*, *21*, 1325-1334
 36. Shiao, Jen-Chieh, **Tzen-Fu Yui**, Hans Høie, Ulysess Ninnemann and Shui-Kai Chang, 2009, Otolith O and C stable isotope composition of southern bluefin tuna *Thunnus maccoyii* (Pisces: Scombridae) as possible environmental and physiological indicators, *Zoological Studies*, *48*, 71-82
 37. **Yui, T.F.**, S.J. Kao and T.W. Wu, 2009, Nitrogen and N-isotope variation during low-grade metamorphism of the Taiwan mountain belt, *Geochem. J.*, *43*, 15-27
 38. **Yui, T.F.**, K. Okamoto, T. Usuki, C.Y. Lan, H.T. Chu and J.G. Liou, 2009, Late Triassic-Late Cretaceous accretion/subduction in Taiwan region along the east margin of South China – evidence from zircon SHRIMP dating, *Int. Geol. Rev.*, *51*, 304-328
 39. Lan, C.Y., T. Usuki, K.L. Wang, **T.F. Yui**, K. Okamoto, T.H. Lee, T. Hirata, Y. Kon, Y. Orihashi, J.G. Liou and C.S. Lee, 2009, Detrital zircon evidence for the antiquity of Taiwan. *Geosciences J.*, *13*, 233-243
 40. Usuki, T., C.Y. Lan, **T.F. Yui**, Y. Iizuka, Van Tich Vu, Tuan Anh Tran, K. Okamoto, and J.L. Wooden, 2009, Identification of Ordovician medium-pressure metamorphism in central Vietnam: evidence from SHRIMP U-Pb zircon ages, *Geosciences J.*, *13*, 245-256
 41. Lan, C.Y., C.S. Lee, **T.F. Yui**, H.T. Chu, and B.M. Jahn, 2008, The tectono-thermal events of Taiwan and their relationship with SE China, *Terr. Atmos. Ocean. Sci.*, *19*, 257-278
 42. Hwang, S.L., **T.F. Yui***, H.T. Chu, P. Shen, Y. Iisuka, H.Y. Yang, J. Yang and Z. Xu, 2008, Hematite and magnetite precipitates in olivine from the Sulu peridotite: a result of dehydrogenation-oxidation reaction of mantle olivine? *Am. Mineral.*, *93*, 1051-1060
 43. **Yui, T.F.**, Khin Zaw and C.M. Wu, 2008, A preliminary stable isotope study on Mogok ruby, Myanmar, *Ore Geology Reviews*, *34*, 192-199
 44. Hwang, S.L., **T.F. Yui**, H.T. Chu, P. Shen, H.P. Scherertl, R.Y. Zhang, and J.G. Liou, 2007, On the origin of oriented rutile needles in garnet from UHP eclogites. *J. Meta. Geol.* *25*, 349-362
 45. Zhang, R.Y., T. Li, D. Rumble, **T.F. Yui**, L. Li, J.S. Yang, Y. Pan, and J.G. Liou, 2007, Multiple metasomatism in Sulu ultrahigh-P garnet peridotite constrained by petrological and geochemical investigations. *J. Meta. Geol.* *25*, 149-164
 46. Hwang, S.L., P. Shen, H.T. Chu and **T.F. Yui**, 2007, TiO₂ nanoparticle trails in garnet: implications of inclusion-pressure induced microcracks and spontaneous metamorphic-reaction healing during exhumation, *J. Meta. Geol.* *25*, 451-460
 47. **Yui, T.F.**, C.M. Wu, P. Limtrakun, W. Sricharn and A. Boonsoong, 2006, Oxygen isotope studies on placer sapphire and ruby in the Chanthaburi-Trat alkali basaltic gemfield, Thailand, *Lithos*, *86*, 197-211
 48. Pan, Chiennan, Pouyan Shen, Wu-Liang Huang, Shyh-lung Hwang, **Tzen-Fu Yui**, and Hao-Tsu Chu, 2006, High temperature-pressure synthesis of Ti-doped tohdite and corundum from hydrous Al₂O₃-TiO₂ gel: implications for natural occurrence and engineering applications, *J. Eur. Cer. Soc.*, *26*, 2707-2717 (1.567)
 49. Hwang, S.L., P., Shen, H.T. Chu, and **T.F. Yui**, 2006, A new occurrence and new data on akdalaite, a retrograde mineral from UHP whiteschist, Kokchetav massif, northern Kazakhstan, *Int. Geol. Rev.*, *48*, 754-764
 50. Hwang, S.L., H.T. Chu, **T.F. Yui**, P., Shen, H.P., Schertl, J.G. Liou, and N.V. Sobolev, 2006, Nanometer-size P/K-rich silica glass (former melt) inclusions in microdiamond from the gneisses of

- Kokchetav and Erzgebirge massifs: Diversified characteristics of the formation media of metamorphic microdiamond in UHP rocks due to host-rock buffering, *Earth Planet. Sci. Lett.*, *243*, 94-106
51. Khin Zaw, F.L. Sutherland, F. Dellapasqua, C.G. Ryan, **T.F. Yui**, T.P. Mernagh, and D. Duncan, 2006, Contrasts in gem corundum characteristics, eastern Australian basaltic fields: trace elements, fluid/melt inclusions and oxygen isotopes, *Min. Mag.*, *70*, 617-634
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 53. Jahn, B.M., X. Liu, **T.F. Yui**, N. Morin, M. Le Coz Buhtnik, 2005, HP/UHP eclogites from western Dabieshan (Hong'an Block), east-central China: geochemical characterization and geochronological controversy, *Contrib. Mineral. Petrol.*, *149*, 499-526
 54. **Yui, T.F.**, 2005, Isotopic composition of carbonaceous material in metamorphic rocks from the mountain belt of Taiwan, *Int. Geol. Rev.* *47*, 310-325
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 56. Zhang, R. Y., J. G. Liou, J. P. Zheng, W. L. Griffin, **T.F. Yui**, and S. Y. O'Reilly, 2005, Petrogenesis of the Yangkou layered garnet-peridotite complex, Sulu UHP terrane, China, *Am. Mineral.* *90*, 801-813
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 58. Shen, P., S.L. Hwang, H.T. Chu, **T.F. Yui**, C. Pan and W.L. Huang, 2005, On the transformation pathways of a -PbO₂-type TiO₂ at the twin boundary of rutile bicrystals and the origin of rutile bicrystals, *Eur. J. Mineral.*, *17*, 543-552
 59. Jahn, B.M., X. Liu, **T.F. Yui**, N. Morin, M. Le Coz Buhtnik, 2005, HP/UHP eclogites from western Dabieshan (Hong'an Block), east-central China: geochemical characterization and geochronological controversy, *Contrib. Mineral. Petrol.*, *149*, 499-526
 60. Chan, Y.C., K. Okamoto, **T.F. Yui**, Y. Iizuka, H.T. Chu, 2005, Fossil fluid reservoir beneath a duplex fault structure within the Central Range of Taiwan: implication for fluid leakage and lubrication during earthquake rupturing process, *Terra Nova*, *17*, 493-499
 61. Gong, Shou-Yeh, Horng-Sheng Mii, Kuo-Yen Wei, Chorng-Sherng Horng, Fu-Wen Huang, Wen-Rong Chi, **Tzen-Fu Yui**, Pei-Keng Torng, Shieu-Tsann Huang, Shi-Wei Wang, Jong-Chang Wu and Kenn-Ming Yang, 2005, Dry climate near Western Pacific warm pool: late Cenozoic caliche surfaces of Nansha Islands, South China Sea, *Palaeogeography, Palaeoclimatology, Palaeoecology*, *226*, 205-213
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 64. Wu, F., B.M. Jahn, S.A. Wilde, C.H. Lo, **T.F. Yui**, Q. Lin, W. Ge and D. Sun, 2003, Highly fractionated I-type granites in NE China(I): geochronology and petrogenesis, *Lithos*, *66*, 241-273
 65. **Yui, T.F.**, P. Limtrakun, and Khin Zaw, 2003, Oxygen isotope compositions of the Denchai sapphire, Thailand: a clue to its enigmatic origin, *Lithos*, *67*, 153-161
 66. Wu, F., B.M. Jahn, S.A. Wilde, C.H. Lo, **T.F. Yui**, Q. Lin, W. Ge and D. Sun, 2003, Highly fractionated I-type granites in NE China (II): isotopic geochemistry and implications for crustal growth in the Phanerozoic, *Lithos*, *67*, 191-204
 67. Hwang, S.L., P. Shen, **T.F. Yui** and H.T. Chu, 2003, Metal-sulfur-COH-silicate fluid mediated diamond nucleation in Kokchetav ultrahigh-pressure gneiss, *Europ. J. Miner.* *15*, 503-511
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73. Yui, T.F. P. Shen and H.H. Liu, 2001, Titanite inclusions in altered biotite from granitoids of Taiwan: microstructures and origins, *J. Asian Earth Sci.*, 19, 165-175
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