

List of Publications

[Symbols]

JE in Japanese with English abstract

◦ The first author

* Researchers belonging to University of Tsukuba, not to the Doctoral Program of Earth Evolution Sciences

** Researchers not belonging to University of Tsukuba

*** Undergraduate students, graduate students and auditors belonging to University of Tsukuba

Arakawa, Y. (2019): Basic igneous rocks from the geosites of the Muroto UNESCO Global Geopark belonging to the Sakihama Mélange of the Muroto-hanto Group. *Kumamoto Gakuen Univ. Journal of Liberal Arts and Sciences*, **25**, 45-53. (**JE**) (with Takahashi, Y. ◦***, Nakamura, Y.***, Shinmura, T.**)

Fujino, S. (2019): Geological record of prehistoric tsunamis in Mugi town, facing the Nankai Trough, western Japan. *Progress in Earth and Planetary Science*, **6**, 33, <https://doi.org/10.1186/s40645-019-0279-9>. (with Shimada, Y. ◦***, Sawai, Y. **, Tanigawa, K**, Matsumoto, D. **, Momohara, A. **, Saito-Kato, M. **, Yamada, M. **, Hirayama, E. ***, Suzuki, T. ***, Chagué, C. **)

Hisada, K. (2020): Tell el-Kerk in northwest Syria from a geological perspective. *Jour. West Asia Archaeology*, **21**, 95-103.

Kamata, Y. (2019): Tectono-stratigraphy of Late Carboniferous to Triassic successions of the Khorat Plateau Basin, Indochina Block, northeastern Thailand: Initiation of the Indosinian Orogeny by collision of the Indochina and South China blocks. *Journal of Asian Earth Sciences*, **170**, 208 – 224. (with Minezaki, T. ◦**, Hisada, K.* and Hara, H.**)

——— (2019): Preface: The 15th Meeting of the International Association of Radiolarists (InterRad XV), 20 October–1 November, 2017, Niigata, Japan. *Paleontological Research*, **23**(4), 235-235, (with Matsuoka, A. ◦** Kurihara, T.***, and Takemura, A.)

Kurosawa, M. (2020): Minerals. In Fujino, S., Agematsu, S., Ikehata, K., Kurosawa, M., Maruoka, T., and Yagi, Y. (eds.) *Earth Evolution Sciences*, revised ed., Kokon Shoin Co., Ltd., p. 63-79. ISBN 978-4-

772-25331-4. (with Kyono, A.)

——— (2020): Fundamental studies on the beginning of metal use in ancient West Asia and the origin of ancient urban mining. In Yamada, S. (ed.) 2019 Academic Year Annual Report of the Essence of Civilization: An Interdisciplinary Study of the Origin and Transformation of Ancient West Asian Cities, Research Center for West Asian Civilization, p. 173-180. (with Ikehata, K. and Arakawa, Y.)

——— (2019): Preliminary micro-PIXE analysis of silicate glass particles released from Fukushima nuclear plant. *Annual Rep., Tandem Accelerator Center, Univ. Tsukuba*, **88**, 31-32. (with Sueki, K*., Sasa, K.*, Ishii, S.*, Matsumura, M.*, Matsuo, K.*, and Ishii, T.*).

——— (2019): Analytical methods for chemical compositions of minerals. In Japan Association of Mineralogical Sciences (ed.) *A Scientific Dictionary of Minerals and Gems*, Asakura Publishing Co., Ltd., p.26-31. ISBN 978-4-254-16276-9. (with Kimura, J.**◦, Kato, J.***, and Yurimoto, H.**)

Kyono, A. (2020): In situ observation of the phase transition behavior of shocked baddeleyite. *Geophysical Research Letters*, **47**, e2020GL089592. (with Takagi., S.**◦, Nozawa, S.***, Kawai, N.***, Inukai, N.***, Fukaya, R.***, Funamori, N.***, Adachi, S.***, Ichiyangi, K.***)

——— (2020): Structure changes of nanocrystalline mackinawite under hydrothermal conditions. *Journal of Mineralogical and Petrological Sciences*, **115**, 261-275. (with Sano, Y. **◦, Yoneda, Y.***, Isaka, N.***, Takagi., S.***, Yamamoto, G. ***)

——— (2020): Development of shock dynamics study with synchrotron-based time-resolved X-ray diffraction using Nd:Glass laser system. *Journal of Synchrotron Radiation*, **27**, 371-377. (with Takagi., S.**◦, Ichiyangi, K.***, Nozawa, S.***, Kawai, N.***, Fukaya, R.***, Funamori, N.***, Adachi, S.***)

Maruoka, T. (2019): Sulfur isotopic systematics during the October 2017 eruption of the Shinmoe-dake volcano, Japan. *Applied Geochemistry*, **102**, 102-107 (with Ikehata, K.◦)

——— (2019): Sulfuric acid caves in Calabria (South Italy): Cave morphology and sulfate deposits, *Geomorphology*, **328**, 211-221 (with Galdenzi, S.◦**)

Mukai, H. (2020): Microscopic analyses of weathered granite in ion-adsorption rare earth deposit

- of Jianxi Province, China. *Scientific Reports*, **10**, 20194, <https://doi.org/10.1038/s41598-020-76981-8> (with Kon, Y.** , Sanematsu, K.** , Takahashi, Y.** , and Ito, M.**)
- (2020): Deep microbial proliferation at the basalt interface in 33.5-104 million-year-old oceanic crust. *Communications Biology*, **3**, 136, <https://doi.org/10.1038/s42003-020-0860-1>. (with Suzuki Y.***, Yamashita S. **, Kouduka M. **, Ao Y. **, Mitsunobu S. **, Kagi H. **, D'Hondt S. **, Inagaki F. **, Morono Y. **, Hoshino T. **, Tomioka N. **, and Ito M. **)
- (2019): Iron-rich Smectite Formation in Subseafloor Basaltic Lava in Aged Oceanic Crust. *Scientific Reports*, **9**, 11306, <https://doi.org/10.1038/s41598-019-47887-x>. (with Yamashita S.***, Tomioka N., Kagi H. **, Suzuki Y. **)
- Okuwaki, R. (2019): Development of an inversion method to extract information on fault geometry from teleseismic data, *Geophysical Journal International*, **220** (2), 1055–1065 (with Shimizu, K.***, Yagi, Y., Fukahata, Y**).
- Tanaka, K. (2019): Exceptional preservation of a Late Cretaceous dinosaur nesting site from Mongolia reveals colonial nesting behavior in a non-avian theropod. *Geology*, **47**, 843-847. Doi:10.1130/G46328.1. (with Kobayashi, Y.** , Zelenitsky, D.K.** , Therrien, F.** , Lee, Y.-N.** , Barsbold, R.** , Kubota, K.** , Lee, H.-J.** , Chinzorig, T.** , Idersaikhan, D.**)
- (2019): A new hadrosaurine (Dinosauria: Hadrosauridae) from the marine deposits of the Late Cretaceous Hakobuchi Formation, Yezo Group, Japan. *Scientific Reports*, **9**, 12389, Doi:10.1038/s41598-019-48607-1. (with Kobayashi, Y.°, Nishimura, T.** , Takasaki, R.** , Chiba, K.** , Fiorillo, A.R.** , Chinzorig, T.** , Sato, T.** , and Sakurai, K.**)
- Tsunogae, T. (2019): Petrology, phase equilibria modelling and zircon U-Pb geochronology of garnet-bearing charnockites from the Miyun area: implications for microblock amalgamation of the North China Craton. *Lithos*, **324–325**, 234–245 (with Tang, L.*** and Santosh, M. **).
- (2019): Geochemical and isotopic imprints of Early Cretaceous mafic and felsic dyke suites track lithosphere-asthenosphere interaction and craton destruction in the North China Craton. *Lithos*, **326–327**, 174–199 (with Xue, F.***, Santosh, M.** , and Yang, F.**).
- (2019): Eoarchean to Neoproterozoic crustal evolution of the Mantiqueira and the Juiz de Fora Complexes, SE Brazil: Petrology, geochemistry, zircon U-Pb geochronology and Lu-Hf isotopes. *Precambrian Research*, **323**, 81–101 (with Kuribara, Y.***, Santosh, M.** , Takamura, Y.***, Costa, A.G.** , and Rosiere, C.A.**).
- (2019): Petrology and phase equilibrium modeling of granulites from Obudu in the Benin-Nigerian Shield, Southeastern Nigeria: Implications for clockwise *P-T* evolution in a collisional orogen. *Mineralogy and Petrology*, **113**, 353–368 (with Ugwuonah, E.N.*** and Ekwueme, B.N.**)
- (2019): Early Cretaceous cryptoexplosive breccia-related gold mineralization in the North China Craton: Evidence from the Puziwan gold deposit. *Ore Geology Reviews*, **111**, Article 102986 (with Xue, F.***, Santosh, M.** , Li, S.R.** , Zhang, J.Q.**).
- (2019): Pressure-temperature-time evolution of ultrahigh-temperature granulites from the Trivandrum Block, southern India: implications for long-lived high-grade metamorphism. *Geological Journal*, **54**, 3041–3059 (with Kadowaki, H.***, He, X.F.** , Santosh, M.** , Takamura, Y.***, Shaji, E.** , Tsutsumi, Y**).
- (2019): Buds of Santonian magmatism associated with Marion Hotspot in southern India. *Geological Journal*, **54**, 3174–3187 (with Shaji, E.***, Santosh, M.** , Li, S.S.** , Manikyamba, C.** , Dhanil Dev, S.G., Panicker, A.G.** , Th, Dhanakumar Singh, Th.** , and Subramanyam, K.S.V.**).
- (2019): Cordierite-bearing granulites from Ihosy, southern Madagascar: Petrology, geochronology and regional correlation of suture zones in Madagascar and India. *Geoscience Frontiers*, **10**, 2007–2019 (with Tang, L.***, Pan, M.***, Takamura, Y.***, Tsutsumi, Y**).
- (2019): Petrology, geochemistry, and zircon U-Pb geochronology of the Zambezi Belt in Zimbabwe: Implications for terrane assembly in southern Africa. *Geoscience Frontiers*, **10**, 2021–2044 (with Kuribara, Y.***, Takamura, Y.***, Tsutsumi, Y**)
- (2019): Extreme thermal metamorphism associated with Gondwana assembly: Evidence from sapphirine-bearing granulites of Rajapalayam, southern India. *GSA Bulletin*, B35378 (with Li, S.S.***, Santosh, M.** , Palin, R.M.** , and Shaji, E**).
- (2019): Neoproterozoic suprasubduction zone

- magmatism in the Sonakhan greenstone belt, Bastar craton, India: Implications for subduction initiation and melt extraction. *Geological Journal*, **54**, 3980–4000 (with Manu Prasanth, M.P.°, Hari, K.R.**, Chalapathi Rao, N.V.**, Santosh, M.**, Hou, G.**, Pandit, D.**)
- (2019): Reply to ‘The complex tale of Mantiqueira and Juiz de Fora: A comment on “Eoarchean to Neoproterozoic crustal evolution of the Mantiqueira and the Juiz de Fora Complexes, SE Brazil: Petrology, geochemistry, zircon U-Pb geochronology and Lu-Hf isotopes” by K. Cutts and C. Lana. *Precambrian Research*, doi: 10.1016/j.precamres.2019.105469 (Kuribara, Y.°, Santosh, M.**, Takamura, Y.**, Costa, A.G.**, and Rosiere, C.A.**).
- Ujii, K. (2019): Chemical origin of tectonic tremor. *Nature Geoscience*, <https://doi.org/10.1038/s41561-019-0481-9>.
- (2019): For how long are pseudotachylytes strong? Rapid alteration of basalt-hosted pseudotachylytes from a shallow subduction complex. *Earth and Planetary Science Letters*, **518**, 108–115, <https://doi.org/10.1016/j.epsl.2019.04.033>. (with Phillips, N.J.** and Rowe, C.D.**)
- (2019): Viscous strengthening followed by slip weakening during frictional melting of chert. *Earth, Planets and Space*, **71**:55, <https://doi.org/10.1186/s40623-019-1035-5>. (with Motohashi, G.*** and Oohashi, K.**)
- (2019): Geochemical analysis unveils frictional melting processes in a subduction zone fault. *Geology*, **47**, 343–346, <https://doi.org/10.1130/G45889.1>. (with Ishikawa, T.**)
- Yagi, Y. (2019): Development of an inversion method to extract information on fault geometry from teleseismic data, *Geophysical Journal International*, **220** (2), 1055–1065 (with Shimizu, K.°, Okuwaki, R., Fukahata, Y**).