

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

Agematsu, S. (2018): A long-forgotten ‘dinosaur’ bone from a museum cabinet, uncovered to be a Japan’s iconic extinct mammal, *Paleoparadoxia* (Desmostylia, Mammalia). *Royal Society Open Science*, **5**, <http://dx.doi.org/10.1098/rsos.172441>. (with Matsui, K.**, Kimura, Y.**, Inose, H.**, Ikeda, K.**, Beatty, B.L.**, Obayashi, H.**, Hirata, T.**, Othor, S.**, Shinmura, T.**, and Sashida, K.)

——— (2018) : Comments on: Testing hypotheses of element loss and instability in the apparatus composition of complex conodonts (Zhang et al.). *Palaeontology*, **61**, 785–792. (with Golding, M.L.** and Orchard, M.J.**)

——— (2018) : Radiolarian fossils from conglomerate layers of the Upper Cretaceous Nakaminato Group exposed along the Pacific coast of Ibaraki Prefecture, central Japan: staged denudation of the mid-Mesozoic accretionary complexes in the Kanto District. *Paleontological Research*, **22**, 307–325. (with Inose, H.**, Furuuchi, K.**, Ito, T.**, and Sashida, K.)

——— (2018) : Recent progress in Paleozoic–Mesozoic microfossil research in deep-sea sediments of Japanese accretionary complexes: current status and future direction on study of radiolarians and conodonts. *Journal of Geological Society of Japan*, **124**, 951–965. (with Kamata, Y., **JE**)

Arakawa, Y. (2019): High silica rhyolites of Nijijima volcano in the northern Izu-Bonin arc, Japan: Petrological and geochemical constraints on magma generation and supply. *Lithos*, **330–331**, 223–237. (with Endo, D.**, Oshika, J.**, Shinmura, T.**, and Ikehata, K.)

Fujino, S. (2018): Stratigraphic evidence of historical and prehistoric tsunamis on the Pacific coast of central Japan: Implications for the variable recur-

rence of tsunamis in the Nankai Trough. *Quaternary Science Reviews*, **201**, 147–161. (with Kimura, H.**, Komatsubara, J.**, Matsumoto, D.**, Namegaya, Y.**, Sawai, Y.**, and Shishikura, M.**)

Hayashi, K. (2019): Mineralogy, fluid inclusions, and sulfur isotopes of the Huanzala deposits, Peru: Early skarn and late polymetallic replacement style mineralizations. *Resource Geology*, **69**, 249–269, [Doi:10.1111/rge.12200](https://doi.org/10.1111/rge.12200) (with Suzuki, Y.****)

——— (2019): Geology, mineralogy, geochemistry, and sulfur isotope constraints on the genesis of the Luanling gold telluride deposit, western Henan province, central China. *Resource Geology*, **69**, 333–350, [Doi:10.1111/rge.12204](https://doi.org/10.1111/rge.12204) (with Chao, W.****, Ye, H.**, Mao, J.**, Geng, Y.**, Bi, M.**, Wang, P.** and Pei, Q.****)

——— (2019): Oxygen isotopic study on the Date-Nagai skarn-type tungsten deposit, northeastern Japan. *Resource Geology*, **69**, 448–459, [Doi:10.1111/rge.12213](https://doi.org/10.1111/rge.12213) (with Oyjungjargal, L.**** and Matsukura, K.****)

Hisada, K. (2018): Sulfur, Strontium, Carbon, and Oxygen Isotopes of Calcium Sulfate Deposits in Late Carboniferous Rocks of the Loei-Wang Saphung (LWS) Area, Loei Province, Thailand. *Geosciences*, **8**, 229. (with Surakotra, N.**, Promkotra, S.**, Charusiri, P.**, Maruoka, T.) [doi:10.3390/geosciences8070229](https://doi.org/10.3390/geosciences8070229)

——— (2019) : Provenance of the Langjiexue Group to the south of the Yarlung-Tsangpo Suture Zone in southeastern Tibet: Insights on the evolution of the Neo-Tethys Ocean in the Late Triassic. *International Geology Review*, **61** (3), 341–360. (with Fang, D. R.****, Wang, G.H.**, Yuan, G.L.**, Han, F.L.**, Li, D.**, Tang, Y.**, Pei, Q.M.****, and Zhang, L.L.**) [doi: 10.1080/00206814.2018.1425924](https://doi.org/10.1080/00206814.2018.1425924)

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

——— (2019): Solid sulfur spherules near fumaroles of Hakone volcano, Japan. *International Journal of Earth Sciences*, **108**, 347–356. (with Date, M.***, Ishibashi, J.**, Kikugawa, G.**, Mannen, K.**)

——— (2019): High-silica rhyolites of Nijijima volcano in the northern Izu-Bonin arc, Japan: Petrological

- and geochemical constraints on magma generation and supply. *Lithos*, **330-331**, 223-237. (with Arakawa, Y.^o, Endo, D.^{**}, Oshika, J.^{**}, Shinmura, T.^{**})
- (2018): Quantitative micro-PIXE analyses of trace elements in sphalerite from hydrothermally-altered sediments. *Annual Report, Tandem Accelerator Center, University of Tsukuba*, **87**, 39-40. (with Kurosawa, M.^o, Hattori, K.^{***}, Sasa, K.^{*}, Ishii, S.^{*})
- Kamata, Y. (2018): The Sukhothai Zone (Permian–Triassic island-arc domain of Southeast Asia) in Northern Laos: Insights from Triassic carbonates and foraminifers. *Gondwana Research*, **61**, 88-99. (with Ueno, K.^{***}, Uno, K.^{**}, Charoentitirat, T.^{**}, Charusiri, P.^{**}, Vilaykham K.^{**}, and Martini, R.^{**})
- (2018) : Permian–Triassic back-arc basin development in response to Paleo-Tethys subduction, Sa Kao–Chanthaburi area in Southeastern Thailand. *Gondwana Research*, **64**, 50-66. (with Hara, H.^{***}, Tokiwa, T.^{**}, Kurihara, T.^{**}, Charoentitirat, T.^{**}, Ngamnithiporn, A.^{**}, Visentnat, K.^{**}, Tominaga, K.^{**}, and Ueno, K.^{**})
- (2018) : Recent progress in Paleozoic–Mesozoic microfossil research in deep-sea sediments of Japanese accretionary complexes: current status and future direction on study of radiolarians and conodonts. *Journal of Geological Society of Japan*, **124**, 951–965. (with Agematsu, S.^o, **JE**)
- Kurosawa, M. (2018): Quantitative micro-PIXE analyses of trace elements in sphalerite from hydrothermally-altered sediments. *Annual Rep., Tandem Accelerator Center, Univ. Tsukuba*, **87**, 39–40. (with Ikehata, K., Hattori, K., Sasa, K.^{*}, and Ishii, S.^{*}).
- (2018) : Preliminary report on micro-PIXE analysis for trace Ni in single fluid inclusions from a mirolitic quartz at Tsushima granite. *Annual Rep., Tandem Accelerator Center, Univ. Tsukuba*, **87**, 41–42. (with Sasa, K.^{*} and Ishii, S.^{*}).
- Kyono, A. (2019): Development of shock dynamics study with synchrotron-based time-resolved X-ray diffraction using Nd:Glass laser system. *Journal of Synchrotron Radiation*, in press. (with Takagi., S.^{***}, Ichiyonagi, K.^{**}, Nozawa, S.^{**}, Kawai, N.^{**}, Fukaya, R.^{**}, Funamori, N.^{**}, and Adachi, S.^{**})
- (2019): Crystal structure change in the grossular-Si-free katoite solid solution: Oxygen position splitting in katoite. *Journal of Mineralogical and Petrological Sciences*, **114**, 189–200. (with Arora, S.^{***})
- (2019): Crystal structure change of katoite, Ca₃Al₂(O₄D₄)₃, with temperature at high pressure. *Physics and Chemistry of Minerals*, **46**, 459–469. (with Kato, M.^{***}, Sano-Furukawa, A.^{**}, Machida, S.^{**}, and Hattori, T.^{**})
- (2019): An in situ Raman study on katoite Ca₃Al₂(O₄H₄)₃ at high pressure. *Journal of Mineralogical and Petrological Sciences*, **114**, 18–25. (with Kato, M.^{****})
- Maruoka, T. (2018) Sulfur, Strontium, Carbon, and Oxygen Isotopes of Calcium Sulfate Deposits in Late Carboniferous Rocks of the Loei-Wang Saphung (LWS) Area, Loei Province, Thailand. *Geosciences* **2018**, **8**, 229, 1–11 (with Surakotra, N.^{****}, Promkotra, S.^{**}, Charusiri, P.^{**}, and Hisada, K.)
- (2018) Neon isotopes in individual presolar low-density graphite grains from the Orgueil meteorite. *Meteoritics and Planetary Science*, **53**, 2327–2342 (with Heck, P.R.^{***}, Jadhav, M.^{**}, Meier, M.^{**}, Amari, S.^{**}, Zinner, E.K.^{**}, Busemann, H.^{**}, Maden, C.^{**}, Gyngard, F.^{**}, Baur, H.^{**}, and Wieler, R.^{**})
- Sashida, K. (2020): Fossil mystirete and its depositional environment of the Miocene Kubota Formation, Hanawa Town, Fukushima Prefecture. *Science Reports of the Fukushima Prefectural Museum*, **34**, p.1-10. (with Suzuki, S.^{****}, Inose, H.^{**}, Agematsu, S., Oishi, M.^{***}, and Fujita, H.^{***}) (**JE**)
- (2019): Upper Triassic limestone clasts of the polymictic limestone conglomerate in the Mino Belt, the northwest Nanjyo Mountains, Fukui Prefecture, central Japan. *Journal of the Geological Society of Japan*, **125**(12), 1–12. (with Nakagawa, T.^{***}, Sano, Y.^{**}, Agematsu, S., and Watanabe, Y.^{**}) (**JE**)
- (2019): Preliminary report of Carboniferous conodonts fossils from the Tsuchikurazawa Limestone, Kotaki, Itoigawa City, Niigata Prefecture, central Japan. *Science Reports of the Niigata University (Geology)*, **34**, 39–47. (with Takahashi, Y.^{***} and Ibaraki, Y.^{**})
- (2019): Radiolarian fossils from the Miocene Tsurushi Formation distributed in Sado island, Niigata Prefecture, Japan. *Bulletin of the Geological Survey of Japan*, **70**, 90–99. (with Kawatani, A.^{****}, Agematsu, S., and Kohno, N.) (**JE**)
- (2018): A long-forgotten ‘dinosaur’ bone from a museum cabinet, uncovered to be a Japan’s iconic extinct mammal, Paleoparadoxia (Desmostylia, Mammalia). *Royal Society Open Science*, **5**, <http://dx.doi.org/10.1098/rsos.172441>. (with Matsui,

- K.***, Kimura, Y.**, Inose, H.**, Agematsu, S., Ikeda, K.**, Beatty, B.L.**, Obayashi, H.**, Hirata, T.**, Othor, S.**, Shinmura, T.**)
- (2018): Radiolarian fossils from conglomerate layers of the Upper Cretaceous Nakaminato Group exposed along the Pacific coast of Ibaraki Prefecture, central Japan: Staged denudation of the mid-Mesozoic accretionary complexes in the Kanto District. *Paleontological Research*, **22**(4), 307–325. (with Inose, H.***, Furuuchi, K.**, Ito, T.**, and Agematsu, S.)
- (2018): Tethyan and non-Tethyan Early Cretaceous radiolarian faunas from West Timor, Indonesia: Paleogeographic and tectonic significance. *Earth Evolution Sciences*, **12**, 3–12. (with Munasri***)
- Tsunogae, T. (2018): Metamorphic phase equilibria modelling and zircon U-Pb geochronology of ultrahigh-temperature cordierite granulites from the Madurai Block, India: implications for hot Gondwana crust. *International Geology Review*, **60**(1), 21–42. (with Tang, L.***, Rajesh, S.**, Santosh, M.**, Pradeepkumar, A.P.**, Tsutsumi, Y.**, and Takamura, Y.***)
- (2018): Marginal facies and compositional equivalents of Bushveld parental sills from the Mopopo Farms Complex layered intrusion, Botswana: Petrogenetic and mineralization implications. *Ore Geology Reviews*, **92**, 506–528. (with Kaavera, J.***, Rajesh, H.M.**, and Belyanin, G.**)
- (2018): Magnetite-apatite deposit from Sri Lanka: Implications on Kiruna-type mineralization associated with ultramafic intrusion and mantle metasomatism. *American Mineralogist*, **103**, 26–38. (with He, X.F.***, Santosh, M.**, and Malaviarachchi, S.P.K.**)
- (2018): Detrital zircon geochronology of the Lutzow-Holm Complex, East Antarctica: Implications for Antarctica - Sri Lanka correlation. *Geoscience Frontiers*, **9**(2), 355–375. (with Takamura, Y.***, Santosh, M.**, and Tsutsumi, Y.**)
- (2018): Petrology, geochemistry and LA-ICP-MS U-Pb geochronology of Paleoproterozoic basement rocks in Bangladesh: An evaluation of calc-alkaline magmatism and implication for Columbia supercontinent amalgamation. *Journal of Asian Earth Sciences*, **157**, 22–39. (with Hossain, I.***, Tsutsumi, Y.**, and Takahashi, K.***)
- (2018): Petrochemistry and zircon U-Pb geochronology of granitic rocks in the Wang Nam Khiao area, Nakhon Ratchasima, Thailand: Implications for petrogenesis and tectonic setting. *Journal of Asian Earth Sciences*, **157**, 92–118. (with Fanka, A.***, Daorerk, V.**, Tsutsumi, Y.**, Takamura, Y.***, and Sutthirat, C.**)
- (2018): Paleoproterozoic (ca. 1.8 Ga) arc magmatism in the Lutzow-Holm Complex, East Antarctica: implications for crustal growth and terrane assembly in erstwhile Gondwana fragments. *Journal of Asian Earth Sciences*, **157**, 245–268. (with Takahashi, K.***, Santosh, M.**, Takamura, Y.***, and Tsutsumi, Y.**)
- (2018): Cordierite-bearing granulites from Ihosy, southern Madagascar: Petrology, geochronology and regional correlation of suture zones in Madagascar and India. *Geoscience Frontiers*, doi: 10.1016/j.gsf.2018.05.014 (with Tang, L.***, Pan, M.***, Takamura, Y.***, and Tsutsumi, Y.**)
- (2018): Petrology, geochemistry, and zircon U-Pb geochronology of the Zambezi Belt in Zimbabwe: Implications for terrane assembly in southern Africa. *Geoscience Frontiers*, doi: 10.1016/j.gsf.2018.05.019. (with Kuribara, Y.***, Takamura, Y.***, and Tsutsumi, Y.**)
- (2018): Fluid-induced high-temperature metasomatism at Rundvagshetta in the Lutzow-Holm Complex, East Antarctica: Implications for the role of brine during granulite formation. *Geoscience Frontiers*, **9**(5), 1309–1323. (with Takahashi, K.*** and Ugwuonah, E.N.***)
- (2018): Long-lived metamorphic *P-T-t* evolution of the Highland Complex, Sri Lanka: insights from mafic granulites. *Precambrian Research*, **316**, 227–243. (with He, X.F.***, Hand, M.**, Santosh, M.**, Kelsey, D.E.**, and Morrissey, L.J.**)
- (2018): Complexity of characterizing granulites in high-grade terranes: An example from the Neoproterozoic Verbaard granulite, Limpopo complex, Southern Africa. *Lithos*, doi: 10.1016/j.lithos.2018.08.019. (with Rajesh, H.M.***, Safonov, O.**, Basupi, T.**, and Belyanin, G.**)
- (2018): Neoproterozoic suprasubduction zone magmatism in the Sonakhan greenstone belt, Bastar craton, India: Implications for subduction initiation and melt extraction. *Geological Journal*, doi: 10.1002/gj.3398. (with Manu Prasanth, M.P.***, Hari, K.R.**, Chalapathi Rao, N.V.**, Santosh, M.**, Hou, G.**, and Pandit, D.**)
- (2018): Buds of Santonian magmatism associated with Marion Hotspot in southern India. *Geological Journal*, doi: 10.1002/gj.3405. (with Shaji, E.***, Santosh, M.**, Li, S.S.**, Manikyamba,

- C.** , Dhanil Dev, S.G.** , Panicker, A.G.** , Dhanakumar Singh, Th.** , and Subramanyam, K.S.V.**)
- (2018): 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.**)
- (2018): Pressure-temperature-time evolution of ultrahigh-temperature granulites from the Trivandrum Block, southern India: implications for long-lived high-grade metamorphism. *Geological Journal*, doi: 10.1002/gj.3422. (with Kadowaki, H.°***, He, X.F.** , Santosh, M.** , Takamura, Y.** , Shaji, E.** , and Tsutsumi, Y.**)
- 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. (2018): Characteristics of foreshock activity inferred from the JMA earthquake catalog. *Earth, Planets and Space*, **70**, 90. (with Tamaribuchi, K.°** , Enescu, B.** , and Hirano, S.**)
- (2019): Backprojection to image slip. *Geophys. J. Int.*, **216**, 1529-1537. (with Okuwaki, R.°***, Kasahara, A.** , Hirano, S.** , and Fukahata, Y.**)