

## 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. (2017): Reconstruction of the multielement apparatus of the earliest Triassic conodont, *Hindeodus parvus*, using synchrotron radiation X-ray micro-tomography. *Journal of Paleontology*, **91**, 1220–1227. (with Uesugi, K.\*\* , Sano, H.\*\* , and Sashida, K.)

——— (2017): Dinosaur footprint assemblage from the Lower Cretaceous Khok Kruat Formation, Khorat Group, northeastern Thailand. *Geoscience Frontiers*, **8**, 1479–1493. (with Koza, S.\*\*\* , Sardsud, A.\*\* , Saesaengseerung, D.\*\* , Pothychaiya, C.\*\* , and Sashida, K.)

——— (2017): Morphology, systematics and paleoecology of *Shikamaia*, aberrant Permian bivalves (Alatoconchidae: Ambonychioidea) from Japan. *Paleontological Research*, **21**, 358–379. (with Asato, K.\*\*\* , Kase, T.\*\* , Ono, T.\*\* , and Sashida, K.)

——— (2017): Lowermost Devonian conodonts from the Setul Group, northwestern Peninsular Malaysia. *Journal of Geological Society of Japan*, **123**, 989–997. (with Takahashi, Y.\*\*\* , Mat, N.\*\* , and Sashida, K.)

——— (2017): Triassic and Jurassic radiolarian fossils from siliceous rock pebbles contained in the Nijimazaki Conglomerate Member of the upper Pliocene Shirahama Formation, Chikura Group, Central Japan. *Journal of Geological Society of Japan*, **123**, 969–976. (with Utagawa, F.\*\*\* , Sashida, K., Koza, 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.). *Paleoaeontology*, **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.\*\* , 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.)

Arakawa, Y. (2017): Two types of gabbroic xenoliths from rhyolite dominated Nijijima volcano, northern part of Izu-Bonin arc: petrological and geochemical constraints. *Open Geosciences*, **9**, 1–12. (with Endo, D.\*\* , Ikehata, K.\* , Shinmura, T.\*\* , Oshika, J.\*\* , Mori, Y.\*\*)

Hayashi, K. (2018): Nature and genesis of the Xiaobeigou fluorite deposit, Inner Mongolia, northeast China: Evidence from fluid inclusions and stable isotopes. *Resource Geology*, [Doi:10.1111/rge.12191](https://doi.org/10.1111/rge.12191) (with Pei, Q.\*\*\* , Zhang, S.\*\* , Wang, L.\*\* , Cao, H.\*\* , Zhao Y.\*\* , Hu, X.\*\* , Song, K.\*\* and Chao, W.\*\*\*)

Hisada, K. (2017): Petrology and alteration of calcium sulphate deposits in Late Paleozoic Rocks of Wang Saphung Area, Loei Province, Thailand. *Journal of Earth Science & Climatic Change*, **8** (1) (Nusara S.\*\*\* , Punya C.\*\* , and Sarunya P.\*\* ) [doi:10.4172/2157-7617.1000384](https://doi.org/10.4172/2157-7617.1000384)

——— (2017): Middle Triassic foraminifers from northern Laos and their paleobiogeographic significance. *Geobios* **50**, p.441–451. (Miyahigashi , A.\*\*\* , Hara , H\*\*., Nakano, N.\*\* , Charoentitirat , T.\*\* , Charusiri, P.\*\* , Khamphavong, K.\*\* , Martini, R.\*\* , and Ueno, K.\*\*)

——— (2017): Geomorphic criteria for distinguishing and locating abandoned channels from upstream

- part of Mun River, Khorat Plateau, northeastern Thailand. *Environmental Earth Science* **76**:331. (Nimnate, P. °\*\*, Choowong, M. \*\* and Thitima-korn, T. \*\*) DOI 10.1007/s12665-017-6657-y
- (2017): Revised version of the Cenozoic Collision along the Zagros Orogen, Insights from Cr-spinel and Sandstone Modal Analyses. *Scientific Reports*. (Parisa Gholami Zadeh°\*\*, Mohammad Hossein Adabi\*\*, Mahboubeh Hosseini-Barzi, Abbas Sadeghi \*\* and Mohammad Reza Ghassemi\*\*) DOI:10.1038/s41598-017-11042-1
- Ikehata, K. (2017): Micro-PIXE analyses of pyrite in sea-floor sediments. *Annual Report, Tandem Accelerator Center, University of Tsukuba*, **86**, 38-40. (with Kurosawa, M.°, Hattori, K.\*\*\*, Sasa, K.\*, Ishii, S.\*)
- (2018): Results of field survey on fumarolic area in Aogashima (April 19-21, 2016). *Report of Coordinating Committee for Prediction of Volcanic Eruption*, **124**, 202-207. (with Takano, Y.\*\*\*). *JE*
- Komuro, K. (2017): Chalcanthite deposition on tuffaceous rocks at Yoshimi Hills, Saitama Prefecture, Japan. *Shigen-Chishitsu*, **67**, 103-110. (with Naoi, R. °\*\* and Nakata, M.\*\*). *JE*
- Kurosawa, M.(2017): Development of the microbeam PIXE system for additive light elements in structural materials. *Nuclear Instruments and Methods in Physics*, B404, 92-95. (with Yamazaki, A.\*, Sasa, K.\* and Ishii, S.\*).
- (2017): Micro-PIXE analyses of pyrite in sea-floor sediments. *Annual Reports of the., Tandem Accelerator Center, University of Tsukuba*, **86**, 38-40. (with Hattori, K., Ikehata, K., Sasa, K.\*, and Ishii, S.\*).
- Kyono, A. (2018): Formation of Fe(III)-oxides on the magnetite surfaces in the low-temperature hydrothermal reaction. *Journal of Mineralogical and Petrological Sciences*, **113**, 310-315. (with Tamura, T.°, Sugaya, R. \*)
- (2018) A reply to comment on “An experimental study of symmetry lowering of analcime”. *Physics and Chemistry of Minerals*, **45**, 395-396.
- (2018) An experimental study of symmetry lowering of analcime. *Physics and Chemistry of Minerals*, **45**, 381-390. (with Sugano, N. °)
- (2018) High-pressure single-crystal X-ray diffraction study on minerals related to the Earth’s mantle: pressure-induced phase transformation of spinel minerals with Jahn–Teller effect. *Journal of the Crystallographic Society of Japan*, **60**, 32-39. *JE*
- Maruoka, T. (2017): Reply to comment by Wang et al. on “Paleoproterozoic meta-carbonates from the central segment of the Trans-North China Orogen: Zircon U-Pb geochronology, geochemistry, and carbon and oxygen isotopes” by Tang et al., 2016. *Precambrian Research* **284**, 14–29 (with Li T. o\*\*\*, Santosh M.\*\*, Tsunogae T.\*)
- (2017): Characterization of sulfate mineral deposits in central Thailand. *Island Arc*, **26**, e12175 (with Kuroda J. o\*\*, Hara H.\*\*, Ueno K.\*\*, Charoentitirat T.\*\*, Miyazaki T.\*\*, Miyahigashi A.\*\*, Lugli S.\*\*)
- (2017): Tritium and iodine-129 concentrations in precipitation at Tsukuba, Japan, after the Fukushima Daiichi Nuclear Power Plant accident. *Geochemical Journal* **51**, 449-455 (with Kawamoto, T.\*\*, Ohno T.\*\*, Muramatsu Y.\*\*, Matsuzaki H.\*\*, Matsumoto T.\*\* and Aggarwal P.\*\*)
- Sashida, K. (2017): Reconstruction of the multielement apparatus of the earliest Triassic conodont, *Hindeodus parvus*, using synchrotron radiation X-ray micro-tomography. *Journal of Paleontology*, **91**, 1220–1227. (with Agematsu, S°. Uesugi, K.\*\*, and Sano, H.\*\*)
- (2017): Dinosaur footprint assemblage from the Lower Cretaceous Khok Kruat Formation, Khorat Group, northeastern Thailand. *Geoscience Frontiers*, **8**, 1479–1493. (with Koza, S.°\*\*\*, Sardud, A.\*\*, Saesaengseerung, D.\*\*, Pothychaiya, C.\*\*, and Agematsu, S.)
- (2017): Morphology, Systematics and Palaeoecology of *Shikamaia*, Aberrant Permian Bivalves (Alatoconchidae: Ambonychioidea) from Japan. *Paleontological Research*, **21**, 358–379. (with Asato, K.°\*\*\*, Kase, T.\*\*, Ono, T.\*\*, and Agematsu, S.)
- (2017): Lowermost Devonian conodonts from the Setul Group, northwestern Peninsular Malaysia. *Journal of Geological Society of Japan*, **123**, 989–997. (with Takahashi, Y.°\*\*\*, Agematsu, S., and Mat, N.\*\*)
- (2017): Triassic and Jurassic radiolarian fossils from siliceous rock pebbles contained in the Nojimazaki Conglomerate Member of the upper Pliocene Shirahama Formation, Chikura Group, Central Japan. *Journal of Geological Society of Japan*, **123**, 969–976. (with Utagawa, F. °\*\*, Agematsu, S. and Koza, S.\*\*). *JE*
- (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<sup>o\*\*</sup>)
- (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. <sup>o\*\*</sup>, Kimura, Y.<sup>\*\*</sup>, Inose, H.<sup>\*\*</sup>, Ikeda, K.<sup>\*\*</sup>, Beatty, B.L. <sup>\*\*</sup>, Obayashi, H.<sup>\*\*</sup>, Hirata, T.<sup>\*\*</sup>, Othor, S.<sup>\*\*</sup>, Shinmura, T.<sup>\*\*</sup>, and Agematsu, S.)
- (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. <sup>o\*\*</sup>, Furuuchi, K.<sup>\*\*</sup>, Ito, T.<sup>\*\*</sup>, Agematsu, S.)
- Tsunogae, T. (2017): Metamorphic *P-T* evolution of garnet-staurolite-biotite pelitic schist and amphibolite from Keffi, north-central Nigeria: Geothermobarometry, mineral equilibrium modeling and *P-T* path. *Journal of African Earth Sciences*, **129**, 1-16. (with Ugwuonah, E.N. <sup>\*\*\*o</sup>, Obiora, S.C. <sup>\*</sup>)
- (2017): Neoproterozoic arc magmatism in the southern Madurai Block, India: Subduction, reamination, continental outbuilding, and the growth of Gondwana. *Gondwana Research*, **45**, 1-42. (with Santosh, M. <sup>\*\*o</sup>, Hu, C.-N. <sup>\*\*</sup>, He, X.-F. <sup>\*\*</sup>, Li, S.-S. <sup>\*\*</sup>, Shaji, E. <sup>\*\*</sup>, Indu, G. <sup>\*\*</sup>)
- (2017): Petrogenesis of incipient charnockite from Ginikarawa in Sri Lanka: new insights from phase equilibrium modeling. *Journal of the Geological Society of Sri Lanka*, **18**, 55-75. (with Endo, T. <sup>\*\*\*o</sup>, Malaviarachchi, S.P.K. <sup>\*\*</sup>)
- (2017): Petrogenesis of incipient charnockite in the Ikalamavony sub-domain, south-central Madagascar: New insights from phase equilibrium modeling. *Lithos*, **282-283**, 431-446. (with Endo, T. <sup>\*\*\*o</sup>, Santosh, M. <sup>\*\*</sup>, Shaji, E. <sup>\*\*</sup>, Rambelosen, R.A. <sup>\*\*</sup>)
- (2017): Mineralogy of Gondwana Sequence in Barapukuria Formation, Bangladesh. *Earth Evolution Sciences*, **11**, 3-22. (with Hossain, I. <sup>\*\*o</sup>, Md. Sultan-Ul-Islam <sup>\*\*</sup>, Roy, R.R.<sup>\*\*</sup>, Talukder, S.<sup>\*\*</sup>)
- (2017): Reply to comment by Wang et al. on “Paleoproterozoic meta-carbonates from the central segment of the Trans-North China Orogen: Zircon U-Pb geochronology, geochemistry, and carbon and oxygen isotopes” by Tang et al., 2016, *Precambrian Research* 284: 14-29. *Precambrian Research*, **294**, 350-353. (with Tang, L. <sup>\*\*\*o</sup>, Santosh, M. <sup>\*\*</sup>, Maruoka, T. <sup>\*</sup>)
- (2017): Multiple magmatism in an evolving suprasubduction zone mantle wedge: The case of the composite mafic-ultramafic complex of Gaositai, North China Craton. *Lithos*, **284-285**, 525-544. (with Yang, F. <sup>\*\*o</sup>, Santosh, M. <sup>\*\*</sup>, Tang, L. <sup>\*\*\*</sup>, Teng, X. <sup>\*\*</sup>)
- (2017): Detrital zircon geochronology of quartzites from the southern Madurai Block, India: implications for Gondwana reconstruction. *Geoscience Frontiers*, **8**, 851-867. (Li, S.S. <sup>\*\*o</sup>, Santosh, M. <sup>\*\*</sup>, Indu, G. <sup>\*\*</sup>, Shaji, E. <sup>\*\*</sup>)
- (2017): Carbonic fluid inclusions in a garnet-pyroxene granulite from Austhove in the Lutzow-Holm Complex, East Antarctica: Implications for a decompressional *P-T* path. *Journal of Mineralogical and Petrological Sciences*, **112**, 132-137. (with Takahashi, K. <sup>\*\*\*o</sup>)
- (2017): Petrology, phase equilibria modeling and zircon U-Pb geochronology of Paleoproterozoic mafic granulites from the Fuping Complex, North China Craton. *Journal of Metamorphic Geology*, **35**, 517-540. (with Tang, L. <sup>\*\*\*o</sup>, Santosh, M. <sup>\*\*</sup>, Koizumi, T. <sup>\*\*\*</sup>, Hu, X.-K. <sup>\*\*</sup>, Teng, X.-M. <sup>\*\*</sup>)
- (2017): Magma chamber processes in Early Cretaceous Shangzhuang layered mafic intrusion from the North China Craton. *Geological Journal*, **52**, 851-872. (with Teng, X.M. <sup>\*\*\*o</sup>, Santosh, M. <sup>\*\*</sup>, Tang, L. <sup>\*\*\*</sup>)
- (2017): Metamorphic phase equilibria modeling and zircon U-Pb geochronology of ultrahigh-temperature cordierite granulites from the Madurai Block, India: implications for hot Gondwana crust. *International Geology Review*, 10.1080/00206814.2017.1313711. (with Tang, L. <sup>\*\*\*o</sup>, Rajesh, S. <sup>\*\*</sup>, Santosh, M. <sup>\*\*</sup>, Pradeepkumar, A.P. <sup>\*\*</sup>, Tsutsumi, Y. <sup>\*\*</sup>, Takamura, Y. <sup>\*\*\*</sup>)
- (2017): Crust-mantle interaction and craton destruction: evidence from Late Mesozoic plutons in the North China Craton. *Journal of the Geological Society of London*, 10.1144/jgs2017-007. (with He, X.F. <sup>\*\*o</sup>, Kobayashi, A. <sup>\*\*\*</sup>, Santosh, M. <sup>\*\*</sup>)
- (2017): 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*, doi: 10.1016/j.jseaes.2017.07.053. (with Takahashi, K. <sup>\*\*\*o</sup>, Santosh, M. <sup>\*\*</sup>, Takamura, Y. <sup>\*\*\*</sup>, Tsutsumi, Y. <sup>\*</sup>)
- (2017): Petrochemistry and zircon U-Pb geochronology of granitic rocks in the Wang Nam Kh-

- iao area, Nakhon Ratchasima, Thailand: Implications for petrogenesis and tectonic setting. *Ibid.*, doi: 10.1016/j.jseaes.2017.08.025. (with Fanka, A. \*\*, Daorerk, V. \*\*, Tsutsumi, Y. \*, Takamura, Y. \*\*\*, Sutthirat, C. \*\*)
- (2017): Detrital zircon geochronology of the Lutzow-Holm Complex, East Antarctica: Implications for Antarctica - Sri Lanka correlation. *Geoscience Frontiers*, doi: 10.1016/j.gsf.2017.08.006. (with Takamura, Y. \*\*\*, Santosh, M. \*\*, Tsutsumi, Y. \*)
- (2017): 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*, doi: 10.1016/j.jseaes.2017.09.016. (with Hossain, I. \*\*, Tsutsumi, Y. \*, Takahashi, K. \*\*\*)
- (2017): Fluid-induced high-temperature metasomatism at Rundvagshetta in the Lutzow-Holm Complex, East Antarctica: Implications for the role of brine fluid during granulite formation. *Geoscience Frontiers*, doi: 10.1016/j.gsf.2017.11.010. (with Takahashi, K. \*\*\*, Ugwuonah, E.N. \*\*\*)
- (2017): Marginal facies and compositional equivalents of Bushveld parental sills from the Molopo Farms Complex layered intrusion, Botswana: Petrogenetic and mineralization implications. *Ore Geology Reviews*, doi: 10.1016/j.oregeorev.2017.12.001. (with Kaavera, J. \*\*, Rajesh, H.M. \*\*, Belyanin, G. \*\*)
- Ujii, K. (2018): An explanation of episodic tremor and slow slip constrained by crack-seal veins and viscous shear in subduction mélange, *Geophysical Research Letters*, **45**, 5371–5379, <https://doi.org/10.1029/2018GL078374>. (with H. Saishu\*\*, A. Fagereng\*\*, N. Nishiyama\*\*\*, M. Otsubo\*\*, H. Masuyama\*\*\*, and H. Kagi\*\*)
- (2018): Achievements of the rapid response drilling (IODP Expedition 343: J-FAST) after the 2011 off the Pacific coast of Tohoku Earthquakes, *Journal of Geological Society of Japan*, **124**, 67–76. (with Y. Yamada\*\*\*, J. Mor\*\*\*i, W. Lin\*\*\*, and S. Kodaira\*\*\*)
- Yagi, Y. (2017): Rupture process during the Mw 8.1 2017 Chiapas Mexico earthquake: Shallow intraplate normal faulting by slab bending, *Geophysical Research Letters* **44**, 11816-11823. (with Okuwaki, R. ° \*\*\*)
- (2017): Role of geometric barriers in irregular-rupture evolution during the 2008 Wenchuan earthquake, *Geophysical Journal International*, **212**, 1657-1664. (with Okuwaki, R. ° \*\*\*)
- (2017): Triggering and decay characteristics of dynamically activated seismicity in Southwest Japan, *Geophysical Journal International*, **212**, 1010-1021. (with Opris, A. ° \*\*\*, Enescu, B. \*\*, Zhuang, J. \*\*)
- (2017): Fast crustal deformation computing method for multiple computations accelerated by a graphics processing unit cluster, *Geophysical Journal International*, **210**, 787-800. (with Yamaguchi, T. ° \*\*, Ichimura, T. \*\*, Agata, R. \*\*, Hori, T. \*\*, Hiro, M. \*\*)
- (2017): Dependence of seismic and radiated energy on shorter wavelength components, *Geophysical Journal International*, **209**, 1585-1592. (Hirano, S. ° \*\*)