

# 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. (2016): Latest Jurassic to Cretaceous radiolarians from the Miocene Chichibumachi Formation, Akahira Group, central Japan. *Journal of Geological Society of Japan*, **122**, 261–266. (with Matsui, K.\*\*\* and Sashida, K., **JE**)
- (2016): *Nipponomaria*, a new pleuromarioid-gastropod genus (Mollusca) from the Permian Akasaka Limestone, central Japan. *Paleontological Research*, **20**, 385–393. (with Asato, K.\*\*\*\*, Kase, T.\*\*, Ono, T.\*\*, and 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 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 Kozu, S.\*\*\*\*, Sardrud, A.\*\*, Saesaengseerung, D.\*\*, Pothychaiya, C.\*\*, and Sashida, K.)
- (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 Sashida, K.)
- Anma, R. (2016) The Kuradawe granitic pegmatite from the Mawat ophiolite, Northern Iraq: Anatomy, mineralogy, geochemistry, and petrogenesis. *The Canadian Mineralogist*, **54**, 989–1019 (with Mohammad, Y. O.\*\*, Kareem, H. J.\*\*, Cornell, D. H.\*\*)
- (2016) Age and petrogenesis of Na-rich felsic rocks in western Iran: evidence for closure of the southern branch of the Neo-Tethys in the Late Cretaceous. *Tectonophysics*, **671**, 151–172 (with Nouri, F.\*\*, Azizi, H.\*\*, Golonla, J.\*\*, Asahara, Y.\*\*, Orihashi, Y.\*\*, Yamamoto, K.\*\*, Tsuboi, M.\*\*)

- Arakawa, Y. (2016): Eruptive history of Sundoro volcano, central Java, Indonesia in the last 34ka. *Bulletin of Volcanology*, **78:81** (DOI 10.1007/s00445-016-1079-3). (with Prambada, O.\*\*, Ikehata, K.\*\*, Furukawa, R.\*\*, Takada, A.\*\*, Wibowo, H.E.\*\*, Nakagawa, M.\*\*, Kartadinata, M.N.\*\*)
- (2016): Stratigraphy and petrological characteristics of the Benri subunit of the Aso-4 pyroclastic flow deposits in the northwestern part of the Aso volcano, Japan. *Bulletin of the Volcanological Society of Japan*, **61**, 429–448. (with Seki, T.\*\*\*, Shinmura, T.\*\*, Oshika, J.\*\*, Mori, Y.\*\*, Ikehata, K.\*\*)
- (2016): Anorthite megacrysts within the basaltic andesite of Hoki-yadake volcano, central Japan: geochemical and mineralogical constraints for their generation. *Proceed. Goldschmidt Intern. Conference*, p.143. (with Azuhata, M.\*\*, Matsui, T.\*\*)
- (2017): Two types of gabbroic xenoliths from rhyolite dominated Nijima 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.\*\*)
- Fujino, S. (2016): Large-scale erosion and overbank deposition caused by the July 2013 flood of the Abu River, Yamaguchi City, Japan. *Island Arc*, **25**, 386–399. (with Yamada, M. \*\*\*\*, Goff, J. \*\*, Chagué-Goff, J. \*\*)
- (2016): Erosion and sedimentation during the September 2015 flooding of the Kinu River, central Japan. *Scientific Reports*, **6**, doi:10.1038/srep34168. (with Matsumoto, D. \*\*, Sawai, Y. \*\*, Yamada, M.\*\*\*, Namegaya, Y.\*\*, Shinozaki, T. \*\*, Takeda, D. \*\*, Tanigawa, K. \*\*, Nakamura, A. \*\* and Pilarczyk, J.E. \*\*)
- Hisada, K. (2016): Geology of the northern Chichibu belt in the Kanto Mountains, central Japan. *Jour. Geol. Soc. Japan*, **122**, 325–342 (with Tominaga, K.\*\*\*, Sekine, K.\*\*, Matsuoka, K. \*\* and Kato, K.\*\*)
- (2016): Geology Based Culture? In Tsuneki, A., Yamada, S., and Hisada, K. (eds) *Ancient West Asian Civilization-Geoenvironment and Society in the Pre-Islamic Middle East*, Springer, p.15–38. ISBN 978-981-10-0554-1
- Hayashi, K. (2017): Permo-Triassic granitoids of the Xing'an-Mongolia segment of the Central Asian

- Orogenic Belt, Northeast China: age, composition, and tectonic implications. *International Geology Review*. Doi:10.1080/00206814.2017.1377121 (with Pei, Q.\*\*\*, Zhang, S.\*\*\*, Cao, H.\*\*\*, Li, D.\*\*\*, Tang, L.\*\*\*, Hu, X.\*\*\*, Li, H.\*\* and Fang, D.\*\*)
- Ikehata, K. (2016): Hydrothermal native copper in ocean island alkali basalt from the Mineoka Belt, Boso Peninsula, central Japan. *Economic Geology*, **111**, 783-794. (with Chida, K.\*\*\*, Tsunogae, T., Bornhorst, T.J.\*\*)
- (2016): Sulfur isotopic characteristics of volcanic products from the September 2014 Mount Ontake eruption, Japan. *Earth, Planets and Space*, **68**, doi: <https://doi.org/10.1186/s40623-016-0496-z>. (with Maruoka, T.)
- (2016): Stratigraphy and Petrological Characteristics of the Benri Subunit of the Aso-4 Pyroclastic Flow Deposits in the Northwestern Part of the Aso Volcano, Japan. *Bulletin of the Volcanological Society of Japan*, **61**, 429-448. (with Seki, T.\*\*\*, Arakawa, Y., Shinmura, T.\*\*\*, Oshika, J.\*\*\*, Mori, Y.\*\*). **JE**
- (2016): Eruptive history of Sundoro volcano, Central Java, Indonesia since 34 ka. *Bulletin of Volcanology*, **78**, doi: <https://doi.org/10.1007/s00445-016-1079-3>. (with Prambada, O.\*\*\*, Arakawa, Y., Furukawa, R.\*\*\*, Takada, A.\*\*\*, Wibowo, H.E.\*\*\*, Nakagawa, M.\*\*\*, Kartadinata, M.N.\*\*)
- (2017): Two types of gabbroic xenoliths from rhyolite dominated Nijima volcano, northern part of Izu-Bonin arc: petrological and geochemical constraints. *Open Geosciences*, **1**, doi: <https://doi.org/10.1515/geo-2017-0001>. (with Arakawa, Y.°, Endo, D.\*\*\*, Oshika, J.\*\*\*, Shinmura, T.\*\*\*, Mori, Y.\*\*)
- Kamata, Y. (2016): Geological significance of the discovery of Middle Triassic (Ladinian) radiolarians from the Hong Hoi Formation of the Lampang Group, Sukhothai Zone, northern Thailand. *Revue de Micropaléontologie*, **59**, 347-358. (with Ueno, K.\*\*, Miyahigashi, A.\*\*, Hara H.\*\*, Charoentitirat, T.\*\*, and Charsiri \*\*)
- Komuro, K. (2016): Experiments on the hydrothermal reaction of ferberite with CaCl<sub>2</sub> solution. *Shigen-Chisitsu*, **66**, 81-88. (with Tamura, I.o\*\*, and Nakata, M.\*\*\*) **JE**
- (2017): (Au, Ag)Te<sub>2</sub> minerals from epithermal gold deposits in Japan. *Resource Geology*, **67**, 22-34. (with Nakata, M.\*\*)
- Kurosawa, M. (2016): Micro-PIXE analyses of melt inclusions in olivine crystals from Allende meteorite. *Ann. Rep., Tandem Accelerator Center, Univ. Tsukuba*, **85**, 22-24. (with Miyato, D., Sasa, K.\* and Ishii, S.\*).
- (2016): PIXE and microthermometric analyses of fluid inclusions in hydrothermal quartz from the 2.2 Ga Ongeluk Formation, South Africa: implications for ancient seawater salinity. *Precam. Res.*, **286**, 337-351. (with Saito, T.\*\*\*, Shibuya, T.\*\*\*, Komiya, T.\*\*\*, Kitajima, K.\*\*\*, Yamamoto, S.\*\*, Nishizawa, M.\*\*\*, Ueno, Y.\*\*\*, and Maruyama, S.\*\*).
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- (2017): Pressure induced crystallization of biogenic hydrous amorphous silica. *Journal of Mineralogical and Petrological Sciences*, **112**, 324-335. (with Yokooji, M.°, Chiba, T.\*\*\*, Tamura, T.°, Tuji, A.\*\*)
- Maruoka, T. (2016): Effect of oxidation state on Bi mineral speciation in oxidized and reduced granitoids from the Uetsu region, NE Japan. *Mineralium Deposita*, **51**, 603-618 (with Izumino Y. °\*\*, Nakashima, K. \*\*)
- (2016): Paleoproterozoic meta-carbonates from the central segment of the Trans-North China Orogen: Zircon U-Pb geochronology, geochemistry, and carbon and oxygen isotopes. *Precambrian Research*, **284**, 14-29 (with Li T. °\*\*\*, Santosh M.\*\*\*, Tsunogae T.\*)
- (2016): Paleoclimatic Changes and Human Cultural Evolution in West Asia. In *Ancient West Asian Civilization: Geoenvironment and Society in the Pre-Islamic Middle East* (eds Tsuneki, A., Yamada, S., Hisada, K.), pp. 51-63 (with Anma R.°)
- (2016): Sulfur isotopic characteristics of volcanic products from the September 2014 Mount Ontake eruption, Japan, *Earth, Planets and Space*, **68**, 116. (with Ikehata, K.°)
- Sashida, K. (2016): Latest Jurassic to Cretaceous radiolarians from the Miocene Chichibumachi Formation, Akahira Group, central Japan. *Journal of Geological Society of Japan*, **122**, 261-266. (with Matsui, K.°\*\* and Agematsu, S., **JE**)
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- (2017): Reconstruction of the multielement apparatus of the earliest Triassic conodont, *Hindeodus parvus*, using synchrotron radiation X-ray micro-to-

- mography. *Journal of Paleontology*, **91**, 1220–1227. (with Agematsu, S.<sup>o</sup>, Uesugi, K.<sup>\*\*</sup>, Sano, H.<sup>\*\*</sup>)
- (2017): Dinosaur footprint assemblage from the Lower Cretaceous Khok Kruat Formation, Khorat Group, northeastern Thailand. *Geoscience Frontiers*, **8**, 1479–1493. (with Kozu, S.<sup>o\*\*\*</sup>, Sardsub, A.<sup>\*\*</sup>, Saesaengseerung, D.<sup>\*\*</sup>, Pothychaiya, C.<sup>\*\*</sup>, and Agematsu, S.)
- (2017): Habitat preference of the enigmatic Miocene tethythere *Desmostylus* and *Paleoparadoxia* (Desmostylia; Mammalia) inferred from the depositional depth of fossil occurrences in Northwestern Pacific realms. *Paleogeography, Palaeoclimatology, Palaeoecology*, **471**, 254–265. (with Matsui, K.<sup>o\*\*</sup>, Agematsu, S., and Kohno, N.)
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- Tsunogae, T. (2016): Oldest rocks from Peninsular India: Evidence for Hadean to Neoarchean crustal evolution. *Gondwana Research*, **29**, 105–135. (with Santosh, M.<sup>\*\*o</sup>, Yang, Q.-Y.<sup>\*\*</sup>, Shaji, E.<sup>\*\*</sup>, Ram Mohan, M.<sup>\*\*</sup>, Satyanarayanan, M.<sup>\*\*</sup>)
- (2016): Zircon U-Pb age, Lu-Hf isotope, mineral chemistry and geochemistry of Sundamalai peralkaline pluton from the Salem Block, southern India: implications for Cryogenian adakite-like magmatism in an aborted-rift. *Journal of Asian Earth Sciences*, **115**, 321–344. (with Renjith, M.L.<sup>\*\*o</sup>, Santosh, M.<sup>\*\*</sup>, Tang, L.<sup>\*\*\*</sup>, Satyanarayana, M.<sup>\*\*</sup>, Korakoppa, M.M.<sup>\*\*</sup>, Subba Rao, D.V.<sup>\*\*</sup>, Krishna, A.K.<sup>\*\*</sup>, Charan, S.N.<sup>\*\*</sup>)
- (2016): Early Paleozoic tectonic evolution of the North Qinling orogenic belt: Evidence from geochemistry, phase equilibrium modeling and geochronology of metamorphosed mafic rocks from the Songshugou ophiolite. *Gondwana Research*, **30**, 48–64. (with Tang, L.<sup>\*\*\*o</sup>, Santosh, M.<sup>\*\*</sup>, Dong, Y.<sup>\*\*</sup>, Zhang, S.<sup>\*\*</sup>, Cao, H., <sup>\*\*</sup>)
- (2016): Late Neoarchean arc magmatism and crustal growth associated with microblock amalgamation in the North China Craton: Evidence from the Fuping Complex. *Lithos*, **248–251**, 324–338. (with Tang, L.<sup>\*\*\*o</sup>, Santosh, M.<sup>\*\*</sup>, Teng, X.M.<sup>\*\*</sup>)
- (2016): Early to late Neoproterozoic magmatism and magma mixing - mingling in Sri Lanka: implications for convergent margin processes during Gondwana assembly. *Gondwana Research*, **32**, 151–180. (with He, X.-F.<sup>\*\*\*o</sup>, Santosh, M.<sup>\*\*</sup>, Malaviarachchi, S.P.K.<sup>\*\*</sup>)
- (2016): Hydrothermal native copper in ocean island alkali basalt from the Mineoka Belt, Boso Peninsula, central Japan. *Economic Geology*, **111**, 783–794. (with Ikehata, K.<sup>o</sup>, Chida, K.<sup>\*\*\*</sup>, Bornhorst, T.J.<sup>\*\*</sup>)
- (2016): The Ezhimala igneous complex, southern India: possible imprint of Late Cretaceous magmatism within rift setting associated with India-Madagascar separation. *Journal of Asian Earth Sciences*, **121**, 56–71. (with Ram Mohan, M.<sup>\*\*o</sup>, Shaji, E.<sup>\*\*</sup>, Satyanarayanan, M.<sup>\*\*</sup>, Santosh, M.<sup>\*\*</sup>, Yang, Q.Y.<sup>\*\*</sup>, Dhanil Dev, S.G.<sup>\*\*</sup>)
- (2016): Neoproterozoic arc accretion along the ‘eastern suture’ in Sri Lanka during Gondwana assembly. *Precambrian Research*, **279**, 57–80. (with He, X.-F.<sup>\*\*o</sup>, Santosh, M.<sup>\*\*</sup>, Malaviarachchi, S.P.K.<sup>\*\*</sup>)
- (2016): Melt-fluid infiltration in Archean suprasubduction zone mantle wedge: Evidence from geochemistry, zircon U-Pb geochronology and Lu-Hf isotopes from Wynad, southern India. *Ibid.*, **281**, 101–127. (with Yang, Q.Y.<sup>\*\*o</sup>, Santosh, M.<sup>\*\*</sup>, Ganguly, S.<sup>\*\*</sup>, Arun-Gokul, J.<sup>\*\*</sup>, Dhanil Dev, S.G.<sup>\*\*</sup>, Shaji, E.<sup>\*\*</sup>, Dong, Y.<sup>\*\*</sup>, Manikyamba, C.<sup>\*\*</sup>)
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- (2016): Petrology, phase equilibria modeling and zircon U-Pb geochronology of Paleoproterozoic mafic granulites from the Fuping Complex, North China Craton. *International Association for Gondwana Research Conference Series*, **22**, 26-27. (with Tang, L.\*\*°, Santosh, M.\*\*°)
- (2016): Petrogenesis and fluid characteristics of sapphirine granulites of the Highland Complex, Sri Lanka. *Ibid.*, **22**, 56-57. (with Dharmapriya, P.L.\*\*°, Malaviarachchi, S.P.K.\*\*°, Galli, A.\*\*°, Kriesman, L.\*\*°, Bhattacharya, S.\*\*°, Osanai, Y.\*\*°, Sajeev, K.\*\*°)
- (2016): Petrological, geochemical and fluid inclusion characteristics of mafic granulites from the Mercara Suture Zone, Southern India: implications for deep subduction and subsequent exhumation. *Ibid.*, **22**, 71-74. (with Amaldev, T.\*\*°, Baiju, K.R.\*\*°, Santosh, M.\*\*°, Pradeepkumar, T.\*\*°, Sajeev, K.\*\*°, Satyanarayanan, M.\*\*°)
- (2016): Petrology and crystallization of condition of granitic rocks in Wang Nam Khiao area, Nakhon Ratchasima, northeastern Thailand. *Ibid.*, **22**, 91. (with Fanka, A.\*\*°, Sutthirath, C.\*\*°)
- (2016): Petrology and geochemistry of orthogneisses from Austhove in the Lützow-Holm Complex, East Antarctica: implications for arc magmatism and high-grade metamorphism. *Ibid.*, **22**, 95-97. (with Takahashi, K.\*\*°, Takamura, Y.\*\*°, Saitoh, Y.\*\*°)
- (2016): *P-T*-fluid evolution of partially retrogressed pelitic granulite: A case study of the Southern Marginal Zone of the Neoproterozoic Limpopo Complex, South Africa. *Ibid.*, **22**, 98-99. (with Koizumi, T.\*\*°, van Reenen, D.D.\*\*°, Belyanin, G.A.\*\*°)
- (2016): U-Pb geochronology of detrital zircon from Sri Lanka and East Antarctica: Implications for the regional correlation of Gondwana fragments. *Ibid.*, **22**, 100-102. (with Takamura, Y.\*\*°, Santosh, M.\*\*°, Malaviarachchi, S.P.K.\*\*°, Tsutsumi, Y.\*°)
- (2016): Decarbonation of carbonate and formation of incipient charnockite in south-central Madagascar. *Ibid.*, **22**, 103-104. (with Endo, T.\*\*°, Santosh, M.\*\*°, Shaji, E.\*\*°, Rambeloson, R.A.\*\*°)
- (2016): Detrital zircon age data from quartzites in the southern Madurai Block, India and their bearing on Gondwana assembly. *Ibid.*, **22**, 134-135. (with Indu, M.\*\*°, Li, S.S.\*\*°, Santosh, M.\*\*°, Shaji, E.\*\*°)
- (2016): Petrological characteristics of basement rocks in Voktipur, Rangpur District, Bangladesh. *Ibid.*, **22**, 138-141. (with Islam, Md.R.\*\*°, Hossain, I.\*\*°, Nahar, M.\*\*°, Rahman, Md.S.\*\*°)
- (2016): Petrology and geochemistry of basement rocks in Bangladesh: implications for Paleoproterozoic tectonic evolution. *Ibid.*, **22**, 175-176. (with Hossain, I.\*\*°, Khatun, M.M.\*\*°)
- Ujji, K. (2017): Past seismic slip-to-the-trench recorded in Central America megathrust, *Nature Geoscience*, **10**, 935-940, <https://doi.org/10.1038/s41561-017-0013-4>. (with Vannucchi, P.\*\*°, Spagnuolo, E.\*\*°)



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- (2017): Coseismic slip propagation on the Tohoku plate boundary fault facilitated by slip-dependent weakening during slow fault slip, *Geophysical Research Letters*, **44**, 8749–8756, doi:10.1002/2017GL074307. (with Ito, Y.\*\*\*, Ikari, M. L.\*\* , Kopf, A.\*\* )
- (2017): Detection of increased heating and estimation of coseismic shear stress from Raman spectra of carbonaceous material in pseudotachylite, *Geophysical Research Letters*, **44**, 1749–1757, doi:10.1002/2016GL072457. (with Ito, K.\*\*\*, Kagi, H.\*\* )
- Yagi, Y. (2016): Rupture process of the 2016 Kumamoto earthquake in relation to the thermal structure around Aso volcano, *Earth, Planets and Space*, **68**, 118. (with Okuwaki, R.\*\*\*, Enescu, B.\*\* , Kasahara, A.\*\*\*, Miyakawa, A.\*\* , Otsubo, M.\*\* )
- (2016): Rupture Process During the 2015 Illapel, Chile Earthquake: Zigzag-Along-Dip Rupture Episodes, *Pure Appl. Geophys.*, **173**, 1011–1020. (Okuwaki, R.\*\*\*, Aránguiz, R.\*\* , González, J.\*\* , González G.\*\* )
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- (2016): etas\_solve: A Robust Program to Estimate the ETAS Model Parameters, *Seism. Res. Lett.*, **87**, 1143–1149. (with Kasahara, A.\*\*\*, Enescu, B.\*\*\*)
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- (2016): Implementation of integrated multi-channel analysis of surface waves and waveform inversion techniques for seismic hazard estimation. *Arab. J. Geosci.*, **9**, 1–16. (with Abdel-aal, A. K.\*\*\*, Kamal, H.\*\* , Abdelrahman, K.\*\* )
- (2017): Earthquake source characterization, moment tensor solutions, and stress field of small-moderate earthquakes occurred in the northern Red Sea Triple Junction, *Geosci. J.*, **21**, 235–251. (with Abdel-aal, A.K.\*\*\*)
- (2017): The 2013 Sea of Okhotsk deep earthquake: A complex rupture within the Ringwoodite stability zone, *Earth Evolution Sciences*, **11**, 23–30, (with Endo, S.\*\*\*, Nakao, A.\*\* , Hirano, S.\*\* )