

研究成果リスト (査読付論文)

令和 6 年 3 月 29 日現在
(2023 年)

1. 坂東晃紀, 長田充弘, 淺原良浩, 石崎泰男, 大藤 茂 (2023) : 下仁田町に分布する跡倉層の年代論と接触火成岩の帰属, 下仁田町自然史館研究報告, 8, 33-53.
2. Ishikawa, N., Fukuda, S., Nakajima, T., Ogawa, H., Fujimura, Y., Taguchi, T., (2024) : Ion Tracks and Nanohillocks Created in Natural Zirconia Irradiated with Swift Heavy Ions, Materials, 17, 547.
3. Katsuta, N., Umemura, A., Naito, S., Masuki, Y., Itayama, Y., Niwa, M., Sirono, S., Yoshida, H., Kawakami, S. (2023) : Heterogeneity effects in micro-beam XRF scanning spectroscopy of binary powdered mixtures and lake sediments, Spectrochimica Acta Part B: Atomic Spectroscopy, 210, 106817.
4. Kubomi, K., Nagata, M., Ota, H., Miyata, K., Otoh, S. (2023) : Discovery of Early Paleocene (Danian) tuff from the Yezo Group in the Yubari area, Hokkaido, Northeast Japan, The Journal of Geological Society of Japan, 129, 453-460.
5. Nakajima, T., Sueoka, S., Nagata, M., Kohn, B.P., Ramos, N.T., Tsutsumi, H., Tagami, T. (2023) : First report of geo- and thermochronological results from the Cordillera Central, Luzon, Philippines, Earth, Planets and Space, 75, 176.
6. 中嶋 徹, 長田充弘, 福田将眞, 末岡 茂 (2023) : 秋田県太平山複合プルトンから得られたジルコン U-Pb 年代, 地質学雑誌.
7. Nara, F.W., Lougheed, B., Obrochta, S., Watanabe, T. (in press) : Alternative radiocarbon age-depth model from Lake Baikal sediment: Implication for past hydrological changes for last glacial to the Holocene, Radiocarbon.
8. Nara, F.W., Watanabe, T., Saito-Kokubu, Y., Zhu, L. (2023) : ¹⁰Be analysis of the rock samples from the northeastern shore of Lake Pumoyum Co in south Tibetan Plateau, Nuclear Instruments and Methods in Physics Research Section B, 539, 28-32.
9. 西山成哲, 川村 淳, 梅田浩司, 丹羽正和 (2023) : 等高線を用いた地形解析による第四紀火山の山体下の岩脈分布および火道安定性評価, 応用地質, 64, 98-111.
10. Niwa, M., Shimada, K., Terusawa, S., Goto, A., Nishiyama, N., Nakajima, T., Ishihara, T.,

- Hakoiwa, H., (2024) : Field-based description of near-surface crustal deformation in a high-strain shear zone: A case study in southern Kyushu, Japan, Island Arc.
11. Ogawa, H., Asamori, K., Negi, T. and Ueda, T. (2023) : A novel method for processing noisy magnetotelluric data based on independence of signal sources and continuity of response functions, *Journal of Applied Geophysics*, 213, 105012.
 12. Saito-Kokubu, Y., Fujita, N., Watanabe, T., Matsubara, A., Ishizaka, C., Miyake, M., Nishio, T., Kato, M., Ogawa, Y., Ishii, M., Kimura, K., Shimada, A., Ogata, N. (2023) : Status report of JAEA-AMS-TONO: Research and technical development in the last four years, *Nuclear Instruments and Methods in Physics Research Section B*, 539, 68-72.
 13. Skobelev, I. Yu., Ryazantsev, S. N., Kulikov, R. K., Sedov, M. V., Filippov, E. D., Pikuz, S. A., Asai, T., Kanasaki, M., Yamauchi, T., Jinno, S., Ota, M., Egashira, S., Sakai, K., Minami, T., Abe, Y., Tokiyasu, A., Kohri, H., Kuramitsu, Y., Sakawa, Y., Miyashita, Y., Kondo, K., Kon, A., Sagisaka, A., Ogura, K., Pirozhkov, A. S., Kando, M., Kiriyama, H., Pikuz, T. A., Fukuda, Y. (2023) : The Role of Collision Ionization of K-Shell Ions in Nonequilibrium Plasmas Produced by the Action of Super Strong, Ultrashort PW-Class Laser Pulses on Micron-Scale Argon Clusters with Intensity up to 5×10^{21} W/cm², *Photonics*, 10, 1250.
 14. Sueoka, S., Iwano, H., Danhara, T., Niwa, M., Kanno, M., Kohn, B.P., Kawamura, M., Yokoyama, T., Kagami, S., Ogita, Y., Hirata, T. (2023) : Thermochronology of hydrothermal alteration zones in the Kii Peninsula, southwest Japan: An attempt for detecting the thermal anomalies and implications to the regional exhumation history, *Earth, Planets and Space*, 75, 177.
 15. Watanabe, T., Kagami, S., Yokoyama, T., Niwa, M. (2023) : LA-ICPMS U-Pb dating of zircon in paleotsunami deposits from Miyazaki plain, southwest Japan, 地学雑誌, 132, 353-361.
 16. 渡邊隆広, 山本悠介, 北村晃寿 (印刷中) : ポータブル蛍光エックス線分析装置による津波堆積物の簡易判別手法の検討—静岡平野から採取したボーリングコア試料への適用—, 地学雑誌.
 17. Yamada, R., Takahashi, T., Ogita, Y. (2023) : Petrogenesis of Oligocene to Miocene volcanic rocks from the Toyama basin of the SW Japan arc: Temporal change of arc volcanism during the back-arc spreading in the Japan Sea, *Journal of Mineralogical and Petrological Sciences*, 118, 026.

18. Zwingmann, H., Niwa, M., Todd, A., Saunders, M., (2024) : Reconstruction of the evolution and deformation history of an active fault – implications from the Atera fault, Central Japan, Earth, Planets and Space, **76**, 27.

(2022 年)

1. Asai, T., Inoue, C., Jinno, S., Kitagawa, N., Kodaira S., Morishima, K., Fukuda, Y., Yamauchi, T., Kanasaki, M. (2023) : Measurement method for laser-accelerated multi-hundred-MeV protons utilizing multiple Coulomb scattering in an emulsion cloud chamber, Jpnese Jarnal Applied Physics, **62**, 016506.
2. Balkanska, E., Georgiev, S., Kounov, A., Antić, M., Tagami, T., Sueoka, S., Wijbrans, J. and Peytcheva, I. (2022) : Low-temperature constraints on the Alpine thermal evolution of the central parts of Sredna Gora Zone, Bulgaria, Geologica Carpathica, **73**, 3-23.
3. 原田拓也, 長田充弘, 小北康弘, 鏡味沙耶, 横山立憲 (2023) : 北部北上山地, 下部白亜系原地山層の流紋岩および凝灰岩のジルコン U-Pb-Hf 同位体と全岩化学組成, 地学雑誌, **132**, 57-65.
4. Jinno, S., Kanasaki, M., Asai, T., Matsui, R., Pirozhkov, A.S., Ogura, K., Sagisaka, A., Miyasaka, Y., Nakanii, N., Kando, M., Kitagawa, N., Morishima, K., Kodaira, S., Kishimoto, Y., Yamauchi, T., Uesaka, M., Kiriyama, H., Fukuda, Y. (2022) : Laser-driven multi-MeV high-purity proton acceleration via anisotropic ambipolar expansion of micron-scale hydrogen clusters, Scientific Reports, **12**, 16753.
5. King, G.E., Ahadi, F., Sueoka, S., Herman, F., Anderson, L., Gautheron, C., Tsukamoto, S., Stalder, N., Biswas, R., Fox, M., Delpech, G., Schwarz, S. and Tagami, T. (2023) : Eustatic change modulates exhumation in the Japanese Alps, Geology, **51**, 131-135.
6. Nakajima, T., Kawakami, T., Iwano, H., Danhara, T., & Sakai, H. (2022) : Denudation process of crystalline nappes in a continental collision zone constrained by inversion of fission-track data and thermokinematic forward modeling: An example from eastern Nepalese Himalaya, Journal of Geophysical Research, Solid Earth, **127**, e2021JB023630.
7. Nara, F.W., Watanabe, T., Matsunaka, T., Yamasaki, S., Tsuchiya, N., Seto, K., Yamada, K., Yasuda, Y. (2022) : Late-Holocene salinity changes in Lake Ogawara, Pacific coast of northeast Japan, related to sea-level fall inferred from sedimentary geochemical signatures, Palaeogeography, Palaeoclimatology, Palaeoecology, **592**, 110907.
8. Natsuko Fujita, Masayasu Miyake, Akihiro Matsubara, Yoko Saito-Kokubu, Matthias

- Klein, Grazia Scognamiglio, Dirk J.W. Mous, Erickson L. Columna, Akiomi Shimada, Tsuneari Ishimaru (2022) : The new 300 kV multi-element AMS system at the TONO Geoscience Center, Japan Atomic Energy Agency, Nuclear Instruments and Methods in Physics Research B, **533**, 91-95.
9. Natsuko Fujita, Akihiro Matsubara, Kenji Kimura, Satoshi Jinno, Yoko Saito-Kokubu (2022) : Project for development of a downsized AMS system based on the surface stripper technique, Nuclear Instruments and Methods in Physics Research B, **532**, 13-18.
 10. Ogata, M., King, G.E., Herman, F., Sueoka, S. (2022) : Reconstructing the thermal structure of shallow crust in the Tono region using multi-OSL-thermometry of K-feldspar from deep borehole core, Earth and Planetary Science Letters, **591**, 117607.
 11. 小川大輝, 濱 友紀, 浅森浩一, 上田 匠 (2022) : MT 法時系列データ処理における連続ウェーブレット変換の最適な計算設定の提案, 物理探査, **75**, 38-55.
 12. Otosaka, S., Jeon, H., Hou, Y., Watanabe, T., Aze, T., Miyairi, Y., Yokoyama, Y., Ogawa, H. (2022): A safer preprocessing system for analyzing dissolved organic radiocarbon in seawater. Nuclear Instruments and Methods in Physics Research Section B, **527**, 1-6.
 13. Sawada, H., Niki, S., Nagata, M. and Hirata, T. (2022) : Zircon U-Pb-Hf Isotopic and Trace Element Analyses for Oceanic Mafic Crustal Rock of the Neoproterozoic-Early Paleozoic Oeyama Ophiolite Unit and Implication for Subduction Initiation of Proto-Japan Arc. Minerals, **12**, 107.
 14. Sueoka, S., Kobayashi, Y., Fukuda, S., Kohn, B.P., Yokoyama, T., Sano, N., Hasebe, N., Tamura, A., Morishita, T. and Tagami, T. (2022) : Low-temperature thermochronology of active arc-arc collision zone, South Fossa Magna region, central Japan, Tectonophysics, 229231, **828**, 229231.
 15. Suzuki, K., Kawakami, T., Sueoka, S., Yamazaki, A., Kagami, S., Yokoyama, T. and Tagami, T. (2022) : Solidification pressures and ages recorded in mafic microgranular enclaves and their host granite: An example of the world's youngest Kurobegawa Granite, Island Arc, 31, e12462.
 16. 立石 良, 島田耕史, 岩森暁如, 和田伸也, 瀬能正太郎, 長田 健 (2022) : 福井県三方郡美浜町で新たに確認された敦賀断層の露頭, 地質学雑誌, **128**, 63-64.
 17. Watanabe, T., Kagami, S. and Niwa, M. (2022) : Geochemical and heavy mineral signatures of marine incursions by a paleotsunami on the Miyazaki plain along the Nankai-Suruga trough, the Pacific coast of southwest Japan, Marine Geology, **444**,

106704.

18. Watanabe, T., Tsuchiya, N., Kitamura, A., Yamasaki, S., Nara, F.W. (2021): Geochemical characteristics of paleotsunami deposits from the Shizuoka plain on the Pacific coast of middle Japan, *Geochemical Journal*, **55**. 325-340.
19. Yuguchi, T., Ito, D., Yokoyama, T., Sakata, S., Suzuki, S., Ogita, Y., Yagi, K., Imura, T., Motai, S., Ono, T. (2023) : Outlining zircon growth in a granitic pluton using 3D cathodoluminescence patterns, U-Pb age, titanium concentration, and Th/U: Implications for the magma chamber process of Okueyama granite, Kyushu, Japan, *Lithos*, 440-441, 107026.
20. Yuguchi, T., Yamazaki, H., Ishibashi, K., Sakata, S., Yokoyama, T., Suzuki, S., Ogita, Y., Sando, K., Imura, T. and Ohno, T. (2022) : Simultaneous determination of zircon crystallisation age and temperature; Common thermal evolution of mafic magmatic enclaves and host granites in the Kurobegawa granite, central Japan, *Journal of Asian Earth Sciences*, **226**, 105075.

(2021 年)

21. Balkanska, E., Georgiev, S., Kounov, A., Tagami, T. and Sueoka, S. (2021) : Fission-track analysis using LA-ICP-MS: Techniques and procedures adopted at the new low-temperature thermochronology laboratory in Bulgaria, *Proceedings of the Bulgarian Academy of Sciences*, **74**, 102-109.
22. 福田将眞, 末岡 茂, 田上高広 (2021) : フィッショントラック法を利用した島弧山地の熱年代学, *RADIOISOTOPES*, **70**, 173-187.
23. 長谷部徳子, 末岡 茂, 田上高広 (2021) : フィッショントラック年代測定の基礎:これまでの経緯と今後の発展の可能性, *RADIOISOTOPES*, **70**, 117-130.
24. Kagami, S. and Yokoyama, T. (2021) : Simultaneous Determination of Insoluble Fluoride-Forming and High Field-Strength Element Abundances in Rock Samples by ICP-QMS through Isotope Dilution-Internal Standardisation, *Geostandards and Geoanalytical Research*, **45**, 679-699.
25. Kawakami, T., Sueoka, S., Yokoyama, T., Kagami, S., King, G.E., Herman, F., Tsukamoto, S. and Tagami, T. (2021) : Solidification depth and crystallization age of the Shiaidani Granodiorite: constraints to the average denudation rate of the Hida Range, central Japan, *Island Arc*, **30**, e12414, <https://doi.org/10.1111/iar.12414>.

26. Kojima, S., Kagami, S., Yokoyama, T., Kariya, Y., Katayama, Y. and Nishio, G. (2021) : Local tephra as an age-determination tool: Example of 2.3 ka Yakedake volcano tephra in Nagano Prefecture, central Japan, 5th International Workshop on Rock Mechanics and Engineering Geology in Volcanic Fields, 6p. (2021)
27. Minami, S., Nagata, M., Sueoka, S., Fukuda, S., Kajita, Y., Ogita, Y., Kagami, S., Yokoyama, T. and Tagami, T. (2021) : Two pulse intrusive events of the Pliocene Tanigawa-dake granites revealed from zircon U-Pb dating, *Earth, Planets, and Space*, **73**, 231, <https://doi.org/10.1186/s40623-021-01556-4>.
28. Mitsuguchi, T., N. Okabe, Y. Yokoyama, M. Yoneda, Y. Shibata, N. Fujita, T. Watanabe and Y. Saito-Kokubu (2021) : $^{129}\text{I}/^{127}\text{I}$ and $\Delta^{14}\text{C}$ records in a modern coral from Rowley Shoals off northwestern Australia reflect the 20th-century human nuclear activities and ocean/atmosphere circulations”, *J. Environ. Radioact.*, 235-236, 106593.
29. Miyajima, Y., Saito, A., Kagi, H., Yokoyama, T., Takahashi, Y. and Hirata, T. (2021) : Incorporation of U, Pb and Rare Earth Elements in Calcite through Crystallisation from Amorphous Calcium Carbonate: Simple Preparation of Reference Materials for Microanalysis, *Geostandards and Geoanalytical Research*, **45**, 189-205.
30. Nara, F. W., Yokoyama, T., Yamasaki, S. I., Minami, M., Asahara, Y., Watanabe, T., ... and Yasuda, Y. (2021) : Characteristics in trace elements compositions of tephras (B-Tm and To-a) for identification tools. *Geochemical Journal*, **55**, 117-133.
31. Niwa, M., Amano, K., Takeuchi, R. and Shimada, K. (2021) : Rapid Identification of Water-Conducting Fractures Using a Trace Methane Gas Measurement, *Groundwater Monitoring and Remediation*, doi:10.1111/gwmr.12428.
32. 小形 学, 小松哲也, 中西利典 (2021) : 長石光ルミネッセンス(OSL)年代測定法を用いた穿入蛇行河川堆積物の年代推定:紀伊山地十津川の事例, 第四紀研究, **60**(2), 27-41.
33. 小形 学, 末岡 茂 (2021) : 光ルミネッセンス(OSL)を用いた超低温領域の熱年代学, *RADIOISOTOPES*, **70**, 159-172.
34. Ogawa, H., Asamori, K. and Ueda, T. (2021): Numerical experiment for processing noisy magnetotelluric data based on independence of signal sources and continuity of response functions, *Proceedings of 14th SEGJ International Symposium*, 51-54.
35. 島田耕史, 後藤 翠, 丹羽正和, 下茂道人 (2021) : 和歌山県田辺市本宮町川湯温泉周辺の露頭の赤外線画像, *地質学雑誌*, *地質学雑誌*, **127**, I-II.

36. 代永佑輔, 佐野直美, 雨宮浩樹, 小北康弘, 丹羽正和, 安江健一 (2021) : EPMAによる重鉱物の迅速な定量分析を用いた後背地解析: 北海道幌延地域の事例, 応用地質, **62**, 2-12.
37. 末岡 茂, 島田耕史, 長谷部徳子, 田上高広 (2021) : フィッショントラック法における近年の新たな展開: 測定技術の高度化、アニーリング特性の理解、新手法の開発, RADIOISOTOPES, **70**, 189-207.
38. 末岡 茂, 島田耕史, 照沢秀司, 岩野英樹, 檀原 徹, 小北康弘, 平田岳史 (2021) : フィッショントラック熱年代解析に基づいた南九州せん断帯に分布する破碎帶の活動時期, 地質学雑誌, **127**, 25-39.
39. Takahashi, Y., Mikoshiba, M., Shimura, T., Nagata, M., Iwano, H., Danhara, T. and Hirata, T. (2021) : U-Pb ages of zircons from metamorphic rocks in the upper sequence of the Hidaka metamorphic belt: identification of two metamorphic events and implications for regional tectonics, Island Arc, **30**, e12393.
40. 立石 良, 島田耕史, 清水麻由子, 植木忠正, 丹羽正和, 末岡 茂, 石丸恒存 (2021) : 断層ガウジの化学組成に基づく活断層と非活断層の判別: 線形判別分析による試み, 応用地質, **62**, 104-112. <https://doi.org/10.5110/jjseg.62.104>. (エラー: 応用地質, 62, E-1-E-5, <https://doi.org/10.5110/jjseg.62.E-1>)
41. Watanabe, T., Fujita, N., Matsubara, A., Miyake, M., Nishio, T., Ishizaka, C., Saito-Kokubu, Y. (2021): Preliminary report on small-mass graphitization for radiocarbon dating using EA-AGE3 at JAEA-AMS-TONO, Geochemical Journal, **55**, 277-281.
42. Watanabe, T., Ishii, C., Ishizaka, C., Niwa, M., Shimada, K., Sawai, Y., Tsuchiya, N., Matsunaka, T., Ochiai, S., Nara, F.W. (2021): Quantitative and semi-quantitative analyses using a portable energy dispersive X-ray fluorescence spectrometer: Geochemical applications in fault rocks, lake sediments, and event deposits, Journal of Mineralogical and Petrological Sciences, **116**, 140-158.
43. 山田隆二, 木村 誇, 莻谷愛彦, 佐野雅規, 尾馬あかね, 李貞, 中塙 武, 國分(齋藤)陽子, 井上公夫 (2021) : 大規模土砂移動発生履歴の高精度復元に向けた埋没樹木の年代測定—歴史時代に中部山岳地域で発生した事例—, 砂防学会誌, **73**, 3-14.

(2020年)

1. Fukuda, S., Sueoka, S., Kohn, B.P. and Tagami, T. (2020) : (U-Th)/He thermochronometric mapping across the northeast Japan Arc: towards understanding mountain building in an

island-arc setting, Earth, Planets and Space, 72, 24,
<https://doi.org/10.1186/s40623-020-01151-z>.

2. Katsuta, N., Naito, S., Ikeda, H., Tanaka, K., Murakami, T., Ochiai, S., Miyata, Y., Shimizu, M., Hayano, A., Fukui, K., Hasegawa, H., Nagao, S., Nakagawa, M., Nagashima, K., Niwa, M., Murayama, M., Kagawa, M. and Kawakami, S. (2020) : Sedimentary rhythm of Mn-carbonate laminae induced by East Asian summer monsoon variability and human activity in Lake Ohnuma, southwest Hokkaido, northern Japan, Quaternary Science Reviews, **248**, 106576.
3. King, G.E., Tsukamoto, S., Herman, F., Biswas, R.H., Sueoka, S. and Tagami, T. (2020) : Electron spin resonance (ESR) thermochronometry of the Hida range of the Japanese Alps: validation and future potential, Geochronology, **2**, 1-15, doi:[10.5194/gchron-2-1-2020](https://doi.org/10.5194/gchron-2-1-2020).
4. Niwa, M., Kamataki, T., Kurosawa, H., Saito-Kokubu, Y. and Ikuta, M. (2020) : Seismic subsidence near the source region of the 1662 Kanbun Hyuganada Sea Earthquake: Geochemical, stratigraphical, chronological, and paleontological evidences in Miyazaki Plain, southwest Japan, Island Arc, **29**, e12341, doi:[10.1111/iar.12341](https://doi.org/10.1111/iar.12341).
5. 丹羽正和, 雨宮浩樹, 代永佑輔, 小北康弘, 安江健一, 岩野英樹, 檀原徹, 平田岳史 (2020) : 北海道北部, 幌延地域の新第三系～第四系に狭在するテフラのジルコン U-Pb およびフィッショントラック年代, 地質学雑誌, **126(5)**, 267-283.
6. 丹羽正和, 植木忠正, 星博幸, 杉崎雄一, 八木公史, 斗澤皓正 (2020) 岐阜県高山市高根地域に分布する安山岩質平行岩脈群の K-Ar 年代, 地質学雑誌, **126(9)**, 543-548.
7. Tamura, T., Oohashi, K., Otsubo, M. , Miyakawa, A. and Niwa, M. (2020) : Contribution to crustal strain accumulation of minor faults: a case study across the Niigata–Kobe Tectonic Zone, Japan, Earth Planets Space, **72**, 7, <https://doi.org/10.1186/s40623-020-1132-5>.
8. Watanabe, T., Tsuchiya, N., Yamasaki, S., Sawai, Y., Hosoda, N., Nara, F.W., Nakamura, T. and Komai, T. (2020) : A geochemical approach for identifying marine incursions: implications for tsunami geology on the Pacific coast of northeast Japan, Applied Geochemistry, **118**, 104644, doi:[10.1016/j.apgeochem.2020.10464](https://doi.org/10.1016/j.apgeochem.2020.10464).
9. Wijesinghe, J.N., Koarashi, J., Atarashi-Andoh, M., Saito-Kokubu, Y., Yamaguchi, M., Sase, T., Hosono, M., Inoue, Y., Mori, Y. and Hiradate, S. (2020) : Formation and mobility of soil organic carbon in a buried humic horizon of a volcanic ash soil, Geoderma, **374**, 114417.

10. Yuguchi, T., Ogita, Y., Kato, T., Yokota, R., Sasao, E. and Nishiyama, T. (2020) : Crystallization processes of quartz in a granitic magma: Cathodoluminescence zonation pattern controlled by temperature and titanium diffusivity, *Journal of Asian Earth Sciences*, **192(1)**, 104289, <https://doi.org/10.1016/j.jseaes.2020.104289>.
11. Yuguchi, T., Ishibashi, K., Sakata, S., Yokoyama, T., Itoh, D., Ogita, Y., Yagi, K. and Ohno, T. (2020) : Simultaneous determination of zircon U–Pb age and titanium concentration using LA-ICP-MS for crystallization age and temperature, *Lithos*, **372–373**, 105682, <https://doi.org/10.1016/j.lithos.2020.105682>.

(2019 年)

1. Fukuda, S., Sueoka, S., Hasebe, N., Tamura, A., Arai, S. and Tagami, T. (2019) : Thermal history analysis of granitic rocks in an arc-trench system based on apatite fission-track thermochronology: A case study of the Northeast Japan Arc, *Journal of Asian Earth Sciences: X*, **1**, 100005, doi:10.1016/j.jaesx.2019.100005.
2. Katsuta, N., Takano, M., Sano, N., Tani, Y., Ochiai, S., Naito, S., Murakami, T., Niwa, M. and Kawakami, S. (2019) : Quantitative micro-X-ray fluorescence scanning spectroscopy of wet sediment based on the X-ray absorption and emission theories: Its application to freshwater lake sedimentary sequences. *Sedimentology*, **66**, 2490-2510.
3. Lin, P., Xu, C., Kaplan, D., Chen, H., Yeager, C., Xing, W., Sun, L., Schwehr, K., Yamazaki, H., Saito-Kokubu, Y. and Hatcher, P. (2019) : Nagasaki sediments reveal that long-term fate of plutonium is controlled by select organic matter moieties, *Science of the Total Environment*, **678**, 409-418.
4. Minami, Y., Ohba, T., Hayashi, S., Saito-Kokubu, Y. and Kataoka, K.S. (2019) : Lahar record during the last 2500 years, Chokai Volcano, northeast Japan: Flow behavior, sourced volcanic activity, and hazard implications, *Journal of Volcanology and Geothermal Research*, **387**, 106661.
5. 永田和宏, 古主康子, 松原章浩, 國分(齋藤)陽子, 中村俊夫 (2019) : 加速器質量分析(AMS)による和釦の ^{14}C 年代と製造年代, *鉄と鋼*, **105**, 488-491.
6. Niwa, M., Shimada, K., Ishimaru, T. and Tanaka, Y. (2019) : Identification of capable faults using fault rock geochemical signatures: A case study from offset granitic bedrock on the Tsuruga Peninsula, central Japan. *Engineering Geology*, **260**, 105235, doi:10.1016/j.enggeo.2019.105235.

7. 尾上博則, 小坂 寛, 松岡稔幸, 小松哲也, 竹内竜史, 岩月輝希, 安江健一 (2019) : 長期的な地形変化と気候変動による地下水流动状態の変動性評価手法の構築, 原子力バックエンド研究, **26**, 3-14.
8. Saito-Kokubu, Y., Fujita, N., Miyake, M., Watanabe, T., Ishizaka, C., Okabe, N., Ishimaru, T., Matsubara, A., Nishizawa, A., Nishio, T., Kato, M., Torazawa, H. and Isozaki, N. (2019) : Current status of JAEA-AMS-TONO in the 20th year, Nucl. Instrum. Methods Phys. Res., Sect. B, **456**, 271-275.
9. Saito-Kokubu, Y., Mitsuguchi, T., Watanabe, T., Yamada, T., Asami, R. and Iryu, Y. (2019) : Preliminary test of the EA-AGE3 system for ^{14}C measurements of CaCO_3 samples and coral-based estimation of marine reservoir correction in the Ogasawara Islands, northwestern subtropical Pacific, Radiocarbon, **61**, 1593-1601.
10. 島田耕史 (2019) : 有限ひずみ関連式とせん断ひずみの概要把握法の図解例, 地質技術, **9**, 25-40.
11. Shimizu, M., Sano, N., Ueki, T., Komatsu, T., Yasue, K.I., and Niwa, M. (2019) : Provenance identification based on EPMA analyses of heavy minerals: Case study of the Toki Sand and Gravel Formation, central Japan. Island Arc, **28(2)**, e12295.
12. Sueoka, S. and Tagami, T. (2019) : Low-temperature thermochronological database of bedrock in the Japanese Islands, Island Arc, **28(4)**, e12305, doi:10.1111/iar.12305.
13. Sueoka, S., Ikuho, Z., Hasebe, N., Murakami, M., Yamada, R., Tamura, A., Arai, S. and Tagami, T. (2019) : Thermal fluid activities along the Mozumi-Sukenobu fault, central Japan, identified via zircon fission-track thermochronometry, Journal of Asian Earth Sciences: X, **2**, 100011, doi:10.1016/j.jaesx.2019.100011.
14. 末岡 茂, 田上高広 (2019) : 熱年代学の原理と地殻浅部のテクトニクスへの応用, 地学雑誌, **128(5)**, 707-730.
15. Takahashi, H.A., Minami, M., Aramaki, T., Handa, H., Saito-Kokubu, Y., Itoh, S. and Kumamoto, Y. (2019) : A suitable procedure for preparing of water samples used in radiocarbon intercomparison, Radiocarbon, **61**, 1879-1887.
16. 植木忠正, 丹羽正和, 岩野英樹, 檀原 徹, 平田岳史 (2019) : 中部日本, 鮮新世東海層群中の大田テフラのジルコン U-Pb およびフィッショントラック年代, 地質学雑誌, **125**, 227-236.
17. Yuguchi, T., Sueoka, S., Iwano, H., Izumino, Y., Ishibashi, M., Danhara, T., Sasao, E.,

Hirata, T. and Nishiyama, T. (2019) : Position-by-position cooling paths within the Toki granite, central Japan: Constraints and the relation with fracture population in a pluton, Journal of Asian Earth Sciences, **169**, 47-66, doi:10.1016/j.jseaes.2018.07.039.

(2018 年)

1. Katsuta, N., Ikeda, H., Shibata, K., Saito-Kokubu, Y., Murakami, T., Tani, Y., Takano, M., Seyama, H., Nakamura, T., Tanaka, A., Naito, S., Ochiai, S., Shichi, K., Kawakami, S-I. and Kawai, T. (2018) : Hydrological and climate changes in southeast Siberia over the last 33 kyr, Global and Planetary Changes, **164**, 11-26.
2. Matsubara, A., Fujita, N. and Ishii, K. (2018) : Applications of ion channeling in accelerator mass spectrometry, Nuclear Instruments and Methods in Physics Research B, **437**, 81-86.
3. 奥野 充, 長岡信治, 國分(齋藤)陽子, 中村俊夫, 小林哲夫 (2018) : 加速器質量分析法による九重火山群, 黒岳火砕流堆積物の放射性炭素年代, 福岡大学理学集報, **48(1)**, 1-5.
4. 末岡 茂, 島田耕史, 石丸恒存, 檀原 徹, 岩野英樹, 八木公史 (2018) : 江若花崗岩の形成年代と冷却史, 地学雑誌, **127**, 6, 795-803, doi:10.5026/jgeography.127.795.
5. Watanabe, T., Saito-Kokubu, Y., Murakami, H. and Iwatsuki, T. (2018) : Onsite chelate resin solid-phase extraction of rare earth elements in natural water samples: its implication for studying past redox changes by inorganic geochemistry, Limnology, **19**, 21-30, doi: 10.1007/s10201- 017-0513-3.
6. Yokoyama, T., Kimura, J.-I., Mitsuguchi, T., Danhara, T., Hirata, T., Sakata, S., Hideki, I., Maruyama, S., Chang Q., Miyazaki, T., Murakami, H. and Saito-Kokubu, Y. (2018) : U-Pb dating of calcite using LA-ICP-MS: Instrumental setup for non-matrix-matched age dating and determination of analytical areas using elemental imaging, Geochemical Journal, **52**, 531-540.

(2017 年)

1. Okuno, M., Nagaoka, S., Saito-Kokubu, Y. and Nakamura, T. (2017) : AMS radiocarbon dates of pyroclastic-flow deposits on the southern slope of the Kuju Volcanic Group, Kyushu, Japan, Radiocarbon, **59**, 2, 483-488, doi: 10.1017/RDC.2016.66.
2. Shimizu, M., Shibata, K., Suzuki, K., Sueoka, S. and Niwa, M. (2017) : CHIME monazite

- dating: Pb analysis on an $R_R = 100$ mm spectrometer and correction of interferences between Th, U, and Pb with natural monazite, Journal of Mineralogical and Petrological Sciences, **112**(2), 88-96.
3. Sueoka, S., Ikeda, Y., Kano, K., Tsutsumi, H., Tagami, T., Kohn, B.P., Hasebe, N., Tamura, A., Arai, S. and Shibata, K. (2017) : Uplift and denudation history of the Akaishi Range, a thrust block formed by arc-arc collision in central Japan: Insights from low-temperature thermochronometry and thermos-kinematic modeling, Journal of Geophysical Research: Solid Earth, **122**, 6787-6810, doi: 10.1002/2017JB014320.
 4. Sueoka, S., Shimada, K., Ishimaru, T., Niwa, M., Umeda, K., Yasue, K., Danhara, T. and Iwano, H. (2017) : Fission-track dating of faulting events accommodating plastic deformation of biotites, Journal of Geophysical Research: Solid Earth, **122**, 1848-1859, doi: 10.1002/2016JB013522.
 5. Sueoka, S., Tagami, T. and Kohn, B.P. (2017) : First report of (U-Th)/He thermochronometric data across Northeast Japan Arc: Implications for the long-term inelastic deformation, Earth, Planets and Space, **69**, 79, doi: 10.1186/s40623-017-0661-z.
 6. 植木忠正, 丹羽正和 (2017) : 走査型X線分析顕微鏡と画像処理・解析ソフトウェアを用いたモード測定, 地質学雑誌, **123**, 1061-1066.
 7. Yuguchi, T., Sueoka, S., Iwano, H., Danhara, T., Ishibashi, M., Sasao, E. and Nishiyama, T. (2017) : Spatial distribution of the apatite fission-track ages in the Toki granite, central Japan: Exhumation rate of a Cretaceous pluton emplaced in the East Asian continental margin, Island Arc, e12219, doi: 10.1111/iar.12219.

(2016年)

1. 生田正文, 丹羽正和, 檀原徹, 山下透, 丸山誠史, 鎌滝孝信, 小林哲夫, 黒澤英樹, 國分(齋藤)陽子, 平田岳史 (2016) : 歴史時代に噴出した同一火山由来の軽石層の同定:宮崎平野で見出された桜島文明軽石の例, 地質学雑誌, **122**, 89-107.
2. 亀田純, 清水麻由子 (2016) : 海溝型地震・津波発生における粘土鉱物の役割, 粘土科学, **54**, 105-113.
3. 永田和宏, 松原章浩, 國分(齋藤)陽子, 中村俊夫 (2016) : 加速器質量分析(AMS)による日本刀の¹⁴C年代と暦年代, 鉄と鋼, **102**, 736-741.
4. Niwa, M., Shimada, K., Tamura, H., Shibata, K., Sueoka, S., Yasue, K., Ishimaru, T. and

- Umeda, K. (2016) : Thermal constraints on clay growth in fault gouge and their relationship with fault zone evolution and hydrothermal alteration: Case study of gouges in the Kojaku Granite, Central Japan, *Clays and Clay Minerals*, **64**, 86-107.
5. Niwa, M., Shimada, K., Aoki, K. and Ishimaru, T. (2016) : Microscopic features of quartz and clay particles from fault gouges and infilled fractures in granite: discriminating between active and inactive faulting, *Engineering Geology*, **210**, 180-196.
 6. Okuno, M., Nagaoka, S., Saito-Kokubu, Y., Nakamura, T. and Kobayashi, T. (2016) : AMS radiocarbon dates of pyroclastic-flow deposits on the southern slope of the Kuju volcanic group, Kyushu, Japan, *Radiocarbon*, **58**, doi:10.1017/rdc.2016.66.
 7. 末岡 茂, 梅田浩司, 安江健一, 丹羽正和, 島田耕史, 石丸恒存, 檀原 徹, 岩野英樹, 八木公史 (2016) : 複数の熱年代学的手法に基づいた江若花崗岩敦賀岩体の冷却・削剥史, *地学雑誌*, **125**, 201-219.
 8. Sueoka, S., Tsutsumi, H. and Tagami, T. (2016) : New approach to resolve the amount of Quaternary uplift and associated denudation of the mountain ranges in the Japanese Islands, *Geosci. Frontiers*, **7**, 197-210, doi:10.1016/j.gsf.2015.06.005.
 9. 谷川晋一, 三箇智二, 安江健一 (2016) : 河川の土砂運搬作用を考慮した河床縦断面形のシミュレーション, *地形*, **37**, 189-207.
 10. 徳安佳代子, 古田定昭, 梅田浩司, 國分(齋藤)陽子 (2016) : 光ルミネッセンス測定装置への密封線源の導入と放射線管理—日本原子力研究開発機構土岐地球年代学研究所での例—, *日本放射線安全管理学会誌*, **15**, 80-87.
 11. Yokoyama, T., Misawa, K., Okano, O., Minowa, H. and Fukuoka, T. (2016) : Photostimulated luminescence applicable to pre-screening of potassium-rich phases in chondritic breccias, *Journal of Radioanalytical and Nuclear Chemistry*, **310**, 81-89.
 12. Yuguchi, T., Iwano, H., Kato, T., Sakata, S., Hattori, K., Hirata, T., Sueoka, S., Danhara, T., Ishibashi, M., Sasao, E. and Nishiyama, T. (2016) : Zircon growth in a granitic pluton with specific mechanisms, crystallization temperatures and U-Pb ages: Implication to the 'spatiotemporal' formation process of the Toki granite, central Japan, *Journal of Mineralogical and Petrological Sciences*, **111**, 1, 9-34, doi:10.2465/jmps.151007.

(2015 年)

1. Asamori, K. and Zhao, D. (2015) : Teleseismic shear-wave tomography of the Japan subduction zone, *Geophys. J. Int.*, **203**, 1752-1772, doi: 10.1093/gji/ggv334.

2. 松原章浩 (2015) : 原子衝突の新しい風, しようとつ, **12**, 126.
3. Niwa, M., Mizuochi, Y. and Tanase, A. (2015) : Changes in chemical composition caused by water-rock interactions across a strike-slip fault zone: case study of the Atera Fault, Central Japan, *Geofluids*, **15**, 387-409, doi: 10.1111/gfl.12096.
4. Pachri, H., Mitani, Y., Ikemi, H., Nakanishi, R. and Saito-Kokubu Y. (2015) : Relationships between of sediment concentrations from ^{10}Be analysis and morphometric aspect in Sangun catchment area, Fukuoka prefecture, Japan, *J. Geol. Res. Eng.*, **4**, 163-172, doi:10.17265/2328-2193/2015.04.001.
5. Saito-Kokubu, Y., Matsubara, A., Miyake, M., Nishizawa, A., Ohwaki, Y., Nishio T., Sanada, K. and Hanaki, T. (2015) : Progress on multi-nuclide AMS of JAEA-AMS-TONO, *Nucl. Instrum. Methods Phys. Res., B, Beam Interact. Mater. Atoms.*, **361**, 48-53, doi:10.1016/j.nimb.2015.04.071.
6. 末岡 茂, 堤 浩之, 田上高広 (2015) : 低温領域の熱年代学の発展と日本の山地の隆起・削剥史研究への応用, *地球科学*, **69**, 47-70.
7. Thiel, C., Tsukamoto, S., Tokuyasu, K., Buylaert, J-P., Murray, A. S., Tanaka, K. and Shirai, M. (2015) : Testing the application of quartz and feldspar luminescence dating to MIS 5 Japanese marine deposits, *Quater. Geochronol.*, **29**, 16-29, doi:10.1016/j.quageo.2015.05.008.
8. 徳安佳代子, 田中和広 (2015) : 現世河川堆積物における OSL 信号リセット—山口県錦川を例として—, *第四紀研究*, **54**, 1-10.
9. Umeda, K., Asamori, K. Makuuchi, A. Kobori, K. and Hama, Y. (2015) : Triggering of earthquake swarms following the 2011 Tohoku megathrust earthquake, *J. Geophys. Res. Solid Earth*, **120**, 2279-2291, doi: 10.1002/2014JB011598.
10. Umeda, K. (2015) : Localized extensional tectonics in an overall reverse-faulting regime, Northeast Japan, *Geosci. Lett.*, **2**, 12, doi: 10.1186/s40562-015-0030-3.