



Japan Association of Mineralogical Sciences

http://jams.la.coocan.jp/e_index.html

FROM THE PRESIDENT

Members of the Japan Association for Mineralogical Sciences (JAMS) investigate various fields of Earth and planetary sciences. We are recently focusing on improving the outreach associated with geoscience and related fields. I will briefly introduce some of them.

Members of JAMS have attended the Japanese Antarctica Research Expedition (JARE) numerous times. The research areas are mainly in the periphery of Syowa Station (Japanese Antarctic Station), but also cover a wide range between 25° E and 46° E along the coastal areas. Recently, they have been studying the formation and development of the Gondwana supercontinent. These results were published in the Special issue of the *Journal of Mineralogical and Petrological Sciences (JMPS)*. The *JMPS* is a completely open access journal that can be accessed at www.jstage.jst.go.jp/browse/jmps.

The annual JAMS meeting was held face-to-face at Osaka Metropolitan University in September. Many members joined there, and lively discussions took place. The number of student members has also increased noticeably in recent years. This phenomenon is expected to revitalize the activity of JAMS. The members of JAMS have examined the description of mineralogical sciences in junior high school textbooks and made recommendations to ensure that they reflect more appropriate content.

Through these activities, the JAMS would like to continue to contribute to the development of mineralogical sciences.

JAMS President
Prof. Masaaki Owada

INVITATION TO THE JAPAN GEOSCIENCE UNION MEETING 2024

We are pleased to inform you that the Japan Geoscience Union (JpGU) meeting will be held on 26–31 May 2024 at Makuhari Messe in Chiba, Japan. The JpGU is an organization of about 10,000 individual members and about 50 domestic society members related to Earth and planetary sciences. The 2024 JpGU meeting will be held in a hybrid format, as was the case in the previous two meetings. While retaining the advantages of the hybrid format, including the ability to allow participation from remote locations, we will be able to hold more full-fledged, face-to-face discussion. We encourage you to apply, regardless of the form of participation, and look forward to lively discussions both onsite and online. More information is available at www.jpгу.org/meeting_e2024.

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Zircon geochronology and geochemistry of felsic gneisses from Harvey Nunatak, Napier Complex in East Antarctica. Mami TAKEHARA, Kenji HORIE, Tomokazu HOKADA, Sotaro BABA, Atsushi KAMEI, Ipeei KITANO.

Metamorphic rocks with different pressure-temperature-time paths bounded by a ductile shear zone at Oyayubi ridge, Brattnipene, Sør Rondane Mountains, East Antarctica. Tatsuro ADACHI, Tetsuo KAWAKAMI, Fumiko HIGASHINO, Masaaki UNO.

Tectonic division of the Southwestern terrane at the western Sør Rondane Mountains, Dronning Maud Land, East Antarctica, from a viewpoint of zircon U-Pb ages. Kazuhiro TSUKADA, Purevdulam SUKHAATAR, Masaaki OWADA, Toshiaki SHIMURA, Masaki YUHARA, Atsushi KAMEI, Yusuke SHIMURA, Onon GANTUMUR.

The record of geological processes in zircon from polymetamorphosed orthogneisses from the Napier Mountains, Napier Complex, East Antarctica. Piotr KRÓL, Monika A. KUSIAK, Daniel J. DUNKLEY, Martin J. WHITEHOUSE, Simon A. WILDE, Lars E. AUGLAND.

Occurrences and chemical compositions of ultrapotassic mafic dyke rocks from Skallevikshalsen and Rundvågshetta, Lützow-Holm Complex, East Antarctica. Tomoharu MIYAMOTO, Katsuyuki YAMASHITA, Daniel J. DUNKLEY, Kazuhiko SHIMADA, Toshiaki TSUNOGAE, Mutsumi KATO.

High-K adakitic granite in post-Gondwana collisional stage: example for the Vengen Granite, Sør Rondane Mountains, East Antarctica. Masaki YUHARA, Atsushi KAMEI, Yoshinobu KAWANO, Masaaki OWADA, Toshiaki SHIMURA, Kazuhiro TSUKADA.

Zircon geochronology of high-grade metamorphic rocks from outcrops along the Prince Olav Coast, East Antarctica: Implications for multi-thermal events and regional correlations. Ipeei KITANO, Tomokazu HOKADA, Sotaro BABA, Atsushi KAMEI, Yoichi MOTOYOSHI, Prayath NANTASIN, Nugroho I. SETIAWAN, Davaa-ochir DASHBAATAR, Tsuyoshi TOYOSHIMA, Masahiro ISHIKAWA, Takuma KATORI, Nobuhiko NAKANO, Yasuhito OSANAI.

Decompressional spinel + plagioclase symplectite from Tenmondai Rock, Lützow-Holm Complex, East Antarctica: Implications for the garnet-aluminosilicate-spinel-plagioclase geobarometer. Toshiaki SHIMURA, Yuki HARADA, Geoffrey L. FRASER, Noriyoshi TSUCHIYA.

Chemical zoning and crystal size distribution of garnet in a quartz-feldspathic gneiss from the Lützow-Holm Complex at Skallen, East Antarctica: Implication for geothermometry. Takeshi IKEDA, Saori GOTO.

(* Advanced online publications as of 24 Nov. 2023)

* Chlorine-rich potassic-ferro-pargasite with Cl-poor cummingtonite in mafic granulite from Austhovde, Lützow-Holm Complex, East Antarctica. Yoshikuni HIROI, Tomokazu HOKADA, Tatsuro ADACHI, Atsushi KAMEI, Kazuyuki SHIRAIISHI, Yoichi MOTOYOSHI.

* Carbon isotopic composition of graphite in metamorphic rocks from Lützow-Holm Complex, East Antarctica: Implications for carbon geodynamic cycle in continental crust. Madhusoodhan SATISH-KUMAR.

* Nd isotopic evolution of Archean tonalitic-granodioritic rocks of the Napier Complex, East Antarctica. Satoko SUZUKI, Tomokazu HOKADA, Masahiro ISHIKAWA, Takuji HAMAMOTO.

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Original Articles

Pressure-tuned correlation field splitting in phase A [Mg₇Si₂O₈(OH)₆]. Masami KANZAKI.

New approach to obtain the correct chemical compositions by absorption correction using analytical transmission electron microscopy. Kiyoshi FUJINO, Naotaka TOMIOKA, Hiroaki OHFUJI.

Experimental synthesis of Fe-bearing olivine at near-solidus temperatures and its decomposition during longtime heating. Naoki HIRAKAWA, Yoko KEBUKAWA, Takazo SHIBUYA, Hisahiro UEDA, Kensei KOBAYASHI.

Zircon U-Pb ages of the Cretaceous gabbroic and granitic rocks from the Kajishima, northwest Shikoku, southwest Japan. Kazuya SHIMOOKA, Satoshi SAITO, Kenichiro TANI.

Pressure-induced phase transition of oxygen defective perovskite srebrodolskite Ca₂Fe₂O₅. Risa KUWAMURA, Sota TAKAGI, Atsushi KYONO.

Magma fractionation and emplacement mechanism in a subvolcanic plumbing system in a continental region: constraints from the late Neoproterozoic Wadi Dib ring complex in the Eastern Desert, Egypt. Eman SAAD, Kazuhito OZAWA, Takeshi KURITANI, Ali A. KHUDEIR.

Kiryuite and gunmaite, two new minerals from Tsukubara, Kiryu City, Gunma Prefecture, Japan. Daisuke NISHIO-HAMANE, Takeshi YAJIMA, Issei IKARI, Yoshiya OHKI, Hirofumi HORI, Yoshihiro OHARA.

Letter

Rutile exsolution lamellae of garnet in quartz eclogite from the Sanbagawa Belt, Mt. Gongen, central Shikoku, Japan. Tomohiro TAKEBAYASHI, Yui KOUKETSU, Katsuyoshi MICHIBAYASHI.