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[JGEET] Article Review Request

1 pesan

JGEET (J. Geoscience Eng. Environ. Technol.) <admin@journal.uir.ac.id>
Kepada: Dwi Fitri Yudiantoro <d_fitriyudiantoro@upnyk.ac.id>

7 Desember 2023 pukul 08.45

Dwi Fitri Yudiantoro:

I believe that you would serve as an excellent reviewer of the manuscript, "Petrology and Mineral Chemistry of Ultramafic Rock in Baula - Pomalaa Ophiolite Complex, Southeast Sulawesi," which has been submitted to Journal of Geoscience, Engineering, Environment, and Technology. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

Please log into the journal web site by 2024-01-03 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation.

The review itself is due 2024-01-03.

Submission URL: <https://journal.uir.ac.id/index.php/JGEET/reviewer/submission?submissionId=14491&reviewId=7586&key=pHvUDw>

Thank you for considering this request.

JGEET (J. Geoscience Eng. Environ. Technol.)
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"Petrology and Mineral Chemistry of Ultramafic Rock in Baula - Pomalaa Ophiolite Complex, Southeast Sulawesi"

Ultramafic rocks compose the Baula and Pomalaa Ophiolitic Complexes. Peridotite, composed primarily of olivine and pyroxene minerals, dominates ultramafic rocks. Chemical and petrological research has focused on minerals, such as olivine, pyroxene, and spinel. This study examines the tectonic setting and temperature of ultramafic rock formation. Twelve ultramafic rock samples were examined using geothermometers made of pyroxene, petrographic examination, and coexisting olivine and spinel analyses. SEM and petrographic analysis of pyroxene lamellae and mylonite-ultramylonite structures allowed for the measurement of the geothermometer of ultramafic rocks. Using SEM-EDS, the coexistence of olivine and spinel was analyzed to determine the type of ultramafic tectonic setting. In the coexistence of olivine and spinel, olivine and spinel oxide compounds as tectonic setting markers in the form of Fo and Cr# values. Ultramafic rocks have different temperature levels and the first one starts at a high temperature of 1000-1200°C. It is also characterized by thin, elongated lamellae. Instead, large lamellae characterize orthopyroxene at medium temperatures (800–1000°C). The presence of ultramylonite structures likewise characterizes this phase. Lamella irregular, anhedral, and broader forms are typical of low temperatures (500–800°C). The presence of mylonite structures can also distinguish this phase. The distribution of #Fo ranged from 0.87 to 0.92, and Cr# values ranged from 0.13-0.19. According to coexisting olivine and spinel analysis. On the Olivine-Spinel Mantle Array (OSMA), the Fo and Cr# plot indicates that the peridotites tectonic setting was from the ocean floor and the magmatism was from MORB (Mid Oceanic Ridge Basalt).

JOURNAL OF GEOSCIENCE, ENGINEERING, ENVIRONMENT, AND TECHNOLOGY

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SURAT TUGAS

Nomor : B/287d/UN62.11/ST/2023

Dekan Fakultas Teknologi Mineral Universitas Pembangunan Nasional "Veteran" Yogyakarta memberikan tugas kepada :

No.	Nama	NIP	Pangkat/Golongan
1.	Dr.Ir. Dwi Fitri Yudiantoro, MT	19630225 199003 1 002	Pembina Utama Muda /IVC

Keperluan: Untuk melaksanakan tugas dalam kegiatan sebagai **Reviewer Journal** pada **Journal of Geoscience, Engineering, Environment, and Technology (JGEET)** dengan judul artikel: "**Petrology and Mineral Chemistry of Ultramafic Rock in Baula - Pomalaa Ophiolite Complex, Southeast Sulawesi**"

Atas perhatian dan bantuannya kami ucapkan terima kasih.

18 Desember 2023



Dr. Ir. Sutarto, MT

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