



Identification of fracturing behavior in thermally cracked granite using the frequency spectral characteristics of acoustic emission. Kazumasa SUEYOSHI, Manami KITAMURA, Xinglin LEI, Ikuro KATAYAMA.

Effect of acidic microbial polysaccharides on calcium carbonate polymorph formation in hot water at 40-80 °C. Motoharu KAWANO, Jinyeon HWANG.

New data on S-bearing katoite from Tadano, Fukushima Prefecture, Japan: an implication of the presence of both $(\text{SO}_3)^{2-}$ and $(\text{SO}_4)^{2-}$ in the garnet structure. Yasuyuki BANNO, Koichi MOMMA, Ritsuro MIYAWAKI, Michiaki BUNNO.

Determination of orientational ordering of hydroxy groups in kulanite between 120-353 K using single-crystal X-ray diffraction. Ryo YAMANE, Makoto TOKUDA, Kazumasa SUGIYAMA.

U-Pb zircon ages of metamorphic rocks and granitoids from the Nagato Tectonic Zone in Yamaguchi, southwest Japan: Implication for the geological correlation with the Kurosegawa Tectonic Belt. Ippei KITANO, Yasuhito OSANAI, Nobuhiko NAKANO, Ryosuke KATO, Vuong BUI THI SINH.

Serpentinization of forsterite under hydrothermal conditions and controlled synthesis of lizardite. Zhiqiang ZHOU, Hongjuan SUN, Tongjiang PENG.

Letters

Change in size distribution of porewater and entrapped air with progression of water infiltration in sandstone. Tadashi YOKOYAMA, Satoki SHINTAKU, Naoki NISHIYAMA.

Hydrocarbon fluid inclusions in authigenic quartz from the Torinosu Limestone at Sakawa town, Kochi Prefecture, Japan. Taro KIDO, Masanori KUROSAWA, Kei IKEHATA.

SFMC HAÛY-LACROIX PRIZE 2023



The jury of the French Society of Mineralogy and Crystallography awarded its Haüy-Lacroix 2023 prize jointly to Clément Herviou and Rémy Pierru



The PhD thesis of **Clément Herviou** entitled “Fluid circulation and deformation mechanisms in the Schistes Lustrés of the Liguro-Piedmont domain: Implications for the functioning of subduction zones,” was carried out at the Institut des Sciences de la Terre de Paris (Sorbonne University), France under the supervision of Philippe Agard and Anne Verlaquet. The aim of his thesis was to gain a better understanding of the composition of fluids and how they migrate through the crust in the context of oceanic subduction. The jury appreciated Clément's efforts to put the results into a broader perspective, illustrated by the integration of a variety of data, ranging from field data to analyses of fluid inclusions on a regional scale. This work is also an important contribution to our understanding of the paleogeography and tectono-metamorphic evolution of the Liguro-Piedmont area in the Western Alps.



Rémy Pierru completed his PhD at the Magmas and Volcanoes Laboratory (University of Clermont-Auvergne), France under the supervision of Denis Andraut and Geeth Manthilake. The aim of his thesis, entitled “High-pressure and high-temperature mantle melting: Application to the dynamics of the early Earth,” was to experimentally constrain the conditions under which the Earth's mantle melts. The jury appreciated the novelty of the experimental approach used, for example, to detect the first traces of partial melting. The uniqueness of these experiments, some of which were carried out at the synchrotron, was also noted. The implications of the results of Rémy's thesis for understanding the evolution of mantle melting during Earth's history, as the source of the magmas in the major Archean magma provinces, go far beyond the scope of experimental petrology.