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SIT38-P05

会場:コンベンションホール

時間:5月23日18:15-19:30

真空焼結法による高緻密細粒下部地殻鉱物多結晶体の作製 Synthesis of highly dense and fine-grained lower crustal minerals by vacuum sintering technique

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It is important to fabricate polycrystalline rock-forming minerals which have controlled crystallographic orientation, grain size, sample shape, mineral composition, chemistry (e.g., trace elements), and phases (including melt) for investigating the physical and chemical properties of the Earth' interior by room experiments. The vacuum sintering method at ambient pressure has been applied. We developed synthesis method of a wide variety of polycrystalline minerals, including single phase aggregates of anorthite (CaAl₂Si₂O₈) and, two phase composite of anorthite + diopside (CaMgSi₂O₆), anorthite + quartz (SiO₂) with homogeneous microstructure, which are good analogues for lower crustal composites.

キーワード: 多結晶体, 下部地殻, 鉱物 Keywords: polycrystal, lower crust, mineral