

Electron Microscopic studies on framboidal pyrite - Framboids with domain structures from sediments in Niigata Plain -

Hiroaki Ohfuji [1], Junji Akai [2]

[1] Dpt Geol, Niigata Univ, [2] Departm. Geol. Fac. Sci. Niigata Univ.

There are various discussions on formation processes of framboidal pyrite grains which have unique forms. Many framboidal pyrite occurred in the muddy sediments, at Shirone. SEM observations showed that internal microcrystals of framboids arranged regularly and two different distribution patterns of the microcrystals within framboid were newly found. Domain structures composed of such different arrangements were found in the framboids. The other minerals, such as greigite framboids and small amorphous spherules were also found. Chemical reaction series of amorphous FeS ~ greigite ~ pyrite were suggested in these young muddy sediments.