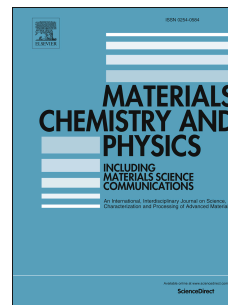


# Accepted Manuscript

Ultrafast Microwave-Hydrothermal Synthesis of Hexagonal Plates of Hematite

Hiroaki Katsuki, Eun-Kyoung Choi, Won-Jun Lee, Kwang-Taek Hwang, Woo-Seok Cho, Wenyan Huang, Sridhar Komarneni



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### Highlights

- Plates of hematite were synthesized in 2 minutes by microwave-hydrothermal process
- Reaction rates were determined by conventional and microwave hydrothermal syntheses
- Microwaves increased hematite formation by about 1 to 2 orders of magnitude

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