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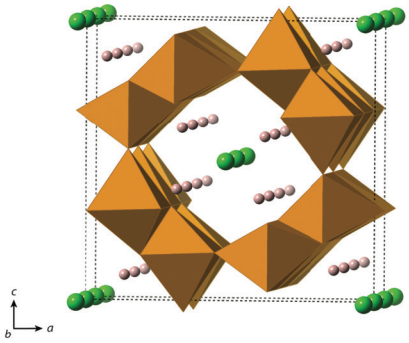
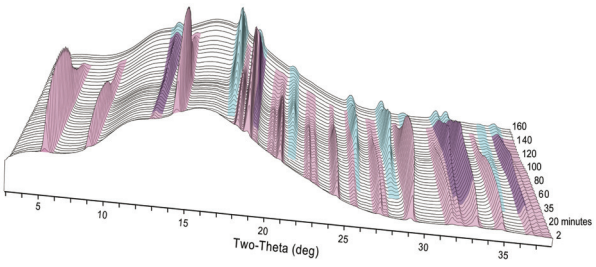
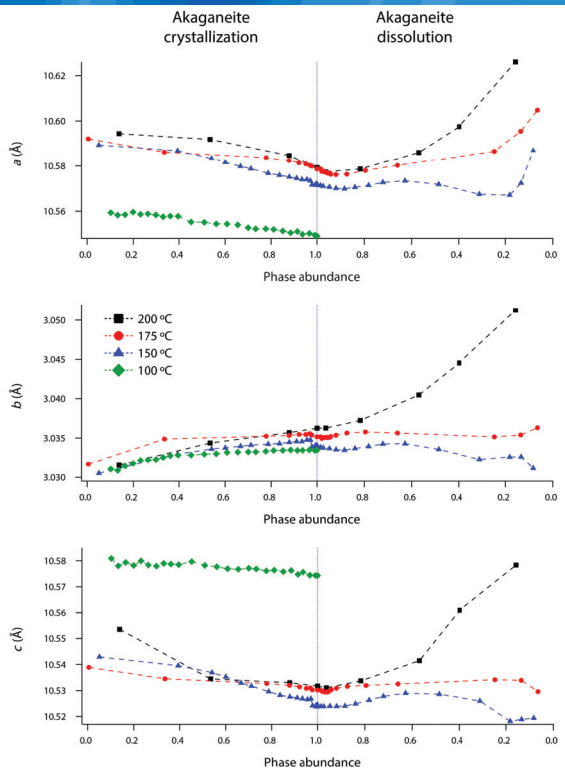


Crystal structure of akaganeite, β-FeO(OH,Cl) showing Cl^- (green) and H^+ (pink)



Time series at 150 °C . Akaganeite peaks are pink, and hematite peaks are blue



Lattice parameter changes at 100 °C (green), 150°C (blue), 175°C (red) and 200 °C (black)

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EDITORIAL

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NEW DIFFRACTION DATA

DATA REPORT

INTERNATIONAL REPORT

CALENDARS

CORRIGENDUM

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On the Cover: This Issue's cover shows three Figures from the manuscript "Evolution in the structure of akaganeite and hematite during hydrothermal growth: An *in situ* synchrotron X-ray diffraction analysis" by Kristina M. Peterson, Peter J. Heaney and Jeffrey E. Post. Their paper reports the temperature-time resolved studies of hydrothermal precipitation of akaganeite (b-FeOOH) as it is precipitated and then transformed to hematite (Fe_2O_3) using time resolved synchrotron X-Ray diffraction as a function of temperature.

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Powder Diffraction is a journal of practical technique, publishing articles relating to the widest range of application—from materials analysis to epitactic growth of thin films and to the latest advances in software. Although practice will be emphasized, theory will not be neglected, especially as its discussion will relate to better understanding of technique.
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