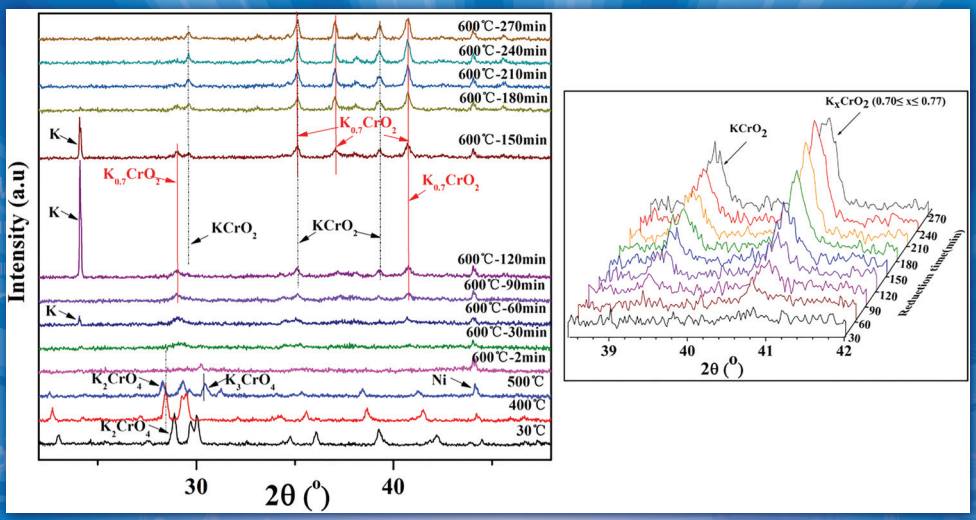
Powder Diffraction PDJ

Journal of Materials Characterization



CAMBRIDGE UNIVERSITY PRESS

Volume 32 / Number 03 / September 2017

Published online by Cambridge University Press

https://doi.org/10.1017/S0885715617000926 Published online by Cambridge University Press

Powder Diffraction
An International Journal of Materials Characterization

Volume 32 Number 3 September 2017

CODEN: PODIE2
ISSN: 0885-7156

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On the Cover: In-situ X-Ray diffraction is a key characterization tool to study phase transformations and reaction under various temperature and controlled environmental conditions. In this ***PDJ*** issue the paper "In-situ high-temperature diffraction studies of reduction of K_2CrO_4 and the formation of K_xCrO_y compounds" by Liang Shuting of Tsinghua University, the author shows in his Figures 3 (left) and 5 (right) the isothermal reduction of K_2CrO_4 powders held at 600 °C to form $KCrO_2$ and K_xCrO_2 ($0.70 < x < 0.77$). During heat to 600 °C they observed the onset of K_3CrO_4 and an amorphous intermediate phase transition. At 600 °C, after an "amorphous period" of approximately 30 min, the formation of crystalline phases K_xCrO_2 and $KCrO_2$ was observed.

Powder Diffraction is a quarterly journal published by the JCPDS-International Centre for Diffraction Data through Cambridge University Press.
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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Powder Diffraction (ISSN: 0885-7156) is published quarterly (4X annually) by the JCPDS-International Centre for Diffraction Data through One Liberty Plaza, 20th floor New York, NY 10006-1435. POSTMASTER: Send address changes to *Powder Diffraction*, One Liberty Plaza, 20th floor New York, NY 10006-1435, USA. Periodicals postage paid in New York, NY and additional mailing offices.

https://doi.org/10.1017/S0885715617000926 Published online by Cambridge University Press

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