Accepted Manuscript

Fractal analysis of X-ray diffraction patterns of zirconia-alumina mixed oxides

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PII: S0378-4371(18)30997-X
DOI: https://doi.org/10.1016/j.physa.2018.08.057
Reference: PHYSA 19943

To appear in: *Physica A*

Received date : 23 May 2017
Revised date : 7 April 2018

Please cite this article as:, Fractal analysis of X-ray diffraction patterns of zirconia-alumina mixed oxides, *Physica A* (2018), https://doi.org/10.1016/j.physa.2018.08.057

***Highlights (for review)**

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- Fractal analysis of X-ray signal of Al_2O_3-ZrO_2 provided information on crystalline structures
- Rietveld refinement suggested patterns related to incipient crystallinity.
- Detrended fluctuation analysis is useful to get insight of solids complex signals.