

Accepted Manuscript

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

E. Gordillo-Cruz, J. Alvarez-Ramirez, F. González, J.A de los Reyes

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>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

- Fractal analysis of X-ray signal of $\text{Al}_2\text{O}_3\text{-ZrO}_2$ 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.

Download English Version:

<https://daneshyari.com/en/article/7374614>

Download Persian Version:

<https://daneshyari.com/article/7374614>

[Daneshyari.com](https://daneshyari.com)