Serbian Ceramic Society Conference
ADVANCED CERAMICS AND APPLICATION IX
New Frontiers in Multifunctional Material Science and Processing

Serbian Ceramic Society
Institute of Technical Sciences of SASA
Institute for Testing of Materials
Institute of Chemistry Technology and Metallurgy
Institute for Technology of Nuclear and Other Raw Mineral Materials

PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
Serbia, Belgrade, 20-21. September 2021.

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P

THE SEM/EDS ANALYSIS OF ZEOLITE MINERALS

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The SEM/EDS analysis is one of the most important methods for characterizing and determining the morphology of minerals.In scanning electron microscopy (SEM), a highly energetic and focused electron beam scans the sample and normally provides an extremely enlarged image of the morphology of the sample, as well as information on its chemical composition using an energy dispersive spectrometer (EDS) detector. In this paper are presented the SEM/EDS investigation of natural zeolit deposit Igros and Zlatokop.

P

STRUCTURAL AND CHEMICAL PROPERTIES OF ZEOLITE FAU-TOPOLOGY

A. Radosavljevic-Mihajlovic[1], M. Stoiljkovic[2], M.Vujkovic[2], S. Smiljanic[2], A. Saponjic[3]

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Zeolite FAU is a synthetic product formed by various process of synthesis. The unit cell of zeolite of FAU topology contains 192 (Si, Al) O_4 - tetrahedra, it has tesseral symmetry and the unit cell parameter is ~ 25 A Key words: feldspar, hyalophane, crystalochemical properties.The FAU aluminosilicate network consists of a series of β-cages, which are tetrahedrally connected via D6R secondary building units. On this paper are presented the results of structural and crystalochemical analysis zeolite FAU topology. The SEM/EDS methods and X-ray powder diffraction analysis are useful for analysis.