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VINČA INSTITUTE of NUCLEAR SCIENCES, UNIVERSITY of BELGRADE
HYDROGEN STORAGE INITIATIVE SERBIA**

PROGRAM AND THE BOOK OF ABSTRACTS

**JOINT EVENT OF THE 11TH YOUNG RESEARCHERS' CONFERENCE: MATERIALS
SCIENCE AND ENGINEERING**

AND

**THE 1ST EUROPEAN EARLY STAGE RESEARCHERS' CONFERENCE ON HYDROGEN
STORAGE**

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Joint event of the 11th Young Researchers' Conference: Materials Science and Engineering and the 1st European Early Stage Researchers' Conference on Hydrogen Storage

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PHASE AND MICROSTRUCTURAL EVOLUTION DURING SINTERING OF Zr-DOPED HYDROXYAPATITE

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Doping of hydroxyapatite crystal structure with various ions is generally performed to improve biological, electrical, optical and mechanical properties of initial system. In this study, hydroxyapatite nanopowders doped with different amounts of zirconium (0, 1, 5, 10 at. %) have been sintered at different temperatures. Phase and microstructural evolution were examined by X-ray diffraction studies and field emission scanning electron microscopy.

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