

**MATERIALS RESEARCH SOCIETY of SERBIA  
INSTITUTE of TECHNICAL SCIENCES of SASA  
VINČA INSTITUTE of NUCLEAR SCIENCES, UNIVERSITY of BELGRADE  
HYDROGEN STORAGE INITIATIVE SERBIA**

**PROGRAM AND THE BOOK OF ABSTRACTS**

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

**AND**

**THE 1<sup>ST</sup> EUROPEAN EARLY STAGE RESEARCHERS' CONFERENCE ON HYDROGEN  
STORAGE**

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

**Book Title: *Joint Event of the 11<sup>th</sup> Young Researchers' Conference: Materials Science and Engineering and the 1<sup>st</sup> European Early Stage Researchers' Conference on Hydrogen Storage***  
**Program and the Book of Abstracts**

**Publisher:**

**Materials Research Society of Serbia  
Institute of Technical Sciences of SASA  
Vinča Institute of Nuclear Sciences, University of Belgrade**

**For Publisher:**

**Prof. Dr. Dragan Uskoković  
Dr. Jovan Nedeljković  
Academician Zoran Đurić**

**Editors:**

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**Design:**

**Dr. Nikola Novaković**

**Technical editor:**

**Aleksandra Stojičić**

**ISBN 978-86-7306-122-1**

**Print: Materials Research Society of Serbia : 170 e-copies**

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**Y 22**

**EXAMINATION OF THE INFLUENCE OF NANOMATERIALS CALCIUM PHOSPHATE/POLY-(DL-LACTIDE-CO-GLYCOLIDE) AND COBALT-EXCHANGED HYDROXYAPATITE ON THE VIABILITY OF SAOS-2 CELLS**

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We have examined the effect of extracts of the calcium phosphate/poly-(DL-lactide-co-glycolide) (CP/PLGA) and cobalt-exchanged hydroxyapatite (CoHAp), on the viability of Saos-2 osteoblast-like cells. Extracts were prepared by incubation for 3 days at 37<sup>0</sup>C in the cultivation medium. Conductivity and pH value of extracts were measured before viability assay. Cell viability was estimated by MTT test performed after 24 h incubation of cells with various concentrations of extracts. Extract of CP/PLGA acted more cytotoxic on osteoblasts than the extract of CoHAp. This difference in the effect of examined extracts can be explained by their different pH value and conductivity.

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CIP - Каталогизација у публикацији  
Народна библиотека Србије, Београд

66.017/.018(048)(0.034.2)

662.769.2.032:546.112(048)(0.034.2)

661.96.076(048)(0.034.2)

YOUNG Researchers Conference Materials  
Sciences and Engineering (11 ; 2012 ;  
Beograd)

Program ; and the Book of Abstracts  
[Elektronski izvor] / Eleventh Young  
Researchers' Conference Materials Sciences  
and Engineering and The First European Early  
Stage Researchers' Conference on Hydrogen  
Storage, Belgrade, December 3rd-5th, 2012 ;  
[organized by] Materials Research Society of  
Serbia ... [et al.] ; [edited by Jasmina  
Grbović Novaković, Nenad Ignjatović]. -  
Belgrade : Materials Research Society of  
Serbia : Institute of Technical Sciences of  
SASA : Vinča Institute of Nuclear Sciences,  
2012 (Belgrade : Materials Research Society  
of Serbia). - 1 elektronski optički disk  
(CD-ROM) ; 12 cm

Sistemski zahtevi: Nisu navedeni. - Nasl. sa  
naslovnog ekrana. - Tiraž 170. - Registar.

ISBN 978-86-7306-122-1

1. European Early Stage Researchers  
Conference on Hydrogen Storage (1 ; 2012 ;  
Beograd) 2. Materials Research Society of  
Serbia (Beograd)

a) Наука о материјалима - Апстракти b)  
Техничк и материјали - Апстракти c) Водоник  
- Коришћење - Апстракти d) Водоник -

Ускладиштење - Апстракти

COBISS.SR-ID 195039500