

**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 11TH YOUNG RESEARCHERS' CONFERENCE: MATERIALS
SCIENCE AND ENGINEERING**

AND

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

**Edited by:
Jasmina Grbović Novaković
Nenad Ignjatović**

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

Book Title: *Joint Event of the 11th Young Researchers' Conference: Materials Science and Engineering and the 1st 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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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 37⁰C 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
SASA : 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