

INSTITUTE OF TECHNICAL SCIENCES OF SASA
MATERIALS RESEARCH SOCIETY OF SERBIA

Programme and the Book of Abstracts

**TWENTIETH YOUNG RESEARCHERS' CONFERENCE
MATERIALS SCIENCE AND ENGINEERING**

Belgrade, November 30 – December 2, 2022



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**Materials Research Society of Serbia
&
Institute of Technical Sciences of SASA**

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Aim of the Conference

Main aim of the conference is to enable young researchers (post-graduate, master or doctoral student, or a PhD holder younger than 35) working in the field of materials science and engineering, to meet their colleagues and exchange experiences about their research.

Topics

Biomaterials
Environmental science
Materials for high-technology applications
Materials for new generation solar cells
Nanostructured materials
New synthesis and processing methods
Theoretical modelling of materials

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Results of the Conference

Beside printed «Programme and the Book of Abstracts», which is disseminated to all conference participants, selected and awarded peer-reviewed papers will be published in journal “Tehnika – Novi Materijali”. The best presented papers, suggested by Session Chairpersons and selected by Awards Committee, will be proclaimed at the Closing Ceremony. Part of the award is free-of-charge conference fee at YUCOMAT 2023.

Sponsors



ANALYSIS
LABORATORY EQUIPMENT

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Bioactive hydroxyapatite/chitosan/poly(vinyl alcohol)/gentamicin composite coating electrodeposited on titanium

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Titanium (Ti) is an implant material widely used in orthopedics due to its high corrosion resistance (naturally forms a passive oxide layer) and good mechanical properties. Although Ti has certain ability to osseointegrate, the biocompatibility and bioactivity of Ti can be significantly improved by modifying its surface. In order to improve antibacterial properties a broad spectrum antibiotic gentamicin was loaded in a composite coating of hydroxyapatite (HAP) with natural polymers chitosan (CS) and poly(vinyl alcohol (PVA) and was deposited on Ti using electrophoretic deposition (EPD) technique. EPD was carried out at the constant voltage on pure titanium plates from an aqueous suspension. Deposited HAP/CS/PVA and HAP/CS/PVA/Gent coating were characterized by X-ray diffraction (XRD), Fourier transform infrared spectroscopy (FT-IR), and field emission scanning electron microscopy (FE-SEM). The obtained results confirmed the formation of new composite coatings. Cytotoxicity against two types of cell lines (MRC-5 and L929) was investigated using trypan blue dye-exclusion test (DET) and MTT assay for assessing cell metabolic activity. The antibiotic loaded coating (HAP/CS/PVA/Gent) exhibited good antibacterial activity against *Staphylococcus aureus* and *Escherichia coli*, while preserving low cytotoxicity, indicating the high potential for biomedical applications. Excellent osteogenic properties, through the promotion of osteoblast differentiation were confirmed by ALP assay. Results were much more pronounced for HAP/CS/PVA/Gent coating. Therefore, HAP/CS/PVA/Gent coating can be considered as an excellent promising candidate for biomedical hard tissue implants.

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