

The Serbian Society for Ceramic Materials
Institute for Multidisciplinary Research (IMSI), University of Belgrade
Institute of Physics, University of Belgrade
Center of Excellence for the Synthesis, Processing and Characterization of
Materials for use in Extreme Conditions "CEXTREME LAB" - Institute of
Nuclear Sciences "Vinča", University of Belgrade
Faculty of Mechanical Engineering, University of Belgrade
Center for Green Technologies, Institute for Multidisciplinary Research,
University of Belgrade
Faculty of Technology and Metallurgy, University of Belgrade
Faculty of Technology, University of Novi Sad



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Branko Matović
Zorica Branković
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Vladimir V. Srdić

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PROGRAMME AND THE BOOK OF ABSTRACTS

5th Conference of The Serbian Society for Ceramic Materials

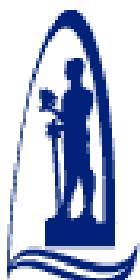
**June 11-13, 2019
Belgrade, Serbia
5CSCS-2019**

Edited by:
Branko Matović
Zorica Branković
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Vladimir V. Srđić

SPECIAL THANKS TO



Република Србија
МИНИСТАРСТВО ПРОСВЕТЕ,
НАУКЕ И ТЕХНОЛОШКОГ РАЗВОЈА



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WELCOME MESSAGE

The 5th Conference of the Serbian Society for Ceramic Materials: 5CSCS-2019 aims to review the knowledge, experience and share new ideas among the professionals, industrialists and students from research areas of ceramic materials and by taking an active part in discussions and technical sessions at the conference. The conference provides exhibitor booths for the companies and the institutions to showcase their services, products, innovations, innovative ideas and research work & results.

The conference includes all aspects of ceramics: modelling, synthesis, properties, processing and applications of bulk, films, powders, nanomaterials, composites providing a platform for academic exchange among participants from universities, institutes, companies around the region in the field of ceramics research as well as to explore a new direction for future development. The conference has an elemental feature to the distinguished motive speakers, plenary speeches, young investigators, poster presentations, oral presentations, technical workshop, and scientific sessions.

The conference is hosted and organized by the Serbian Society for Ceramic Materials, and co-organized by the Institute for Multidisciplinary Research - University of Belgrade, Center of Excellence for the Synthesis, Processing and Characterization of Materials for use in Extreme Conditions "CEXTREME LAB" - Institute of Nuclear Sciences "Vinča" - University of Belgrade, Institute of Physics - University of Belgrade, Faculty of Mechanical Engineering - University of Belgrade, Center for Green Technologies of the Institute for Multidisciplinary Research - University of Belgrade, Faculty of Technology and Metallurgy - University of Belgrade, Faculty of Technology - University of Novi Sad.

We are grateful for the support of the Ministry for education, science and technological development of the Republic of Serbia. We would also like to express our sincere thanks to the conference organizers, session chairs, presenters, exhibitors and all the conference attenders for their efforts and enthusiastic support in this exciting time in Belgrade. I look forward to meeting you and interacting with you at Conference.

Branko Matovic,
President of the Serbian Society for Ceramic Materials

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TITANIA-BASED ELECTROSPUN NANOFIBERS AND THEIR PHOTOCATALYTIC PERFORMANCE

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In this work we present detailed optimization of the titania-based electrospun nanofibers fabrication procedure. The starting solutions were prepared from stabilized titanium (IV) isopropoxide and different polymers, such as PCL (polycaprolactone) and PVP (polyvinylpyrrolidone). We report on the correlation between the processing parameters and functional properties of as synthesized fibers. Microstructural analyses performed on SEM and FE-SEM have revealed branchy morphology of nanofibers uniform in shape and size. Anatase phase in as prepared and calcined samples was disclosed by in-depth analysis of TEM images and SAED spectra. The obtained fibers were used in UV/Vis photocatalytic reactor for degradation of dye-contaminated water solutions. Promising results were observed showing improved behavior compared to referent samples. Furthermore, the influence of various dopants on the photocatalytic properties was investigated.

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Ag/TiO₂ NANOCOMPOSITE MATERIALS FOR APPLICATION IN VISIBLE-LIGHT PHOTOCATALYSIS

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In this work we present novel and simple chemical method for preparation of Ag/TiO₂ nanocomposite powders and investigate their photocatalytic performance under visible irradiation (simulated AM1.5 spectrum). Presented method involves

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