УНИВЕРЗИТЕТ У КРАГУЈЕВЦУ

ФАКУЛТЕТ ТЕХНИЧКИХ НАУКА У ЧАЧКУ

Оснивач: РЕПУБЛИКА СРБИЈА

Дозволу за рад број: 612-00-01846/2013-04 од 23. 09. 2013. године издало је Министарство просвете, науке и технолошког развоја Републике Србије, Београд

ДИПЛОМА

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ЕЛЕКТРОТЕХНИЧКО И РАЧУНАРСКО ИНЖЕЊЕРСТВО, МОДУЛ: САВРЕМЕНИ МАТЕРИЈАЛИ И ТЕХНОЛОГИЈЕ У ЕЛЕКТРОТЕХНИЦИ

Обима 180 (сто осамдесет) бодова ЕСПБ

са просечном оценом 9,75 (девет и 75/100).

Наслов докторске дисертације:

УТИЦАЈ МЕХАНИЧКЕ АКТИВАЦИЈЕ НА СВОЈСТВА MgO-TiO_2 ЕЛЕКТРОКЕРАМИКЕ

На основу тога издаје се ова диплома о стеченом научном називу

ДОКТОР НАУКА – ЕЛЕКТРОТЕХНИКА И РАЧУНАРСТВО

ДА-03-01/15-02 од 20. 05. 2015. године

У Крагујевцу

Декан

Проф. др Јерослав М. Живанић

Ректор

Проф. др Слободан Арсенијевић

ДА – 000311

Република Србија
МИНИСТАРСТВО ПРОСВЕТЕ,
НАУКЕ И ТЕХНОЛОШКОГ РАЗВОЈА
Комисија за стицање научних звања

Број: 660-01-00001/1644
21.12.2020. године
Б е о г р а д

На основу члана 24. став 2. и члана 76. став 6. Закона о науци и истраживањима ("Службени гласник Републике Србије", број 49/19), члана 3. ст. 1. и 3. и члана 40. Правилника о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 24/16, 21/17 и 38/17) и захтева који је поднео

Институт техничнккых наука САНУ у Београду

Комисија за стицање научних звања на седници одржаној 21.12.2020. године, донела је

ОДЛУКУ
О СТИЦАЊУ НАУЧНОГ ЗВАЊА

Др Сузана Филиповић

стиче научно звање

Виши научни сарадник

у области природно-математичких наука - хемија

О Б Р А З Л О Ж Е Њ Е

Институт техничнккых наука САНУ у Београду

утврдио је предлог број 165/1 од 24.06.2020. године на седници Научног већа Института и поднео захтев Комисији за стицање научних звања за доношење одлуке о испуњености услова за стицање научног звања ***Виши научни сарадник***.

Комисија за стицање научних звања је по претходно прибављеном позитивном мишљењу Матичног научног одбора за хемију на седници одржаној 21.12.2020. године разматрала захтев и утврдила да именована испуњава услове из члана 76. став 6. Закона о науци и истраживањима ("Службени гласник Републике Србије", број 49/19), члана 3. ст. 1. и 3. и члана 40. Правилника о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 24/16, 21/17 и 38/17) за стицање научног звања ***Виши научни сарадник,*** па је одлучила као у изреци ове одлуке.

Доношењем ове одлуке именована стиче сва права која јој на основу ње по закону припадају.

Одлуку доставити подносиоцу захтева, именованој и архиви Министарства просвете, науке и технолошког развоја у Београду.

ПРЕДСЕДНИК КОМИСИЈЕ

Др Ђурђица Јововић,
научни саветник

МИНИСТАР

Бранко Ружић

Прилог 3

Извештај о цитираности радова др Сузане Филиповић

на основу база података *Web of Science* и *Scopus*, 28. октобра 2024.

Укупно цитата: 610
Хетероцитата: 416
H-индекс = 15

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2. Influence of mechanochemical activation on the sintering of cordierite ceramics in the presence of Bi2O3 as a functional additive

By: Obradovic, N.; Dordevic, N.; Filipovic, S.; et al.

POWDER TECHNOLOGY Volume: 218 Pages: 157-161 Published: MAR 2012

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By: Obradovic, N.; Fahrenholtz, W. G.; Filipovic, S.; et al.
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10. Influence of Mechanical Activation on Microstructure and Crystal Structure of Sintered MgO-TiO2 System

By: Filipovic, S.; Obradovic, N.; Pavlovic, V. B.; et al.

SCIENCE OF SINTERING Volume: 42 Issue: 2 Pages: 143-151 Published: MAY-AUG 2010

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12. Effect of consolidation parameters on structural, microstructural and electrical properties of magnesium titanate ceramics

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By: Obradovic, Nina; Filipovic, Suzana; Dordevic, Natasa; et al.

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By: Filipovic, S.; Pavlovic, V. P.; Obradovic, N.; et al.

JOURNAL OF ALLOYS AND COMPOUNDS Volume: 701 Pages: 107-115 Published: APR 15 2017

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By: Obradovic, N.; Dordevic, N.; Peles, A.; et al.

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By: Obradovic, Nina; Dordevic, Natasa; Filipovic, Suzana; et al.

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JOURNAL OF ALLOYS AND COMPOUNDS Volume: 555 Pages: 39-44 Published: APR 5 2013

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Прилог 4.1

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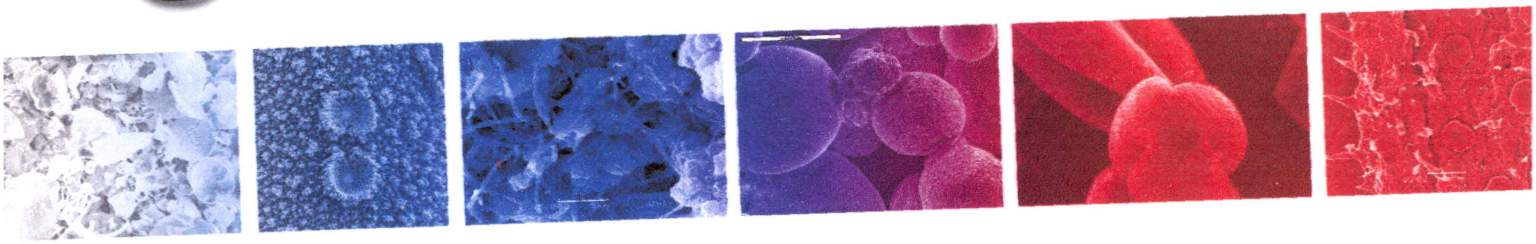

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Сузани Филиповић

ЗА НАЈБОЉУ УСМЕНУ ПРЕЗЕНТАЦИЈУ

на 4. српском конгресу за микроскопију
одржаном 11. и 12. октобра 2010. године
у Београду

председник друштва

Јасмина Грбовић Новаковић

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„МЕРЕЊЕ ПЕРМИТИВНОСТИ ЧВРСТИХ И ТЕЧНИХ ДИЕЛЕКТРИКА У КОАКСИЈАЛНИМ КОМОРАМА“

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ONLINE CONTEST

6th of July,2020

ONLINE CONTEST

6th of July,2020

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For The Invention

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Zoran BARISIC
President of Jury

INVENTIONS VS CORONA

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President of IFIA

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СРПСКО КЕРАМИЧКО ДРУШТВО
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Прилог 4.4

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Прилог 5.1

March 23, 2022

Suzana Filipovic
Institute of Technical Science of SASA
Belgrade
Serbia

Invitation Letter

International Conference: „International Conference of Experimental and Numerical Investigations and New Technologies“ CNN TECH 2022

Dear Suzana Filipovic,

We are pleased to invite you to the "International Conference of Experimental and Numerical Investigations and New Technologies, CNN Tech 2022" scheduled from 05-08 July 2022 in Zlatibor, Serbia. This Conference will be a joint effort of the University of Belgrade, Faculty of Mechanical Engineering, Innovation Center of Faculty of Mechanical Engineering and Center for Business Trainings. This Conference will examine research and development both locally and internationally, and the Conference deliberations will be on the following themes: Mechanical Engineering, Materials Science, Chemical and Process Engineering, Experimental Techniques, Numerical Methods and New Technologies.

It is an honor to invite you to participate at CNN Tech 2022 Conference as invited lecturer. Taking into consideration your outstanding scientific achievements, we believe that your contribution to the Conference topic will be very beneficial.

We look forward to a positive confirmation.

Yours sincerely,

Dr Nenad Mitrovic, Associate Professor, Chairman

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PROGRAMME AND THE BOOK OF ABSTRACTS

Publisher: Innovation Center of Faculty of Mechanical Engineering
Kraljice Marije 16, 11120 Belgrade 35
tel: (+381 11) 3302-346, fax 3370364
e-mail: cnntechno@gmail.com
web site: http://cnntechno.com, http://www.inovacionicentar.rs

Editors: Dr Martina Balac, Senior Scientific Researcher
Dr Aleksandra Dragicevic, Scientific Researcher
Dr Goran Mladenovic, Associate Professor

Technical editor Dr Goran Mladenovic, Associate Professor

Cover page: Dr Goran Mladenovic, Associate Professor

Printed in: Innovation Center of Faculty of Mechanical Engineering
Kraljice Marije 16
11120 Belgrade 35
tel: (+381 11) 3302-346

Circulation: 150 copies. The end of printing: June 2022.

ISBN: 978-86-6060-120-1

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Invited lecture

SPARK PLASMA SINTERING OF MECHANICALLY ACTIVATED MGO-TIO$_2$ SYSTEM

Suzana Filipovic[1*], Nina Obradovic[1], William Fahrenholtz[2], Steven Smith[2], Miljana Mirkovic[3], Adriana Peles[1], Antonije Djordjevic[4]

[1]Institute of Technical Science of SASA, Belgrade, Serbia,

[2]Materials Science and Engineering, Missouri University of Science and Technology,

Rolla, Missouri, United States,

[3]University of Belgrade, "VINCA" Institute of Nuclear Sciences - National Institute of the Republic of Serbia, Department of Material Science, Belgrade, Serbia

[4]Serbian Academy of Sciences and Arts, Belgrade, Serbia

*Corresponding author e-mail: suzana.filipovic@itn.sanu.ac.rs

Abstract

MgTiO3 is a material often used in different types of high-frequency capacitors, temperature compensating capacitors, and chip capacitors, so the enhancement of this material is still the focus of many research groups due to its remarkable dielectric properties. Outstanding features can only be achieved when the ceramics are highly dense. Densification of magnesium titanate by Spark Plasma Sintering (SPS) was the aim of this work. Magnesium titanate ceramics were prepared by applying mechanical activation as the first step. Powders prepared in this way were SPS sintered, at 1200°C with a heating rate of 100°C/min. After reaching the desired temperature, a uniaxial pressure of 50 MPa was applied. The dwell time at this condition was 5 min, followed by cooling to room temperature at 5°C/min. X-ray diffraction was performed in order to establish the phase composition of milled powders and obtained ceramics. Differences between samples milled in various times intervals, as well as sintered ceramics were examined by means of scanning electron microscopy (SEM) and energy dispersive spectroscopy (EDS). The presence of $MgTi_2O_5$ phase was detected in XRD and was confirmed by EDS analysis for the non-milled ceramics. In the samples obtained from milled powders, no $MgTi_2O_5$ wasn't detected in XRD patterns, but this phase was detected in EDS spectra in a lower amount. Dielectric measurements were performed at a wide range of frequencies, while the hardness of the SPS samples was measured at loads up to 10 N. The highest value of the hardness was obtained from powder milled for 15 min before SPS.

Keywords

Magnesium titanate, SPS, Mechanical activation, Dielectric properties, Hardness

Acknowledgement

This work was financially supported by the Ministry of Education, Science and Technological Development of the Republic of Serbia, through agreements related to the realization and financing of scientific research work at the Institute of Technical Sciences of SASA and University of Belgrade, Vinca Institute of Nuclear Sciences in 2022, Contract numbers: 451-03-68/2022-14/200175, 451-03-68/2022-14/200017.

Прилог 5.2

CERTIFICATE

We have honor to certify that

Suzana Filipovic

has been invited lecturer at the

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Editors:
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Printing:
Serbian Ceramic Society, Belgrade, 2024.

Edition:
120 copies

CIP - Каталогизација у публикацији Народна библиотека Србије, Београд

666.3/.7(048)
66.017/.018(048)

SRPSKO keramičko društvo. Conference Advanced Ceramics and Application : New Frontiers in Multifunctional Material Science and Processing (12 ; 2024 ; Beograd)
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Tiraž 120.

ISBN 978-86-905714-1-3

a) Керамика -- Апстракти b) Наука о материјалима -- Апстракти

COBISS.SR-ID 151937545

INV10
Effects of rare earth ions doping on microstructure and electrical properties of barium titanate ceramics

Vesna Paunović, Zoran Prijić

University of Niš, Faculty of Electronic Engineering, Aleksandra Medvedeva 14, 18000 Niš, Serbia

$BaTiO_3$ ceramics doped with donor and acceptor additives were prepared by conventional solid-state sintering. The rare earth ions (La, Sm, and Dy) were used as donor dopants, in a concentration of 0.1 to 2.0 at%, while the concentration of Mn as an acceptor was 0.05 at% in all samples. The ground and pressed specimens were sintered at 1320°C and 1350°C in an air atmosphere for two hours.
SEM investigations of the samples doped with a low concentration of additives showed that these samples are characterized by a mainly uniform and homogeneous microstructure with an average grain size ranging from 0.5 μm to 5.0 μm. In highly doped La/$BaTiO_3$ and Dy/$BaTiO_3$ samples, sintered at 1350°C, was observed the appearance of secondary abnormal grains in the fine-grained matrix and core-shell structure. For the samples sintered with Sm, a fine-grained structure was characteristic for all concentrations.
The samples sintered at 1350°C and doped with a low concentration of additives have a high value of dielectric permittivity at room temperature, 3200 for La/$BaTiO_3$, 6850 for Sm/$BaTiO_3$, and 5950 for Dy/$BaTiO_3$. An almost flat permittivity-temperature response is characteristic of samples with an additive content of 2.0 at%. The critical exponent γ and the Curie constant C' were calculated using the modified Curie-Weiss low. The obtained values of critical exponent indicate the diffuse phase transformation in heavily doped $BaTiO_3$ samples.

INV11
Synthesis and Properties of (Hf,Mo,Ti,W,Zr)B_2–(Hf,Mo,Ti,W,Z)C Dual Phase Ceramics

Suzana Filipović[1,2], Steven M. Smith II[1], G. Hilmas[1], W. Fahrenholtz[1], N. Obradović[2], S. Curtarolo[3]

[1]Materials Science and Engineering, Missouri University of Science and Technology, 65049 Rolla, Missouri, United States
[2]Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, 11000 Belgrade, Serbia
[3]Center for Extreme Materials, Duke University, 27708 Durham, USA

Composites based on high entropy borides / high entropy carbides are good candidates for applications in extreme environments based on ultra high melting temperatures above 3000 °C. Dense, dual phase (Hf,Mo,Ti,W,Z)B_2–(Hf,Mo,Ti,W,Zr)C ceramics were synthesized with varying contents of Mo and W. The final $(Hf_{0.317}Mo_{0.025}Ti_{0.317}W_{0.025}Zr_{0.317})C$–

$(Hf_{0.317}Mo_{0.025}Ti_{0.317}W_{0.025}Zr_{0.317})B_2$ was a nominally pure, dual phase ceramic, while compositions with higher amounts of Mo and W contained multiple phases. Optimized ceramic had submicron grains due to pinning effects between the two phases. Super-hard ceramic was obtained with Vickers hardness values up to 48.6 ± 2.2 GPa for an applied load of 0.49 N. The solubility limits for Mo and W into the (Hf,Mo,Ti,W,Z)B_2–(Hf,Mo,Ti,W,Zr)C ceramics were mitigated by decreasing their contents to 2.5 at. % each. A nominally pure dual phase ceramic densified by spark plasma sintering or hot pressing was obtained. A synergistic hardening effect was observed for optimized ceramic, whereby it had a higher hardness than individual HEC and HEB phases containing the same transition metals.

INV12

The Evolution of Chemical Analysis in the Construction Industry: Adapting Methodology to New Eco-Friendly Materials

Nevenka Mijatović

Institute for Materials Testing, Bulevar vojvode Mišića 43, 11000 Belgrade, Serbia

Intensive industrialization and urbanization have led to an increasing demand for solutions that contribute to faster and, at the same time, higher-quality chemical analyses in the construction industry. In the field of supplementary cementitious materials, intensive research is being conducted into the potential application of various natural and artificial materials that exhibit binding properties under specific conditions. The use of such materials, which can partially replace Portland cement, is far from reaching its full potential and represents an alternative that could sustainably produce Portland cement in the future. This, in turn, impacts the depletion of raw materials used in cement production, reduces the amount of deposited secondary raw materials, and ultimately reduces CO_2 emissions into the atmosphere.
In this regard, new challenges arise for adapting instrumental chemical methods for analyzing the compositions of multicomponent materials. The development of new ecological materials implies the development of innovative, fast, and economical chemical testing methods. For this purpose, these newly established methods need to be validated. The validation of an analytical method involves analytical procedures essential for obtaining reliable and reproducible results for routine analysis. The validation process encompasses characteristic numerical validation criteria (parameters) for evaluating the analytical method. The following parameters are used for validation assessment: selectivity, accuracy, precision, detection limit, quantification limit, sensitivity, working range, linearity, truthfulness, and robustness.
Two analytical techniques used are energy-dispersive X-ray fluorescence spectrometry (EDXRF) and inductively coupled plasma optical emission spectrometry (ICP-OES), as well as preparation methods related to them. To enhance these techniques, mathematical tools are applied through multivariate statistics. The application of multivariate statistics leads to the development of various models, some of which predict sample grinding times, while others establish connections between results obtained from different techniques or detect outliers, all contributing to the modernization of database organization.
Acknowledgements: *This investigation is supported by The Ministry of Science, Technological Development and Innovation (contract number: 451-03-66/2024-03/200012)*

Прилог 6.1

Outlook

Receipt of reviewer's report for COMMSCHEM-24-0512

From commschem@nature.com <commschem@nature.com>
Date Wed 10/2/2024 6:46 AM
To Filipovic, Suzana <sffr7@mst.edu>

1 attachments (1 MB)
1_reviewer_attachment_1_1727869534.pdf;

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Dear Dr. Filipović,

Thank you for submitting your report on "Pressure-driven Grain Fusion and Mechanical Properties Improvement of High-entropy (Ti0.2Zr0.2Nb0.2Hf0.2Ta0.2)C Ceramics", which we have safely received. A copy of this report is attached below for your reference.

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Authors investigated effect of the high pressure sintering on densification, mechanical and oxidation properties of the HEC. The methodology is well chosen. Results are good explained and correlated with previous publications. I suggest publishing with minor correction.

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Reviewer ReviewerInformation: Yes, I would like to be acknowledged by name, regardless of my report being published

Reviewer Gender: Woman

Reviewer Country/Region: Serbia

Reviewer Career Stage: Associate professor

Opt in to ORCiD? (required): Yes

Subject	**Thank you for submitting your review of Manuscript ID JAC-2024-0310.R1 for the Journal of Advanced Ceramics**
From	Yue Zhou <onbehalfof@manuscriptcentral.com>
To	<suzana.filipovic@itn.sanu.ac.rs>
Reply-To	<yznwb@mst.edu>
Date	2024-08-13 16:29

Прилог 6.2

13-Aug-2024

Dear Dr. Filipovic:

Thank you for reviewing manuscript # JAC-2024-0310.R1 entitled "Effect of grain size on mechanical properties and tribological behavior of size-tunable high entropy diboride ceramics obtained by two-step SPS sintering" for the Journal of Advanced Ceramics.

On behalf of the Editors of the Journal of Advanced Ceramics, we appreciate the voluntary contribution that each reviewer gives to the Journal. We thank you for your participation in the online review process and hope that we may call upon you again to review future manuscripts.

Sincerely,
Dr. Yue Zhou
Associate Editor, Journal of Advanced Ceramics
yznwb@mst.edu

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Reply-To	<yznwb@mst.edu>
Date	2024-10-07 11:32

Прилог 6.3

07-Oct-2024

Dear Dr. Filipovic:

Thank you for reviewing manuscript # JAC-2024-0491 entitled "Enhanced Densification and Mechanical Property of (Hf0.2Zr0.2Ti0.2Nb0.2Ta0.2)N/SiC High-entropy Composite Bulk Ceramic" for the Journal of Advanced Ceramics.

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yznwb@mst.edu

Subject **Thank you for the review of CERI-D-24-10981**
From Michael Nolan <em@editorialmanager.com>
Sender <em.ceri.276ca.8ddffc.8b56e010@editorialmanager.com>
To Suzana Filipovic <suzana.filipovic@itn.sanu.ac.rs>
Reply-To Michael Nolan <michael.nolan@tyndall.ie>
Date 2024-09-05 12:46

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Прилог 6.4

Ms. Ref. No.: CERI-D-24-10981
Title: The particle size effect of CeO2 on the structure and properties of MgAl2O4 spinel ceramics
Ceramics International

Dear Dr. Suzana Filipovic,

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Associate Editor
Ceramics International

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To Suzana Filipovic <suzana.filipovic@itn.sanu.ac.rs>
Reply-To Xinmei Hou <houxinmeiustb@ustb.edu.cn>
Date 2024-02-05 19:06

Ms. Ref. No.: CERI-D-24-00232
Title: Synthesis of rGO-reinforced MgAl2O4 spinel composites by solid-state powder route mechanism: A comparative analysis between non-reinforced and rGO-reinforced spinel composites
Ceramics International

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Xinmei Hou, Ph.D
Associate Editor
Ceramics International

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To	Suzana Filipovic <suzana.filipovic@itn.sanu.ac.rs>
Reply-To	Advanced Powder Technology <apt@sptj.jp>
Date	2023-07-19 20:54

Прилог 6.6

Ms. Ref. No.: ADVPT-D-23-00469
Article Type: Original Research Paper
Title: A new approach for the distribution concept in terms of grindability
Advanced Powder Technology

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Yuji Hotta, PhD
Editor
Advanced Powder Technology

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for serving as a reviewer for

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Journal of the American Ceramic Society

Thank you for reviewing 2 manuscripts in 2023

26 February 2024
Date

John C. Mauro
Editor-in-Chief

Subject	**Thank you for submitting your review of Manuscript ID JACERS-51977 for the Journal of the American Ceramic Society**
From	Alp Sehirlioglu <onbehalfof@manuscriptcentral.com>
To	<suzana.filipovic@itn.sanu.ac.rs>
Reply-To	<axs461@case.edu>
Date	2023-10-27 19:50

Прилог 6.8

27-Oct-2023

Dear Dr Filipovic:

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Professor Alp Sehirlioglu
Journal of the American Ceramic Society

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Sender <em.jmrt.0.8c4c9c.e0af476d@editorialmanager.com>
To Suzana Filipovic <suzana.filipovic@itn.sanu.ac.rs>
Reply-To Journal of Materials Research and Technology <support@elsevier.com>
Date 2024-06-25 19:42

Прилог 6.9

Manuscript Number: JMRT-D-24-04239

Design, preparation, and enhanced mechanical properties of novel plate-like grains toughened (Zr, Ti, W, Ta)C medium-entropy ceramics fabricated by in-situ reaction hot-pressing

Boxin Wei; Liwei Wang; Wei Jiang; Dong Wang; Lei Chen; Yujin Wang

Dear Dr. Filipovic,

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Kind regards,

Carlos Ruestes

Coeditor

Journal of Materials Research and Technology

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Sender <em.jalcom.8ab8.8aea88.07ce8b40@editorialmanager.com>
To Suzana Filipovic <suzana.filipovic@itn.sanu.ac.rs>
Reply-To Jingsheng Chen <msecj@nus.edu.sg>
Date 2024-04-23 20:58

Прилог 6.10

- Review_Due.ics(~451 B)

Ms. Ref. No.: **JALCOM-D-24-06558**
Title: Synthesis and Spark plasma sintering of Ti5Si3-Mo powders with core-shell structure
Journal of Alloys and Compounds

Dear Dr. Filipovic,

Thank you for agreeing to review manuscript number **JALCOM-D-24-06558** for Journal of Alloys and Compounds.

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Dear Suzana Filipovic,

Thank you for the review of the manuscript titled "Improvement of Dielectric Breakdown Strength in $Sr_{0.7}Bi_{0.2}TiO_3$– Modified $Sr_{0.7}Ba_{0.3}Nb_2O_6$ Ceramics" that was submitted to the NMCI2019. We appreciate your effort and expertise contributed to reviewing, without which it would be impossible to maintain the high standards of peer-reviewed journals.

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Date 2023-01-09 21:25

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Прилог 7

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Прилог 8.1

Journal of Alloys and Compounds 648 (2015) 971–979

Contents lists available at ScienceDirect

Journal of Alloys and Compounds

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Structural investigation of mechanically activated ZnO powder

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ARTICLE INFO

Article history:
Received 22 January 2015
Received in revised form
20 June 2015
Accepted 27 June 2015
Available online 8 July 2015

Keywords:
Mechanical activation
N_2 physisorption
XRD
XPS
SEM
TEM
Raman spectroscopy
ZnO

ABSTRACT

Commercially available ZnO powder was mechanically activated in a planetary ball mill. In order to investigate the specific surface area, pore volume and microstructure of non-activated and mechanically activated ZnO powders the authors performed N_2 physisorption, SEM and TEM. Crystallite size and lattice microstrain were analyzed by X-ray diffraction method. XRD patterns indicate that peak intensities are getting lower and expend with activation time. The reduction in crystallite size and increasing of lattice microstrain with prolonged milling time were determined applying the Rietveld's method. The difference between non-activated and the activated powder has been also observed by X-ray photoelectron spectroscopy (XPS). XPS is used for investigating the chemical bonding of ZnO powder by analyzing the energy of photoelectrons. The lattice vibration spectra were obtained using Raman spectroscopy. In Raman spectra some changes along with atypical resonant scattering were noticed, which were caused by mechanical activation.

1. Introduction

Due to its wide direct band gap (3.37 eV) and large excitation binding energy at room temperature, ZnO is a very good semiconductor material and an important ceramic material for application in gas sensors, catalysis, solar cells and transducers [1–6]. With its wurtzite structure improved ZnO characteristics, such as smaller and more uniformed particle size, are desirable properties for its application in multilayer ceramic capacitors and varistor, as well [7]. It is well known that the structural, morphological, and electronic properties of ZnO particles depend not only on the specific crystal structure, composition, and morphology of the oxide particles, but also on defect in their structure [8]. A nanosized powder with uniformed particle size distribution and controlled particle morphology is highly desirable.

There are many methods which can produce this type of powder such as microemulsions, colloidsynthesis routes, sol–gel methods and spray pyrolysis, ion implentation, laser ablation etc. for the preparation of various nanostructures and homogenization [1]. Among these methods, to produce nanocrystalline powder and to improve the functional properties, mechanical activation has been employed, due to its simplicity, shortened time of sample preparation and low-cost.

Mechanical activation processes are used to modify the properties of materials, to enhance the reactivity of materials and to produce advanced materials etc. The reactivity of materials is dependent on different parameters such as activation time (duration time of milling process of powder) and type of energy mill. Also the different atmosphere, where the milling process is performed, has a big influence on reactivity of the material. Mechanical activation by grinding, as a method for modifying the physical and chemical properties of powder materials, is often used in powder technology [9,10]. Specific changes that occur during grinding have a great influence on final properties of the obtained material, also improving their specific application. Mechanical activation by grinding requires a few processes and mainly occurs in four stages. In the first stage there is a destruction of material than in the second stage it can be observed a formation of a new surface on the material which is destroyed. Next stage is fine grinding and finally

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http://dx.doi.org/10.1016/j.jallcom.2015.06.247
0925-8388/© 2015 Published by Elsevier B.V.

Прилог 8.2

Materials Research Bulletin 134 (2021) 111117

Contents lists available at ScienceDirect

Materials Research Bulletin

journal homepage: www.elsevier.com/locate/matresbu

The influence of the starch coating on the magnetic properties of nanosized cobalt ferrites obtained by different synthetic methods

Marija Šuljagić [a], Predrag Vulić [b,1], Dejan Jeremić [c], Vladimir Pavlović [d,e], Suzana Filipović [e], Lukasz Kilanski [f,*], Sabina Lewinska [f], Anna Slawska-Waniewska [f], Milica R. Milenković [g], Aleksandar S. Nikolić [g], Ljubica Andjelković [a,*]

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A R T I C L E I N F O

Keywords:
A. Magnetic materials
A. Oxides
A. Nanostructures
B. Chemical synthesis
B. Magnetic properties

A B S T R A C T

To investigate the magnetic behavior of starch-coated cobalt ferrites, well-established synthetic methods, i.e., coprecipitation, mechanochemical, ultrasonically assisted coprecipitation, microemulsion, and microwave-assisted hydrothermal syntheses were chosen for their preparation. The obtained materials had pure single-phase spinel structures. Scanning and transmission electron microscopy analyses revealed that the morphology of the samples is not uniform, and particle aggregation is a dominant process. Fourier transform infrared spectra and thermogravimetric analysis confirmed the presence of starch in all–coated samples. The unusually higher saturation magnetization of starch-coated samples than their as-prepared analogs, obtained by coprecipitation, ultrasonically assisted coprecipitation, and microwave-assisted hydrothermal methods, might be explained by the Ostwald ripening mechanism induced by the coating process. A decrease in magnetization was noticed for the starch-functionalized nanomaterials synthesized by mechanochemical and microemulsion methods, in comparison to their as-prepared analogs, i.e., the size distribution of such nanoparticles is narrow, and the average diameter of the grains is near critical for the Ostwald ripening process.

1. Introduction

Stable suspensions of magnetic nanoparticles (MNPs), *aka* ferrofluids, initially developed for technological applications [1–3], recently became materials with an impact in the fields of analytical chemistry, biosensing, and nanomedicine [4–11]. Rapid development in the design of MNPs with desired properties of size, morphology, chemical composition, and surface chemistry requires a multidisciplinary point of view, both from the chemistry associated with the challenging synthetic methods and the physics utilized for the determination and optimization of their magnetic properties [12]. Magnetism is an important prerequisite to employ nanoparticles as building blocks for different biological applications: as contrast agents for magnetic resonance imaging (MRI), for bio-assays using magnetic separation, as internal heat sources for thermoablation of tumors, as drug carriers with magnetic guiding capability, for targeted drug release activated by an applied magnetic field and theranostic agents [5,6,13–16]. Functional nanoparticles in the sub-100 nm regime with controlled shapes and morphologies, mostly due to their size, can penetrate cell walls and deliver drugs for diagnostic and therapeutic purposes in an efficient manner. Moreover, regarding

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[1] 1973-2020.

https://doi.org/10.1016/j.materresbull.2020.111117
Received 12 May 2020; Received in revised form 8 October 2020; Accepted 19 October 2020
Available online 24 October 2020
0025-5408/

Прилог 8.3

Optimizacija parametara sinteze nanokompozita na bazi bakterijske nanoceluloze/Fe3O4

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ALEKSANDRA A. SKNEPNEK, Univerzitet u Beogradu, Poljoprivredni fakultet, Beograd
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Originalni naučni rad
UDC: 66.018.9
DOI: 10.5937/tehnika2103273J

Napredak u mnogim oblastima tehnike i tehnologije je blisko povezan sa razvojem novih ili unapređenjem postojećih materijala. Imajući u vidu široku primenu bakterijske nanoceluloze (BNC) u raznim oblastima svakodnevnog života, od biomedicine, ekologije do elektronike, kompoziti na bazi BNC su sve rasprostranjeniji i privlače pažnju naučne zajednice. Posebno je značajno detaljno ispitati parametre sinteze koji utiču na promene u kristalnoj strukturi i morfologiji dobijenih kompozita, imajući u vidu da ove promene imaju značajan uticaj na krajnja funkcionalna svojstva. U ovom radu je proučavan kompozitni materijal zasnovan na bakterijskoj nanocelulozi BNC (kao početnoj komponenti) i feromagnetnom Fe_3O_4. *BNC je dobijena aktivnošću bakterija sirćetnog vrenja nakon 7 dana rasta u odgovarajućem medijuma. Istraživanje je usmereno na optimizaciju uslova precipitacije* Fe_3O_4*, koji se odnose na promenu intervala stajanja BNC filmova u rastvoru soli gvožđa. Uticaj različitih uslova sinteze je analiziran metodama SEM-EDS, FTIR i XRD.*

Ključne reči: *bakterijska nanoceluloza, magnetit, precipitacija, nanokompozit*

1. UVOD

Celuloza predstavlja najzastupljeniji biopolimer na Zemlji [1]. Dosadašnjim istraživanjima ustanovljeno je da pored svojstava poput biokompatibilnosti, hidrofilnosti, poroznosti, dobrih mehaničkih svojstava, biodegradabilnosti, netoksičnosti, polifunkcionalnosti, celuloza se pokazala i kao dobar piezoelektrik [2]. Izvor celuloznih vlakana može biti biljnog i bakterijskog porekla, uz napomenu da je bakterijska celuloza najčistija u pogledu sadržaja sekundarnih komponenti. Bakterijska nanoceluloza (BNC) važi za jedan od vodećih materijala današnjice, u sferi biomedicine kao i biotehnologije [3]. Kvalitet BNC se pored, pomenutih, svojstava ogleda i u ekonomsko-ekološkom aspektu (za razliku od svih ostalih vrsta dobijanja celuloznih vlakana). Na osnovu svega toga može se zaključiti da kao takva bakterijska celuloza ima raznovrsna svojstva, koja je čine izuzetno atraktivnom za dalju modifikaciju. Obzirom na nedostatak u pogledu antibakteriskih, elektroprovodnih i feromagnetnih svojstava pribegava se funkcionalizaciji BNC u cilju dobijanja kompozitnih/nanokompozitnih materijala.

Poslednjih godina jedan od značajnih problema i zagađivača životne sredine predstavljaju industrijske i otpadne vode iz domaćinstava, koje sadrže teške metale [4]. Dosadašnja istraživanja su pokazala da Fe_3O_4-/BNC nanokompozit pokazuje afinitet prema uklanjanju teških metala, pa nalazi primenu i kao njihov odličan adsorbent [5]. Takođe kompoziti na bazi BNC nalaze široku primenu u oblasti inženjerstva tkiva, za regrutaciju i stimulaciju ćelija kao i za njihovo obnavljanje [6]. A kada je reč o postizanju antibakterijskog dejstva i tu se BNC/Fe_3O_4 pokazao kao delotvoran u kombinaciji sa nano česticama Ag [7].

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Rad primljen: 28.05.2021.
Rad prihvaćen: 10.06.2021.

DOI: 10.46793/SBT26.281J

SINTEZA I STRUKTURA BAKTERIJSKE CELULOZE PRIMENOM BAKTERIJA SIRĆETNOG VRENJA

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Izvod: Kao jedan od najzastupljenijih biopolimera na Zemlji, celuloza je našla primenu u prehrambenoj industriji, biomedicini i biotehnologiji. Dobijanje celuloznih vlakana iz biljaka je praćeno prisustvom nusproizvoda, čije je uklanjanje zahtevan proces. Stoga, materijali na bazi bakterijske nanoceluloze (BCN), nalaze sve širu primenu u svakodnevnici. Imajući u vidu prednosti BCN, u ovom radu su ispitivane promene u strukturi i morfologiji BCN u funkciji parametara sinteze. Analiziran je uticaj vrste i zapremine medijuma, kao i dužine prečišćavanja u NaOH, na promene u prinosu i strukturi BCN. Navedene promene su ispitivane metodama XRD, FTIR, kao i primenom SEM i EDS analize.

Ključne reči: bakterijska celuloza, kombuha, bakterije sirćetnog vrenja, SEM, XRD.

Uvod

Kao sastavni deo biljaka, nekih rodova bakterija, algi i gljiva, celuloza predstavlja biopolimer koji je veoma rasprostranjen i zastupljen u najrazličitijim oblastima svakodnevnog života (Siro i Plackett, 2010). Koristi se u pripremi kozmetičkih preparata, proizvodnji i preradi hrane, elektronici, tekstilnoj industriji, proizvodnji papira, antimikrobnim oblogama, membranama za slušalice, optičkim senzorima, itd. (Gama i sar., 2013.). Za mnoge od navedenih oblasti primene celuloze bitan je faktor njene „čistoće". Postoje dva najznačajnija i najčistija izvora dobijanja celuloznih vlakana, a to su biljna celuloza (BC) i bakterijska celuloza (BCN). Međutim, dobijanje celuloznih vlakana iz biljaka predstavlja dugotrajan i ekološki štetan proces, jer se sporedne komponente koje ona sadrži (lignin, hemiceluloza, pektin i inulin) uklanjaju hemijskim procesom hidrolize jakim kiselinama (Sun, 2008). Takođe povećanje potražnje za derivatima BC povećava i potrošnju drveta kao sirovine, što dovodi do krčenja šuma i nastajanja globalnog ekološkog problema (Park i sar., 2003). S druge strane kada je

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Прилог 8.5

polymers

MDPI

Article

Structural Characterization of Nanocellulose/Fe_3O_4 Hybrid Nanomaterials

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* Correspondence: vladimirboskopavlovic@gmail.com

Abstract: The rise of innovation in the electrical industry is driven by the controlled design of new materials. The hybrid materials based on magnetite/nanocellulose are highly interesting due to their various applications in medicine, ecology, catalysis and electronics. In this study, the structure and morphology of nanocellulose/magnetite hybrid nanomaterials were investigated. The effect of nanocellulose loading on the crystal structure of synthesized composites was investigated by XRD and FTIR methods. The presented study reveals that the interaction between the cellulose and magnetic nanoparticles depends on the nanocellulose content. Further, a transition from cellulose II to cellulose I allomorph is observed. SEM and EDS are employed to determine the variation in morphology with changes in component concentrations. By the calculation of magnetic interactions between adjacent Fe^{3+} and Fe^{2+} ions within composites, it is determined that ferromagnetic coupling predominates.

Keywords: nanocomposites; polymer synthesis; nanocellulose; Fe_3O_4 functionalization; DFT calculation

check for updates

Citation: Janićijević, A.; Pavlović, V.P.; Kovačević, D.; Perić, M.; Vlahović, B.; Pavlović, V.B.; Filipović, S. Structural Characterization of Nanocellulose/Fe_3O_4 Hybrid Nanomaterials. *Polymers* **2022**, *14*, 1819. https://doi.org/10.3390/polym14091819

Academic Editor: Almira Ramanavičienė

Received: 24 February 2022
Accepted: 15 March 2022
Published: 29 April 2022

1. Introduction

Development of hybrid organic/inorganic composites attracts great attention in the scientific community. Hybrid multifunctional materials have advantages, due to the combination of different properties of organic–inorganic ingredients, where an organic component, such as nanocellulose, contributes with high flexibility, dielectric and piezoelectric properties, while an inorganic component may contribute with magnetic and electric properties [1]. Several studies emphasized the importance of achieving improved material properties through the prevention of the mutual inhibition of different origin fillers and the promotion of compatibility at the interface matrix/added components. The resulting hybrid material has demonstrated diverse properties, which can be tailored by changing components, loadings, morphology, and the arrangement of an individual component, etc. [2,3]. As a result, the materials with a broad range of applications, such as drug delivery, magnetic resonance imaging (MRI), sensors, magnetic storage media, photocatalysts and electromagnetic absorption materials, etc., can be developed [4–9].

Прилог 8.6

Journal of Inorganic and Organometallic Polymers and Materials
https://doi.org/10.1007/s10904-023-02953-w

RESEARCH

Impact of Nanocellulose Loading on the Crystal Structure, Morphology and Properties of PVDF/Magnetite@NC/BaTiO$_3$ Multi-component Hybrid Ceramic/Polymer Composite Material

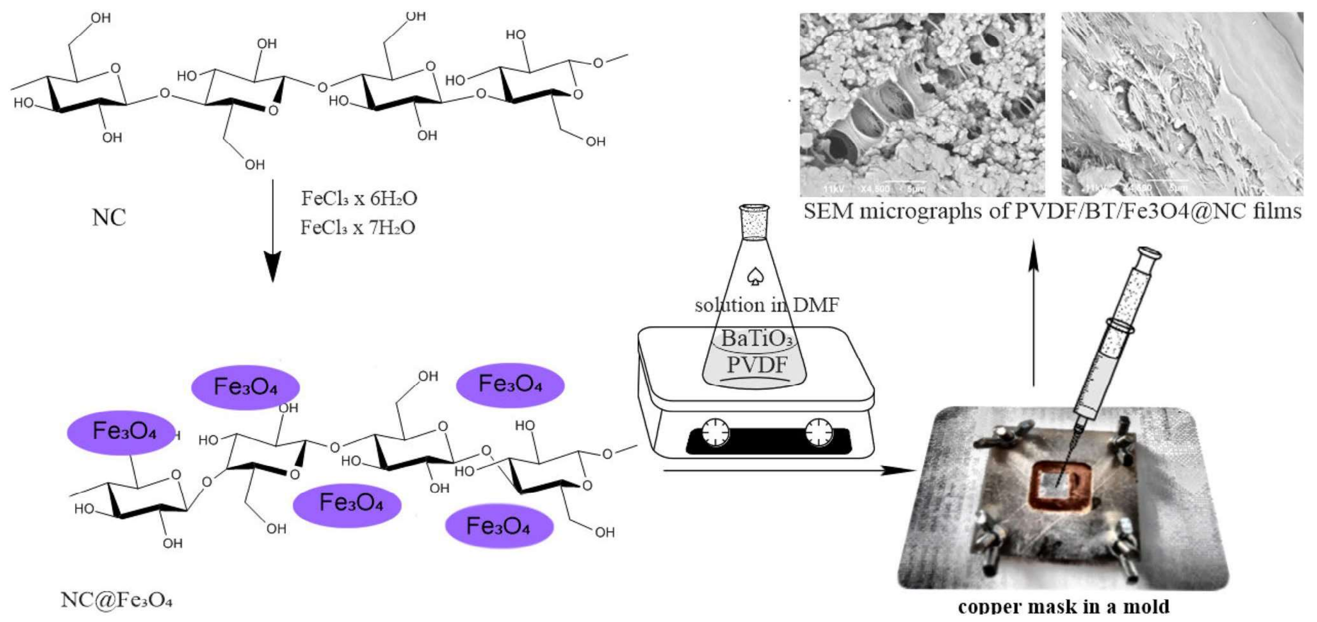
Aleksandra Janićijević[1] · Vera P. Pavlović[2] · Danijela Kovačević[1] · Nenad Đorđević[1] · Aleksandar Marinković[3] · Branislav Vlahović[4,5] · Abdennaceur Karoui[4] · Vladimir B. Pavlović[6] · Suzana Filipović[7]

Received: 11 April 2023 / Accepted: 20 November 2023

Abstract

The hybrid multifunctional magnetic organic/inorganic composite materials, with addition of optimal filler type and quantities are attractive due to wide range of potential application, from various pressure sensors, through smart packaging, to tissue engineering and medicine. The structural, morphological and magnetic properties of polyvinylidene fluoride/nanocellulose/magnetite@BaTiO$_3$ hybrid films were investigated. The presented study revealed significant impact of nanocellulose (NC) content on formation of the polymorphs of PVDF, responsible for ferro-, piezo- and pyroelectric properties. The structural characterization, XRD and Raman measurements confirmed enhancement of the β and γ phases when the loading of NC higher then 4 wt% in multi-component hybrid films. The saturation magnetization value gradually raises with increasing amount of NC and reaches its maximum value of 41.2 emu/g at content of 4 wt% NC. Further, addition of NC decreases saturation magnetization value regardless of constant amount of magnetite, indicating optimal content of NC substrate for co-precipitation of Fe$_3$O$_4$ onto NC matrix.

Graphical Abstract



Keywords Hybrid composites · Nanocellulose · Fe$_3$O$_4$ functionalization · PVDF · Magnetic properties

Extended author information available on the last page of the article

Published online: 29 November 2023

Прилог 8.7

polymers

MDPI

Article

Dielectric and Structural Properties of the Hybrid Material Polyvinylidene Fluoride-Bacterial Nanocellulose-Based Composite

Aleksandra Janićijević [1,*], Suzana Filipović [2], Aleksandra Sknepnek [3], Branislav Vlahović [4,5], Nenad Đorđević [1], Danijela Kovacević [1], Miljana Mirković [6], Ivan Petronijević [7], Predrag Zivković [8], Jelena Rogan [8] and Vladimir B. Pavlović [3]

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Citation: Janićijević, A.; Filipović, S.; Sknepnek, A.; Vlahović, B.; Đorđević, N.; Kovacević, D.; Mirković, M.; Petronijević, I.; Zivković, P.; Rogan, J.; et al. Dielectric and Structural Properties of the Hybrid Material Polyvinylidene Fluoride-Bacterial Nanocellulose-Based Composite. *Polymers* **2023**, *15*, 4080. https://doi.org/10.3390/polym15204080

Academic Editor: Amir Masoud Pourrahimi

Received: 26 July 2023
Revised: 12 September 2023
Accepted: 19 September 2023
Published: 13 October 2023

Abstract: In the search for environmentally friendly materials with a wide range of properties, polymer composites have emerged as a promising alternative due to their multifunctional properties. This study focuses on the synthesis of composite materials consisting of four components: bacterial nanocellulose (BNC) modified with magnetic Fe_3O_4, and a mixture of $BaTiO_3$ (BT) and polyvinylidene fluoride (PVDF). The BT powder was mechanically activated prior to mixing with PVDF. The influence of BT mechanical activation and BNC with magnetic particles on the PVDF matrix was investigated. The obtained composite films' structural characteristics, morphology, and dielectric properties are presented. This research provides insights into the relationship between mechanical activation of the filler and structural and dielectric properties in the PVDF/BT/BNC/Fe_3O_4 system, creating the way for the development of materials with a wide range of diverse properties that support the concept of green technologies.

Keywords: dielectric properties; multiferroic; laminate composite material; bacterial nanocellulose (BNC); PVDF

1. Introduction

Hybrid materials are a broad research field, focusing on the synthesis of new and innovative materials [1]. These materials offer unique properties that bring numerous benefits to various aspects of human life. Key areas of interest include the development of sustainable biosensors, active and intelligent packaging, renewable energy storage materials, batteries, nanogenerators, and microchips [2–4]. However, creating such materials poses a challenge due to the need to combine different material classes with the aim to develop a flexible, biodegradable, biocompatible material with multiferroic properties. In this context, it is crucial to consider the environmental impact of materials while meeting practical criteria. Traditional packaging materials mainly are not sustainable, thus requiring the

Прилог 8.9

polymers

MDPI

Article

Structural, Mechanical, and Barrier Properties of the Polyvinylidene Fluoride-Bacterial Nanocellulose-Based Hybrid Composite

Aleksandra Janićijević [1,*], Suzana Filipović [2], Aleksandra Sknepnek [3], Ana Salević-Jelić [3], Radmila Jančić-Heinemann [4], Miloš Petrović [4], Ivan Petronijević [5], Marina Stamenović [1], Predrag Živković [4], Nebojša Potkonjak [6,*] and Vladimir B. Pavlović [3]

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[6] Vinča Institute of Nuclear Sciences—Nation Institute of the Republic of Serbia, University of Belgrade, Mike Petrovica Alasa 12-14, 11000 Belgrade, Serbia
* Correspondence: ajanicijevic@atssb.edu.rs (A.J.); npotkonjak@vin.bg.ac.rs (N.P.)

Abstract: This study presents an analysis of films which consist of two layers; one layer is PVDF as the matrix, along with fillers $BaTiO_3$ (BT), and the second is one bacterial nanocellulose (BNC) filled with Fe_3O_4. The mass fraction of BT in PVDF was 5%, and the samples were differentiated based on the duration of the mechanical activation of BT. This innovative PVDF laminate polymer with environmentally friendly fillers aligns with the concept of circular usage, resulting in a reduction in plastic content and potential improvement of the piezoelectric properties of the entire composite. This work presents new, multifunctional "green" packaging materials that potentially could be a good alternative to specific popular materials used for this purpose. The synthesis of the films was carried out using the hot press method. Tensile tests, water vapor permeability examination, and structural analyses using SEM-EDS and FTIR have been conducted. The sample PVDF/BT20/BNC/Fe_3O_4 exhibited the best barrier properties (impermeability to water vapor), while the highest tensile strength and toughness were exhibited by the PVDF/BT5/BNC/Fe_3O_4 sample.

Keywords: laminate composite material; PVDF; BNC; tensile test; water vapor permeability

Citation: Janićijević, A.; Filipović, S.; Sknepnek, A.; Salević-Jelić, A.; Jančić-Heinemann, R.; Petrović, M.; Petronijević, I.; Stamenović, M.; Živković, P.; Potkonjak, N.; et al. Structural, Mechanical, and Barrier Properties of the Polyvinylidene Fluoride-Bacterial Nanocellulose-Based Hybrid Composite. *Polymers* **2024**, *16*, 1033. https://doi.org/10.3390/polym16081033

Academic Editor: Agnieszka Tercjak

Received: 6 March 2024
Revised: 5 April 2024
Accepted: 8 April 2024
Published: 10 April 2024

1. Introduction

Contemporary demands for intelligent and smart packaging materials set high standards in terms of durability, product protection, multifunctionality, and environmental sustainability. Packaging needs to simultaneously provide a reliable barrier, extend the shelf life of the products, reduce the environmental footprint, and allow for an attractive design. In this context, composite materials become pivotal, and one of the prominent solutions is composites with poly(vinylidene fluoride) (PVDF) [1]. PVDF stands out as an exceptionally chemical- and heat-resistant versatile polymeric material, showcasing its adaptability across a diverse range of applications. It also possesses good oxidative stability, making it suitable for practical use in various fields, such as sensors, electronic devices, piezoelectric generators, tissue engineering scaffolds, and portable analytical devices [2,3]. Furthermore, PVDF is also environmentally friendly, featuring very low adhesion regarding microorganisms (growth of fungi, algae, and microbial films) [4,5]. On the other hand, it is one of the least flammable materials, melting slowly without emitting significant amounts of smoke [4,6,7]. Composites based on PVDF stand out in the field

Прилог 8.10

Универзитет у Београду – Факултет за физичку хемију

ИЗВЕШТАЈ О ИЗРАДИ СТРУЧНЕ ПРАКСЕ

ИМЕ И ПРЕЗИМЕ СТУДЕНТА:	Данијела Текић	
БРОЈ ИНДЕКСА:	210/2021	
ИНСТИТУЦИЈА У КОЈОЈ ЈЕ РЕАЛИЗОВАНА СТРУЧНА ПРАКСА:	Институт техничких наука САНУ	
СТУДЕНТ ЈЕ У РАДНОМ ОДНОСУ У ИНСТИТУЦИЈИ	ДА[1]	НЕ
УКОЛИКО ЈЕ ОДГОВОР **НЕ** ПОПУНИТИ ПОЉА У НАСТАВКУ		
БРОЈ УГОВОРА О РЕАЛИЗАЦИЈИ СТРУЧНЕ ПРАКСЕ:	193/2 od 27.04.2022.	
ОДГОВОРНО ЛИЦЕ/МЕНТОР:	др Смиља Марковић	
ПЕРИОД РЕАЛИЗАЦИЈЕ СТРУЧНЕ ПРАКСЕ:	9-13. мај 2022. год.	

Попуњава институција у којој је реализована стручна пракса

ОПИС РАДА У ТОКУ ИЗРАДЕ СТРУЧНЕ ПРАКСЕ / ОПИС ПОСЛОВА ЗАПОСЛЕНОГ СТУДЕНТА

У току свог рада у ИТН САНУ, мастер студент Данијела Текић била је упозната са различитим методама процесирања и карактеризације материјала, којима се ми у ИТН САНУ бавимо.

У оквиру стручне праксе у ИТН САНУ Данијела Текић је учествовала у:
1. синтези наноструктурног цинк оксида поступком микроталасног процесирања (са др Аном Станковић)
2. ФТИР карактеризацији (са др Сузаном Филиповић)
3. ДСЦ карактеризацији (са др Мајом Јовић)
4. одређивању расподеле величина честица (са др Зораном Стојановићем)
5. ТГ/ДТА карактеризацији (са др Ненадом Филиповићем)
6. дилатометријској карактеризацији (са др Небојшом Лабусом) и
7. одређивању оптичких карактеристика материјала методама фотолуминисцентне и УВ Вис ДРС спектроскопије (са др Иваном Динић)

ДАТУМ: 23. мај 2022.	ПОТПИС ОДГОВОРНОГ ЛИЦА/МЕНТОРА

Попуњава Факултет за физичку хемију

На основу достављеног извештаја о изради стручне праксе констатује се да је студент ______________________, бр. индекса ____________, испунио обавезе предвиђене планом и програмом мастер академских студија физичке хемије у обиму од 3 ЕСПБ.

ДАТУМ:	Надлежни продекан

[1] Уколико је студент у радном односу потребно је доставити и потврду од стране послодавца.

Прилог 8.11

РЕПУБЛИКА СРБИЈА
УНИВЕРЗИТЕТ У БЕОГРАДУ
ТЕХНОЛОШКО МЕТАЛУРШКИ ФАКУЛТЕТ
Бр. 35/261
09 NOV 2023 год.
БЕОГРАД
ДII

На основу чл. 40. став 3. Закона о високом образовању, чл. 112. став 3. Статута Универзитета у Београду, чл. 88. став 3. Статута ТМФ-а и чл. 43. Правилника о докторским студијама ТМФ-а на седници Наставно-научног већа Технолошко-металуршког факултета од 09.11.2023. године, донета је

О Д Л У К А
о прихватању Реферата Комисије за оцену подобности теме и кандидата за израду докторске дисертације

Прихвата се Реферат Комисије за оцену подобности теме и кандидата и одобрава израда докторске дисертације **Александре Јанићијевић**, број индекса 4026/18, под називом: **„Синтеза и карактеризација материјала за мултифункционалну активну амбалажу на бази наноцелулозе и поли(винилиден-флуорида) уз додатак пунилаца баријум-титаната и магнетита“.**

Одлуку о давању сагласности на предлог теме докторске дисертације доноси Универзитет у Београду.

За менторе се одређују др Предраг Живковић, ванредни професор Универзитета у Београду, Технолошко-металуршки факултет и др Сузана Филиповић, виши научни сарадник Института техничких наука САНУ у Београду.

Одлуку доставити: Универзитету у Београду, кандидату, менторима, Служби за наставно студентске послове и архиви Факултета.

Д Е К А Н

Проф. др Петар Ускоковић

УНИВЕРЗИТЕТ У БЕОГРАДУ ТЕХНОЛОШКО-МЕТАЛУРШКИ ФАКУЛТЕТ

УНИВЕРЗИТЕТ У БЕОГРАДУ

Адреса: Студентски трг 1, 11000 Београд, Република Србија
Тел.: 011 3207400; Факс: 011 2638818; E-mail: kabinet@rect.bg.ac.rs

ВЕЋЕ НАУЧНИХ ОБЛАСТИ
ТЕХНИЧКИХ НАУКА

Београд, 20. новембар 2023. год.
02 број: 61206-4236/2-23
тсн

На основу члана 48 став 5 тачка 3 Статута Универзитета у Београду („Гласник Универзитета у Београду“, бр. 201/18, 207/19, 213/20, 214/20, 217/20, 230/21, 232/22, 233/22, 236/22, 241/22, 243/22, 244/23, 245/23 и 247/23) и члана 32 Правилника о докторским студијама на Универзитету у Београду („Гласник Универзитета у Београду”, бр. 191/16, 212/19, 215/2020, 217/2020, 228/21, 230/21 и 241/22), а на захтев Технолошко-металуршког факултета број: 35/261 од 13. новембра 2023. године, Веће научних области техничких наука, на седници одржаној 20. новембра 2023. године, донело је

О Д Л У К У

ДАЈЕ СЕ САГЛАСНОСТ на Одлуку Наставно-научног већа Технолошко-металуршког факултета о прихватању теме докторске дисертације **Александре Јанићијевић**, под називом „Синтеза и карактеризација материјала за мултифункционалну активну амбалажу на бази наноцелулозе и поли(винилиден-флуорида) уз додатак пунилаца баријум-титаната и магнетита“ и одређивању проф. др Предрага Живковића и др Сузане Филиповић за менторе.

ПРЕДСЕДНИК ВЕЋА

проф. др Горан Марковић

Доставити:
- Факултету,
- Архиви Универзитет

УНИВЕРЗИТЕТ У КРАГУЈЕВЦУ
ФАКУЛТЕТ ТЕХНИЧКИХ НАУКА
ЧАЧАК

UNIVERSITY OF KRAGUJEVAC
FACULTY OF TECHNICAL SCIENCES
ČAČAK

Институт техничких наука САНУ
Кнез Михалова 35
11 000 Београд

Др Сузана Филиповић, виши научни сарадник Института техничких наука САНУ, је ангажована на докторским академским студијама Факултета техничких наука у Чачку, студијски програм Електротехничко и рачунарско инжењерство, модул Савремени материјали и технологије у електротехници, као наставник на предмету Мултифероични материјали (други семестар - фонд часова 5+2).

У Чачку, 28. 10. 2024. године

Проф. др Небојша Митровић
Продекан за науку и међународну сарадњу

[3]University of Belgrade - Faculty of Chemistry, Department of Biochemistry, Studentski trg 12 – 16, 11000 Belgrade, Serbia

16.50-17.05 **Creating of highly active calcium-silicate phases for application in endodontics**
B. Čolović, V. Jokanović, N. Jović
Institute for Nuclear Sciences "Vinča", University of Belgrade, Belgrade, Serbia

17.05-17.20 **Filler based limestone polymer industry**
Slavica Mihajlović, Živko Sekulić, Dragan Radulović, Vladimir Jovanović, Milan Petrov
Institute for Technology of Nuclear and Other Mineral Raw Materials,
86 Franche d' Esperey st., 11000 Belgrade, Serbia

17.20-17.35 **Porous sintered scaffold based on bioactive polyphosphate glass**
Vladimir D. Živanović[1], Mihailo B. Tošić [1], Jelena D. Nikolić [1], Srđan D. Matijašević [1], Snežana N. Zilđović [1], Snežana R. Grujić [2], Sonja V. Smiljanić[2]
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[2] Faculty of Technology and Metallurgy, University of Belgrade, Karnegijeva 4, 11000 Belgrade, Serbia

17.35-17.50 **Modified Precipitation Route for Preparation of Nanocrystalline $NiFe_2O_4$**
Vladan Ćosović[1], Aleksandar Ćosović[2], Dragana Živković[3], Tomáš Žák[4], Bohumil David[4], Nadežda Talijan[1]
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[3] Technical Faculty in Bor, University of Belgrade, Vojske Jugoslavije 12, 19210 Bor, Serbia
[4] CEITEC IPM, Institute of Physics of Materials AS CR, v.v.i., Žižkova 22, CZ-616 62 Brno, Czech Republic

17.50-18.05 **Functionalized porous nanocomposite as phenol derivatives sorbent**
S. Marinović[1], A. Milutinović-Nikolić[1], A. Nastasović[2], M. Žunić[1], Z. Vuković[1], D. Antonović[3], D. Jovanović[1]
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[2]University of Belgrade Institute of Chemistry, Technology and Metallurgy, Department of Chemistry, Njegoševa 12, 11000 Belgrade, Republic of Serbia
[3]University of Belgrade - Faculty of Technology and Metallurgy, Belgrade, Serbia

Hall, 1st floor

18.05 – 19.00 **Poster Session**
Chairpersons: Ivan Dugandzic, Suzana Filipovic

Cocktail

Прилог 9.2

Thursday, September 22nd, 2016

Hall, 1st floor

08.00–09.00 **Registration**
Posters Installation

Blue Hall 2, 1st floor

09.00–10.40 **Keynote Session 1**
Chairpersons: Smilja Marković, Suzana Filipović

09.00–09.25 **KN1 Bioelectrochemical harvesting of greenhouse gases**
Robina Farooq, Saleem Farooq Shaukat
COMSATS Institute of Information Technology, Lahore, Pakistan

09.25–09.50 **KN2 Metallic Butterfly Scales: Fabrication and Their Plasmonic Applications**
Jiajun Gu
State Key Laboratory of Metal Matrix Composites, Shanghai Jiao Tong University, China

09.50–10.15 **KN3 Modeling Liquid Bridge Rupture Induced by Grain Rearrangement**
Zoran S. Nikolic
University of Niš, Faculty of Electronic Engineering, Department of Microelectronics, Niš, Serbia

10.15–10.40 **KN4 Electric Discharge Coating of Metals with Ceramic Compounds**
Şükrü Talaş
Department of Metallurgical and Materials Engineering, Faculty of Technology Afyon Kocatepe University, A.N.S. Campus, Turkey

10.40–11.00 **Coffee Break** **Hall, 1st floor**

Blue Hall 2, 1st floor

11.00–13.00 **1st Session: Basic Ceramic and Sintering**
Chairpersons: Vaclav Pouchly, Nina Obradović

11.00–11.20 **INV1 Curie-Weiss Law Fractal Corrections and Clausius-Mossotti Equation**
Vojislav V. Mitić[1,2], Ljubiša M. Kocić[1], Vesna V. Paunović[1]
[1]University of Niš, Faculty of Electronic Engineering, Niš, Serbia
[2] Institute of Technical Sciences of SASA, Belgrade, Serbia

11.20–11.40 **INV2 Resonant ultrasound spectroscopy in the study of relaxation processes in tetragonal tungsten bronzes**
Andrei Rotaru
INFLPR – National Institute for Laser, Plasma and Radiation Physics, Laser Department, Bucharest, Romania

Прилог 9.3

Tuesday, September 18th, 2018

	Hall, 1st Floor
08.00 - 09.00	**Registration** **Posters and Exibition Installation**

	Blue Hall, 1st Floor
09.00 - 10.45	**Session: Basic Ceramic Science and Sintering 1** **In memoriam of Academician Momčilo Ristić** *Chairpersons: Nina Obradović, Suzana Filipović*
09.00 - 09.30	**PL 14** **Development of porous and dense Si3N4 bodies for different applications** Farhad Golestanifard School of Metallurgy & Materials Engineering, Iran University of Science and Technology (IUST), Narmak, Tehran, Iran
09.30 – 09.55	**KN-BCS 1** **Structural and magnetic ordering in polycrystalline $Sm_{0.5}Ca_{0.2}Sr_{0.3}MnO_3$ perovskite** F.A.Khan[1] , M. A. A. Bally[1], P. Svedlindh[2], S.A. Ivanov[2], P.Nordblad[2], M.S. Andersson[2] [1] Bangladesh university of Engineering and Technology (BUET), Dhaka-1000 Bangladesh [2] Department of Engineering Sciences, Solid State Physics Division, Uppsala University, Sweden
09.55 - 10.15	**INV-BCS 1** **Mathematical modeling in the process of sintering MgO from seawater** J. Jakić, M. Labor, V. Martinac Faculty of Chemistry and Technology, Ruđera Boškovića 35, 21000 Split, Croatia
10.15 - 10.30	**Sponsors- B.Brindić** **(Optoelectronic Group Harder Digital)**
10.30-10.45	**Sponsors- S. Žižek** **(Scan)**
10.45 - 11.00	**Coffee Break** — **Hall, 1st Floor**

16.15 - 16.30	**Coffee Break**	**Hall, 1st Floor**

Club SASA, Mezzanine

16.30 - 18.00 **Poster Session**

Chairpersons: Suzana Filipović, Marina Vuković and Sandra Veljković

13.20 - 13.35 **ORL Magnetic materials, Curie-Weiss law and fractal correction**

Vojislav V. Mitić[1,2], Cristina Serpa[3,4] Aleksandar Stajčić[5], Kouros Khamoushi[6], Vesna Paunović[1], Sanja Aleksić[1] and Branislav Vlahović[7]
[1]University of Nis, Faculty of Electronic Engineering, Nis, Serbia
[2]Institute of Technical Sciences, Serbian Academy of Sciences and Arts, Belgrade, Serbia
[3]ISEL - Instituto Superior de Engenharia de Lisboa, Lisbon, Portugal
[4]CMAFcIO - Centro de Matemática, Aplicações Fundamentais e Investigação Operacional, Faculdade de Ciências da Universidade de Lisboa, Campo Grande, 1749-016, Lisbon, Portugal
[5]Center of Microelectronic Technologies, Institute of Chemistry, Technology and Metallurgy – National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia
[6]Natural Science, Tampere University, P.O. Box 1001, FI-33014 Tampere, 33720, Finland
[7]Mathematics and Physics Department, North Carolina Central University, Durham, NC 27707, USA

14.00 - 15.00 **Buffet Lunch** **Club SASA, Mezzanine**

Hall 2, 1st Floor

15.00 - 15.45 **Annual meeting of the Serbian Ceramic Society**

15.45 – 16.30 **American Ceramic Society Serbian Chapter Round Table**

16.30 - 17.00 **Coffee Break** **Hallway, 1st Floor**

Club SASA, Mezzanine

17.00-18.00 **Poster Session**

Chairpearsons: Suzana Filipovic, Ivana Dinic & Bojana Markovic

18.00 **Awards &Closing Ceremony**

Wednesday, September 20th, 2023.

Hallway, 1st Floor

08.00 - 09.00	**Registration& Poster Installation**
09.00 - 10.00	**Poster Session II** — **Club SASA**

Hall 2, 1st Floor

10.00 - 12.00 **Basic Ceramics& Sintering**
Chairpersons: Suzana Filipović & Jelena Živojinović

10.00 - 10.30

PL The role of powder selection and microstructure homogeneity to mechanical properties of zirconia toughened alumina composites

Frank Kern
Institut für Fertigungstechnologie keramischer Bauteile UniversitätStuttgart Allmandring 7B, D-70569 Stuttgart

10.30 - 11.00

PL Thermal, Electrical, and Mechanical Properties of (Ti,Cr)B_2 Ceramics

Gregory E. Hilmas
Missouri University of Science and Technology, Department of Materials Science and Engineering, 222 McNutt Hall; 1400 N. Bishop Avenue, Rolla, MO 65409, United States

11.00 - 11.20

INV Hybrid Nanoscale Materials for Convergent Technologies

V. B. Pavlović[1], G. Vuković[2], M. Nikolić[3], V.P. Pavlović[4], M.Perić[5], S. Nenadović[5], M. Ivanović[5], M. Mirković[5], V.Djoković[5], S. Knežević[5], M.Suljagić[6], Lj.Andjelković[6], A. Janićijević[7], D. Kovačević[7], S.Filipović[8], J. Vujancević[8], B. Vlahovic[9]
[1]University of Belgrade, Faculty of Agriculture, Belgrade, Serbia
[2]University of Wisconsin-Madison, USA
[3]University of Kragujevac, Faculty of Agronomy, Čačak, Serbia
[4]Faculty of Mechanical Engineering, University of Belgrade, Belgrade, Serbia
[5]University of Belgrade, Institute of Nuclear Sciences Vinca, Belgrade, Serbia
[6]University of Belgrade, Department of Chemistry, IChTM, Belgrade, Serbia
[7]The Academy of Applied Technical Studies Belgrade, Belgrade, Serbia

Прилог 9.7

Thursday, September 19th, 2024.

Hallway, 1st Floor

08.00 – 09.00	**Registration**
09.00 –10.00	**Poster Session II** — **Club SASA**
	Blue Hall, 1st Floor
10.00 – 12.00	**Basic Ceramics & Sintering** **Chairperson: Suzana Filipović**
10.00 – 10.30	**PL Ultrahigh Temperature Fuel Forms for Nuclear Thermal Propulsion** Gregory E. Hilmas Missouri University of Science and Technology, Department of Materials Science and Engineering, 222 McNutt Hall; 1400 N. Bishop Avenue, Rolla, MO 65409, United States
10.30 – 11.00	**PL Thermodynamic Analysis of Dual-Phase High Entropy Ceramics** William G. Fahrenholtz[1], Steven M. Smith II[1], Gregory E. Hilmas[1], Stefano Curtarolo[2] [1]Materials Science and Engineering Department Missouri University of Science and Technology Rolla, MO 65409 United States [2]Center for Extreme Materials and Department of Mechanical Engineering and Materials Science Duke University Durham, NC 27708 United States
11.00 – 11.30	**PL Ceramic and Rare Earth Elements** Ilija Brčeski[1,2] [1]Faculty of Chemistry, University of Belgrade, Studentski trg 12-16, Belgrade [2]European Academy of Sciences and Arts, St. Peter-Bezirk 10, Salzburg, Austria
11.30 – 11.45	**ORL The influence of mechanical activation parameters as a function of producing a Magnesium aluminate ($MgAl_2O_4$) spinel** A. Peleš Tadić[1], J. Živojinović[1], S. Marković[1], N. Tadić[2], S. M. Lević[3], V. Pavlović[3], S. Filipović[1], N. Obradović[1] [1]Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, 11000 Belgrade, Serbia [2]University of Belgrade, Faculty of Physics, 11000 Belgrade, Serbia [3]University of Belgrade, Faculty of Agriculture, 11080 Belgrade, Serbia
11.45 – 12.00	**ORL Anisotropic Cracking and Lack Thereof in MAX Phases** Miloš Dujović, Sahin Celik, Ankit Srivastava, Miladin Radović Department of Materials Science and Engineering, Texas A&M University, College Station, TX 77843, USA

Прилог 9.8

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Main Menu

- Home
- Program
- About Zlatibor
- Topic
- Abstract or full paper submission
- Important Dates
- Documents
- Committees
- Direct flight
- Accomodation
- Registration
- Regional Innovation Forum
- Contact Us

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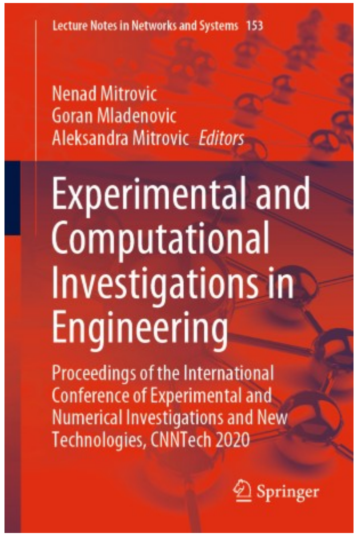

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Прилог 10.1

Институт техничких наука САНУ

Кнез Михаилова 35/IV

11000 Београд

Србија

Допис о руковођењу поројектима и учешћу у пројектним задацима

др Сузана Филиповић

Овим потврђујем да је у оквиру пројекта 172057 ОИ – Усмерена синтеза, структура и својства мултифункционалних материјала, финансираног од стране Министарства просвете, науке и технолошког развоја Републике Србије од 2011. до 2019. године, а којим сам руководио, др Сузана Филиповић руководила подпројектним задатком: Проучавање параметара синтезе и консолидације на функционална својства електрокерамичких материјала. Такође, у оквиру пројекта француско-српске билатералне сарадње "Интелигентни еко-материјали и нанокомпозити" под бројем 4510339/2016/09/03, а у периоду 2016-2017. године , руководила је истраживањима везаним за оптимизацију параметара синтезе нанокомпозита на бази прекерамичких полимера.

Др Сузана Филиповић је учесник у међународној сарадњи са Централним универзитетом у Чешкој Републици чији је руководилац Prof. Dr. Karel Maca, (Central European Institute of Technology, Brno University of Technology, Brno, Czech Republic). Ова сарадња обухвата истраживања из области савремених метода синтеровања, из које је пристекло неколико радова категорија M21a, M21, M22 и саопштења на међународним скуповима.

Др Сузана Филиповић учествује и у међународној сарадњи са Центром за истраживање материјала Универзитета у Мисурију (prof. dr. William Fahrenholtz, Missouri University of Science and Technology, USA). У оквиру ове сарадње испитује се утицај параметара синтезе и консолидације на добијање ултра густе спинелне керамике магнезијум алумината. На основу ове сарадње остварени су значајни резултати који су публиковани у више међународних радова.

Др Сузана Филиповић је иницијатор сарадње са Институтом за физику, Пољске академије наука (dr hab. Lukasz Kilanski, Institute of Physics, Polish Academy of Sciences, Warsaw, Poland). У оквиру сарадње испитују се магнетна својства мултифероичних материјала. Из ове сарадње проистекло је неколико радова који су у процесу рецензије у међународним часописима.

Београд, 06.10.2024.

С поштовањем,

Проф. др Владимир Павловић
научни саветник,
редовни професор Пољопривредног факултета Универзитета у Београду

Институт техничких наука С А Н У
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07.02. 2023. год.
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Прилог 10.2

Република Србија
МИНИСТАРСТВО НАУКЕ,
ТЕХНОЛОШКОГ РАЗВОЈА И ИНОВАЦИЈА
Број: 337-00-19/2023-01/9
Датум: 26.1.2023.
Немањина 22-26, Београд

Институт техничких наука САНУ
- Др Сузана Филиповић -

Кнеза Михаила 36
11 000 Београд

Поштована госпођо Филиповић,

Обавештавамо Вас да је у оквиру Програма билатералне научне и технолошке сарадње између Републике Србије и Савезне Републике Немачке, а на основу спроведених процедура оцене пројеката у обе државе, усвојена листа за финансирање пројеката у двогодишњем периоду са почетком реализације од 01. јануара 2023. године.

Са задовољством Вас обавештавамо да је Ваш пројекат *"Развој магензијум-алуминатне керамике са циљаним електричним и механичким својствима за примену у електроници"* одобрен за финансирање.

Сврха боравка истраживача у Републици Србији, односно Савезној Републици Немачкој, по овом Јавном позиву, треба да допринесе даљем унапређењу сарадње и конституисању пројектног тима, уз учешће младих истраживача, као и генерисању новог пројектног предлога којим би се конкурисало у програму Хоризонт Европа, или другим програмима са међународним финансирањем.

Превоз, боравак и трошкове дневница српских учесника пројекта у Савезној Републици Немачкој сноси Министарство науке, технолошког развоја и иновација Републике Србије. На српској страни, максимална предвиђена издвајања по пројекту износе 8.000 евра, односно 4.000 евра по пројектној години (у динарској противвредности) уз напомену да одобрена средства не могу да се преносе из једне у другу пројектну годину.

Превоз, боравак и трошкове дневница немачких учесника пројекта у Републици Србији сноси ДААД из средстава Савезног министарства за образовање и истраживање Савезне Републике Немачке.

Средства за унапређивање размене су искључиво намењена финансирању путних трошкова (од једне до друге научноистраживачке институције) и трошкова боравка који настану при размени научника који учествују на пројектима.

Средства не могу да се користе за финансирање трошкова истраживачких пројеката страна потписница (здравствено осигурање, куповина и пренос опреме, рад истраживача, материјални и персонални трошкови и друго) за које је потребно да се обезбеде из других извора.

Захтеви за рефундацију трошкова путовања и боравка српских истраживача у Савезној Републици Немачкој достављају се на обрасцу који можете преузети на интернет адреси Министарства, у огранку међународна научна сарадња, уз одговарајућу пратећу документацију.

Руководиоци одобрених пројеката за финансирање, дужни су да доставе годишњи и завршни извештај о реализацији пројекта, у року од 15 дана након завршетка пројектне године, односно након завршетка пројекта, у форми која се, такође, налази на интернет адреси Министарства.

Информација о свим одобреним пројектима објављена је на интернет страници Министарства науке, технолошког развоја и иновација.

Честитамо Вам на одобреном пројекту и желимо успешну реализацију пројектних активности.

С поштовањем,

МИНИСТАР

др Јелена Беговић

Прилог 11.1

Belgrade, 28. 10. 2024.

Membership Certificate

This is to confirm that Dr. Suzana Filipović, Senior Research Associate at Institute of technical sciences of SASA, is a member of ***Serbian ceramic society***. She is a President of the Assembly within Serbian ceramic society.

Dr. Suzana Filipović is a member of Organizing committee of the international conference ***Advanced ceramics and application*** organized by Serbian ceramic society since 2012, and a member of Scientific committee since 2022.

Serbian Ceramic Society

President

СРПСКО КЕРАМИЧКО ДРУШТВО БЕОГРАД

Dr. Nina Obradović

Srpsko keramičko društvo
Serbian ceramic society
Kneza Mihaila 35/IV, 11000 Beograd, Srbija
president@serbianceramicsociety.rs

The American Ceramic Society

Прилог 11.2

ACerS | Member Directory | ACerS Community | Membership | My Account

Join/Renew | Checkout | Log Out | Donate Now | Upcoming events

Personal Snapshot

- My Login Information
- My Interest Groups and Communities
- My Scheduled Payments
- Downloadable Items
- My Affiliations
- Edit My Profile
- My Registrations
- Edit Address
- My Payment Methods

ATTENTION: If you have not yet filled out your International Chapter, U.S. Section, and/or Division Information, please click here to do so or click on the "My Chapter, Section and Divisions" tab.

2000110

Suzana Filipovic

Personal

Summary of your personal contact information.

Full Name
Suzana Filipovic

Title

Self Identified Company

Self Identified Institution

Account Phone
+381 11 20 27 203

Mobile

Email
suzana.filipovic@itn.sanu.ac.rs

Mailing Street
Svetozara Papica 13

Mailing City

My Chapter, Section and Divisions

Member Directory

Belgrade

Mailing State/Province

Mailing Zip/Postal Code
11000

Mailing Country
Serbia

Member Thru
12/31/2024

Companies

Summary of your current company affiliations.

Add Affiliation

Membership

Summary of your current membership.

Member
Yes

Original Join on Date
10/12/2018

Member Thru
12/31/2024

Member Product
Individual Membership - 1 year

Renew

Прилог 12.1

MISSOURI S&T | Materials Science and Engineering

August 11, 2022

Dr. Suzana Filipovic
Senior Research Associate
Institute of Technical Sciences
Serbian Academy of Sciences and Arts
Knez Mihailova 35
Belgrade 11000
Serbia

Dear Dr. Filipovic:

The purpose of this letter is to invite you to the Materials Research Center as a Post-Doctoral scholar from 1 October 2022 until 31 December 2022. Specifically, you are invited to study with the ultra-high temperature ceramics research group under the supervision of Professor Bill Fahrenholtz. As a post-doctoral scholar, you will perform collaborative research with my group. The research in my group focuses on processing, microstructure, mechanical behavior, thermal properties, and corrosion resistance of ceramics and coatings. We anticipate that you will be involved in the synthesis, densification, characterization, and property testing of high entropy boride and carbide ceramics. As part of your visit, we will introduce you to other faculty across campus so that you can explore other potential areas of collaboration between Missouri S&T and the Serbian Academy of Science and Arts. During your stay, you will be provided with an office, access to research laboratories, an email account, and other privileges associated with the position of visiting scholar.

If you accept this invitation, your appointment will be subject to all rules, orders, and regulations of the Board of Curators, including the Academic Tenure regulations, which can be found at: http://www.umsystem.edu/ums/rules/collected_rules.

We hope that your stay will facilitate continued research cooperation between your institution and Missouri S&T.

Sincerely,

William Fahrenholtz
Curators' Distinguished Professor
Director, Materials Research Center

Прилог 12.2

Missouri S&T | Materials Science and Engineering

December 26, 2022

Dr. Suzana Filipovic
Senior Research Associate
Institute of Technical Sciences
Serbian Academy of Sciences and Arts
Knez Mihailova 35
Belgrade 11000
Serbia

Dear Dr. Filipovic:

The purpose of this letter is to invite you to the Materials Research Center as a Post-Doctoral scholar from 4 January 2023 until 3 April 2023. Specifically, you are invited to study with the ultra-high temperature ceramics research group under the supervision of Professor Bill Fahrenholtz. As a post-doctoral scholar, you will perform collaborative research with my group. The research in my group focuses on processing, microstructure, mechanical behavior, thermal properties, and corrosion resistance of ceramics and coatings. We anticipate that you will be involved in the synthesis, densification, characterization, and property testing of high entropy boride and carbide ceramics. As part of your visit, we will introduce you to other faculty across campus so that you can explore other potential areas of collaboration between Missouri S&T and the Serbian Academy of Science and Arts. During your stay, you will be provided with an office, access to research laboratories, an email account, and other privileges associated with the position of visiting scholar.

If you accept this invitation, your appointment will be subject to all rules, orders, and regulations of the Board of Curators, including the Academic Tenure regulations, which can be found at: http://www.umsystem.edu/ums/rules/collected_rules.

We hope that your stay will facilitate continued research cooperation between your institution and Missouri S&T.

Sincerely,

William Fahrenholtz
Curators' Distinguished Professor
Director, Materials Research Center

Прилог 12.3

MISSOURI S&T | Materials Science and Engineering

April 7, 2023

Dr. Suzana Filipovic
Senior Research Associate
Institute of Technical Sciences
Serbian Academy of Sciences and Arts
Knez Mihailova 35
Belgrade 11000
Serbia

Dear Dr. Filipovic:

The purpose of this letter is to invite you to the Materials Research Center as a post-doctoral associate for the period of 22 May 2023 to 8 September 2023. Specifically, you are invited to study with the ultra-high temperature ceramics research group under the supervision of Professor Bill Fahrenholtz. As a visiting scholar, you will perform collaborative research with my group. The research in my group focuses on processing, microstructure, mechanical behavior, thermal properties, and corrosion resistance of ceramics and coatings. We anticipate that you will be involved in one main research area focused on the synthesis, densification, characterization, and property testing of high entropy boride and carbide ceramics. As part of your visit, we will introduce you to other faculty across campus so that you can explore other potential areas of collaboration between Missouri S&T and the Serbian Academy of Science and Arts. During your stay, you will be provided with an office, access to research laboratories, an email account, and other privileges associated with the position of visiting scholar.

If you accept this invitation, your appointment will be subject to all rules, orders, and regulations of the Board of Curators, including the Academic Tenure regulations, which can be found at: http://www.umsystem.edu/ums/rules/collected_rules.

We hope that your stay will facilitate continued research cooperation between your institution and Missouri S&T.

Sincerely,

William Fahrenholtz

William Fahrenholtz
Curators' Distinguished Professor
Director, Materials Research Center

1400 N. Bishop Avenue | 223 McNutt Hall | Rolla, MO 65409-0340 | 573-341-6343 | billf@mst.edu | mse.mst.edu