ПРИЛОЗИ:

1. Копија дипломе о стеченом научном називу-*доктор наука-физичке науке*
2. Одлука о стицању научног звања-*научни сарадник*
3. Извештај о цитираности радова
4. Позивна писма и докази о одржаним предавањима по позиву
   4.1. International Conference: „International Conference of Experimental and Numerical Investigations and New Technologies“ CNN TECH 2023
   4.2. Позивно писмо за предавање на семинару из керамичких материјала у Универзитету у Штутгарту (University of Stuttgart IFKB)
5. Потврде за рецензије у међународним часописима
   5.1.Science of Sintering
   5.2.Ceramics International
   5.3.Materials Science & Engineering B
6. Чланство у научном, организационом и техничком одбору (уредништву) међународних конференција
   6.1.Научни одбор International Conference: „International Conference of Experimental and Numerical Investigations and New Technologies“ CNN TECH 2024
   6.2. Организациони одбор и технички уредник „Serbian Ceramic Society Conference/ ADVANCED CERAMICS AND APPLICATION“ и члан Српског керамичког друштва.
   6.3.Технички уредник књиге апстраката „Serbian Ceramic Society Conference/ ADVANCED CERAMICS AND APPLICATION“
7. Председавање на научном скупу „Serbian Ceramic Society Conference/ ADVANCED CERAMICS AND APPLICATION“ 2023.
8. Потврда о чланству у друштвима „ The American Ceramic Society“
9. Потврда о усменом излагању
10. Потврде о учешћу на пројектним задацима
    10.1. Пројекта ОИ 172057
    10.2. Билатералне сарадње са Савезном Републиком Немачком
11. Захвалнице у докторским дисертацијама
    11.1. Дисертација др Дарка Косановића
    11.2. Дисертација др Сузане Филиповић
    11.3. Дисертација др Јелене Живојиновић
12. Уредништво у међународном часопису
13. Међународна сарадња

ПРИЛОГ 1

Рейублика Србија
Универзитет у Беоīраду
Оснивач: Рейублика Србија
Дозволу за рад број 612-00-02666/2010-04 од 12. октобра 2011. іодине је издало Министарство йросвеīе и науке Рейублике Србије
Физички факулīеī, Беоīрад
Оснивач: Рейублика Србија
Дозволу за рад број 612-00-02409/2014-04 од 8. сейīембра 2014. іодине је издало Министарсīво йросвеīе, науке и īехнолошкоī развоја Рейублике Србије

Дийлома

Адриана, Предраī, Пелеш Тадић

рођена 1. авīусīа 1984. іодине, Беоīрад, Рейублика Србија, уйисана школске 2012/2013. іодине, а дана 1. окīобра 2020. іодине завршила је докīорске академске сīудије, īрећеī сīейена, на сīудијском йроīраму Физика, обима 180 (сīо осамдесеī) бодова ЕСПБ са йросечном оценом 10,00 (десеī и 0/100).

Наслов докīорске дисерīације је: „Полимерни нанокомйозиīи на бази PVDF и механички акīивираноī йраха ZnO, карактеризација и йримена у MEMC īехнолоīијама".

На основу īоīа издаје јој се ова дийлома о сīеченом научном називу

докīор наука - физичке науке

Број: 12666100
У Беоīраду, 6. окīобра 2021. іодине

Декан
Проф. др Иван Белча

Ректор
Проф. др Владан Вокић

00127111

ПРИЛОГ 2

Република Србија
МИНИСТАРСТВО ПРОСВЕТЕ,
НАУКЕ И ТЕХНОЛОШКОГ РАЗВОЈА
Матични научни одбор за хемију

Број: 660-01-00002/2020-14/60

22.12.2020. године
Б е о г р а д

На основу члана 27. став 1 тачка 1) и члана 76. став 5. Закона о науци и истраживањима („Службени гласник Републике Србије", бр. 49/2019) и 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 техничкин наука САНУ

Матични научни одбор за хемију на седници одржаној 22.12.2020. године, донео је

ОДЛУКУ
О СТИЦАЊУ НАУЧНОГ ЗВАЊА

Др Адриана Пелеш Тадић

стиче научно звање
Научни сарадник

у области природно-математичких наука - хемија

О Б Р А З Л О Ж Е Њ Е

Институт техничкин наука САНУ

утврдио је предлог број 351/1 од 17.11.2020. године на седници Научног већа и поднео захтев Матичном научном одбору за хемију број 366/1 од 27.11.2020. године за доношење одлуке о испуњености услова за избор у научно звање **Научни сарадник.**

Матични научни одбор за хемију на седници одржаној 22.12.2020. године разматрао је захтев и утврдио да именована испуњава услове из члана 76. став 5. Закона о науци и истраживањима („Службени гласник Републике Србије", бр. 49/2019) и Правилника о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача („Службени гласник Републике Србије", број 24/16, 21/17 и 38/17) за избор у научно звање **Научни сарадник** па је одлучио 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.

МИНИСТАР

Бранко Ружић

МАТИЧНИ НАУЧНИ ОДБОР ЗА ХЕМИЈУ

ПРЕДСЕДНИК

Проф. др Живослав Тешић

ПРИЛОГ 3

Извештај о цитираности радова др Адриане Пелеш Тадић

на основу база података *Web of Science* и *Scopus*, 21. априла 2025.

Укупно цитата: 120

Хетероцитата: 86

H-индекс = 7

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22. Hashemi Kachabi, G.; Noormohammadi, M.; Almasi Kashi, M.; Mohammadalizadeh, M. Structure, Morphology and Crystallization Behavior of PVDF/Co Nanowire Nanocomposites under Horizontal and Vertical Magnetic Fields. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **2025**, *705*. https://doi.org/10.1016/j.colsurfa.2024.135734.

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Коцитати

28. Filipović, S.; Obradović, N.; Corlett, C.; Fahrenholtz, W. G.; Rosenschon, M.; Füglein, E.; Dojčilović, R.; Tošić, D.; Petrović, J.; Đorđević, A.; Vlahović, B.; Pavlović, V. B. Effect of the Filler Morphology on the Crystallization Behavior and Dielectric Properties of the Polyvinylidene Fluoride-Based Composite. *Journal of Applied Polymer Science* **2024**, *141* (10). https://doi.org/10.1002/app.55040.
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Аутоцитати

33. Peleš Tadić, A.; Blagojević, V. A.; Stojanović, D.; Ostojić, S. B.; Tasić, N.; Kosanović, D.; Uskoković, P.; Pavlović, V. B. Nanomechanical Properties of PVDF–ZnO Polymer Nanocomposite. *Materials Science and Engineering: B* **2023**, *287*. https://doi.org/10.1016/j.mseb.2022.116126.

2. Peleš, A.; Pavlović, V. P.; Filipović, S.; Obradović, N.; Mančić, L.; Krstić, J.; Mitrić, M.; Vlahović, B.; Rašić, G.; Kosanović, D.; Pavlović, V. B. Structural Investigation of Mechanically Activated ZnO Powder. *Journal of Alloys and Compounds* **2015**, *648*, 971–979. https://doi.org/10.1016/j.jallcom.2015.06.247.

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7. Filippov, I. A.; Karmanov, A. A.; Yakushova, N. D.; Gurin, E. I.; Komolov, A. S.; Pronin, I. A. Investigation of the Parameters of the Zinc Oxide Band Structure under High-Energy Mechanical Grinding. *Crystallography Reports* **2024**, *69* (7), 1162–1168. https://doi.org/10.1134/S106377452460162X.
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ПРИЛОГ 4.1.

March 23, 2023

Adriana Peles
Institute of Technical Science of SASA
Belgrade
Serbia

Invitation Letter

International Conference: „International Conference of Experimental and Numerical Investigations and New Technologies“ CNN TECH 2023

Dear Adriana Peles,

We are pleased to invite you to the “International Conference of Experimental and Numerical Investigations and New Technologies, CNN Tech 2023” scheduled from 04-07 July 2023 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 2023 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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Invited lecture

FRACTAL ANALYSIS AND MICROSTRUCTURE DEVELOPMENT OF $BATIO_3$ AND PVDF BASED MULTIFUNCTIONAL MATERIALS

Adriana Peles Tadic[1*], George Vukovic[2], Aleksandar Kojovic[3], Dusica Stojanovic[3], Branislav Vlahovic[4], Natasa Milosavljevic[5], Nina Obradovic[1], Vladimir Pavlovic[5]

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**Corresponding author e-mail: adriana.peles@itn.sanu.ac.rs*

Abstract

Barium titanate ($BaTiO_3$) and polyvinylidene fluoride (PVDF) based multifunctional materials are attracting a great scientific interest due to their excellent piezoelectric, pyroelectric and ferroelectric properties. These materials undergo controlled transformations through physical interactions and respond to environmental stimuli, such as temperature, pressure, electric and magnetic fields. Their properties strongly depend on synthesis procedures and obtained microstructures. This include intergranular contact surfaces of $BaTiO_3$ based materials, as well as, porous structure and cross-linking patterns of PVDF prepared by electrospinning. It has been found that these microstructures can have fractal structure and that the fractal analysis can be used as a powerful tool for describing structural and functional properties of these materials. Having this in mind, in this research we have used different fractal methods for the reconstructions of various $BaTiO_3$ and PVDF microstructure morphologies. Fractal analysis has been performed by using scanning electron microscope micrographs and computational modeling tools. Fractal dimension of irregular morphologies which exhibit fractal regularity were determined by using box-counting method. This method enables the analysis of self-similar microstructure morphologies by quantifying the rate at which an object's geometrical details develop at increasingly fine scales. Theory of Iterated Function Systems and Voronoi tessellation, have been used for modeling $BaTiO_3$ random microstructures and PVDF porous structures. A python algorithm was created to determine the distribution of pore areas in SEM micrographs. Algorithm's distribution of calculated pore surface areas was compared with measured pore surface areas and fractal reconstructions of different morphologies and their connection with functional properties were analyzed.

Keywords:

PVDF, $BaTiO_3$, Electrospinning, Fractals, Voronoi tessellation.

Acknowledgement

Funds for the realization of this work are provided by the Ministry of Education, Science and Technological Development of the Republic of Serbia, Agreement on realization and financing of scientific research work of the Institute of Technical Sciences of SASA in 2023 (Record number: 451-03-47/2023-01/200175), Faculty of Technology and Metallurgy, University of Belgrade (Record Number: 451-03-47/2023-01/200135), University of Belgrade, Faculty of Agriculture (Record number: 451-03-47/2023-01/200116) and the National Science Foundation grants HRD-1345219 and DMR-1523617, and the Department of Energy/National Nuclear Security Administration NA0003979 award.

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Dr. Adriana Peleš-Tadić
Serbian Academy of Sciences and Arts (SASA)
Belgrade/Serbia

22.01.2025

Confirmation
Invited talk at University of Stuttgart IFKB on the occasion of Institute Seminar on Ceramic Materials and Manufacturing technologies

To whom this may concern,

Here with we confirm that Dr. Adriana Peleš-Tadić has given an invited talk on

"Synthesis of Magnesium Aluminate Spinel"

on the occasion of our Institute Seminar on Oct 17. 2024 In Stuttgart.

Best regards

Universität Stuttgart
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Prof. Dr. Frank Kern

Head of high performance ceramics group

ПРИЛОГ 5.1

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Sincerely,

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Београд, април 2025. год.

Предмет: Избор др Адриане Пелеш Тадић у звање виши научни сарадник

ПОТВРДА

Овим се потврђује да је **др Адриана Пелеш Тадић**, научни сарадник Института техничких наука САНУ, члан Српског Керамичког Друштва (Serbian Ceramic Society) од 2012. године, које наставља традицију Југословенског Керамичког Друштва од 1997. године.

Др Адриана Пелеш Тадић је као члан организационог комитета и технички уредник учествовала у реализацији више међународних конференција „**Serbian Ceramic Society Conference - ADVANCED CERAMICS AND APPLICATION**”.

Др Адриана Пелеш Тадић је и председавајућа у секцији **Basic ceramics and sintering** (серија *Advanced Ceramics and Application* конференција).

Српско керамичко друштво
Председник

др Нина Обрадовић
Научни саветник Института техничих наука САНУ

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

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Dr. Lidija Mančić

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Dr. Suzana Filipović
Dr. Adriana Peleš Tadić
Dr. Jelena Živojinović

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New Frontiers in Multifunctional Material Science and Processing

Serbian Ceramic Society
Institute of Technical Sciences of SASA
Institute for Testing of Materials
Institute of Chemistry Technology and Metallurgy
Institute for Technology of Nuclear and Other Raw Mineral Materials

PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
Serbia, Belgrade, 18-20. September 2023.

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It is nice to host you here in Belgrade in person. We are very proud that we succeeded in bringing the scientific community together again and fostering the networking and social interactions around an interesting program on emerging advanced ceramic topics. The chosen topics cover contributions from fundamental theoretical research in advanced ceramics, computer-aided design and modeling of new ceramics products, manufacturing of nano-ceramic devices, developing of multifunctional ceramic processing routes, etc.

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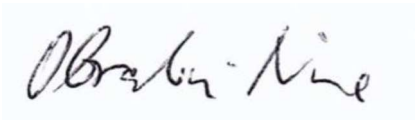

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- Renewable Energy & Composites
- Amorphous & Magnetic Ceramics
- Heritage, Art & Design

[8]Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, Belgrade, Serbia
[9]North Carolina Central University, Durham, NC, USA

11.20 - 11.40 **INV Novel Diboride Ceramics for Extreme Environment Applications**

Peter Tatarko[1], Inga Zhukova[1], Naser Hosseini[1], Salvatore Grasso[2], Vasanthakumar Kombamuthu[3], Zdeněk Chlup[4], Alexandra Kovalčíková[5],Monika Tatarková[1], Ivo Dlouhý[3], Ján Dusza[5]
[1]Institute of Inorganic Chemistry, Slovak Academy of Sciences, Dúbravská cesta 9, 845 36 Bratislava, Slovakia
[2]School of Engineering & Materials Science, Queen Mary University of London, Mile End Road, London, E1 4NS, United Kingdom
[3]CEMEA – Center of Excellence for Advanced Materials Applications, Slovak Academy of Sciences, 845 11 Bratislava, Slovakia
[4]Institute of Physics of Materials, Czech Academy of Sciences, Žižkova 22, 616 00 Brno, Czech Republic
[5]Institute of Materials Research, Slovak Academy of Sciences, Watsonová 47, 04001 Košice, Slovakia

11.40 - 12.00 **INV Various strategies and dopants for the preparation of dense $MgAl_2O_4$ ceramics by SPS**

Ali Talimian[1], Ali Najafzadeh[2], Václav Pouchlý[3], Karel Maca[3] and Dušan Galusek[1, 2]
[1]Centre for functional and surface-functionalized glass, TnUAD, Trenčín, Slovakia
[2]CETEC BUT, Brno, Czech Republic
[3]Joint glass centre of the IIC SAS, TnUAD and FChPT STU, Trenčín Slovakia

12.00 - 12.30 **Coffee Break** **Hallway, 1st Floor**

12.30 - 14.05 **Basic Ceramics & Sintering**

Chairpersons: Darko Kosanović & Adriana Peleš Tadić

12.30 – 12.50 **INV Densification of Dual Phase High Entropy Boride-Carbide Ceramics by Pressureless Sintering**

William G. Fahrenholtz, Steven M. Smith II, and Gregory E. Hilmas
Materials Science and Engineering Department, Missouri University of Science and TechnologyRolla, MO 65409 United States

12.50 – 13.05 **ORL Optimization of processing parameters for high entropy dual phase ceramics**

S. Filipovic[1,2], S. Smith[1], N. Obradovic[1,2], G. Hilmas[1], W. Fahrenholtz[1]

ПРИЛОГ 8

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M. Sci. Isaak Trajković

Date	Time	Programme	Floor, Room, Address
18th September Wednesday	08.00-09.00	**Registration**	2nd Floor, Hallway
	09.00-09.30	**Opening Ceremony**	2nd Floor, Great Hall
	09.30-10.00	**Academician S. Vukosavic (PL)**	
	10.00-10.15	**Award, Photo session & Short break**	
	10.15-12.10	**Modelling & Simulation (M. Mirkovic)** S. Curtarolo (PL) S. Tidrow (PL) J. Jovanovic (INV) N. Milosavljevic (INV) I. Trajkovic (ORL)	
	12.10-12.30	**Coffee Break**	2nd Floor, Hallway
	12.30-14.15	**Nano, Opto & Bio-ceramics (L. Mancic & S. Markovic)** M. E. Rabanal (PL) M. Pergal (INV) J. Purenovic (INV) I. Stojkovic Simatovic (INV) Z. Stojanovic (OR)	2nd Floor, Great Hall
	14.15-15.00	**Buffet Lunch**	Club SASA, Mezzanine
	15.00-16.30	**Amorphous & Magnetic (N. Mitrovic & V. Paunovic)** N. Novosel (PL) N. Mitrovic (INV) D. Olcan (INV) M. Mirkovic (INV & exhibition announcement)	2nd Floor, Great Hall
	16.30-18.30	**Poster Session I & Exhibition ***	Club SASA, Mezzanine
	19.00-23.00	**Conference dinner**	Restaurant Caruso (Terazije 23/8)
19th September Thursday	08.00-09.00	**Registration**	1st Floor, Hallway
	09.00-10.00	**Poster Session II****	Club SASA, Mezzanine
	10.00-12.00	**Basic Ceramics & Sintering (S. Filipovic)** G. Hilmas (PL) W. Fahrenholtz (PL) I. Brceski (PL) A. Peles Tadic (OR) M. Dujovic (OR)	1st Floor, Blue Hall
	12.00-12.30	**Coffee Break**	1st Floor, Hallway
	12.30-13.45	**Basic Ceramics & Sintering (D. Kosanovic & N. Labus)** R. Naraparaju (INV) V. Paunovic (INV) S. Filipovic (INV) S. Smith (OR)	1st Floor, Blue Hall
	13.45-15.00	**Buffet Lunch**	Club SASA, Mezzanine
	15.00-16.20	**Clay, Refractory & Cements (A. Terzic & M. Vasic)** A. Sedmak (PL) G. Tavcar (PL) N. Mijatovic (INV)	1st Floor, Blue Hall
	16.20-17.00	**Coffee Break**	1st Floor, Hallway
	19.00-20.00	**Nikola Tesla Museum**	Krunska 51

***16.00-16.30 Poster Session I (Posters 1-25)** **Installation Club SASA, Mezzanine**

**** 8.30-09.00 Poster Session II (Posters 26-50)** **Installation Club SASA, Mezzanine**

ORL2

AI aided biomaterials research: stabilization of selenium nanoparticles with proteins

Zoran Stojanović, Nenad Filipović, Magdalena Stevanović

Institute of Technical Sciences of SASA, Belgrade, Republic of Serbia

In the last few years, we witnessed the revolutionary development of LLMs based on various transformer architectures opening up numerous research and application possibilities of AI models everywhere. The specific architecture, the vast amount of data trained on, and broad knowledge generated within these models give them the ability to understand concepts, plan and solve different kinds of problems, including various chemistry-related tasks. In our previous work, we explored the performances of the GPT4 model on common tasks related to language models, such as text classification, information extraction and, finally, the prediction of proteins suitable for stabilization of Se nanoparticles (SeNp).
Herein we continue to explore advanced prompt-engineering techniques and extrapolate those techniques to GPT-like models available (LLamma, Mistral and Claude). We benchmarked those models and compared their performances with those already tested in GPT4. We have used UniProt resources, original research, and review articles as data source and to evaluate performances of models. For data operations, interaction with models we used Python programming language and Jupyter Notebooks for demos.
The study demonstrated abilities and limitation of latest open-source LLMs in field of protein data understanding and knowledge generation in domain of SeNp stabilization and functionalization.

ORL3

The influence of mechanical activation parameters as a function of producing a Magnesium aluminate ($MgAl_2O_4$) spinel

Adriana 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

Magnesium aluminate spinel (MAS) has excellent mechanical, chemical, thermal (high melting point, higer than 2100 °C) and optical properties. Also it has a low dielectric constant (ε_r~8). Based on those properties, $MgAl_2O_4$ has found a significant application in refractory ceramics, radomes, transparent armor, optically transparent windows, integrated electronic devices, etc. In this research, MgO was calcined at 1000°C for an hour, in order to avoid presence of hydroxide or carbonate. MgO and Al_2O_3 powders were mixed in a one-to-one molar ratio and mechanically activated for 15, 30, and 60 minute and pressed in the tablets, under the pressure of 0.5 t. The

pressed powders were heated up to 1300 ^{o}C and held for 1 h for the reaction. After that, obtained spinel powders were sintered at 1450 ^{o}C for 2 h. Both sintered and non-sintered samples were investigated by XRD, SEM, PSA and Raman spectra. All results are in accordance with our previous results, and the pure dense spinel phase is obtained. XRD shows that mechanically non-activated specimen as well as activated sintered specimens show the pure $MgAl_2O_4$ phase after sintering at 1450°C. Raman spectra revealed that mechanical activation leads to an increase in the degree of the exchange between Mg and Al cations, due to the introduction of defects during the milling process. The study shows that a precise setting of mechanical activation parameters enhances sinterability, phase formation and microstructure homogeneity of reaction sintered MAS ceramics.

ORL4

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
milosh@tamu.edu

In this work, we demonstrate that in atomically layered ceramics, such as MAX phases, crack growth is extremely anisotropic and for certain crystal orientations, no crack growth occurs even under Mode I loading. We will present the results of micromechanical testing of notched cantilever beams of chromium aluminum carbide MAX phase. The experiments are carried out for specimens with the basal (slip/cleavage) planes oriented either parallel, perpendicular or at an angle close to 45 degrees relative to the notch. The results show that when the basal planes are parallel to the notch, specimens undergo unstable cracking. However, when the basal planes are at 45 degrees with respect to the notch, no cracking occurs, and the notched samples undergo extensive crystallographic slip. In addition to the experiments, we will also present crystal plasticity finite element simulation results rationalizing experimental observations.

ORL5

Densification and Properties of High Entropy Boride-SiC-B_4C Ceramics

Steven M. Smith[1], William G. Fahrenholtz[1], Gregory E. Hilmas[1], Stefano Curtarolo[2,3]

[1]Missouri University of Science and Technology, Rolla, MO, USA
[2]Duke University, Department of Mechanical Engineering and Materials Science, Durham, NC, USA
[3]Duke University, Center of Autonomous Materials Design, Durham, NC, USA

Borides mixed with equal volume fractions of SiC and B_4C have improved properties such as higher hardness (~33 GPa at 1 kgf) and higher strength (~1 GPa) compared to the individual phases. High entropy borides have also been shown to have improved properties such as higher hardness compared to single-metal borides. The present work used (Cr, Hf, Ta, Ti, Zr)B_2 as the

ПРИЛОГ 10.1.

Универзитет у Београду

Пољопривредни факултет

Немањина 6

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Србија

Допис о руковођењу пројектним задатком

Др Адриана Пелеш Тадић

Овим потврђујем да је у оквиру Пројекта ОИ 172057 „*Усмерена синтеза, структура и својства мултифункционалних материјала*“, финансираног од стране Министарства науке и технолошкох развоја Републике Србије од 2011. до 2019. године, а којим сам руководио, др Адриана Пелеш Тадић руководила пројектним задатком: „*Одређивање параметара синтезе, механичке активације и концентрације различитих филера и њихов утицај на електричне, пиезоелектричне и механичке карактеристике полимерних нанокомпозита на бази PVDF-а*“ у периоду од 2012-2019. године.

Истраживачке активности др Адриане Пелеш Тадић су се односиле на руковођење истраживањима која су била из области развоја процедуре синтезе као и одређивање оптималног времена механичке активације различитих прахова (филера) и концентрације у полимерним нанокомпозитима, за примену у MEMC технологијама. Поред синтетисања, њен задатак је био и карактеризација добијених композита као и одређивање потенцијалне примене истих у сензорима.

Из овог пројектног задатка проистекло је неколико публикација у међународним часописима као и неколико конференцијских радова са међународних конференција.

Београд, 01.04.2025.

С поштовањем,

Проф. др Владимир Павловић

научни саветник,
Редовни професор
Пољопривредног факултета
Универзитета у Београду

ПРИЛОГ 10.2

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Србија

Допис о руковођењу пројектним задатком

Др Адриана Пелеш Тадић

Овим потврђујем да је у оквиру пројекта билатералне сарадње између Републике Србије и Савезне Републике Немачке (број пројекта: 337-00-19/2023-01/9) *„Развој магнезијум-алуминатне керамике са циљаним електричним и механичким својствима за примену у електроници“* (*„Development of magnesium aluminate ceramics with desired electrical and mechanical properties for electronics“*), финансираног од стране Министарства науке, технолошког развоја и иновација Републике Србије од 2023. до 2024. године, а којим сам руководила, др Адриана Пелеш Тадић руководила пројектним задатком: *Одређивање параметара синтезе, механичке активације и синтеровање праха $MgAl_2O_4$ у циљу добијања спинел фазе*.

Истраживачке активности др Адриане Пелеш Тадић су се односиле на руковођење истраживањима која су била из области развоја процедуре синтезе као и одређивање оптималног времена механичке активације праха $MgAl_2O_4$ као и каснијег процеса синтеровања.

Из овог пројектног задатка проистекла је публикација у међународном часопису као и неколико конференцијских радова.

Београд, 01.04.2025.

С поштовањем,

Сузана Филиповић

др Сузана Филиповић

Научни саветник,

Институт техничких наука САНУ

ПРИЛОГ 11.1.

УНИВЕРЗИТЕТ У КРАГУЈЕВЦУ
ФАКУЛТЕТ ТЕХНИЧКИХ НАУКА ЧАЧАК

Дарко Косановић, дипл. физ. хем.

УТИЦАЈ ПАРАМЕТАРА СИНТЕЗЕ И СТРУКТУРЕ НА ЕЛЕКТРИЧНА СВОЈСТВА $Ba_{0,77}Sr_{0,23}TiO_3$ КЕРАМИКЕ

Докторска дисертација

У Чачку,
2013. године

Предговор

Ова докторска дисертација урађена је у оквиру пројекта ОИ 172057 "Усмерена синтеза, структура и својства мултифункционалних материјала" Министарства просвете, науке и технолошког развоја Републике Србије и пројекта Ф/198 Фонда за научна истраживања Српске академије наука и уметности.

Материјали на бази $Ba_{0,77}Sr_{0,23}TiO_3$ (BST) налазе широку примену у електроници (нпр. за вишеслојне керамичке кондензаторе, уређаје који процесирају микроталасне сигнале, меморијске елементе у DRAMs (Dynamic Random Access Memory) и у NVRAM (Non Volatile Random Access Memory) итд. Имајући ово у виду, а узимајући у обзир значај ових материјала као фероелектрика, циљ ове дисертације је проучавање зависности између синтезе, структуре и својстава материјала, на примеру механички активираног BST. Оваква проучавања механички активираног BST недовољно су проучена, а поменути вид активације последњих година постаје врло значајна техника за добијање нових материјала.

Докторска дисертација "Утицај параметара синтезе и структуре на електрична својства $Ba_{0,77}Sr_{0,23}TiO_3$ керамике" осмишљена је у Институту техничких наука – САНУ, Институту за мултидисциплинарна истраживања Универзитета у Београду, Институту за нуклеарне науке Винча (лабораторија за теоријску физику и физику кондензоване материје) и Факултету техничких наука у Чачку Универзитета у Крагујевцу.

Истраживања у оквиру ове докторске дисертације урађена су под непосредним руководством ментора проф. др Алексе Маричића, професора емеритуса Факултета техничких наука у Чачку Универзитета у Крагујевцу и проф. др Владимира Павловића, научног саветника Института техничких наука САНУ. Овом прилоком им захваљујем на великој и несебичној подршци, корисним дискусијама и саветима током мог истраживачког рада.

Посебну захвалност дугујем академику Момчилу М. Ристићу, редовном члану САНУ, за помоћ у мом научном развоју, а који ми је помагао саветима и током израде ове дисертације.

Такође захваљујем др Нини Обрадовић, др Небојши Митровићу и др Слободану Ђукићу (Факултет техничких наука у Чачку), на исцрпним дискусијама и сугестијама које су биле од изузетне помоћи.

Комплексност истраживања захтевала је употребу различитих метода синтезе, анализе и карактеризације материјала. Из тог разлога ова истраживања су реализована у више лабораторија и уз помоћ великог броја мојих колега. Захваљујем на сарадњи, др Миодрагу Митрићу (ИНН Винча), Александру Косановићу, др Горану Бранковићу, др Марији Весни Николић, др Ненаду Николићу и Александру Радојковићу (Институт за мултидисциплинарна истраживања-Лабораторија за материјале), др Вери П. Павловић (Машински факултет у Београду), др Војиславу Митићу (Електронски факултет у Нишу).

Драгим колегиницама и колегама из Института техничких наука САНУ, др Смиљи Марковић, др Небојши Лабусу, Јелени Живојиновић, Сузани Филиповић и Адриани Пелеш, изражавам захвалност на стручној и пријатељској подршци коју су ми пружили приликом настојања да ова дисертација постане стварност.

Најискренију захвалност дугујем својој породици, која је имала стрпљења и разумевања за мој рад, пре свега мојој мајци Мирјани и оцу Александру Косановићу, који су ми дали изузетно значајну подршку да докторску дисертацију са успехом завршим.

Чачак, 2013. *Дарко Косановић*

ПРИЛОГ 11.2.

УНИВЕРЗИТЕТ У КРАГУЈЕВЦУ

ФАКУЛТЕТ ТЕХНИЧКИХ НАУКА ЧАЧАК

Сузана Филиповић, дипл. физ. хем., мастер

УТИЦАЈ МЕХАНИЧКЕ АКТИВАЦИЈЕ НА СВОЈСТВА $MgO\text{-}TiO_2$ ЕЛЕКТРОКЕРАМИКЕ

Докторска дисертација

Чачак, 2014.

Предговор

У оквиру докторске дисертације испитиван је утицај механичке активације на синтезу и својства MgO-TiO_2 система. Докторска дисертација под називом "Утицај механичке активације на својства MgO-TiO_2 електрокерамике" осмишљена је и највећим делом урађена у Институту техничких наука САНУ и Факултету техничких наука у Чачку, Универзитета у Крагујевцу. Мултидисциплинарност истраживања захтевала је коришћење различитих метода за синтезу и карактеризацију материјала па је истраживање реализовано у више лабораторија и уз помоћ великог броја колега.

Истраживања у оквиру ове докторске дисертације урађена су под непосредним руководством ментора проф. др Небојше Митровића, редовног професора Факултета техничких наука у Чачку, др Нине Обрадовић, вишег научног сарадника Института техничких наука САНУ и проф. др Владимира Павловића, научног саветника Института техничких наука САНУ, којима се неизмерно захваљујем на корисним дискусијама и саветима током мог истаживачког рада.

Посебну захвалност изражавам академику Момчилу М. Ристићу на несебичној помоћи и непроцењивим саветима од самог почетка мог научно истраживачког рада.

Захвалност дугујем и проф. др Алекси Маричићу, професору емеритусу и проф. др Слободану Ђукићу, Факултет техничких наука у Чачку Универзитета у Крагујевцу, на исцрпним дискусијама и сугестијама које су биле од велике помоћи током израде ове докторске дисертације.

Захваљујем се на сарадњи др Маји Шћепановић (Институт за физику, Београд), др Миодрагу Митрићу (ИНН Винча), др Југославу Крстићу (ИХТМ), др Весни Пауновић (Електронски Факултет у Нишу) и др Смиљи Марковић (ИТН САНУ). Велико хвала на успешној сарадњи.

Драгим колегиницама и колегама из Института техничких наука САНУ, др Небојши Лабусу, др Дарку Косановићу, Адриани Пелеш и Јелени Живојиновић се захваљујем на стручној и пријатељској подршци током рада на докторској дисертацији.

Ова докторска дисертација урађена је у оквиру пројеката 142011 Г "Проучавање међузависности у тријади "синтеза-структура-својства" за функционалне материјале" и ОИ 172057 "Усмерена синтеза, структура и својства мултифункционалних материјала", Министарства просвете, науке и технолошког развоја Републике Србије.

Посебну захвалност изражавам мојој породици на стрпљењу и разумевању приликом настојања да ова дисертација „угледа светлост дана". Најискреније се захваљујем супругу Зорану на подршци и помоћи током израде ове докторске дисертације. Посебну инспирацију увек представља мој син Михајло коме посвећујем ову дисертацију.

Чачак, 2014. *Сузана Филиповић*

ПРИЛОГ 11.3.

UNIVERZITET U BEOGRADU
TEHNOLOŠKO-METALURŠKI FAKULTET

Jelena A. Živojinović

UTICAJ MEHANIČKE AKTIVACIJE NA STRUKTURU I SVOJSTVA STRONCIJUM-TITANATNE KERAMIKE

doktorska disertacija

Beograd, 2020

UNIVERSITY OF BELGRADE
FACULTY OF TEHNOLOGY AND METALLURGY

Jelena A. Živojinović

THE INFLUENCE OF MECHANICAL ACTIVATION ON THE STRUCTURE AND PROPERTIES OF STRONTIUM TITANATE CERAMICS

Doctoral Dissertation

Belgrade, 2020

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Univerzitet u Beogradu, Poljoprivredni fakultet

Dr Darko Kosanović, viši naučni saradnik,
Institut tehničkih nauka Srpske akademije nauka i umetnosti u Beogradu

Datum odbrane: _____

Zahvalnica

U okviru doktorske disertacije ispitivan je uticaj mehaničke aktivacije na strukturu i svojstva nedopirane i dopirane stroncijum-titanatne keramike. Doktorska disertacija pod nazivom "Uticaj mehaničke aktivacije na strukturu i svojstva stroncijum-titanatne keramike" osmišljena je i najvećim delom urađena u Institutu tehničkih nauka SANU i na Tehnološko-metalurškom fakultetu Univerziteta u Beogradu. Multidisciplinarnost istraživanja zahtevala je korišćenje različitih eksperimentalnih metoda za sintezu i karakterizaciju materijala, pa je istraživanje realizovano u više laboratorija i uz pomoć drugih kolega kojima se ovim putem zahvaljujem.

Istraživanja u okviru ove doktorske disertacije urađena su pod neposrednim rukovodstvom mentora dr Đorđa Janaćkovića, redovnog profesora Tehnološko-metalurškog fakulteta Univerziteta u Beogradu i dr Vere Pavlović, vanrednog profesora Mašinskog fakulteta Univerziteta u Beogradu, kojima se neizmerno zahvaljujem na korisnim diskusijama i savetima tokom mog istraživačkog rada. Posebno se zahvaljujem dr Veri Pavlović na pomoći pri snimanju, tumačenju i interpretaciji Ramanovih spektara, kao i na korisnim sugestijama u završnoj fazi izrade doktorske disertacije koje su značajno uticale na njen finalni oblik.

Zahvalnost dugujem dr Vladimiru Blagojeviću, naučom saradniku Instituta tehničkih nauka SANU i dr Vladimiru Pavloviću, redovnom profesoru Poljoprivrednog fakulteta Univerziteta u Beogradu, na iscrpnim diskusijama i sugestijama koje su bile od velike pomoći tokom izrade ove doktorske disertacije.

Srdačno se zahvaljujem na saradnji akademiku Antoniju Đorđeviću (SANU i Univerzitet u Beogradu – ETF), dr Nenadu Tadiću (Univerzitet u Beogradu – Fizički fakultet), dr Smilji Marković (ITN SANU), dr Nebojši Labusu (ITN SANU), dr Jugoslavu Krstiću (Univerzitet u Beogradu – IHTM), dr Jovani Ćirković (Univerzitet u Beogradu – IMSI), prof. dr Aleksi Maričiću (Univerzitet u Kragujevcu – FTN Čačak), kao i dr Stevi Leviću (Univerzitet u Beogradu – Poljoprivredni fakultet).

Dragim koleginicama i kolegi iz Instituta tehničkih nauka SANU, dr Darku Kosanoviću, Jeleni Vujančević i Adriani Peleš se zahvaljujem na stručnoj i prijateljskoj podršci tokom rada na doktorskoj disertaciji.

Ova doktorska disertacija urađena je u okviru projekta OI172057 "Usmerena sinteza, struktura i svojstva multifunkcionalnih materijala", Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije.

Veliku zahvalnost dugujem svojoj porodici na stpljenju, pomoći i razumevanju. Najiskrenije se zahvaljujem svojoj majci Ljiljani, ocu Aci i braći, Nikoli i Milošu, na neizmernoj podršci i pomoći tokom izrade ove doktorske disertacije. Posebnu inspiraciju uvek predstavlja moj sin Filip kome posvećujem ovu doktorsku disertaciju.

Beograd, 2020. *Jelena Živojinović*

ПРИЛОГ 12

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Invitation letter

This is my great pleasure to invite research assistant Adriana Peles from the Institute of Technical Sciences of the Serbian Academy of Science and Arts for a two week visit to the Georgia Institute of Technology - School of Physics. The purpose of Adriana Peles' visit is to discuss common research interest on graphene and related materials. Adriana Peles' research interests on the experimental as well as theoretical sides meet some of our current interests and we hope that her visit will help foster a long term collaboration with the Georgia Tech graphene group. Funding for her visit will be provided by the Serbian side.

Atlanta, April 24th, 2015

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Adriana Peles
Research Assistant
Institute of Technical Science
Serbian Academy of Sciences and Arts

Dear Adriana,

We are delighted that you can come and visit the epitaxial graphene lab at the School of Physics at the Georgia Institute of technology. Due to the summertime travel schedule of the professors involved in the graphene research team and in order to optimize your visit and allow for in depth discussions, scheduled meeting might have to be spread over a period of a month. I truly hope that you can accommodate a month-long stay in Atlanta that will help foster collaboration with the graphene research group.

Yours sincerely

Atlanta, June, 15th, 2015

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