



UCG

Univerzitet Crne Gore

УНИВЕРЗИТЕТ ЦРНЕ ГОРЕ  
МЕТАЛУРШКО-ТЕХНОЛОШКИ  
ФАКУЛТЕТ

Цетињски пут б.б.  
81000 Подгорица,  
Црна Гора

UNIVERSITY OF MONTENEGRO  
FACULTY OF METALLURGY AND  
TEHNOLOGY

Cetinjski put b.b.  
81000 Podgorica  
MONTENEGRO



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Жиро рачун: 510-2435-10

ПИБ: 02016702

ПДВ: 30/31-03951-6

Број 1348/10

Подгорица, 10. 09. 2021.

## UNIVERZITET CRNE GORE ODBOR ZA DOKTORSKE STUDIJE

**PREDMET:** Dostava predloga za imenovanje  
komentora

Shodno odredbama Pravila doktorskih studija, u prilogu akta vam dostavljamo predlog odluke za imenovanje komentora za izradu doktorske disertacije, kandidatu MSc Zorani Sekulić, koju je Vijeće Metalurško-tehnološkog fakulteta u Podgorici donijelo na svojoj sjednici koja je održana 10.09.2021. godine.

U prilogu dostavljamo prateću dokumentaciju.

S poštovanjem,



DEKAN,

Prof. dr. Mira Vukčević

Broj

1349  
21

Na osnovu člana 64 Statuta Univerziteta Crne Gore („Bilten UCG“ br. 337/2015 i br. 447/2018) i na osnovu inicijalnog prijedloga Komisije za doktorske studije, nakon izvršenih konsultacija na relaciji doktorant-Komisija za doktorske studije-potencijalni ko/mentori, Vijeće Metalurško-tehnološkog fakulteta u Podgorici, na sjednici održanoj 10.09.2021. godine, donijelo je sljedeći -

## PREDLOG ODLUKE

- I DA SE za komentora kandidatu MSc Zorani Sekulić, imenuje prof. dr Jasmina Grbović Novaković, naučni savjetnik u Institutu za nuklearne nauke “Vinča” u Beogradu.
- II Komentor za izradu doktorske disertacije, u saradnji sa mentorom, ima obavezu da pomaže studentu pri izboru metoda naučno-istraživačkog rada, literature, pripremi strukture rada, u definisanju istraživačkih aktivnosti i planiranju vremenskog okvira za istraživanja na osnovu kojeg se može pratiti napredak studenta, kao i da mu pruža drugu stručnu pomoć.
- III Odluku o imenovanju donosi Senat, na prijedlog Centra za doktorske studije.

### Obrazloženje

Senat Univerziteta Crne Gore je, na sjednici održanoj 23-24.04.2020. godine imenovao dr Vanju Asanović, redovnog profesora Metalurško-tehnološkog fakulteta u Podgorici Univerziteta Crne Gore, za mentora kandidatu MSc Zorani Sekulić.

Komisija za doktorske studije je izvršila konsultacije na relaciji doktorand-Komisija za doktorske studije-potencijalni ko/mentori, i uz detaljno obrazloženje mentora, predložila Vijeću Fakulteta da se za komentora kandidatu MSc Zorani Sekulić, imenuje prof. dr Jasmina Grbović Novaković, naučni savjetnik u Institutu za nuklearne nauke “Vinča” u Beogradu.

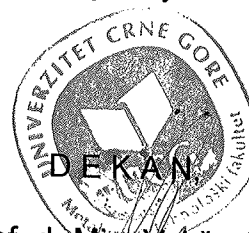
Komisija za doktorske studije se, prilikom predlaganja kandidata za komentora rukovodila činjenicom da su planirana istraživanja kompleksna i da se ne mogu u cjelini završiti na MTF-u, te da su zajednička istraživanja i uspješna saradnja preduslovi za adekvatna istraživanja i rezultate u ovoj oblasti.

Kako komentor ispunjava uslove definisane Pravilima doktorskih studija, to je Vijeće Metalurško-tehnološkog fakulteta, na sjednici održanoj 10.09.2021. godine, jednoglasno donijelo odluku o imenovanju prof. dr Jasmine Grbović Novaković, naučnog savjetnika za komentora kandidatu MSc Zorani Sekulić.

Na osnovu naprijed iznijetog odlučeno je kao u dispozitivu odluke.

CO:

- Odbor za doktorske studije,
- St. služba,
- Sekretaru,
- a/a.



Prof. dr Mira Vukčević

METALURŠKO- TEHNOLOŠKI FAKULTET

Ovdje

Predmet : Inicijalni predlog za komentora

Na osnovu zahtjeva br.1320 od 07.09.2021g. Komisija za doktorske studije , uz konsultacije sa mentorom prof. dr Vanjom Asanović i kandidatom mr Zoranom Sekulić, daje inicijalni predlog da se za komentora kandidatu- doktorantu mr Zorani Sekulić imenuje dr Jasmina Grbović Novaković , naučni savjetnik u Institutu za nuklearne nauke " Vinča" u Beogradu.

U prilogu se nalazi obrazloženje inicijative za imenovanje komentora.

Podgorica,

08.06.09.2021.g.

Komisija za doktorske studije

Prof. dr Nada Jayković

Prof. dr Nada Blagojević

Prof. dr Zorica Leka

3. Leka


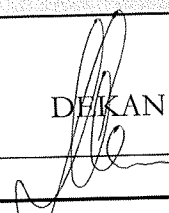
Crna Gora  
UNIVERZITET CRNE GORE  
METALURŠKO-TEHNOLOŠKI FAKULTET

Broj 1348

Podgorica, 10.09 20 god.

## MENTORSTVO

PREDLOŽENI MENTOR/I			
	Titula, ime i prezime	Ustanova i država	Naučna oblast
Prvi mentor			
Drugi mentor (komentor)	dr Jasmina Grbović Novaković	Institut za nuklearne nauke Vinča, Institut od nacionalnog značaja za Republiku Srbiju, Beograd, Republika Srbija	Fizička hemija materijala
Sjednica Vijeća organizacione jedinice na kojoj je izvršeno predlaganje mentora			
KOMPETENCIJE KOMENTORA (pet objavljenih radova u relevantnim časopisima)			
Prvi mentor	1		
	2		
	3		
	4		
	5		
Drugi mentor (komentor)	1	Tijana Pantić, Igor Milanović, Miodrag Lukić, Jasmina Grbović Novaković, Sandra Kurko, Nikola Biliškov, Sanja Milošević Govedarović, <b>The Influence Of Mechanical Milling Parameters On Hydrogen Desorption From MgH<sub>2</sub>-WO<sub>3</sub> Composites</b> International Journal of Hydrogen Energy, 45(14) (2020) 7901-7911	
	2	S.Kurko, B.Paskas Mamula, J.Grbovic Novkaovic, N.Novakovic <b>DFT study of boron doped MgH<sub>2</sub>: bonding mechanism, hydrogen diffusion and desorption</b> International Journal of Hydrogen Energy,, 45(14) (2020) 7947-7957	
	3	Jasmina Grbović Novaković, Nikola Novaković, Sandra Kurko, Sanja Milošević Govedarović Tijana Pantić, Bojana Paskaš Mamula, Katarina Batalović, Jana Radaković, Jelena Rmuš, Marina Shelyapina, Nataliya Skryabina, Patricia de Rango, Daniel Fruchart <b>Influence of Defects on the Stability and Hydrogen-Sorption Behavior of Mg-Based Hydride</b> , ChemPhysChem, 20(10) (2019) 1216-1247	
	4	S Milošević, S. Kurko, L. Pasquini, Lj. Matović., R. Vujasin, N. Novaković, <b>J. Grbović Novaković, Fast hydrogen sorption from MgH<sub>2</sub>-VO<sub>2</sub>(B) composite materials</b> , Journal of Power Sources 307 (2016) 481- 488	

	5	A.Bassetti, E. Bonetti, L. Pasquini, A.Montone, J.Grbović, M.Vittori Antisari, <b>Hydrogen desorption from ball milled MgH<sub>2</sub> catalyzed with Fe</b> European Physical Journal B <b>43</b> , (2005) 19-37		
<b>PODACI O MAGISTRANDIMA I DOKTORANDIMA</b>				
	Broj magistranada		Broj doktoranada	
	trenutno	ukupno	trenutno	ukupno
Prvi mentor				
Drugi mentor	1 Univerzitet u Beogradu, Fakultet za fizičku hemiju	2	3 (2 domaća na Univerzitetu Beogradu ) 1 međunarodni Univerzitet u Xi'an Jiaotong University	8
<b>Datum i ovjera (pečat i potpis odgovorne osobe)</b>				
U Podgorici, 07.09.2021				DEKAN 

UNIVERZITET CRNE GORE

METALURŠKO-TEHNOLOŠKI FAKULTET

Podgorica

**PREDMET:** Predlog za imenovanje komentora

Poštovani,

Tehnološki izazovi koji zahtevaju sofisticirane materijale specijalnih osobina i dalje postoje uprkos tome što je poslednjih godina postignut napredak u razvoju materijala za različite namene. Aktuelno pitanje obezbeđenja pouzdanog snabdevanja čistom energijom dostupnom svima reflektuje se na naučnu zajednicu i koncipiranje istraživanja kako bi se projektovala struktura i »prouzrokovala« potrebne karakteristike. Doprinos takvim istraživanjima treba da pruži i doktorand mr Zorana Sekulić koja je izborom naučne oblasti za usavršavanje, dobila priliku da se uključi u istraživački tim Metalurško-tehnološkog fakulteta koji je 2018. godine započeo saradnju sa naučnicima iz Instituta za nuklearne nauke Vinča iz Republike Srbije okviru bilateralnog projekta: „Sinteza i karakterizacija PCM (fazno promenljivih materijala) materijala – put ka ekonomiji baziranoj na vodoničnoj energetici“.

Saradnja istraživačkih timova je nastavljena u cilju razvoja tehnologije za dizajniranje nanokompozita na bazi magnezijuma za skladištenje vodonika što je omogućilo doktorandu mr Zorani Sekulić da sprovede polazna istraživanja i pripremi prijavu teme doktorske disertacije. Budući da laboratorijski kapaciteti na Metalurško-tehnološkom fakultetu u Podgorici nisu dovoljni za sintezu nanokompozita na bazi magnezijum hidrida, najveći deo eksperimentalnog istraživanja se sprovodi u laboratorijama Instituta za nuklearne nauke „Vinča“ kojim koordinira dr Jasmina Grbović Novaković. Kako bi se doktorandu mr Zorani Sekulić pomoglo pri izboru metoda, analizi naučne literature, koncipiranju strukture rada i sprovođenju planiranih faza istraživanja, interdisciplinarnost teme doktorske disertacije ukazuje na potrebu kombinovanja ekspertiza iz oblasti fizičke metalurgije i fizičke hemije. Strukturna i morfološka karakterizacija modifikovanih kompozita i ispitivanje nastalih novih faza korelisaće se sa kinetičkim i termodinamičkim ispitivanjima sorpcije vodonika sa nanokompozita, što će kroz interdisciplinarni pristup dati odgovore za definisanje i razumevanje zavisnosti sastav-struktura-sinteza (procesiranje)-karakteristike. Dugogodišnje iskustvo dr Jasmine Grbović Novaković u sintezi, procesiranju i karakterizaciji nanostrukturiranih materijala koji se primenjuju u

oblasti vodnične energetike je značajna preporuka za njeno angažovanje kao komentora za izradu doktorske disertacije. Budući da je dr Jasmina Grbović Novaković poseduje ekspertizu iz oblasti mehanoheimijskih sinteza, dizajniranja sistema za merenje sorpcije vodonika (medjunarodna patentna prijava), kao i teorijskog modelovanja sistema, očekuje se i brže rešavanje različitih problema pri realizaciji eksperimentalnih faza istraživanja. Dr Jasmina Grbović Novaković je objavila više od 180 radova iz oblasti vodnične energetike (od toga preko 50 sa SCI liste, International Journal of Hydrogen Energy, Journal of Power Sources...) sa indeksom citiranosti 1249 (h faktor 22). Stoga, vas molim da u skladu sa Pravilima doktorskih studija (Bilten Univerziteta Crne Gore, br. 339/15), zbog multidisciplinarnosti teme doktorske disertacije odredite dr Jasminu Grbović Novaković kao komentora za izradu doktorske disertacije doktoranda mr Zorane Sekulić.

Srdačan pozdrav,

Mentor

  
Prof. dr Vanja Asanović

Podgorica, 07.09.2021.g.

Prilog: Biografija i bibliografija dr Jasmine Grbović Novaković  
Odluku o sticanju naučnog zvanja (dr Jasmina Grbović Novaković)  
Obrazac M: imenovanje mentora

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

Број:660-01-125/2013-17

17.07.2013. године

Београд

На основу члана 22. става 2. члана 70. став 7. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) и захтева који је поднео

*Инстџиџуџ за нуклеарне науке "Винча" у Београду*

Комисија за стицање научних звања на седници одржаној 17.07.2013. године, донела је

**ОДЛУКУ  
О СТИЦАЊУ НАУЧНОГ ЗВАЊА**

*Др Јасмина Грбовић Новаковић*

стиче научно звање

*Научни савешњик*

у области природно-математичких наука - физичка хемија

**О Б Р А З Л О Ж Е Њ Е**

*Инстџиџуџ за нуклеарне науке "Винча" у Београду*

утврдио је предлог број 678/4 од 21.02.2013. године на седници научног већа Института и поднео захтев Комисији за стицање научних звања број 678/8 од 05.03.2013. године за доношење одлуке о испуњености услова за стицање научног звања *Научни савешњик*.

Комисија за стицање научних звања је по предходно прибављеном позитивном мишљењу Матичног научног одбора за хемију на седници одржаној 17.07.2013. године разматрала захтев и утврдила да именована испуњава услове из члана 70. став 7. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) за стицање научног звања *Научни савешњик*, па је одлучила као у изреци ове одлуке.

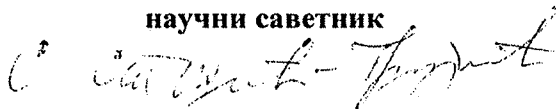
Доношењем ове одлуке именована стиче сва права која јој на основу ње по закону припадају.

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

**ПРЕДСЕДНИК КОМИСИЈЕ**

др Станислава Стошић-Грујичић,

научни саветник



**МИНИСТАР**

Проф. др Жарко Обрадовић



**Ime I prezime: Jasmina Grbović Novaković**

**Naučno zvanje/datum sticanja**                      **naučni savetnik/17.07.2013**

**Afilijacija:**    **Institut za nuklearne nauke Vinča, Institut od nacionalnog značaja za Republiku Srbiju, Univerzitet u Beogradu, Laboratorija za fiziku  
POB 522 Belgrade 11 000 Serbia**

**Trenutna pozicija:**                                      **Rukovodilaca Centra izuzetnih vrednosti za vodoničnu energetiku I obnovljive izvore energije  
Kordinator Programskog saveta Instituta Vinča**

**Ranije pozicije:**    **Pomoćnik direktora za nauku u Laboratoriji za fiziku**

**Citiranost i h faktor:**                                      **1249 and 22 (Google Scholar)**

**Istraživačko interesovanje:**                              **Mehanohemijaska sinteze materijala  
Modifikacija materijala josnkim snopom  
Razvoj materijala za skladištenje vodonika  
Razvoj opreme za karakterizaciju materijala  
Razvooj materijala za elektrohemijske senzore**

**E-mail:**    **[jasnagn@gmail.com](mailto:jasnagn@gmail.com), [jasnag@vinca.rs](mailto:jasnag@vinca.rs)**

**Publikacije:**    **Autor je više od 180 publikacija od toga  
51 u međunarodnim časopisima,  
125 saopštenja na konferencijama,  
8 pozivnih predavanja i  
3 poglavlja u monografijama**

#### **OBRAZOVANJE**

Osnovnu i srednju školu završila je u Beogradu

- 1999**                      **Diplomirala je na Fakultetu za fizičku hemiju Univerziteta u Beogradu.**
- 2003**                      **Magistrirala je na Fakultetu za fizičku hemiju Univerziteta u Beogradu, tema: Karbon/karbon kompoziti kao nosači kiseonične elektrode za primenu u Zn/vazduh gorivnim ćelijama,**
- 2005**                      **Doktorirala na Fakultetu za fizičku hemiju Univerziteta u Beogradu, tema: Kinetika formiranja hidrida u sistemima Mg-C, Mg-Fe i Mg-C-Pd.**
- 2008**                      **Posledoktorsko usavršavanje u Italiji ( CR ENEA Casaccia)**

#### **MENADŽMENT PROJEKATA SARADNJE NAUKA -PRIVREDA**

**2018 - Rukovodilac projekata:** Use of natural clays as electrochemical sensors

**2018 - Rukovodilac projekata:** Hydrogen storage in composite materials based on minerals

### MENADŽMENT NACIONALNIH PROJEKATA

**2020-2021** Rukovodilac of **Proof of Concept project**: From modified pyrophyllite - natural clay to electrochemical sensors for detection of pesticide traces in food and water (Project Id=5415)- Innovation fund of Serbia

**2017-2018** Rukovodilac of **Technology transfer facility project - Hydrogen Storage Analyser** Innovation Fund of Serbia

**2010-2018** Rukovodilac **potprojekta**: Experimental and theoretical investigation of materials for hydrogen storage at project Synthesis, processing and characterization of nanostructured materials for application in the fields of energy, mechanical engineering, environment and biomedicine

**2006-2010** Rukovodilac **radnog zadatka**: Synthesis and modification of magnesium based materials for hydrogen storage, within national project Synthesis and characterisation of nanostructured metallic and intermetallic compounds and their composites"

### MENADŽMENT INTERNACIONALNIH PROJEKATA

**2019-2023** MC member of **COST ACTION CA18112** - Mechanochemistry for Sustainable Industry

**2019-2021** MC member of **COST Action IG15102** - Title Innovative and sustainable Technologies for reducing critical raw materials dependence for Cleaner transportation Applications

**2015-2019** MC member of **COST ACTION CA15102** Solutions for Critical Raw Materials Under Extreme Conditions

**2019-2020** **Bilateral project Serbia-Montenegro** Synthesis and characterization of PCM (phase change materials) materials: the path to a hydrogen energy-based economy according

**2016-2017** **Bilateral project Serbia-France** Nanostructured composite materials for solid state hydrogen storage

**2016-2017** **Bilateral project Serbia -Croatia** Amonium boranes and its derivatives for solid state hydrogen storage

**2011-2015** MC member and in charge for Early stage researchers (ESR) and small term scientific missions (STSM) at **COST Action MP1103 Nanostructured materials for solid-state hydrogen storage**

**2010-2012** **Bilateral project Serbia -Spain**: Effects of low energy ion irradiation on the catalytic activity magnesium and magnesium based intermetallic compounds

**2010-2012** **Bilateral project Serbia -Russia**: 'Ion beam induced nanostructuring of silicon based and materials for hydrogen storage (WP leader)

**2009** **International project** Inelastic neutron scattering study of the microscopic proton dynamics in ion-bombarded MgH<sub>2</sub>

### UČEŠĆE U NACIONALNIM PROJEKTIMA

**2010 - 2018** Synthesis, processing and characterization of nanostructured materials for application in the fields of energy, mechanical engineering, environment and biomedicine"

**2006 - 2010** Synthesis and characterisation of nanostructured metallic and intermetallic compounds and their composites"

**2002 - 2005** New carbon materials and their composites

### UČEŠĆE U INTERNACIONALNIM PROJEKTIMA

**2012-2013 Bilateral project Serbia - Slovenia:** Microstructural investigation of materials for hydrogen storage and correlation with desorption properties

**2010-2012 Bilateral project Serbia - Russia:** Ion beam induced nanostructuring of silicon based materials for hydrogen storage

### **EVALUATOR PROJEKATA**

2020 Evaluator for National Entity for Accreditation and Quality Assurance in Higher Education of Serbia - NEAQA

Evaluation of the Baltic Research Programme

Certified evaluator for IPA project

Evaluator of project related to Funding Multilateral Scientific and Technological Cooperation Projects in the Danube Region

Evaluator of project related to Funding Bilateral Project funded by Serbian Ministry of Education, Science and Technological Development

### **RECENZENT U MEĐUNARODNIM ČASOPISIMA**

International Journal of Hydrogen Energy, Journal of Power Sources, Journal of Alloys and Compounds Ultrasonic Sonochemistry, Journal of Materials Research, Hemijska industrija, Materials Science, Processing and Applied Ceramics, Environmental Engineering and Management Journal, Journal of Nanoscience...

### **ČLANSTVO U TELIMA I KOMISIJAMA, RUKOVOĐENJE DRUŠTVIMA**

2020 - Member of National commission for acquisition of scientific titles

2019 - Coordinator of Programme Board of Vinča Institute of Nuclear Sciences

2019 - Member of Council of Institutes at Belgrade University

2018 - Director of Centre of Excellence for Hydrogen and Renewable Energy

2017 - Member of Advisory Board of Hydrogen Economy Initiative Serbia

2010 -2020 – President of Serbian Society for Microscopy

2006-2010 – Secretary General of Serbian Society for Microscopy

2008-2010 – Secretary General of Vinca Institute Scientific Council

Faculty leader of Hydrogen storage Student Chapter

### **ČLANSTVO U PROGRAMSKIM I ORGANIZACIONIM ODBORIMA KONFERENCIJA**

- President and member of program and organizing committee 14<sup>th</sup> Multinational Conference on Microscopy MCM2019 Belgrade, Serbia 15-20.9.2019
- President and member of program and organizing committee of 3rd International Symposium on Energy Storage and Conversion Belgrade, Serbia 10-12.10.2018
- President and member of program and organizing committee of the Joint meeting of 11<sup>th</sup> Conference of Young Researchers in Field of Material Science and the 1<sup>st</sup> European Early Stage Researchers Conference of Hydrogen Storage, 03-05. 12. 2012, Belgrade, Serbia
- Member of program committee of the 10<sup>th</sup> Conference of Young Researchers in Field of Material Science, 21-23. 12. 2011, Belgrade, Serbia
- Member of organizing committee of the 7<sup>th</sup> International Conference on Mechanochemistry and Mechanical Alloying, 31.8-04.09. 2011, Herceg Novi, Montenegro

- Member of Program committee of 11<sup>th</sup> Multinational Conference on Microscopy 04.-09.09.2011, Urbino, Italy
- Member of program committee of the 1<sup>st</sup> Conference of the Serbian Ceramic Society, 17–18. 03.2011, Belgrade, Serbia
- Member of Program and Organizing board of 4<sup>th</sup> Serbian Congress on Microscopy, Belgrade 11-12. October 2010
- Member of program committee of the 9<sup>th</sup> Conference of Young Researchers in Field of Material Science, 20-22. 12. 2010, Belgrade, Serbia
- Member of program committee of the 8<sup>th</sup> Conference of Young Researchers in Field of Material Science, 21-23. 12. 2009, Belgrade, Serbia
- Member of Program committee of Joint meeting of 9<sup>th</sup> Multinational Conference on Microscopy 2009 and Dreiländertagung 2009 and chairman on the session M7, Graz, Austria
- Member of Program committee of National Conference: 7<sup>th</sup> Conference of Young Researchers in Field of Material Science, Belgrade, Serbia
- Member of Program and Organizing board of 3rd Serbian Congress on Microscopy, Belgrade, 2007
- Member of Program and Organizing board of national meeting on "50 years of Electron Microscopy in Serbia"

#### **MEĐUNARODNI MENTOR PHD TEZA**

**2021- Supervisor of PhD thesis of Mr. Jing Wang on solid state hydrogen storage at the School of Chemical Engineering of Technology of Xi'an Jiaotong University, China**

#### **MENTOR TEZA**

**2016- PhD thesis of S.Milošević, Faculty of Physical Chemistry, University of Belgrade**  
Theme: Usage of VO<sub>2</sub>(B) as a catalyst in the dehydration reaction of MgH<sub>2</sub> and as an intercalate material in lithium batteries

**2015 PhD thesis of S.Kurko, Faculty of Physical Chemistry, University of Belgrade**  
Theme: Influence of boron induced modification in MgH<sub>2</sub> structure on dehydrogenation process

**2015 PhD thesis of I. Milanović, Faculty of Physical Chemistry, University of Belgrade**  
Theme: Synthesis and characterization of complex and metallic hydrides for hydrogen energy applications

**2010 PhD thesis Lj.Matović, Faculty of Physical Chemistry, University of Belgrade**  
Theme: Change of thermal properties of MgH<sub>2</sub> induced by high-energy ions structural destabilization

#### **EDITOR ČASOPISA, PROCEEDINGS I KNJIGA**

- 2020** Guest editor of International Journal of Hydrogen Energy—Special issue,  
**2018** Editor of book Programme and the book of abstracts form 3rd International Symposium on Materials for Energy Storage and Conversion - mESC-IS 2018  
**2016** Editor of book Program and the Book of Abstracts from Workshop of French, Croatian and Serbian Researchers on Hydrogen Storage and Energy Related Materials  
**2013** Guest editor of International Journal of Hydrogen Energy—Special issue,  
**2012** Guest editor of book: Novel Perspectives on Hydrogen Storage in Solid Media  
**2011** Editor of book of abstracts from The 1st Conference of the Serbian Ceramic Society,  
**2010** Editor of book of abstracts from The 4th Serbian Congress for Microscopy  
**2007** Editor of book of abstracts from The 3rd Serbian Congress for Microscopy  
**2006** Editor of Monograph 50 years of electron microscopy in Serbia

## **NAGRADE**

- 2020 Congress Ambassador of Serbia
- 2018 The best entrepreneur idea Cider of Quince at Pokreni se za posao
- 2017 Third place at National Forum of Green Ideas for social entrepreneurship
- 2009 IAHE outstanding Service Award International Association of Hydrogen Energy
- 2009 IUPAP (International Union of Pure and Applied Physics) Women in Physics Grant
- 2005 S.I.S.M. grant for best paper on Multinational conference on microscopy
- 2003 The best poster on the YUCOMAT2003 conference

## **KNJIGE I POGLAVLJA U KNJIGAMA**

- 1.V.A. Blagojević, D.G. Minić, J.Grbović Novaković i D.M Minić, Book chapter Hydrogen Energy – Challenges and Perspectives Поглавље 1: Hydrogen Economy: Modern Concepts, Challenges and Perspectives, DOI: 10.5772/46098,Intech 2012
2. Nenad Ivanović, Nikola Novaković, Ivana Radisavljević, Ljijana Matović and Jasmina Grbović Novaković **Electronic Principles of Hydrogen Incorporation and Dynamics in Metal Hydrides** *Crystals* **2012**, 2, 1261-1282; doi:10.3390/cryst2031261 in "Hydrogen Storage Alloys" Editor Dr. Hans Hagemann ISSN 2073-4352

## **POZIVNA PREDAVANJA**

1. **J. Grbović Novaković**, S. Kurko, S. Milošević Govedarović, T. Pantić, B. Paskaš Mamula, M. Medić, N. Novaković **Theoretical and experimental approach to destabilization methods for improvement of hydrogen sorption kinetics in Mg based systems** 22<sup>nd</sup> Conference "New Cryogenic and Isotope Technologies for Energy and Environment" - *EnergEn* 2018 Băile Govora, Romania, October 24 – 26, 2018 pg. 134-135
2. **J. Grbović Novaković**, S. Kurko, S. Milošević Govedarović, B. Paskaš Mamula, T. Pantić, R. Vujasin, N. Novaković, **Hydrogen desorption for Mg/MgH<sub>2</sub> modified thin films**, The 21<sup>st</sup> International Conference on Solid Compounds of Transition Elements, SCTE'2018 will take place in Vienna, Austria, from March 25 to 29, 2018. ID number 2016
3. **J. Grbović Novaković**. **Hydrogen energy, fuel cells and hydrogen storage**, Conference Sustainable Transport at RENEXPO 2018. 24-26.4.2018,Belgrade, Serbia.
4. **J.Grbović Novaković**, Hydrogen economy – fuel cell and hydrogen storage Tesla Forum, 04.-07.7 2018. Andreljeva, Fruska Gora, Serbia
5. **J Grbović Novaković**, **Hydrogen economy in Serbia –research and development**, Workshop: Hydrogen for sustainable energy, 21.12 2016, Zelena akcija,, Zagreb. Croatia
6. **J.Grbović Novaković**, **Changes in storage properties of hydrides induced by ion irradiation**, 4<sup>th</sup> international conference on radiation interaction with materials and its use in technologies 2012, Kaunas. Lithuania, 14.05-17.05.2012
7. **J.Grbović Novaković**, **Modification of metal hydrides with heavy ion irradiation** First coordination meeting on the Program of cooperation of Serbia and JINR: Condensed Matter Physics with Ion Beams 25-27.02.2010, Dubna Russia

8. **J.Grbović Novaković**, T. Brdarić, N.Novaković, S Mentus **Hydrogen storage in magnesium based alloys** French-Serbian European summer University: Renewable energy and environment-multidisciplinary aspect, October 17<sup>th</sup>-October 24<sup>th</sup>, 2006, Vrnjačka Banja, Serbia, Proceedings, pg. 59-72

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1. S Milošević, S. Kurko, L. Pasquini, Lj. Matović., R. Vujasin, N. Novaković, **J. Grbović Novaković**, Fast hydrogen sorption from  $MgH_2-VO_2(B)$  composite materials, *Journal of Power Sources* 307 (2016) 481-488
2. D. Milcius, **J. Grobović Novaković**, R. Zostautienė, M. Lelis, D. Girdzevicius, M. Urbonavicius, Combined XRD and XPS analysis of ex-situ and in-situ plasma hydrogenated magnetron sputtered Mg films, *Journal of Alloys and Compounds*, 647 (2015)790-796
3. A. Đukić, U. Jovanović, T. Tuvic, V. Andrić, **J. Grbović Novaković**, N. Ivanović, Lj. Matović, The potential of ball-milled Serbian natural clay for removal of heavy metal contaminants from wastewaters: Simultaneous sorption of Ni, Cr, Cd and Pb ions, *Ceramics International* 39(6) (2013) 7173-7178
4. S. Milošević, Ž. Rašković-Lovre, S. Kurko, R. Vujasin, N. Cvjetičanin, Lj. Matović, **J. Grbović Novaković**, Influence of  $VO_2$  nanostructured ceramics on hydrogen desorption properties from magnesium hydride, *Ceramics International*, 39(1) (2013) 51-56
5. **J.Grbović Novaković**, Preface of the 1st European Early Stage Researchers' Conferences on Hydrogen Storage *International Journal of Hydrogen Energy*, 38 (27) (2013) 12102
6. J. Gulicovski, Ž. Rašković-Lovre, S. Kurko, R. Vujasin, Z. Jovanović, Lj. Matović, **J. Grbović Novaković**, Influence of vacant  $CeO_2$  nanostructured ceramics on  $MgH_2$  hydrogen desorption properties, *Ceramics International* 38 (2) (2012) 1181-1186
7. S. Kurko, B. Paskaš Mamula, Lj. Matović, **J. Grbović Novaković**, N. Novaković, The Influence Of Boron Doping Concentration On  $MgH_2$  Electronic Structure, *Acta Physica Polonica A* 120(2)(2011)238-241
8. **J. Grbović Novaković**, Lj. Matović, S. Milovanović, M. Drvendžija, N. Novaković, D. Rajnović, M. Šiljegović, Z. Kačarević Popović, N. Ivanović, Changes of hydrogen storage properties of  $MgH_2$  induced by heavy ion irradiation, *Int.J.Hyd. Energy* 33(7) (2008) 1876-1879
9. S. Milovanović, Lj. Matović, M Drvendžija, **J. Grbović Novaković** Hydrogen storage properties of  $MgH_2$  - diatomite composites obtained by high energy ball milling, *Journal of Microscopy- Oxford*, 232(3) (2008) 522-525.
10. A. Bassetti, E. Bonetti, L. Pasquini, A.Montone, **J. Grbović**, M.Vittori Antisari, Hydrogen desorption from ball milled  $MgH_2$  catalyzed with Fe, *The European Physical Journal B*, 43(2005)19-37

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2. P. Janjatović, O.Erić-Cekić, LŠiđanin, S.Baloš, M.Dramićanin, J.Grbović Novaković, D.Rajnović. **The Effect of Water Concentration in Ethyl Alcohol on the Environmentally Assisted Embrittlement of Austempered Ductile Irons** *Metals* 11(1) (2021) 94;
3. Nikola Novaković, Sandra Kurko, Jasmina Grbović Novaković, Preface: **The 3rd International Symposium on Materials for Energy Storage and Conversion (mESC-IS2018)**, *International Journal of Hydrogen Energy*, 45(14) (2020) 7873
4. Tijana Pantić, Igor Milanović, Miodrag Lukić, Jasmina Grbović Novaković, Sandra Kurko, Nikola Biliškov, Sanja Milošević Govedarović, **The Influence Of Mechanical Milling Parameters On Hydrogen Desorption From MgH<sub>2</sub>-WO<sub>3</sub> Composites** *International Journal of Hydrogen Energy*, 45(14) (2020) 7901-7911
5. S.Kurko, B.Paskas Mamula, J.Grbovic Novkaovic, N.Novakovic **DFT study of boron doped MgH<sub>2</sub>: bonding mechanism, hydrogen diffusion and desorption** *International Journal of Hydrogen Energy*, 45(14) (2020) 7947-7957
6. Jasmina Grbović Novaković, Nikola Novaković, Sandra Kurko, Sanja Milošević Govedarović Tijana Pantić, Bojana Paskaš Mamula, Katarina Batalović, Jana Radaković, Jelena Rmuš, Marina Shelyapina, Nataliya Skryabina, Patricia de Rango, Daniel Fruchart **Influence of Defects on the Stability and Hydrogen-Sorption Behavior of Mg-Based Hydride**, *ChemPhysChem*, 20(10) (2019) 1216-1247
7. N. Biliskov, A. Borgschulte, K. Užarević, I. Halasz, S. Lukin, S. Milošević, I. Milanović, J. Grbović Novaković **In-situ and Real-time Monitoring of Mechanochemical Preparation of Li<sub>2</sub>Mg(NH<sub>2</sub>BH<sub>3</sub>)<sub>4</sub> and Na<sub>2</sub>Mg(NH<sub>2</sub>BH<sub>3</sub>)<sub>4</sub> and their Thermal Dehydrogenation**, *The Chemistry-A European Journal* 23(64) (2017) 16274–16282.
8. R,Vujasin, J,Grbovic Novakovic N,Novakovic, S. Giusepponi, M/ Celino, **Ab-initio study of hydrogen mobility in the vicinity of MgH<sub>2</sub>-Mg interface: The role of Ti and TiO<sub>2</sub>**, *J. Alloys Compd* 696 (2017) 548-559.

9. Ž. Rašković Lovre, S. Kurko, N. Ivanović, J. F. Fernandez, J.-R. Ares, S. Šturm, T. Mongstad, N. Novaković, **J. Grbovic Novakovic, In situ Desorption of Magnesium Hydride Irradiated and Non-irradiated Thin Films: Relation to Optical Properties** *J. Alloys Compd* 695 (2016) 2381-2388
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11. S. Milošević, S. Kurko, L. Pasquini, Lj. Matović., R. Vujasin, N. Novaković, **J. Grbović Novaković, Fast hydrogen sorption from MgH<sub>2</sub>-VO<sub>2</sub>(B) composite materials**, *Journal of Power Sources* 307 (2016) 481- 488
12. R. Vujasin, A. Mraković, S. Kurko, N. Novaković, Lj. Matović, **J. Grbović Novaković, S. Milošević Catalytic activity of titania polymorphs towards desorption reaction of MgH<sub>2</sub>**, *International Journal of Hydrogen Energy*, 41(8)(2016) 4703-4711
13. S. Balos, D. Rajnovic, M. Dramicanin, D. Labus, O. Eric-Cekic, **J. Grbovic Novakovic, L. Sidjanin. Abrasive wear behaviour of ADI material with various retained austenite content**, *International Journal of Cast Metals Research*, 29(4) (2016) 187-193
14. D. Milcius, **J. Grbović Novaković**, R. Zostautienė, M. Lelis, D. Girdzevicius, M. Urbonavicius **Combined XRD and XPS analysis of ex-situ and in-situ plasma hydrogenated magnetron sputtered Mg films** *Journal of Alloys and Compounds*. 2015. 47 (2015)790-796
15. D. Rajnovic, S. Balos, L. Sidjanin, O. Eric Cekic, **J. Grbovic Novakovic Tensile properties of ADI material in water and gaseous environments** *Materials Characterization* 101(2015)26-33
16. B. Paskas Mamula, **J. Grbovic Novakovic**, I. Radisavljevic, N. Ivanovic, N. Novakovic **Electronic Structure and Charge Distribution Topology of MgH<sub>2</sub> doped with 3d Transition Metals** *International Journal of Hydrogen Energy*, DOI: 39(11) (2014)5874-5887
17. S. Kurko, I. Milanovic, **J. Grbovic Novakovic**, N. Ivanovic, N. Novakovic **Investigation of surface and near-surface effects on hydrogen desorption kinetics of MgH<sub>2</sub>**, *International Journal of Hydrogen Energy* 39(2) (2014), 862-867
18. **J. Grbović Novaković, Preface of the 1st European Early Stage Researchers' Conferences on Hydrogen Storage** *International Journal of Hydrogen Energy*, 38 (27) (2013) 12102
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21. K. Kumric, A. Đukić, T. Trtić-Petrović, N. Vukelić, Z. Stojanović, **J. Grbović Novaković, L. Matović, Simultaneous Removal of Divalent Heavy Metals from Aqueous Solutions Using Raw and Mechanochemically Treated Interstratified Montmorillonite/Kaolinite Clay**, *Industrial and Engineering Chemistry Research* 52(23) (2013)7930-7939



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25. S. Milošević, Ž. Rašković-Lovre, S. Kurko, R. Vujasin, N. Cvjetičanin, Lj. Matović, **J. Grbović Novaković**, **Influence of VO<sub>2</sub> nanostructured ceramics on hydrogen desorption properties from magnesium hydride** Ceramics International 39(1) (2013) 51-56
26. S. Kurko, Lj. Matović, R. Vujasin, I. Milanović, Ž. Rašković-Lovre, N. Ivanović, **J. Grbović Novaković**, **Aging Effects in Irradiated MgH<sub>2</sub>; Connection to Hydrogen Production** Materials Science (Medžiagotyra) 19 (3) (2013) 349-353
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28. **J. Grbović Novaković**, S. Kurko, Ž. Rašković-Lovre, S. Milošević, I. Milanović, Z. Stojanović, R. Vujasin, Lj. Matović **Changes in Storage Properties of Hydrides Induced by Ion Irradiation** Materials Science (Medžiagotyra) 19 (2) (2013) 134-139
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30. S. Milošević, I. Stojković, **J. Grbović Novaković**, N. Cvjetičanin **The simple one-step solvothermal synthesis of nanostructured VO<sub>2</sub>(B)** Ceramics International 38(3) (2012) 2313-2317
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32. Nenad Ivanović, Nikola Novaković, Ivana Radisavljević, Ljijana Matović and Jasmina Grbović Novaković **Electronic Principles of Hydrogen Incorporation and Dynamics in Metal Hydrides** *Crystals* **2012**, 2, 1261-1282; doi:10.3390/cryst2031261 in "Hydrogen Storage Alloys" Editor Dr. Hans Hagemann ISSN 2073-4352
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35. S. Kurko, Lj. Matović, N. Novaković, B. Matović, Z. Jovanović, B. Paskaš Mamula, **J. Grbović Novaković Changes of Hydrogen Storage Properties of MgH<sub>2</sub> Induced by Boron Ion Irradiation** International Journal of Hydrogen Energy 36(1) (2011) 549-554
36. S. Kurko, B. Paskaš-Mamula, Lj. Matovic, **J. Grbovic Novakovic**, N. Novakovic **The Influence of Boron Doping Concentration on MgH<sub>2</sub> Electronic Structure** Acta Physica Polonica 120(2)(2011) 238-241
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44. **J. Grbović Novaković**, Lj. Matović, S. Milovanović, M. Drvendžija, N. Novaković, D. Rajnović, M. Šiljegović, Z. Kačarević Popović, N. Ivanović **Changes of hydrogen storage properties of MgH<sub>2</sub> induced by heavy ion irradiation** International Journal of Hydrogen Energy **33(7)** (2008) 1876-1879
45. S. Milovanović, Lj. Matović, M. Drvendžija, **J. Grbović Novaković**, **Hydrogen storage properties of MgH<sub>2</sub> - diatomite composites obtained by high energy ball milling** Journal of Microscopy, 232(3) (2008) 522-525.
46. A. Montone, **J. Grbović**, M. Vittori Antisari, A. Bassetti, E. Bonetti, A.L. Fiorini, L. Pasquini, L. Mirengi, P. Rotolo **Nano-micro MgH<sub>2</sub>-Mg<sub>2</sub>NiH<sub>4</sub> composites: tailoring a multichannel system with selected hydrogen sorption properties** International Journal of Hydrogen Energy **32** (2007) 2026-2934
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49. A.Montone, **J. Grbovic**, Lj. Stamenkovic, A.L. Fiorini, L. Pasquini, E. Bonetti, M. Vittori Antisari **Co as catalyst for improved hydrogen sorption of mechanically milled MgH<sub>2</sub>** Mat. Sci. Forum, **518**, (2006) 79
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51. A.Montone, **J.Grbović**, A. Bassetti, L.Mirengi, P.Rotolo, E. Bonetti, L. Pasquini, M.Vittori Antisari, **Role of organic additives in hydriding properties of Mg-C nanocomposites**, Mat. Sci. Forum **494**, (2005) 137
52. A.Bassetti, E. Bonetti, A. L. Fiorini, **J.Grbovic**, A.Montone, L. Pasquini, M. Vittori Antisari, **Microstructure and Hydrogen Desorption in Nanostructured MgH<sub>2</sub>-Fe**. Mat Sci Forum, **453-454** (2004) 205
53. A.Devecerski, **J.Grbovic**, Z. Lausevic, N.Petranovic, **Increased stability of C/C-composite toward catalytic oxidation**, Mat Sci Forum, **453-454** (2004) 491
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