

METALURŠKO- TEHNOLOŠKI FAKULTET

Crna Gora
UNIVERZITET CRNE GORE
METALURŠKO-TEHNOLOŠKI FAKULTET

Broj 1328
Podgorica, 08.09. 21 god.

Predmet: Izvještaj Komisije za doktorske studije

Komisija za doktorske studije MTF je razmotrila PD obrazac (Prijava teme doktorske disertacije) mr Zorane Sekulić pod nazivom " Uticaj prelaznih metala na strukturu i sorpcione osobine nanokompozita na bazi magnezijum hidrida" i zaključila da sadrži sve potrebne elemente navedene u Vodiču za doktorske studije Univerziteta Crne Gore, pa predlaže da se nastavi procedura za odobravanje TEME DOKTORSKE DISERTACIJE pod navedenim nazivom.

Inicijalni predlog je da članovi KOMISIJE ZA OCJENU TEME DOKTORSKE DISERTACIJE budu:

1. Dr Vanja Asanović, redovni profesor, Metalurško-tehnološki fakultet, Univerzitet Crne Gore
2. Dr Jasmina Grbović Novaković, Naučni savjetnik, Institut za nuklearne nauke " Vinča", Beogradu
3. Dr Nada Jauković , redovni profesor, Metalurško-tehnološki fakultet, Univerzitet Crne Gore

Spisak referenci predloženih članova komisije dat je u prilogu.

Podgorica, 08.09.2021.g.

KOMISIJA

Nada Jauković
Prof. dr Nada Jauković

Nada Blagojević
Prof. dr Nada Blagojević

Zorica Leka
Prof. dr Zorica Leka 3. *Neka*

Na osnovu člana 32 stav 1 tačka 14 Statuta Univerziteta Crne Gore, u vezi sa članom 29 Pravila doktorskih studija, Senat Univerziteta Crne Gore, u postupku razmatranja prijedloga Vijeća Metalurško-tehnološkog fakulteta i na prijedlog Centra za doktorske studije, na sjednici održanoj 23-24.04.2020. godine, donio je sljedeću

ODLUKU

I

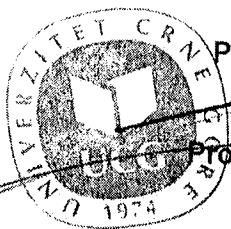
Dr Vanja Asanović, redovni profesor Metalurško-tehnološkog fakulteta Univerziteta Crne Gore **imenuje se za mentora** pri izradi doktorske disertacije **kandidatkinje mr Zorane Sekulić**.

II

Odluka stupa na snagu danom donošenja.

Broj: 03- 1593/2

Podgorica, 24.04.2020. godine



~~PREDSJEDNIK SENATA~~

~~Prof. dr Danilo Nikolić, rektor~~

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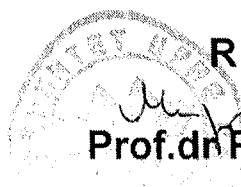
Број: 01-362
Датум: 26.02.2009 г.

Ref: _____
Date: _____

Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG br. 60/03.) i člana 18 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 26.02.2009. godine, donio je

ODLUKU O IZBORU U ZVANJE

DR VANJA ASANOVIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmete: **Fazne transformacije i Karakterizacija materijala na Metalurško-tehnološkom fakultetu.**



REKTOR

[Signature]
Prof.dr Predrag Miranović

Prof. dr Vanja Asanović

BIOGRAFIJA

Rođena sam 14.10.1966. godine u Podgorici. Osnovnu i srednju školu (pomoćni istraživač u hemiji) završila sam u Podgorici. Dobitnik sam diplome „Luča“ za postignut odličan uspeh iz svih nastavnih predmeta tokom osnovne i srednje škole, kao i drugih nagrada od kojih je najznačajnija „Zlatna medalja“ na Festivalu rada omladine Jugoslavije (takmičenje srednjih škola) u Loznici 1984. godine za analitičku hemiju. Školske 1984/85. godine, proglašena sam za najboljeg srednjoškola Podgorice i Crne Gore. Na Metalurški fakultet u Podgorici upisala sam se školske 1985/86. godine. Dobitnik sam nagrade „19. decembar“ za školsku 1985/86. Diplomirala sam 1990. godine, sa prosečnom ocenom 9.20 i ocenom 10 na diplomskom radu.

Poslediplomske studije završila sam na Metalurško-tehnološkom fakultetu u Podgorici sa prosečnom ocenom 9.60. Magistarski rad pod nazivom: „*Termoelastična martenzitna transformacija i efekat pamćenja oblika kod legura Cu-Zn-Al*“ odbranila sam 08.07.1994. godine. Doktorsku disertaciju na temu: „*Uticajni faktori na kinetiku faznih transformacija i osobine Cu-Zn-Al legura sa efektom pamćenja oblika*“ odbranila sam na Metalurško-tehnološkom fakultetu u Podgorici 26.03.1998. godine.

U okviru **Oxford Colleges Hospitality Scheme** u svojstvu **Academic Visitor** usavršavala sam se od 01.07. do 31.07.2006. godine, na Odseku za materijale (Department of Materials) Univerziteta u Oksfordu.

Učestvovala sam u nacionalnim i međunarodnim naučnim projektima kao član ili rukovodilac radnog tima, kao i stručnim i ostalim međunarodnim projektima (IPA, NEWEN, RENA, ECRAN). Član sam Upravnog odbora, kao predstavnica Crne Gore za COST akcije CA18112: *Mechanochemistry for Sustainable Industry*, CA18224: *Green Chemical Engineering Network towards upscaling sustainable processes* i CA19118: *High-performance Carbon-based composites with Smart properties for Advanced Sensing Applications*. Član sam Društva za istraživanje materijala Srbije.

Recenzirala sam radove objavljene u međunarodnim časopisima (Q1, Q2 i Q3): Journal of Materials Processing Technology, International Journal of Metalcasting, Environmental Engineering and Management Journal, Journal of Mining and Metallurgy, Section B: Metallurgy i Indian Journal of Engineering and Materials Sciences.

PODACI O RADNIM MESTIMA I IZBORIMA U ZVANJA

Na Metalurško-tehnološkom fakultetu sam zasnovala radni odnos 01.02.1991. godine. U zvanje asistenta-pripravnika na Katedri za fizičku metalurgiju, izabrana sam 16.01.1991. godine, a u zvanje asistenta na istoj Katedri, 08.06.1995. godine.

Kao asistent-pripravnik, odnosno asistent izvodila sam vežbe iz predmeta: *Metalografija, Termička obrada, Mašinski materijali i Materijali* na Metalurško-tehnološkom fakultetu i Mašinskom fakultetu, Univerziteta Crne Gore.

U zvanje docenta sam izabrana 05.10.1998. godine za predmet *Fizička metalurgija*, a u zvanje vanrednog profesora 25.12.2003. godine za predmete: *Fazne transformacije i Karakterizacija materijala*. Kao vanredni profesor bila sam angažovana na izvođenju nastave na Metalurško-tehnološkom fakultetu iz sledećih predmeta: *Fazne transformacije, Karakterizacija materijala, Mehanizam i kinetika faznih transformacija i Upravljanje otpadom*. U akademsko zvanje redovni profesor Univerziteta Crne Gore izabrana sam 26.02.2009. godine za predmete: *Fazne transformacije i Karakterizacija materijala* (odluka o izboru u zvanje br. 01-262). Kao redovni profesor bila sam angažovana na izvođenju nastave na Metalurško-tehnološkom fakultetu iz predmeta: *Struktura materijala, Fazne transformacije i Upravljanje otpadom* (osnovne studije), *Karakterizacija materijala* (specijalističke studije), *Fizička metalurgija (odabrana poglavlja), Kinetika i mehanizam faznih transformacija, Elektronska mikroskopija i X-ray mikroanaliza* (magistarske studije), *Karakterizacija materijala i Fizika materijala* (postdiplomske master studije). Izvodila sam nastavu i iz predmeta *Metrologija* na poslediplomskim magistarskim studijama na Mašinskom fakultetu u Podgorici. Studijske 2019/20., izvodila sam nastavu na doktorskim studijama: *Metalurgija i materijali*, na Metalurško-tehnološkom fakultetu iz predmeta: *Fazne transformacije (odabrana poglavlja) i Mehanizmi ojačavanja i dizajn materijala*.

U periodu od 2009. godine do danas, bila sam angažovana za pripremu izveštaja i uputstava u okviru različitih međunarodnih projekata iz oblasti zaštite životne sredine:

- Program for Capacity Building for Implementing the Law on Environmental Impact Assessment, Strategic Environmental Assessment and Integrated Prevention and Pollution Control in Montenegro - Guide for Implementation of the Law on Integrated Pollution Prevention and Control (Regional Environmental Center for Central and Eastern Europe - REC, 2009);
- Regional Environmental Network for Accession (RENA), Europe Aid/128906/C/SER/Multi (2013);
- Waste management in Montenegro: Preliminary Activities for Preparation of Waste Management Plan (2015);
- Overview of the current status of development of PRTR and implementation of the PRTR Protocol in Montenegro (Regional Environmental Center for Central and Eastern Europe - REC, 2015);
- Environment and Climate Regional Accession Network (ECRAN), CRIS 2013/024-094 and ARES (2013)555380 (2015/2016).

Predstavljala sam Metalurško-tehnološki fakultet u projektu NEWEN – Netherlands and Western Balkan Environmental Network, koji je realizovan od oktobra 2008. do maja 2011. godine. Projekat NEWEN je bio usmeren na povezivanje i razvoj prekogranične saradnje u upravljanju životnom sredinom između šest univerziteta sa Zapadnog Balkana i univerziteta i instituta iz Holandije.

U maju 2006. godine, Ministarstvo ekonomije je angažovalo radni tim, čiji sam bila član, a potom i rukovodilac, u cilju uspostavljanja Centra za metrologiju, odnosno organizovanja aktivnosti u oblasti naučne, zakonske i industrijske metrologije, kao i kontrole predmeta od dragocenih metala u okviru Zavoda za metrologiju. Kao direktorica, predstavljala sam Zavod za metrologiju, rukovodila organizacionim jedinicama i organizovala aktivnosti neophodne za izgrađivanje nacionalne metrološke institucije i njeno pozicioniranje u međunarodnim i regionalnim organizacijama. Od juna 2007. godine do 11.02.2021. godine, predstavljala sam Crnu Goru u relevantnim međunarodnim i regionalnim metrološkim organizacijama, kao delegat i član različitih radnih tela.

Učestvovala sam u pripremi predloga zakona i podzakonskih akata iz oblasti metrologije, nacrta Strategije razvoja metrologije u Crnoj Gori za period 2016-2018., komunikacionih strategija, dokumentacije sistema menadžmenta kvalitetom, kao i predstavljanju aktivnosti u okviru slobodnog protoka robe. U periodu od 2007. do 2017. godine, bila sam član Skupštine Instituta za standardizaciju Crne Gore. U Privrednoj Komori Crne Gore, kao član učestvovala sam u radu Savjeta za dodjelu žiga vizuelnog označavanja proizvoda iz Crne Gore (2009 – 2021.) i Koordinacionog odbora za kvalitet PKCG (2016 – 2020.).

Najznačajnije obuke koje sam pohađala u okviru međunarodnih projekata odnose se na upravljanje otpadom, zaštitu životne sredine, metrologiju, strateško upravljanje, kvalitet i primenu standarda.

Nakon imenovanja za vršenje javne funkcije – direktorice Zavoda za metrologiju, u periodu od 01.09.2010. do 11.02.2021. godine, na Univerzitetu Crne Gore sam bila angažovana u skladu sa ugovorom o dopunskom radu. Nakon isteka mandata 11.02.2021. godine, ugovor o dopunskom radu na Univerzitetu Crne Gore je prestao da važi.

NAUČNO-ISTRAŽIVAČKA DELATNOST

Naučno-istraživački rad sam usmerila na sintezu, termo-mehaničku obradu, fazne transformacije i strukturna ispitivanja novih materijala – legura Cu-Zn-Al koje ispoljavaju efekat pamćenja oblika, kao i termičku obradu, fazne transformacije i karakterizaciju čelika i legura aluminijuma. Kao autor ili koautor objavila sam 27 radova u međunarodnim naučnim časopisima, 5 u nacionalnim naučnim časopisima,

43 rada na međunarodnim naučnim konferencijama i 16 na nacionalnim konferencijama. Koautor sam jednog univerzitetskog udžbenika.

U periodu od 1994. do 2007. godine bila sam angažovana kao saradnik na dva naučno-istraživačka projekta, a rukovodila sam sledećim naučno-istraživačkim projektima koje je finansiralo Ministarstvo prosvjete i nauke Crne Gore iz oblasti razvoja novih materijala (legure koje ispoljavaju efekat pamćenja oblika):

- „Uticaj mikrolegiranja na kinetiku faznih transformacija i drugih promjena u strukturi legura sa efektom pamćenja oblika“ (2000. godina).
- „Istraživanje uticaja legirajućih elemenata i termomehaničke obrade na substrukturu, mehaničke osobine i stepen oporavljanja oblika memorijskih legura na bazi bakra“ (2005/2007).

U toku 2009. i 2010. godine kao saradnik na potprojektu „Životna sredina i održivi razvoj“ u okviru projekta Crnogorske akademije nauka i umjetnosti „Crna Gora u XXI stoljeću – u eri kompetitivnosti“ učestvovala sam u pripremi poglavlja *Kvalitet životne sredine*.

U okviru programa naučne i tehnološke bilateralne saradnje Crna Gora – Republika Srbija za period 2019-2020, rukovodilac sam projekta: „Sinteza i karakterizacija PCM (fazno promjenljivih materijala) materijala – put ka ekonomiji baziranoj na vodoničnoj energetici“.

PEDAGOŠKA DELATNOST

UDŽBENIK

Radulović Branko, **Vanja Radusinović-Asanović** „Praktikum iz termičke obrade metala“, Univerzitet Crne Gore, MTF, Podgorica, 1997.

MENTORSTVO:

Magistarske master studije:

- ❖ Raonić Milena – magistarski rad *„Istraživanje uticajnih faktora na izbor i prikladnost metode za utvrđivanje stepena finoće u sistemu kontrole predmeta od dragocjenih metala u Crnoj Gori“* odbranjen 2017. godine na Mašinskom fakultetu, Univerziteta Crne Gore.

Doktorske studije:

- ❖ Zorana Sekulić – doktorand, Metalurško-tehnološki fakultet, Univerzitet Crne Gore, Odluka Senata Univerziteta Crne Gore br.03-1593/2 od 24.04.2020.

Prof. dr Vanja Asanović

BIBLIOGRAFIJA

Naučni radovi objavljeni u referentnim međunarodnim časopisima

1. **Asanović V.**, Perović B., Marković Z., Kostov A., Radulović B., Bošnjak B., "Precipitation Kinetics in Some Cu-Zn-Al Shape Memory Alloys", *Journal of Mining and Metallurgy* 36 (3-4) B (2000) pp.133-146.
2. **Asanović V.**, Perović B., Marković Z., Vušanović I., Kostov A., "The Influence of Heat Treatment on Shape Memory Effect", *Materials Science Forum: Trends in Advanced Materials and Processes*, Vol. 352, (2000) pp. 165-170, Trans.Tech. Publication, Switzerland.
3. Radulović B., Bošnjak B., Harding R., Pop-Tonev K., **Asanović V.**, "The Influence of Austenitising Temperature on the Microstructure and Mechanical Properties of Low-Alloyed Ni-Mo-Cu Austempered Ductile Iron", *Materials and Technology*, 34 (5), (2000) pp. 207-212.
4. Bošnjak B., Radulović B., Pop-Tonev K., **Asanović V.**, "Microstructural and Mechanical Characteristics of Low-Alloyed Ni-Mo-Cu Austempered Ductile Iron", *ISIJ International*, Vol. 40, No 12 (2000) pp. 1246-1252.
5. Bošnjak B., **Asanović V.**, Radulović B., Pop-Tonev K., "Influence of Microalloying and Heat Treatment on the Kinetics of Bainitic Reaction in Austempered Ductile Iron", *Journal of Materials Engineering and Performance, ASM International*, Vol. 10, No 2, April (2001) pp. 203-211.
6. **Asanović V.**, Delijić K., Radusinović I., Bošnjak B., "The Effects of Thermomechanical Treatments on the Microstructure and Properties of Cu-Zn-Al Alloy", *High Temperature Materials and Processes*, Vol. 21, No 5 (2002) pp. 269-280. Freund Publishing House, England.
7. **Asanović V.**, Delijić K., Leka Z., "Aging Effects in Cu-Zn-Al Shape Memory Alloy", *Materials Science Forum: Progres in Advanced Materials and Processes*, Vol. 453-454, (2004) pp. 187-193, Trans.Tech. Publication, Switzerland.(ISBN: 0-87849-940-7)
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10. Delijić K., **Asanović V.**, Radonjić D., "Mechanical and Corrosion Properties of AA8011 Sheets and Foils", *Materials and Technology*, 40 (3), (2006) pp. 83-88.
11. Delijić K., **Asanović V.**, Radonjić D., "Mechanical Behavior and Corrosion Properties of AA8079 Sheets", *Journal of the Mechanical Behavior of Materials*, Vol. 17, No. 1 (2006) pp. 1-15, Freund Publishing House Ltd., Israel.
12. **Asanović V.**, Delijić K., Jauković Nada., "Isothermal decomposition of the β' phase in Cu-Zn-Al shape-memory alloys", *Materials and Technology*, 40 (4), (2006) pp. 153-156.
13. Delijić K., **Asanović V.**, Radonjić D., "Downstream Processing of some Al-Fe-Mn-Si and Al-Fe-Si TRC Alloys and its Influence on Sheet/Foil Properties", *Materials Science Forum: Recent Developments in Advanced Materials and Processes*, Vol. 518, (July 2006) pp. 543-548, Trans.Tech. Publication, Switzerland (ISSN 0255-5476)

14. **Asanović V.**, Delijić K., "The Fabrication and Heat-treating of Cu-based Alloy for Shape Memory Plates", *The International Journal for Manufacturing Science and Production*, Vol. 7, No. 1 (2006) pp. 61-72, Freund Publishing House Ltd., Israel.
15. Jauković N., **Asanović V.**, "The effect of temper and chemical composition on polarization resistance of aluminum RR58 alloy", *Journal of Materials Processing Technology* Vol. 174, Issues 1-3 (2006), pp 293-295, Elsevier Science B.V., Lausanne, Switzerland
16. Delijić K., **Asanović V.**, "Mechanical Behavior and Corrosion Properties of Some AA6XXX Aluminum Alloys in T5 Temper", *Chem. Ind. & Chem. Eng. Journal*, Vol. 12, No. 4, 195-254, pp 231-235 (2006)
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20. **Asanović V.**, Delijić K., Jauković N., "A Study of Transformations of β -phase in Cu-Zn-Al Shape Memory Alloys", *Scripta Materialia*, Vol 58., Issue 7, 599-601 (2008)
21. Jauković N., **Asanović V.**, Radović Ž., "Mechanical Properties and Microstructure of Aluminum 2618 Alloy Containing Manganese and Chromium", *High Temperature Materials and Processes*, Vol. 28, Issue 4, Aug 2009, pp. 253-262, ISSN (Online) 2191-0324, ISSN (Print) 0334-6455,
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25. Scepanovic J., **Asanovic V.**, Herenda S., Vuksanovic D., Radonjic D., Korac F., "Microstructural Characteristics, Mechanical Properties, Fracture Analysis and Corrosion Behavior of Hypereutectic Al-13.5Si Alloy," *International Journal of Metalcasting*, Vol 13, Issue 3, July 2019, pp. 700-714, <https://doi.org/10.1007/s40962-019-00315-2>.
26. Vuksanovic D., **Asanovic V.**, Scepanovic J., Radonjic D., "Effect of chemical composition and T6 heat treatment on the mechanical properties and fracture behavior of Al-Si alloys for IC engine components," *Journal of Mining and Metallurgy, Section B: Metallurgy*, Vol. 57(2), 2021, pp. 195-207, ISSN 1450-5339 (print), ISSN 2217-7175 (online), doi: 10.2298/JMMB190510014V.
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Poglavlje u monografiji nacionalnog značaja

1. Šuković D., **Asanović V.**, Damjanović-Vratnica B., Radulović M. „Kvalitet životne sredine“, u monografiji „Crna Gora u XXI stoljeću – u eri kompetitivnosti“, urednik Momir Đurović, CANU, str. 345-410, knj. 73, sv. 1, 2010, ISBN 978-86-7215-247.

Radovi u objavljeni u časopisu nacionalnog značaja

1. **Asanović V.**, Perović B., Marković Z., Vušanović I., Kostov A., " The Effect of Thermal Treatment on the Effect of Form Memory ", *TECHNIQUE - New Materials*, 3/99 (1999) pp. 12 - 18.
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3. Radulović B., Adžić R., **Asanović V.**, "Influence factors on bending resistance of steel C.5420 during carburizing", *METALLURGY*, No. 1, Vol 5 (1999) pp. 1 - 10.
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3. **Asanović V.**, Perović B., Radusinović I., "The effects of thermal treatment on the structure of Cu-Zn-Al alloys", *Proceed. of the International Symposium on Shape Memory Alloys: Fundamentals, Modeling and Industrial Applications*; Quebec City, Quebec, Canada, Aug. 1999, p. 185 - 199.
4. Kostov A., Arsenić M., **Asanović V.**, "Thermal analysis of the Cu-Zn-Al shape memory alloys", *Proceed. of the International Symposium Light metals and composite materials*, Belgrade, Oct. 1999, p. 69 – 70.
5. **Asanović V. D.**, Vušanović I. Ć., Marković Z. B., Kostov A. I., Bošnjak B. T., Radulović B., "The influence of heat treatment on martensitic transformation and properties of Cu-Zn-Al shape memory alloys", *Proceed. of the 3rd Macedonian conference of metallurgy "METALLURGY 2000"*, Ohrid, Macedonia, May 2000, p. 283-288.

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8. Bošnjak B., Radulović B., **Asanović V.**, "Influence of austenitization temperature on microstructural and mechanical characteristics of Ni-Mo-Cu austempered ductile iron", *XXXII October Consultation of Miners and Metallurgists with International Participation*, Donji Milanovac, Oct. 2000, Volume II, p. 169 - 173.
9. **Asanović V.**, Delijić K., "The Investigation of Mechanical Behaviour of Cu-based Shape Memory Alloys", EMC 2003, Hanover, Nemačka
10. **Asanović V.**, Delijić K., Leka Z., "Investigation of Thermally Recoverable Martensitic Deformation in a Cu-Zn-Al Alloy", II International Symposium *Light Metals and Composite materials*, Proceedings, Belgrade, Serbia and Montenegro, 19-20 May 2004, p. 67-68, (ISBN 86-904393-1-5)
11. **Asanović V.**, Delijić K., "The Mechanical Behaviour and Shape Memory Recovery of Cu-Zn-Al Alloys", *4th Balkan Conference on Metallurgy: Scientific achievements and perspectives of metals industry in South-East Europe*, Proceedings, Zlatibor, Serbia, 27-29 September 2006, p. 451-456
12. Delijić K., **Asanović V.**, Radonjić D., "Mechanical Behaviour and Corrosion Resistance of AA8006 Sheets", *4th Balkan Conference on Metallurgy: Scientific achievements and perspectives of metals industry in South-East Europe*, Proceedings, Zlatibor, Serbia, 27-29 September 2006, p. 465-469.
13. Bulatovic N., Vukicevic T., Sabotic R., **Asanovic V.**, "Measurements Calibration Analysis of Novel IoT Platforms," XXII međunarodni naučno-stručni skup INFORMACIONE TEHNOLOGIJE – sadašnjost i budućnost 2017, Žabljak, pp. 165-168. ISBN 978-86-85775-20-8
14. J. Šćepanović, D. Radonjić, D. Vuksanović, **V. Asanović**, "Selection of modern technology in the process of municipal waste disposal", XX YuCorr, May 21-24, 2018, Tara Mountain, Serbia, pp. 173-178. ISBN 978-86-82343-26-4.
15. Vuksanovic D., **Asanovic V.**, Cvijovic Z., Scepianovic J., Radonjic D. "Microstructure and fracture analysis of T6 treated hypereutectic Al-13.5Si alloy for IC engine components," MCM2019, 14th Multinational Congress on Microscopy, Belgrade, Serbia, September 15-20, 2019, p. 357-359.

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2. **Asanović V.**, Perović B., "Investigation of thermoelastic martensitic transformation in Cu-18.05Zn-5.35Al shape memory alloy during isothermal annealing", *Proceed. Of METAL '98, 7th International Symposium*, Ostrava, Czech Republic, May 1998., p. 175.
3. **Radusinović-Asanović V.**, Perović B., Adžić R., "The effect of quenching conditions on the properties of Cu-21.6Zn-5.64Al shape memory alloy", *Proceed. Of METAL '99, 8th International Symposium*, Ostrava, Czech Republic, May 1999.
4. **Asanović V. D.**, Perović B. F., Marković Z. B., Kostov A. I., Vušanović I. Ć., "Thermoelastic Martensitic Transformation and Form Memory Effect in Cu-Zn-Al Alloys", *Proceedings of the Yugoslav Congress of Food, Pharmaceutical and Chemical Engineering with International Participation*, Novi Sad, September, 1999. p. 259.
5. **Asanović V.**, Perović B., Marković Z., Vušanović I., Kostov A. I. "The Impact of Thermal Treatment on the Form Memory Effect," *Proceedings of the Third Conference of the YUCOMAT'99 Materials Research Society with International Participation*, Herceg Novi, Sept. 1999. p. 166.
6. **Asanović V.**, Perović B., "Application of Memory Alloys in Medicine and Dentistry", *Proceedings of the Abstracts of the Third Conference of the Materials Research Society YUCOMAT'99 with International Participation*, Herceg Novi, September, 1999. p. 68.
7. Marković Z., Sabo T., **Asanović V.**, Trifunović S. "Synthesis and Characterization of the Ni (II) Complex with Imino-Diacetato-Dithiocarbamate (idadtc) Ligand", *Proceedings of the Third Conference of the YUCOMAT'99 Materials Research Society with International Participation*, Herceg Novi, September, 1999. p. 86.
8. Adžić R., Radulović B., **Asanović V.**, "SEM fracture of cemented sample after bending test", *Proceedings of the Abstracts of the Third Conference of the Materials Research Society YUCOMAT'99 with International Participation*, Herceg Novi, September 1999. pp. 174.
9. **Asanović V.**, Perović B., Marković Z., Kostov A., Todorović R., "Kinetics of deposition in some Cu-Zn-Al memory alloys", *Proceedings of the XXXI October Counseling of Miners and Metallurgists*, Bor, Oct. 1999., p. 152.
10. Kostov A., Todorović R., Arsenović M., **Asanović V.**, "Obtaining Copper Wire from Shape Memory Materials," *Proceedings of the XXXI October Conference of Miners and Metallurgists*, Bor, Oct. 1999., p. 160.
11. **Asanović V.**, Perović B., Delijić K., Kostov A., "Tensile tests and investigation of shape memory recovery of Cu-15.75Zn-5.37Al alloy *Proceed. of METAL 2000, 9th International Symposium*, Ostrava, Czech Rep., May 2000.
12. **Asanović V. D.**, Marković Z. B., Vušanović I. Ć., Bošnjak B. T., Radulović B., Kostov A. I., "Isothermal decomposition of β_1 phase in a Cu-Zn-Al shape memory alloy", *Book of Abstracts - 2nd International Conference on "Chemical Sciences for Sustainable Development"*, Halkidiki, Greece, June 2000, Vol II, p. 2.
13. Marković Z., Tešić Z., Sabo T., **Asanović V.**, Trifunović S., "Preparation and properties of complexes Pt(II) and Pd(II) with N-dithiocarboxy-iminodiacetic acid (idadtc) as ligand", *Book of Abstracts - 2nd International Conference on "Chemical Sciences for Sustainable Development"*, Halkidiki, Greece, June 2000, Vol I, p.242.
14. Bošnjak B., Radulović B., **Asanović V.**, "The Influence of Austenitising Temperature on Impact Properties of Ni-Mo-Cu Austempered Ductile Iron", *2nd International Conference on "Chemical Sciences for Sustainable Development"*, Halkidiki, Greece, June 2000.

15. Marković Z., Bogdanović G. A., Spasojević-de Bire A., **Asanović V.**, Sabo T., Trifunović S., "Crystal structure of ammonium iminodiacetate", *8th Conference of the Serbian Crystallographic Society - Abstracts*, Kragujevac, 2000, p. 41-42.
16. **Asanović V.**, Delijić K., Leka Z., "Aging effects in Cu-Zn-Al Shape Memory Alloy", *The Book of Abstracts of Fifth Yugoslav Materials Research Society Conference, YUCOMAT 2003*, Herceg Novi, Jugoslavija, sept. 2003., str.20.
17. Delijić K., **Asanović V.**, Radonjić D., "DOWNSTREAM PROCESSING OF SOME Al-Fe-Mn-Si AND Al-Fe-Si ALLOYS AND ITS INFLUENCE ON THE SHEET/FOILS PROPERTIES", *The Book of Abstracts of Seventh Yugoslav Materials Research Society Conference, YUCOMAT 2005*, Herceg Novi, Serbia and Montenegro, September 12-16, 2005., pp.102.
18. Delijić K., **Asanović V.**, Radonjić D., "Mechanical Behavior and Corrosion Properties of Some AA6xxx Aluminum Alloys in T5 Temper", *Book of Abstracts – 1st South East European Congress of Chemical Engineering*, September 25-28, 2005, Belgrade, Serbia and Montenegro, pp. 275.
19. Delijić K., **Asanović V.**, Radonjić D., "Thermomechanical Processing of Some AA6xxx Alloys for Improved Mechanical and Corrosion Properties", *Book of Abstracts – 12th International Metallurgy – Materials Congress and Fair*, 28th September – 02nd October 2005, Istanbul, Turkey.
20. Delijic K., **Asanovic V.**, Radonjic D., "The effect of thermo-mechanical processing on the properties of some Al-Fe-Si alloys with high Fe/Si ratio", *The Eight YU Materials Research Society Conference*, Herceg Novi, Sept 2006, Proc p.88, ISBN 86-80321-09-5, poster presentation.
21. **Asanovic V.**, Delijic K., Jaukovic N., "Heat treatment effects in a copper based shape memory alloy", *The Eight YU Materials Research Society Conference*, Herceg Novi, Sept 2006, Proc p.113, ISBN 86-80321-09-5, poster presentation.
22. **Asanović V.**, Delijić K., Bosnjak B., "THE PLATE FORMING PROCEDURE OF THE COPPER-BASED SHAPE MEMORY ALLOY", *The Book of Abstracts of 5th International Conference of the Chemical Societies of the South-East European Countries: Chemical Sciences at the European Crossroads*, Ohrid, Former Yugoslav Republic of Macedonia, September 10-14, 2006. vol II, pp.344.
23. **Asanović V.**, Delijić K., Jauković K., "A Study of transformations of β -phase in Cu-Zn-Al shape memory alloys", *The Book of Abstracts of Materials Today Asia*, Beijing, China, September 3-5, 2007, poster presentation P2.63.
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26. **Asanović V.**, Jauković N., Delijić K., "Quenching effects in Cu-based shape memory alloy", *8th International Symposium of Croatian Metallurgical Society SHMD 2008*, Sibenik, Hrvatska, jun 22-26, poster presentation, section A.
27. **Asanovic V.**, Delijic K., "The Effects of Aging on the Martensitic Transformation Temperature and Shape Memory Recovery of Cu-25,7Zn-3,1Al Alloy", *International Scientific Conference Contemporary Materials 2012*, Banja Luka, July 2012, poster presentation.
28. Delijić K., **Asanovic V.**, Šuković D., "Investigation od Used Grit Cement Stabilization for Safe Disposal", *Book of Abstracts, 22nd Congress of SCTM with international participation*, 5 – 9 Sept. 2012, Ohrid, Macedonia, pp. 235.

Radovi na nacionalnim naučnim konferencijama (štampani u celini)

1. Perović B., **Radusinović V.**, "Development of copper alloys exhibiting the effect of shape memory", *Proceedings of the Memorial Scientific Conference, "Metallurgy '94 Budva"*, Oct 1994, pp. 340 - 345.
2. **Radusinović V.**, Perović B., Delijić K., Rakić J., Lučić V., "Research of the occurrence of shape memory effect on Cu-Zn-Al alloys", *Proceedings of the Memorial Scientific Conference "Metallurgy '94", Budva*, Oct. 1994, p. 346- 351.
3. **Radusinović-Asanović V.**, Perović B., Jaćimović Ž., Rakić J., "X-ray examination of the crystal structure of martensite in copper-based alloys exhibiting shape-memory effects", *Proceedings of the XXVII October Counseling of Miners and Metallurgists, Bor*, Oct. 1995, p. 518 - 521.
4. Perović B., **Asanović V.**, "Development of shape-memory alloys and their application," *Proceedings of the colloquial scientific conference "Foundry '96"*, Budva, Oct. 1996, p. 1 - 13.
5. **Asanović V.**, Perović B., Kostov A., Todorović R., "Melting and Casting Characteristics of Cu-Zn-Al Alloys That Express the Effect of Form Memory", *Proceedings of the Colloquial Scientific Meeting "Foundry '98"*, Budva, Oct. 1998, p. 57 - 68.

Radovi na nacionalnim naučnim konferencijama (štampani u izvodu)

1. Radulović B., **Radusinović V.**, Adžić R., "Kinetics of oxidation of iron-based alloys in high-temperature operating conditions", *Proceedings of the IXth Yugoslav Congress of Chemistry and Chemical Technology, Herceg Novi*, May 1992, p. IV - 15.
2. Radulović B., **Radusinović V.**, Adžić R., "Decarbonization of the Surface Layer in the Carbonization Process", *Proceedings of the IX Yugoslav Congress of Chemistry and Chemical Technology, Herceg Novi*, May 1992, p. IV - 14.
3. **Radusinović V.**, Perović B., Rakić J., "Determination of critical temperatures of As and Af in copper-based alloys exhibiting shape memory effect", *Book of Work Excerpts of XXVI October Counseling of Miners and Metallurgists, Donji Milanovac*, October. 1994, p. 99.
4. **Radusinović V.**, Perović B., Rakić J., Šerbula M., "Isothermal annealing of an alloy exhibiting the effect of shape memory (Cu-18.05Zn-5.35Al) ", *Proceedings of Synopsis II of the Counseling on the Application of Scientific Research and Design Solutions in Metallurgy, Nikšić*, Apr. 1995, p. 140.
5. Blečić Ž., Kontić R., **Asanović V.**, "Induction Hardening of Pre-thermomechanically Treated Steel Č.1531", *Proceedings of Synopsis II of the Consultation on the Application of Scientific Research and Design Solutions in Metallurgy, Nikšić*, Apr. 1995, p. 33.
6. **Asanović V.**, Perović B., Delijić K., Todorović R., "Influence of different tempering processes on the properties of Cu-Zn-Al memory alloys", *Proceedings of the IV Counseling Synopsis on the Application of Scientific Research and Design Solutions in Metallurgy, Zlatibor*, Oct 1999, p. 31.
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8. **Asanović V. D.**, Perović B. F., Marković Z. B., Vušanović I. Č., "Effect of aging on the memory effect of Cu-25.38Zn-3.3Al 3.3 alloy shape, *Proceedings of the XXXIX Conference of the Serbian Chemical Society*, Belgrade, October. 1999., p. 46.
9. Marković Z., Sabo T., **Asanović V.**, Trifunović S., "Synthesis and characterization of the Cu (II) complex with imino-diacetato-dithiocarbamate ligand", *Proceedings of the XXXIX Conference of the Serbian Chemical Society*, Belgrade, Oct. 1999., p. 168.
10. Bošković T., Boričić M., **Asanović V.**, "Interlaboratory Comparison in South Eastern Europe - SEE Mass Comparison", XIII Conference SQM2009, Tivat, September 2009.
11. Bošković-Begenišić T., Vukoslavović G., **Asanović V.**, "Interlaboratory Comparison in the Field of Mass. 4- 2011 organized by the Department of Metrology ", XV Conference SQM2011, Tivat, 19-21. September 2011.

STRUČNA DELATNOST

Međunarodni projekti iz oblasti zaštite životne sredine

1. Person responsible for report:

Data Sheets for Vehicle Fuels and Emissions Country Assessment under projects: Capacity Building for Improvement of Vehicle Fuel Quality in the SEE Countries and Addressing Clean Fuel and Vehicles Issues in Central and Eastern Europe and Turkey (REC, 2005).

2. Engaged expert:

Developing activities for Protocol on Pollutant Release and Transfer Registers – PRTR Protocol in Montenegro, Aarhus project (REC, 2006).

3. Engaged expert:

Report of Implementation of the European Parliament and of the Council Providing for Minimum Criteria for Environmental Inspection in Montenegro (REC, 2006).

4. Engaged expert:

Program for Capacity Building for Implementing the Law on Environmental Impact Assessment, Strategic Environmental Assessment and Integrated Prevention and Pollution Control in Montenegro - Guide for Implementation of the Law on Integrated Pollution Prevention and Control (REC, 2009)

5. A representative of the Faculty of Metallurgy and Technology in the project NEWEN aimed to develop a network and transboundary cooperation in environmental management between the six participating Universities in the Western Balkans (WB) and the participating Universities and institutes in the Netherlands. Project NEWEN ran from October 2008 to May 2011 and was financially supported by the Dutch Ministry of Foreign Affairs.

- *The first regional Workshop on Urban Solid Waste Management (11-12 June, 2009, Durres, Albania).*
- *Tailor made course for University staff: Course on Hazardous Waste Management (21-25 September 2009, Delft, Netherlands).*
- *The third regional workshop on Lake Pollution Management (8-9 March 2010).*

6. Junior short term expert:

Regional Environmental Network for Accession (RENA), Europe Aid/128906/C/SER/Multi (2013)

7. *Engaged expert:*

Environment and Climate Regional Accession Network – ECRAN (2014)

8. *Engaged expert:*

Waste management in Montenegro: Preliminary Activities for Preparation of Waste Management Plan (2015).

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

Инстџиџуџи 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

Инстџиџуџи 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.

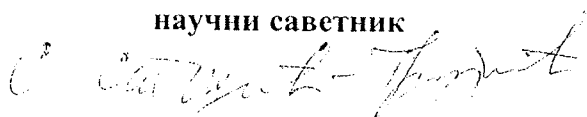
Доношењем ове одлуке именована стиче сва права која јој на основу ње по закону припадају.

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

ПРЕДСЕДНИК КОМИСИЈЕ

др Станислава Стошић-Грујичић,

научни саветник



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

Istraživačko interesovanje: **Mehanohemijaska sinteze materijala
Modifikacija materijala jonkim snopom
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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 MgH₂

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 Programe 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 14th 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 11th Conference of Young Researchers in Field of Material Science and the 1st European Early Stage Researchers Conference of Hydrogen Storage, 03-05. 12. 2012, Belgrade, Serbia
- Member of program committee of the 10th Conference of Young Researchers in Field of Material Science, 21-23. 12. 2011, Belgrade, Serbia
- Member of organizing committee of the 7th International Conference on Mechanochemistry and Mechanical Alloying, 31.8-04.09. 2011, Herceg Novi, Montenegro

- Member of Program committee of 11th Multinational Conference on Microscopy 04.-09.09.2011, Urbino, Italy
- Member of program committee of the 1st Conference of the Serbian Ceramic Society, 17-18. 03.2011, Belgrade, Serbia
- Member of Program and Organizing board of 4th Serbian Congress on Microscopy, Belgrade 11-12. October 2010
- Member of program committee of the 9th Conference of Young Researchers in Field of Material Science, 20-22. 12. 2010, Belgrade, Serbia
- Member of program committee of the 8th Conference of Young Researchers in Field of Material Science, 21-23. 12. 2009, Belgrade, Serbia
- Member of Program committee of Joint meeting of 9th Multinational Conference on Microscopy 2009 and Dreiländertagung 2009 and chairman on the session M7, Graz, Austria
- Member of Program committee of National Conference: 7th 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 VO₂(B) as a catalyst in the dehydration reaction of MgH₂ 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 MgH₂ 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 MgH₂ 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** 22nd 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/MgH₂ modified thin films**, The 21st 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. Grbovic Novakovic**. **Hydrogen energy, fuel cells and hydrogen storage**, Conference Sustainable Trasnsport at RENEXPO 2018. 24-26.4.2018,Belgrade, Serbia.
- 4. **J.Grbovic Novakovic**, Hydrogen economy – fuel cell and hydrogen storage Tesla Forum, 04.-07.7 2018. Andreljeva, Fruska Gora, Serbia
- 5. **J Grbovic Novakovic**, **Hydrogen economy in Serbia –research and development**, Workshop: Hydrogen for sustainable energy, 21.12 2016, Zelena akcija,, Zagreb. Croatia
- 6. **J.Grbovic Novakovic**, **Changes in storage properties of hydrides induced by ion irradiation**, 4th international conference on radiation interaction with materials and its use in technologies 2012, Kaunas. Lithuania, 14.05-17.05.2012
- 7. **J.Grbovic Novakovic** ,**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 17th-October 24th, 2006, Vrnjačka Banja, Serbia, Proceedings, pg. 59-72

10 NAJZNAČAJNIJIH REFERENCI

1. S. Milošević, S. Kurko, L. Pasquini, Lj. Matović., R. Vujasin, N. Novaković, **J. Grbović Novaković**, Fast hydrogen sorption from $\text{MgH}_2\text{-VO}_2(\text{B})$ 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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Journal papers

1. Slobodan M. Cvetković, Tatjana Kaluđerović Radoičić, Mirjana Kijevčanin, Jasmina Grbović Novaković, **Life Cycle Energy Assessment of biohydrogen production via biogas steam reforming: Case study of biogas plant on a farm in Serbia** International Journal of Hydrogen Energy, 46(27) (2021) 14130
2. P. Janjatović, O.Erić-Cekić, LŠidanin, 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_2 - WO_3 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_2 : 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 $Li_2Mg(NH_2BH_3)_4$ and $Na_2Mg(NH_2BH_3)_4$ 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_2 -Mg interface: The role of Ti and TiO_2** , 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. Grbović Novaković, In situ Desorption of Magnesium Hydride Irradiated and Non-irradiated Thin Films: Relation to Optical Properties** J. Alloys Compd 695 (2016) 2381-2388
10. E. Callini, K.-F. Aguey-Zinsou, R. Ahuja, J. R. Ares, S. Bals, N. Biliskov, S. Chakraborty, G. Charalambopoulou, A.-L. Chaudhary, F. Cuevas, B. Dam, P. de Jongh, M. Dornheim, Y. Filinchuk, **J. Grbović Novaković**, M. Hirscher, T. R. Jensen, P. Bjerre Jensen, N. Novaković, Q. Lai, F. Leardini, D. Mirabile Gattia, L. Pasquini, Th. Steriotis, S. Turner, T. Vegge, A. Zuttel, A. Montone, **Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103** Review Article Int. J. Hydrogen Energy 41(32) (2016) 14404–14428.
11. S. Milošević, S. Kurko, L. Pasquini, Lj. Matović, R. Vujasin, N. Novaković, **J. Grbović Novaković, Fast hydrogen sorption from $\text{MgH}_2\text{-VO}_2(\text{B})$ 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_2** , International Journal of Hydrogen Energy, 41(8)(2016) 4703-4711
13. S. Balos, D. Rajnovic, M. Dramicanin, D. Labus, O. Eric-Cekic, **J. Grbović Novaković, 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. Grbović Novaković Tensile properties of ADI material in water and gaseous environments** Materials Characterization 101(2015)26-33
16. B. Paskas Mamula, **J. Grbović Novaković**, I. Radisavljevic, N. Ivanovic, N. Novakovic **Electronic Structure and Charge Distribution Topology of MgH_2 doped with 3d Transition Metals** International Journal of Hydrogen Energy, DOI: 39(11) (2014) 5874-5887
17. S. Kurko, I. Milanovic, **J. Grbović Novaković**, N. Ivanovic, N. Novakovic **Investigation of surface and near-surface effects on hydrogen desorption kinetics of MgH_2** , 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
19. S. Milošević, I. Milanović, B. Paskaš Mamula, A. Đukić, D. Rajnović, L. Pasquini, **J. Grbović Novaković, Hydrogen Desorption Properties of MgH_2 Catalysed With NaNH_2** , International Journal of Hydrogen Energy, 38 (27) (2013) 12223-12229
20. S. Kurko, I. Milanovic, S. Milosevic, Z. Raskovic-Lovre, J. F. Fernandez, J. R. Ares Fernandez, Lj. Matovic, **J. Grbović Novaković, Changes in kinetic parameters of decomposition of MgH_2 destabilized by irradiation with C^{2+} ions**, International Journal of Hydrogen Energy 38(27) (2013) 12199-12206
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

22. S. Kurko, A. Aurora, D. Mirabile Gattia, V. Contini, A. Montone, Ž. Rašković-Lovre, **J. Grbović Novaković, Hydrogen sorption properties of MgH₂/NaBH₄ composites**, International Journal of Hydrogen Energy 38 (27) (2013) 12140-12145
23. Milanović, S. Milošević, Lj. Matović, R. Vujasin, N. Novaković, R. Checchetto, **J. Grbović Novaković, Hydrogen Desorption Properties of MgH₂/LiAlH₄ Composites** International Journal of Hydrogen Energy 38(27) (2013) 12152-12158
24. Milanović, S. Milošević, Ž. Rašković-Lovre, N. Novaković, R. Vujasin, Lj. Matović, J.F Fernández, C. Sánchez, **Jasmina Grbović Novaković Microstructure and hydrogen storage properties of MgH₂-TiB₂-SiC composites** Ceramics International 39(4) (2013) 4399-4405
25. S. Milošević, Ž. Rašković-Lovre, S. Kurko, R. Vujasin, N. Cvjetičanin, Lj. Matović, **J. Grbović Novaković, Influence of VO₂ 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 MgH₂; Connection to Hydrogen Production** Materials Science (Medžiagotyra) 19 (3) (2013) 349-353
27. A. Djukić, 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 9 (6) (2013) 7173-7178
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
29. Lj. Matović, S. Kurko, Ž. Rašković-Lovre, R. Vujasin, I. Milanović, S. Milošević, **J. Grbović Novaković, Assessment of changes in desorption mechanism of MgH₂ after ion bombardment induced destabilization** International Journal of Hydrogen Energy 37(8) (2012) 6727-6732
30. S. Milošević, I. Stojković, **J. Grbović Novaković**, N. Cvjetičanin **The simple one-step solvothermal synthesis of nanostructured VO₂(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
33. Vladimir A. Blagojević, Dejan G. Minić, Jasmina Grbović Novaković, Dragica M. Minić, **Hydrogen As Energy Storage Material: Challenges and Perspective** in "Hydrogen Energy", InTech 2012, Editor Prof. Dragica M. Minić, ISBN 980-953-307-277-2. <http://dx.doi.org/10.5772/46098>.
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36. S. Kurko, B. Paskaš-Mamula, Lj. Matovic, **J. Grbovic Novakovic**, N. Novakovic **The Influence of Boron Doping Concentration on MgH_2 Electronic Structure** Acta Physica Polonica 120(2) (2011) 238-241
37. N. Novaković, Lj. Matović, **J. Grbovic Novaković**, I. Radisavljevic, M. Manasijevic N. Ivanović, **Ab Initio Calculations of MgH_2 , $\text{MgH}_2\text{:Ti}$ and $\text{MgH}_2\text{:Co}$ Compounds** International Journal of Hydrogen Energy 35 (2010) 598-60
38. S. Kurko, Lj. Matović, N. Novaković, S. Nenadović, Z. Jovanović, N. Ivanović, **J. Grbović Novaković Ispitivanje promena desorpcionih osobina MgH_2 nastalih bombardovanjem jonskim snopovima** Hemijska industrija, 64(3) 227-232 (2010) IF 0.117
39. S. Milovanović, Lj. Matović, M. Milanović, S. Janićević, **J. Grbović Novaković**, M. Lješević **Impact of some meteorological parameters on SO_2 concentrations in the city of Obrenovac, Serbia** J. Ser. Chem. Soc **75 (5)** (2010) 703-715.
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41. N. Novaković, Lj. Matović, **J. Grbović Novaković**, M. Manasijević, N. Ivanović **Ab Initio Study of MgH_2 Formation** Materials Science & Engineering B, 165(3) (2009) 235-238
42. N. Ivanovic, N. Marjanovic, **J. Grbovic Novakovic**, M. Manasijevic, Z. Rakocevic, V. Andric, B. Hadžić **Experimental and theoretical investigations of cured and uncured disiloxane bisbenzocyclobutene thin films** Materials and Manufacturing Processes, 24(9) (2009) 1-5
43. S. Nenadovic, M. Nenadovic, R. Kovacevic, Lj. Matovic, B. Matovic, Z. Jovanovic and **J. Grbovic Novakovic** **Influence of diatomite microstructure on its adsorption capacity for Pb(II)** Sci of Sintering 41(3) (2009) 309-317
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_2 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_2 - 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 $\text{MgH}_2\text{-Mg}_2\text{NiH}_4$ composites: tailoring a multichannel system with selected hydrogen sorption properties** International Journal of Hydrogen Energy **32** (2007) 2026-2934
47. T. Brdarić, **J. Grbović Novaković**, Lj. Matović, N. Novaković, S. Mentus **Experimental and theoretical investigation of hydrogen storage in magnesium based composites** Mat. Sci Forum, **55** (2007) 343-348

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Број: 08-1017
Датум, 28.06.2012 г.

Ref: CRNA GORA
Date: UNIVERZITET CRNE GORE
METALURŠKO-TEHNOLOŠKI FAKULTET

Број: 891
Podgorica, 06.07.2012 god.

Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG, br. 60/03 i Sl.list CG, br. 45/10 i 47/11) i člana 18 stav 1 tačka 3 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 28.06.2012. godine, donio je

ODLUKU O IZBORU U ZVANJE

Dr NADA JAUKOVIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmete: **Fizika čvrstoće i plastičnosti i Kristalografija na Metalurško-tehnološkom fakultetu,**



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BIOGRAFIJA

Rođena sam 30.03.1955. godine u Ivangradu. Osnovnu školu i Gimnaziju završila sam u Titogradu. Za postignuti uspjeh u toku školovanja i na završnom ispitu dobila sam diplomu „Luča”. Petogodišnje studije na Metalurškom odsjeku Tehničkog fakulteta u Titogradu sam upisala 1973. godine. Studije sam završila u redovnom roku, 1978. godine, sa srednjom ocjenom 9.46, a diplomirala sa ocjenom 10. Kao najbolji student Univerziteta „Veljko Vlahović” dobitnik sam Povelje za 1975. godinu. Za izuzetni uspjeh na studijama, kao najbolji student Tehničkih fakulteta, dobila sam nagradu oslobođenja Titograda „19. decembar” za 1976. godinu. Poslijediplomske studije sam upisala 1981. godine na Tehnološko-metalurškom fakultetu Univerziteta u Beogradu. U predviđenom roku sam položila sve ispite sa prosječnom ocjenom 9.5. Magistrirala sam januara 1993. godine sa temom „Fazni sastav i osobine vatrootpornih legura aluminijuma”. Marta 1999. godine odbranila sam doktorsku disertaciju „Uticaj cirkonijuma i lantanida na strukturu i osobine kovačkih legura aluminijuma za rad na povišenim temperaturama”.

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Obavljam funkciju rukovodioca studijskog programa „Metalurgija i materijali” na Metalurško-tehnološkom fakultetu.

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