



Podgorica, 8.3.2024. godine
Broj: 01/7-918/5

UNIVERZITET CRNE GORE
Centar za doktorske studije
Senat

Uvaženi,

U prilogu vam dostavljamo predlog Stručnog Vijeća Centra za interdisciplinarnu i multidisciplinarnu studiju o imenovanju komisije za ocjenu doktorske disertacije mr Nede Bošković, broj dosijea 14/21, sa prapatnom dokumentacijom.

S poštovanjem,



DIREKTOR,

Nedeljko Latinović
Prof. dr. Nedeljko Latinović

Prilog:

- Predlog Stručnog Vijeća CIMS-a
- Zahtjev za pregled i ocjenu doktorske disertacije
- Odluka Senata o prihvatanju prijave doktorske disertacije
- Potvrda o predaji doktorske disertacije
- Saglasnost mentora
- Predlog mentora o imenovanju Komisije za ocjenu doktorske disertacije
- Izjava o autorstvu
- Izjava o istovjetnosti štampane i elektronske verzije
- Izjava o korišćenju
- D2 obrazac
- Kopija rada publikovanog u časopisu sa odgovarajuće liste
- Biografija i bibliografija kandidata
- Odluka za izbor u zvanje, biografija i reference članova Komisije

Na osnovu člana 64 stav 2 tačka 9 Statuta Univerziteta Crne Gore (Bilten UCG br. 337/15 – posebno izdanje i br. 447/18) i člana 41 stav 1, 3, 4 i 9, a u vezi sa članom 38, stav 1 i 2 Pravila doktorskih studija (Bilten UCG br. 513/20 i 561/22), Stručno Vijeće Centra za interdisciplinarne i multidisciplinarne studije Univerziteta Crne Gore, studijski program Održivi razvoj, na 11. sjednici, održanoj preko zoom platforme dana 8.3.2024. godine, utvrdilo je sljedeći

PREDLOG

I Predlaže se Odboru za doktorske studije da predloži Senatu Univerziteta Crne Gore da imenuje Komisiju za ocjenu doktorske disertacije pod nazivom: “Kontaminacija mikroplastikom slatkovodnih ekosistema Crne Gore: Prva zapažanja o pojavi, prostornim obrascima, identifikaciji, brojnosti, distribuciji i ekološkoj procjeni” studenta mr Nede Bošković, br. dosijea 14/21, u sastavu:

1. Prof. dr Miljan Bigović, vanredni profesor Prirodno-matematičkog fakulteta Univerziteta Crne Gore, (naučna oblast: Organska hemija i biohemija), predsjednik Komisije
2. Prof. dr Željko Jaćimović, redovni profesor Metalurško-tehnološkog fakulteta Univerziteta Crne Gore (naučna oblast: Hemija), prvi mentor
3. Prof. dr Oliver Bajt, vanredni profesor Univerziteta u Ljubljani, Slovenija (naučna oblast: Hemija životne sredine), drugi mentor
4. Prof. dr Nedeljko Latinović, redovni profesor Biotehničkog fakulteta Univerziteta Crne Gore (naučna oblast: Zaštita bilja), član komisije
5. Dr Milica Kosović Perutović, docent Metalurško-tehnološkog fakulteta Univerziteta Crne Gore (naučna oblast: Opšta i neorganska hemija i Zagađivači u životnoj sredini), član komisije

II Centar za doktorske studije Univerziteta Crne Gore, prije dostavljanja doktorske disertacije komisiji iz stava I dispozitiva ovog Predloga, izvršiće provjeru originalnosti teksta doktorske disertacije softverom propisanim od strane Univerziteta.

III Komisija iz stava I dispozitiva ove odluke dužna je da Stručnom Vijeću CIMS-a podnese izvještaj koji sadrži ocjenu doktorske disertacije i poseban izvještaj o procjeni originalnosti doktorske disertacije, u roku od 45 dana od imenovanja komisije.

Obrazloženje

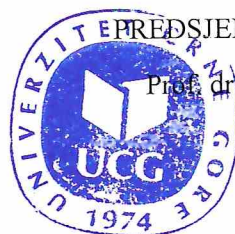
Student mr Neda Bošković predala je dana 2.2.2024. godine, preko Arhive Rektorata Univerziteta Crne Gore, na ocjenu doktorsku disertaciju pod nazivom: “Kontaminacija mikroplastikom slatkovodnih ekosistema Crne Gore: Prva zapažanja o pojavi, prostornim obrascima, identifikaciji, brojnosti, distribuciji i ekološkoj procjeni”, u papirnoj i u elektronskoj formi.

Prvi i drugi mentor su takođe dostavili saglasnost da predmetna doktorska disertacija zadovoljava kriterijume propisane Statutom Univerziteta Crne Gore i Pravilima doktorskih studija Univerziteta Crne Gore.

Prilikom predaje doktorske disertacije student je dostavio i dokaz o prihvaćenom radu sa rezultatima iz disertacije u časopisu sa SCI/SCIE liste.

Na osnovu svega navedenog, Stručno Vijeće Centra za interdisciplinarne i multidisciplinarne studije Univerziteta Crne Gore usvojilo je predlog kao u dispozitivu.

Crna Gora
UNIVERZITET CRNE GORE
Broj 017-918/4
Podgorica, 08. 03 2024 god.



Prof. dr Nedeljko Latinović, direktor

CENTRU ZA INTERDISCIPLINARNE I MULTIDISCIPLINARNE STUDIJE

UNIVERZITETA CRNE GORE

Studijski program: „ODRŽIVI RAZVOJ“

CENTRU ZA DOKTORSKE STUDIJE UNIVERZITETA CRNE GORE

SENATU UNIVERZITETA CRNE GORE

Predmet: Zahtjev za pregled i ocjenu doktorske disertacije

UNIVERZITETA CRNE GORE			
02. 02. 2024			
Broj	Prilog	Vrijednost	
01/7	9B		

Poštovani,

U skladu sa Pravilima studiranja na doktorskim studijama Univerziteta Crne Gore podnosim Zahtjev za ocjenu doktorske disertacije pod nazivom: „*Contamination of freshwater ecosystems of Montenegro with microplastics: First observations on occurrence, abundance, spatial patterns, identification and ecological assessment*“, naziv na maternjem: „*Kontaminacija mikroplastikom slatkovodnih ekosistema Crne Gore: Prva zapažanja o pojavi, prostornim obrascima, identifikaciji, brojnosti, distribuciji i ekološkoj procjeni*“.

Uz Zahtjev prilažem:

1. Pismenu saglasnost mentora i komentora da rad zadovoljava sve kriterijume doktorske disertacije;
2. Prijedlog komisije za pregled i ocjenu doktorske disertacije;
3. Dva štampana primjerka doktorske disertacije sa potpisanim izjavama o autorstvu, istovjetnosti štampane i elektronske verzije i o korišćenju;
4. Kopiju naučnog rada publikovanog u časopisu sa odgovarajuće liste;
5. Elektronsku verziju doktorske disertacije i publikovanog naučnog rada na CD-u;
6. Biografiju i bibliografiju kandidata;
7. Biografiju i bibliografiju članova komisije za pregled i ocjenu doktorske disertacije sa potvrdom o izboru u odgovarajuće akademsko zvanje i potvrdom da jedan član komisije nije u radnom odnosu na Univerzitetu Crne Gore

S poštovanjem,

dr Neda Bošković

Neda Bošković

Datum: 02.02. 2024. godine

Na osnovu člana 32 stav 1 tačka 14 Statuta Univerziteta Crne Gore, u vezi sa čl. 35 i 36 Pravila doktorskih studija, Senat Univerziteta Crne Gore, u postupku razmatranja prijedloga Odbora za doktorske studije, Senat Univerziteta Crne Gore, na sjednici održanoj 22.12.2022. godine, donio je sljedeću

ODLUKU

I

Usvaja se izvještaj Komisije za ocjenu prijave doktorske teze „Kontaminacija mikroplastikom slatkovodnih ekosistema Crne Gore: prva zapažanja o pojavi, prostornim obrascima, identifikaciji, brojnosti, distribuciji i ekološkoj procijeni“ kandidatkinje mr Nede Bošković.

II

Prihvata se prijava doktorske disertacije pod nazivom „Kontaminacija mikroplastikom slatkovodnih ekosistema Crne Gore: prva zapažanja o pojavi, prostornim obrascima, identifikaciji, brojnosti, distribuciji i ekološkoj procijeni“ kandidatkinje mr Nede Bošković.

III

Odluka stupa na snagu danom donošenja.

Broj: 03-1542/11

Podgorica, 22.12.2022. godine



PREDSJEDNIK SENATA

Prof. dr Vladimir Božović, rektor



Podgorica, 06.03 20224. godine

Broj: 01/7 - 918/2

POTVRDA

Kojom se potvrđuje da je student Neda Bošković, broj dosijea 14/21 predala doktorsku disertaciju za ocjenu u papirnoj (dva primjerka) i elektronskoj formi (na CD-u) dana 2.2.2024. godine.

Naziv predate doktorske disertacije je: "Kontaminacija mikroplastikom slatkovodnih ekosistema Crne Gore: Prva zapažanja o pojavi, prostornim obrascima, identifikaciji, brojnosti, distribuciji i ekološkoj procjeni".



DIREKTOR,

Nedeljko Latinović
Prof. dr. Nedeljko Latinović

CENTRU ZA INTERDISCIPLINARNE I MULTIDISCIPLINARNE STUDIJE

UNIVERZITETA CRNE GORE

Studijski program: „ODRŽIVI RAZVOJ“

CENTRU ZA DOKTORSKE STUDIJE UNIVERZITETA CRNE GORE

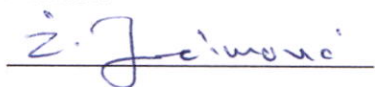
SENATU UNIVERZITETA CRNE GORE

Na osnovu člana 37. Pravila doktorskih studija Univerziteta Crne Gore, dajemo sledeću

SAGLASNOST

Ovim putem dajemo saglasnost da doktorska disertacija pod nazivom: „*Contamination of freshwater ecosystems of Montenegro with microplastics: First observations on occurrence, abundance, spatial patterns, identification and ecological assessment*“, naziv na maternjem: „*Kontaminacija mikroplastikom slatkovodnih ekosistema Crne Gore: Prva zapažanja o pojavi, prostornim obrascima, identifikaciji, brojnosti, distribuciji i ekološkoj procjeni*“ autorke dr Nede Bošković zadovoljava kriterijume doktorske disertacije propisane Statutom Univerziteta Crne Gore i Pravilima doktorskih studija Univerziteta Crne Gore.

Mentor:



prof. dr Željko Jaćimović

Komentor:

Oliver Bajt Digitally signed by Oliver Bajt
Date: 2024.01.08 08:39:14
+01'00'

prof. dr Oliver Bajt

Datum: 02.02. 2024.godine

CENTRU ZA INTERDISCIPLINARNE I MULTIDISCIPLINARNE STUDIJE
UNIVERZITETA CRNE GORE
Studijski program: „ODRŽIVI RAZVOJ“
CENTRU ZA DOKTORSKE STUDIJE UNIVERZITETA CRNE GORE
SENATU UNIVERZITETA CRNE GORE

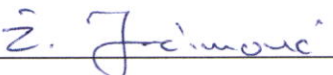
Predmet: PRIJEDLOG komisije za pregled i ocjenu doktorske disertacije kandidatkinje dr Nede Bošković

Poštovani,

Molimo Vas da imenujete komisiju za pregled i ocjenu doktorske disertacije pod nazivom: „*Contamination of freshwater ecosystems of Montenegro with microplastics: First observations on occurrence, abundance, spatial patterns, identification and ecological assessment*“, naziv na maternjem: „*Kontaminacija mikroplastikom slatkovodnih ekosistema Crne Gore: Prva zapažanja o pojavi, prostornim obrascima, identifikaciji, brojnosti, distribuciji i ekološkoj procjeni*“ kandidatkinje dr Nede Bošković u sastavu:

1. Dr Miljan Bigović, vanredni profesor Prirodno-matematičkog fakulteta Univerziteta Crne Gore (naučna oblast: organska hemija i biohemija), predsjednik komisije
2. Dr Milica Kosović-Perutović, docent Metalurško-tehnološkog fakulteta Univerziteta Crne Gore (naučna oblast: opšta i neorganska hemija i zagađivači u životnoj sredini), član komisije
3. Dr Nedjeljko Latinović, redovni profesor Biotehničkog fakulteta Univerziteta Crne Gore (stručna oblast: fitofarmacija), član komisije
4. Dr Željko Jaćimović, redovni profesor Metalurško-tehnološkog fakulteta Univerziteta Crne Gore (naučna oblast: hemija), član komisije (mentor)
5. Dr Oliver Bajt, vanredni profesor Univerziteta u Ljubljani, Slovenija (naučna oblast: hemija životne sredine), član komisije (komentor)

Mentor:



prof. dr Željko Jaćimović

Komentor:

Oliver Bajt Digitally signed by Oliver Bajt
Date: 2024.01.08 08:37:53
+01'00'

prof. dr Oliver Bajt

Datum: 02.02. 2024.godine

Statement of Authorship

Name and surname Neda Bošković

Number of index 14/2021

I declare

that the doctoral dissertation is entitled

“Contamination of freshwater ecosystems of Montenegro with microplastics: First observations on occurrence, abundance, spatial patterns, identification and ecological assessment”

- the result of own research work,
- that the proposed dissertation, neither in whole nor in parts, was proposed for obtaining any degree according to the study programs of other institutions of higher education,
- that the results are correctly stated, and
- that I have not violated copyright and other intellectual property rights belonging to third parties.

In Podgorica, 20.12.2023.

Doctoral student's signature

Neda Bošković

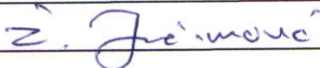
Statement on the Identity of the Printed and Electronic Version of the Doctoral Dissertation

Name and surname of author Neda Bošković

Number of index 14/2021

Study program Sustainable development

Work title "Contamination of freshwater ecosystems of Montenegro with microplastics: First observations on occurrence, abundance, spatial patterns, identification and ecological assessment"

Mentor PhD Željko Jaćimović, full professor 

Signature _____

Comentor PhD Oliver Bajt, associate professor

Signature Oliver Bajt Digitally signed by Oliver Bajt
Date: 2023.12.07 11:22:54 +01'00'

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Meda Basković

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ISPUNJENOST USLOVA DOKTORANDA

OPŠTI PODACI O DOKTORANDU			
Titula, ime, ime roditelja, prezime	Dr Neda (Čedomir) Bošković		
Fakultet/Centar	Centar za interdisciplinarne i multidisciplinarne studije Univerziteta Crne Gore		
Studijski program	Održivi razvoj		
Broj indeksa	14/21		
NAZIV DOKTORSKE DISERTACIJE			
Na službenom jeziku	„Kontaminacija mikroplastikom slatkovodnih ekosistema Crne Gore: Prva zapažanja o pojavi, prostornim obrascima, identifikaciji, brojnosti, distribuciji i ekološkoj procjeni“		
Na engleskom jeziku	„Contamination of freshwater ecosystems of Montenegro with microplastics: First observations on occurrence, abundance, spatial patterns, identification and ecological assessment“		
Naučna oblast	Zaštita životne sredine, održivi razvoj		
MENTOR/MENTORI			
Prvi mentor	Prof. dr Željko Jaćimović	Metalurško- tehnološki fakultet Univerziteta Crne Gore	Hemija
Drugi mentor	Prof. dr Oliver Bajt	Nacionalni institut za bioogiju, Univerzitet u Ljubljani, Slovenija	Hemija životne sredine
KOMISIJA ZA PREGLED I OCJENU DOKTORSKE DISERTACIJE			
Dr Miljan Bigović, vandredni profesor, predsjednik komisije	Prirodno-matematički fakultet Univerziteta Crne Gore	Organska hemija i biohemija	
Dr Milica Kosović-Perutović, docent, član komisije	Metalurško-tehnološki fakultet Univerziteta Crne Gore	Opšta i neorganska hemija i zagađivači u životnoj sredini	
Dr Nedeljko Latinović, redovni profesor, član komisije	Biotehnički fakultet Univerziteta Crne Gore	Fitofarmacija	
Dr Željko Jaćimović, redovni profesor, član komisije (mentor)	Metalurško-tehnološki fakultet Univerziteta Crne Gore	Hemija	
Dr Oliver Bajt, vandredni profesor, član komisije (komentor)	Univerzitet u Ljubljani Slovenija	Hemija životne sredine	
Datum značajni za ocjenu doktorske disertacije			
Sjednica Senata na kojoj je data saglasnost na ocjenu teme i kandidata	22.12.2022.		
Dostavljanja doktorske disertacije organizacionoj jedinici i saglasnost mentora	02.02.2024.		
Sjednica Vijeća organizacione jedinice na kojoj je dat prijedlog za imenovanje komisija za pregled i ocjenu doktorske disertacije	08.03.2024.		

ISPUNJENOST USLOVA DOKTORANDA

U skladu sa članom 38 pravila doktorskih studija doktorandkinja dr Neda Bošković je dio sopstvenih istraživanja vezanih za doktorsku disertaciju publikovala u časopisu sa SCI liste kao prvi autor:

Bošković, N., Jaćimović, Ž., Bajt, O. (2023) Microplastic pollution in rivers which belong to the Adriatic Sea basin in Montenegro: Impact on pollution of the Montenegrin coastline. *Science of the Total Environment*, 905: 167206. <https://doi.org/10.1016/j.scitotenv.2023.167206>

Science of the Total Environment
 SCI list
 Quartile: Q1
 Impact Factor: 9.8
 Publisher: Elsevier

Spisak radova doktoranda iz oblasti doktorskih studija koje je publikovao

1. **Bošković, N.**, Jaćimović, Ž., Bajt, O. (2023) Microplastic pollution in rivers which belong to the Adriatic Sea basin in Montenegro: Impact on pollution of the Montenegrin coastline. *Science of the Total Environment*, 905: 167206. <https://doi.org/10.1016/j.scitotenv.2023.167206>
2. **Bošković, N.**, Jaćimović, Ž., Bajt, O. (2023) Abundance, Distribution Patterns, and Identification of Microplastics in Bojana River Sediments in Montenegro. 23rd European Meeting on Environmental Chemistry, EMEC 23, Budva, Crna Gora, Knjiga apstrakata: 56.
3. **Bošković, N.**, Jaćimović, Ž., Bajt, O. (2023) Ekološka procjena stanja rijeke Zete na osnovu zastupljenosti mikroplastike u sedimentu. Crnogorsko društvo za koroziju, zaštitu materijala i zaštitu životne sredine „Peti međunarodni simpozijum o koroziji i zaštiti materijala, životnoj sredini i zaštiti od požara“, 26.-29. septembar 2023. godine, Bar. Zbornik radova: 106-114.
4. **Bošković, N.** (2023) Procjena ekološkog stanja crnogorskog primorja na osnovu zastupljenosti mikroplastike u biotičkoj i abiotičkoj sredini. Agencija za zaštitu životne sredine Crne Gore “Zaštita prirode i životne sredine, stanje, značaj i perspektive”, 20-22. septembar 2023. godine, Nacionalni park “Prokletije”, Plav-Gusinje, Knjiga apstrakata: 222-223.
5. **Bošković, N.**, Jaćimović, Ž., Bajt, O. (2023) Toksičnost polimera mikroplastike identifikovanih u rijeci Morači. Univerzitet Crne Gore „Ekološka održivost i klimatske promjene“, 14. i 15. septembar 2023. godine, Žabljak.
6. **Bošković, N.**, Jaćimović, Ž. (2023) Prva procjena prisustva plastike u obalnom sedimentu rijeke Zete. 52. konferencija o aktuelnim temama korišćenja i zaštite voda VODA 2023 u organizaciji Srpskog društva za zaštitu voda, Palić, Srbija, Zbornik radova: 267-274.
7. **Bošković, N.** (2022) Microplastics presence in aquatic environments in

Montenegro: A review on methods, occurrence and sources. The 1st Doctoral Colloquium on Sustainable Development”, DOC-ME’2022 in Kotor, Montenegro

Obrazloženje mentora i komentora o korišćenju doktorske disertacije u publikovanim radovima

Dr Neda Bošković je do sada, kao prvi autor, veći dio rezultata sopstvenih istraživanja vezanih za doktorsku disertaciju objavila u časopisu indeksiranom na SCI list i pet radova predstavljenih na međunarodnim naučno-stručnim skupovima.

Rad objavljen je u časopisu Science of the Total Environment, pod naslovom “*Microplastic pollution in rivers which belong to the Adriatic Sea basin in Montenegro: Impact on pollution of the Montenegrin coastline*”, koautora: prof. dr Željko Jaćimović i prof. dr Oliver Bajt.

U uvodnom dijelu rada data su početna razmatranja, osvrt na dosadašnja ispitivanja u regionu i svijetu iz predmetne oblasti. Takođe u uvodnom dijelu predstavljeni su ciljevi, predmet i značaj sprovedenog istraživanja, s obzirom da je navedeno istraživanje po prvi put rađeno u Crnoj Gori. U djelu materijali i metode je detaljno opisan i predstavljen eksperimentalni rad (uzorkovanje sedimenta, priprema, analiza, statistička obrada dobijenih rezultata). U radu primijenjene su savremene i aktuelne metode. Rezultati su jasno, precizno i detaljno predstavljeni u zasebnom poglavlju, dok su u poglavlju diskusija koncizno izloženi i obrazloženi rezultati, kao i izvršena korelacija rezultata sa dostupnim literaturnim podacima u polju istraživanja u regionu i šire. Zaključci izvedeni u radu u potpunosti odgovaraju postavljenim ciljevima i hipotezi rada. Zaključci su izloženi jasno, koncizno i dokumentovano na osnovu rezultata istraživanja, kao i komparacije sa definisanim propisima, ranijim istraživanjima i literaturom. Zaključci ukazuju da su površinski sedimenti rijeka Zete, Morače i Bojane kontaminirani mikroplastikom, kao posledica antropogenih aktivnosti i da predstavljaju značajne izvore mikroplastike na crnogorskom primorju.

Rezultati doktorske disertacije, objavljeni u radu sa SCI liste pružaju jasan uvid o zagađenju sedimenata rijeka mikroplastikom i od presudnog su značaja za preduzimanje preventivnih mjera za smanjenje nivoa mikroplastike u slatkovodnim ekosistemima.

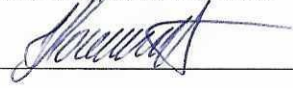
Mentori su saglasni da je kandidat ispunio sve uslove za prelazak na sljedeći proceduralni korak, odnosno da se imenuje Komisija za pregled i ocjenu doktorske disertacije, što je dokumentovano potpisanom saglasnošću mentora i komentora, u okviru koje navodi da je doktorandkinja dr Neda Bošković zadovoljila kriterijume doktorske disertacije propisane Statutom Univerziteta Crne Gore i Pravilima doktorskih studija.

Datum i ovjera (pečat i potpis odgovorne osobe)

U Podgorici,
08.03.2024.



DEKAN/DIREKTOR



Prilog dokumenta sadrži:

1. Potvrdu o predaji doktorske disertacije organizacionoj jedinici
2. Odluku o imenovanju komisije za pregled i ocjenu doktorske disertacije
3. Kopiju rada publikovanog u časopisu sa odgovarajuće liste
4. Biografiju i bibliografiju kandidata
5. Biografiju i bibliografiju članova komisije za pregled i ocjenu doktorske disertacije sa potvrdom o izboru u odgovarajuće akademsko zvanje i potvrdom da barem jedan član komisije nije u radnom odnosu na Univerzitetu Crne Gore

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Important Metrics

Title	Science of the Total Environment
Abbreviation	Sci. Total Environ.
Publication Type	Journal
Subject Area, Categories, Scope	Environmental Chemistry (Q1); Environmental Engineering (Q1); Pollution (Q1); Waste Management and Disposal (Q1)
h-index	317
Overall Rank/Ranking	1390
SCImago Journal Rank (SJR)	1.946
Impact Score	10.94
Publisher	Elsevier
Country	Netherlands
ISSN	00489697, 18791026
Best Quartile	Q1
Coverage History	1970, 1972-2023
Official Website	Visit Website
Wikipedia Page	Visit Wikipedia

Global Change Biology

Wiley-Blackwell Publishing Ltd | United Kingdom

Journal of Advances in Modeling Earth Systems

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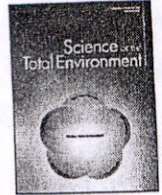
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Microplastic pollution in rivers of the Adriatic Sea basin in Montenegro: Impact on pollution of the Montenegrin coastline

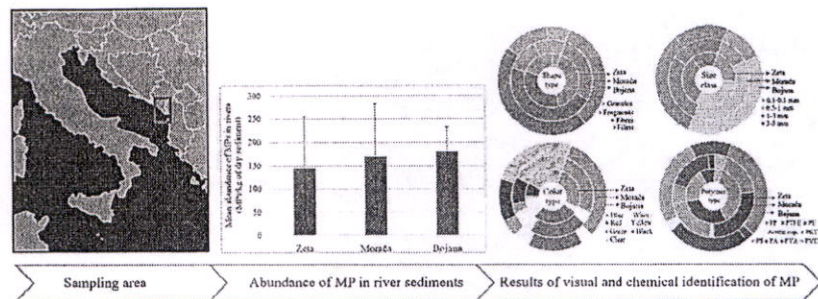
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HIGHLIGHTS

- Microplastic (MP) abundance in Montenegro rivers was estimated for the first time.
- MP abundances and properties in rivers from different areas largely varied.
- The most common polymers in investigated rivers were PE and PP.
- The levels of MP pollution found in rivers are currently at moderate levels.
- Zeta, Morača and Bojana are significant sources of MP on the Montenegrin coast.

GRAPHICAL ABSTRACT



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ABSTRACT

Concern regarding microplastic (MP) pollution in aquatic ecosystems has increased in recent years with growing awareness of the environmental harm that it causes. While most studies have focused on seas and oceans, knowledge of MP occurrence in freshwater sediments is limited. This study investigated MP concentrations at shore sediments of the Zeta, Morača, and Bojana rivers in Montenegro. The MP concentration in the studied samples varied depending on the river, location, and sampling season. MP abundance in river shore sediments varied between mean values of 145 ± 110 MPs/kg for the Zeta, 169 ± 113 MPs/kg for the Morača, and 180 ± 53.5 MPs/kg dry sediment for the Bojana. In comparison, the mean MP abundance in the three rivers combined was 163.6 ± 96.1 MPs/kg of dry sediment. The identified MPs were mainly fibres and fragments of blue, red and clear color, 0.5–1 mm in size, and mainly composed of polyethylene, polypropylene, polyamide and polyethylene terephthalate. The main contribution of this study is that it provides new insight into MP abundance in freshwater sediments of rivers, where the studied rivers were identified as a potential important sink and source of MP on the Montenegrin coast.

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1. Introduction

The world, especially its aquatic ecosystems, is becoming increasingly polluted, and microplastics (MPs)—plastic particles measuring <5 mm—are an important source of this pollution throughout the world (Turner et al., 2019). Most studies report the presence of MPs in marine ecosystems, while knowledge of the presence and impacts of MPs in freshwater ecosystems is limited (Moore et al., 2011; Horton et al., 2017; Fahrenfeld et al., 2019). The number of studies that aim to identify MPs in freshwater ecosystems, their sources, and potential impacts on freshwater ecosystems and human health has become a relatively new area of research (Eriksen et al., 2013).

MP pollution of freshwater ecosystems is complex, since freshwater ecosystems include ditches, streams, rivers, estuaries, temporary and permanent wetlands, ponds, dams, and lakes, each with different characteristics in terms of hydrology, chemistry, flora and fauna, watersheds, and land-use patterns (Simon-Sánchez et al., 2019).

Some of the first datasets to emerge regarding the presence of MPs in rivers were published for European rivers such as the Rhine (Klein et al., 2015), Danube (Hohenblum et al., 2015), Seine (Dris et al., 2015) and Thames (Horton et al., 2017). These studies have provided valuable insight into plastic/MP concentrations and their spatial and temporal variations. Studies indicate that MPs are present in different layers of the riverbed and water column (Guerranti et al., 2020). Liubartseva et al. (2016) showed that the rivers that contribute most to plastic pollution in the Mediterranean are, in decreasing order, the Po, the Bojana, the Neretva, the Rhone and the Adige rivers. Studies have shown that rivers play an important role in transporting MPs to lakes, seas, and oceans (Bellasi et al., 2020) and that they are the main transport vector for plastic waste from terrestrial sources (Iannilli et al., 2020). Watershed characteristics and river hydrogeomorphology influence MP distribution and transport. Heavy rainfall, wind, floods, water levels, and soil erosion can affect the distribution of MP particles in the watershed (Bläsing and Amelung, 2018; Werbowski et al., 2021). Anthropogenic activities such as inadequate waste and wastewater management, high population density near rivers, and industrial activities can cause direct (or indirect) input of MPs into river ecosystems (Schmidt et al., 2017). The most important factors affecting MP transport in river ecosystems are particle properties such as material type, density, and shape, as well as flow conditions such as flood events and flow velocity (Matjašić et al., 2022). MP particles with higher density sink into the riverbed (Nizzetto et al., 2016). In addition, MPs can accumulate in river sediments and sink when the water flow slows, increasing MP concentrations in river sediments (Adomat and Grischek, 2020). River sediment could therefore serve as a sink for MP deposition, retention, and accumulation, resulting in a hotspot of MPs in the upper sediment layer (Hurley et al., 2018).

This study aims to evaluate for the first time the abundance, transport routes, source and fate of MPs in the rivers of the Adriatic basin (Zeta, Morača and Bojana) in Montenegro, as well as to assess the presence of MPs in the shore sediments of those rivers. These are the first results describing the presence of MPs in Montenegrin rivers, which are important entry routes into the southern Adriatic. This study will be used by decision-makers when taking measures for improving and preserving the environment and complying with the principles of sustainable development.

2. Materials and methods

2.1. Study area

This study investigated the MPs in inshore sediments of the Zeta, Morača and Bojana rivers, which belong to the Adriatic Sea basin in Montenegro. The study area is presented in Fig. 1.

The Zeta is an autochthonous river in the central part of Montenegro, which sinks underground and then resurfaces. It originates from the Sušica and Rastovac rivers, flows through the cities of Nikšić,

Danilovgrad and Podgorica, and measures 89 km in length (Kračun-Kolarević et al., 2020). Part of its bed was altered for exploitation of its water, with the building of the Perućica hydroelectric power plant. The Zeta receives several tributaries, and a large number of permanent and occasional streams flow into it, with numerous springs arising along its bed. It flows into the Morača river and is its right and main tributary (Sekulić, 2020). Due to the uncontrolled use of resources, settlement of the population, development of agricultural production, industrial facilities, illegal and uncontrolled waste dumping and sewage discharge, the Zeta river is highly endangered.

The Morača is the longest and most autochthonous Montenegrin river of the Adriatic basin. It is also the largest tributary of Skadar lake. The Morača rises under the mountain Rzaca and flows through the cities of Kolašin, Podgorica and Cetinje; it is 113.4 km long (Kračun-Kolarević et al., 2020) in the upper reaches. It is a fast mountain river with a rushing character and flows through the 38 km long Platije canyon. It receives several tributaries, the largest of which are Zeta (right tributary) and Cijevna (left tributary). After the confluence with its largest tributary, the Zeta, it flows into the Zeta plain and into Skadar lake. The Morača flows through the most populated part of Montenegro and is therefore under great pressure from various anthropogenic activities such as industrial activities, the consequences of urbanisation, discharge of partially or untreated wastewater, wild landfills in the immediate vicinity of the river, and inadequate waste management (Doderović et al., 2020).

The Bojana is largely a border river between Montenegro and Albania. It originates from Skadar lake near the city of Skadar in Albania. The Bojana measures 41 km in length, of which about 23.5 km belong to Montenegro (Barović et al., 2021). In Albania, the Kiri and Drim rivers flow into the Bojana, significantly influencing its course. The Bojana is the largest river that drains into the Adriatic Sea from Montenegro (Petković and Sekulić, 2018); it forms a delta at its mouth at the Adriatic Sea, a triangular river island called the Ada Bojana. The Ada Bojana divides the Bojana river into two parts that flow into the Adriatic Sea as separate watercourses (Barović et al., 2021). The right course of the Bojana river belongs to Montenegro, while the left one forms the international border between Montenegro and Albania. Due to all its characteristics and specificities, the Bojana is a natural phenomenon, a unique European ecosystem and a nature reserve for plants and animals (Pantelić et al., 2020). The Bojana delta has been declared a protected area and is one of the most important wetlands in the Eastern Mediterranean (Petković and Sekulić, 2018). Pollution of Bojana is an international problem; it can be polluted from several directions, from Albania and Montenegro, as well as from Kosovo and Macedonia via the Drim river (Barović et al., 2021). The quality of the water in the Bojana also depends on the level of water pollution in Skadar lake. Numerous cottages and restaurants have been built along the course of the Bojana river, and their wastewater flows directly into the river.

2.2. Sampling

The river's shore sediments were sampled during two time periods: autumn (2022) and spring (2023). At the studied water bodies, 4 to 5 locations were selected for sampling based on the specific characteristics of the terrain, the different geographical locations and accessibility, and the different anthropogenic activities in their immediate vicinity. The selected river sampling locations can be divided into three groups: a) near the source of the rivers (Z1, Z3, M1); b) in the middle of the river (Z2, Z4, M2-M4, B1-B3); and c) at the mouth of the river into another river, lake or a sea (Z5, M5, B4) (Fig. 1). Sampling near the source of the Bojana was not undertaken as the Bojana river does not rise on the territory of Montenegro. Geographical locations and related information on sampling locations are presented in Table 1.

Sampling of rivers' shore sediments at depths up to 5 cm was performed linearly at each location at the water splash line using a stainless-steel spoon according to the methods proposed in the literature (Abidli



Fig. 1. Study area with sampling locations.

Table 1
Geographical coordinates and related information of the sampling locations.

Water body	Sampling locations	Coordinates
Zeta	Z1	Near the source of the Zeta
	Z2	Center of Nikšić
	Z3	Near the spring after sinking
	Z4	Center of Danilovgrad
	Z5	Zeta flows into Morača
Morača	M1	Near the source of the Morača
	M2	Center of Podgorica I
	M3	Center of Podgorica II
	M4	Near the wastewater collector
	M5	Morača flows into Skadar lake
Bojana	B1	Border MNE-Al
	B2	Before the river island
	B3	Ada Bojana – right watercourse
	B4	Bojana outflow into Adriatic Sea

et al., 2017; Yang et al., 2020). Depending on the sampling location, the distance between the water and the flotsam line ranged from 5 to 20 cm. At each sampling location, three sediment samples were collected approximately 5 m apart and then mixed to form a composite sample of 2 kg of wet sediment. The composite samples were stored in unused, clean, labelled glass containers and transferred to the laboratory for analysis as soon as possible.

2.3. Extraction and identification of MPs

The wet samples were carefully sieved through stainless steel metal sieves with a mesh size of 5 mm to remove larger plastic pieces and sediment particles. Sediment samples <5 mm were subjected to a drying process. The sediments were placed in covered aluminium containers and dried in an oven (DRYSCN43) at 36 °C for 48 h.

For density separation, a saturated sodium chloride solution - NaCl (density 1.202 g/cm³) was used in accordance with the recommendations of Thompson et al. (2004) as modified by Nuelle et al. (2014). A sample of 100 g dry sediment was then accurately weighed and placed in a glass vessel (1000 ml) containing 400 ml of saturated NaCl solution, stirred for 5 min with a clean glass rod, and left at room temperature for 24 h to separate fractions by density. The supernatant containing MP was then vacuum filtered using glass filters (GF/C glass microfiber filters, 1.2 µm, 4.7 cm, Whatman 1822-047). The walls of the laboratory filtration equipment were rinsed twice with MilliQ water during the filtration process to minimise the loss of MPs that may stick. Glass filters were stored in closed glass Petri dishes dried at room temperature. The extraction process was performed thrice for each sediment sample to increase the method's efficiency (Nuelle et al., 2014).

The filters were processed under a professional STEBD optical microscope. To avoid double counting and reduce counting errors, the entire filter surface was examined from top left to bottom right, and MP particles on the filters were counted three times. MPs were identified visually and measured according to criteria described by Hidalgo-Ruz et al. (2012). Identified MPs were photographed individually for each sample, quantified, and classified into the following categories: shape type (fragment, fibre, film, and granule); size (0.1–0.5 mm; 0.5–1 mm; 1–3 mm; and 3–5 mm); and color (clear, black, white, blue, red, yellow, and green) (Zhang et al., 2017; Yang et al., 2020; Zobkov et al., 2020; Dusaucy et al., 2021). The presence of MP particles in sediment samples was expressed as the number of MP particles in 100 g of dry sediment, which was converted to the number of MP particles per kg of dry sediment, while the abundance of MPs was expressed as a percentage for shape types, size, and color.

The Perkin Elmer FTIR microscope Spotlight 200i with ATR FTIR Spectrum Two were used for the chemical identification of MPs. Sixteen scans were performed per particle, and the final spectrum was given as the average of the 16 scans. The frequency range of the FTIR was set between 4000 cm⁻¹ and 500 cm⁻¹. Identification was done by

comparing each FTIR absorption spectrum to the spectra library to confirm the exact identity of the particles. In each sediment sample, at least 30 % of the visually identified MP particles of different shapes, color, and size categories were chemically identified to correct for the potential overestimation of MP by visual identification, as well as the identification of polymer types present in the sediment samples.

2.4. Quality control

During field sampling and laboratory analysis, strict quality control measures were implemented to reduce potential contamination. All analyses were performed in a laminar flow cabinet, all windows and doors in the laboratory were closed during analyses, and no more than two people were in the laboratory. Glass or stainless-steel materials were used. The use of plastic was completely avoided. All used equipment, laboratory accessories, and the work area were carefully cleaned with MilliQ water three times before and during the study and covered with clean aluminium foil when not used. Synthetic clothing was avoided; 100 % cotton laboratory coats and nitrile gloves were used. Filter papers and Petri dishes were examined under a microscope before use. All prepared samples on the filters were covered with glass covers during observation under the microscope. Blanks were included in all analyses, and three blanks were analysed with each sample. Intermediate controls were also performed by placing clean Petri dishes with filters next to the samples and then analysing them under the microscope to identify and quantify any background contamination. The overall mean contamination identified in all control samples was 0.41 ± 0.7 MPs per filter, which, according to Simon-Sánchez et al. (2019) and Jiang et al. (2019), is relatively low and negligible contamination. However, all results were corrected according to the level of contamination measured during sample processing and analysis. In addition, non-plastic particles were not included or reported in the results.

2.5. Statistical analysis

Statistical analyses were performed using PRIMER v7 software and the PERMANOVA+ package (Anderson et al., 2008). Monte Carlo testing ($p < 0.05$) was performed to test the significant differences/correlations of abundance, shape, size, color and polymer types of MPs among the rivers's sediments. Since the samples were not normally distributed, the data were square root transformed based on the Bray-Curtis similarity matrices before analysis. Cluster analysis (CA) was used to determine if there was a significant correlation between the mean abundance of MP particles in the studied river sediments concerning different water bodies, sampling locations, and sampling seasons.

3. Results

3.1. Quantification of MPs

The abundance of MPs in inshore sediments of the Zeta, Morača and Bojana rivers depended on the sampling locations and seasons, as presented in Table 2, while the mean values of the MP abundance at the studied locations of the Zeta, Morača and Bojana rivers during the whole study period are presented in Fig. 2.

The mean value of MP abundance in inshore sediments of the Zeta river during the autumn season was 170 ± 150.8 MPs/kg of dry sediment and 120 ± 53.4 MPs/kg of dry sediment during the spring sampling season (Table 2). MP abundance in inshore sediments of the Zeta river did not differ significantly between sampling seasons, except at site Z2, where a significantly higher abundance of MPs was found during the autumn compared to the spring (Table 2). MP abundance of the inshore sediments of the Zeta river throughout the study period was, in decreasing order, Z2, Z4, Z5, Z3, and Z1, with a mean abundance of 145 ± 110 MPs/kg of dry sediment (Fig. 2). A lower abundance of MPs was

Table 2
MP abundance in the sediment of studied rivers according to the periodicity of sampling (MPs/kg of dry sediment ± SD).

Water body		Abundance of MPs	
		Autumn 2022	Spring 2023
Zeta	Z1	60	50
	Z2	430	180
	Z3	70	80
	Z4	150	140
	Z5	140	150
	Mean values	170 ± 150.8	120 ± 53.4
Morača	M1	20	60
	M2	120	150
	M3	230	170
	M4	440	190
	M5	150	160
	Mean values	192 ± 157.7	146 ± 50.3
Bojana	B1	210	120
	B2	170	110
	B3	240	140
	B4	250	200
	Mean values	217.5 ± 35.9	142.5 ± 40.3

recorded at location Z1, near the source of the Zeta, and at location Z3, at the renewed source of the Zeta (after flooding) (Fig. 2). The highest abundance of MPs was found at location Z2, in the centre of Nikšić (Fig. 2). The average MP abundance of the inshore sediments of the Zeta river was measured at location Z4 in the centre of Danilovgrad and at location Z5 at the entrance of Podgorica near the confluence of the Zeta with the Morača (Fig. 2).

The mean number of MP particles found in inshore sediments of the Morača river was 192 ± 157.7 MPs/kg of dry sediment during the autumn season and 146 ± 50.2 MPs/kg of dry sediment during the spring season, as shown in Table 2. Greater MP abundance was recorded at locations M1 and M2 during spring and at sites M3 and M4 during autumn (Table 2). MP abundance in inshore sediments of the Morača river did not differ significantly per season at location M5 (Table 2). In decreasing order, the locations with the highest number of MP particles were M4, M3, M5, M2, and M1. An average number of 169 ± 113 MPs/kg of dry sediment were found in these locations (Fig. 2). A lower MP abundance was found at location M1, located at the entrance of Podgorica (Fig. 2). An average number of MP particles was found at locations M2 and M3, in the centre of Podgorica, and at M5, at the exit of Podgorica (Fig. 2). The highest number of MPs was found at location M4, also in Podgorica, near the wastewater discharge from wastewater treatment plants (WWTP), as shown in Fig. 2.

The average number of MP particles found in inshore sediments of the Bojana river was 217.5 ± 35.9 MPs/kg of dry sediment during the autumn season and 142.5 ± 40.3 MPs/kg of dry sediment in spring (Table 2). At all the studied locations, a greater number of MP particles were recorded inshore sediments of the Bojana river during the autumn compared to the spring (Table 2). In decreasing order, the locations with the highest number of MP particles were found in the inshore sediment of the Bojana river at the following locations: B4, B3, B1, and B2, with a mean abundance of 180 ± 53.5 MPs/kg of dry sediment (Fig. 2). A lower number of MP particles were observed at location B2 (Fig. 2), located upstream of the river island. A slightly higher MP abundance was observed at location B1 (Fig. 2), located on the border between Montenegro and Albania, i.e., where the Bojana river enters the territory of Montenegro. From this, it can be observed that the MPs originated in Albania and that the concentration of MP in the Bojana river does not increase significantly in Montenegro. The highest abundance of MPs was found at locations B3 and B4, located at the beginning and end of the right watercourse of the Bojana river (Fig. 2).

Sediments from the Bojana contained the greatest number of MP particles, followed by the Morača and the Zeta. The average number of MP particles found in the entire study was 163.6 ± 96.1 MPs/kg dry

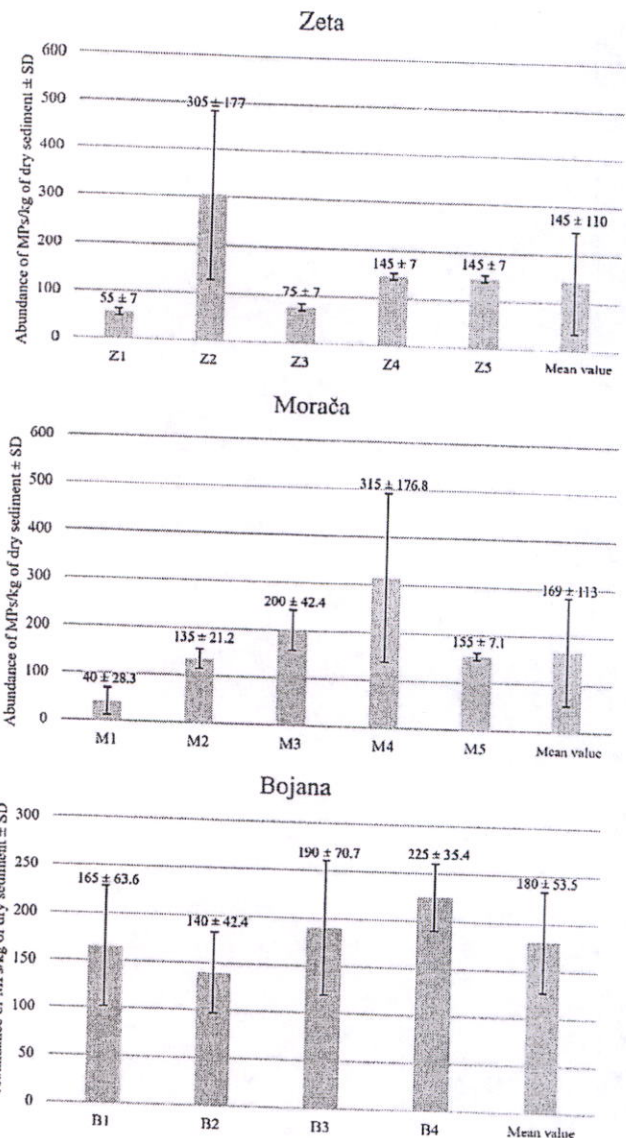


Fig. 2. Mean value of MP abundance (± SD) in river sediment samples referring to sampling locations within the studied rivers.

sediment.

Monte Carlo modelling showed no significant differences in the MP abundance among the studied rivers, locations and sampling seasons ($p > 0.05$). Cluster analysis (Fig. 3.) represents the ratio of MP abundance at all sampled river locations throughout the study. In Fig. 3, five clusters can be seen. The first and third clusters are characterised by the lowest MP abundance. The selected locations of the rivers in the first and third clusters are located near the source (Z1, Z3, M1), so they should have lower MP abundance due to lower anthropogenic influences. The second cluster is characterised by the highest MP abundance and includes locations near wastewater discharges (Z2, M2), sampled during the autumn season when the water levels are lower. The fourth and fifth clusters are characterised by medium MP abundance. The selected locations in the rivers of the fourth and fifth clusters are located in the middle of the river (Z2, Z4, M2-M4, B1-B3) and near the mouth of the river, where it flows into another river, lake or sea (Z5, M5, B4). The difference between the fourth and fifth clusters is minor, except that the fourth cluster includes samples from Bojana collected during the spring and autumn seasons (near the mouth of the river into the sea - B4), while the fifth cluster includes samples from Zeta and Morača during the

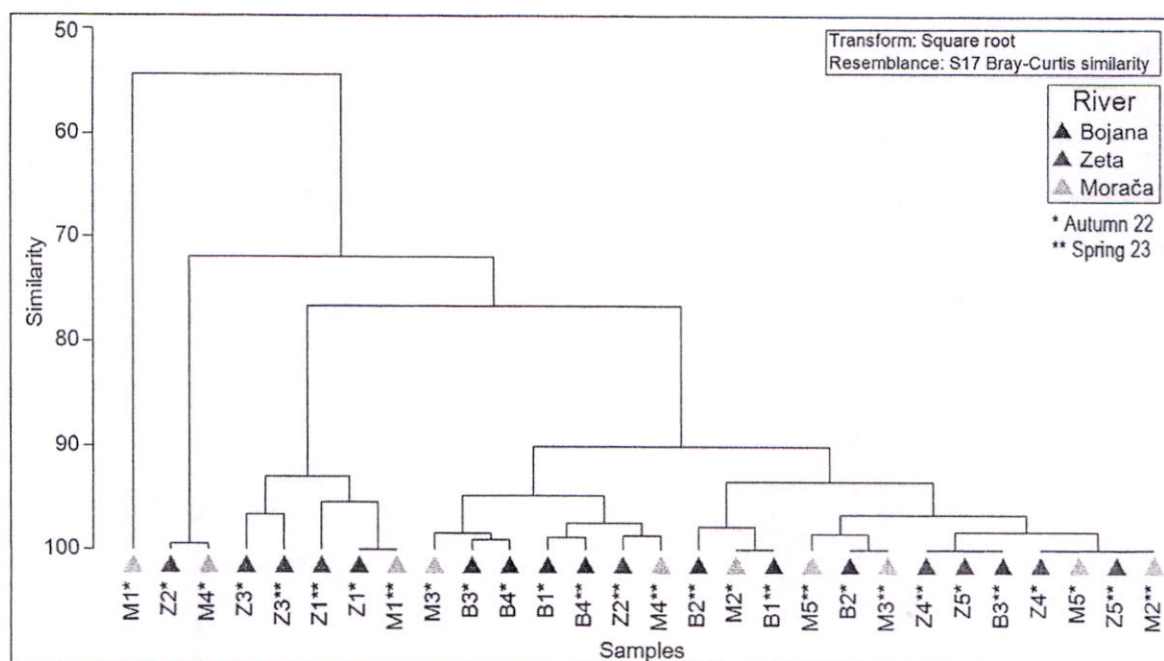


Fig. 3. Cluster analysis of MP abundance ratios in the sediments of the Zeta, Morača and Bojana rivers at all sampling locations during the entire research period.

spring and autumn seasons (near the mouth of the river into the river - Z5, and near the mouth of the river into the lake - M5).

3.2. Characterisation of MP particles found in river shore sediments

The breakdown of the MPs per color and size in rivers is shown in Fig. 4. The most abundant MP shape type in Zeta sediments were fragments (39 %). In comparison, fibres were the most abundant MP shape type in Morača (47.3 %) and Bojana (45.8 %) sediments (Fig. 4). The MPs in the 0.5–1 mm range were the most abundant in sediments of Zeta (32.4 %), Morača (38.9 %) and Bojana (38.4 %), (Fig. 4). The following MP colors were identified in all studied river sediments: blue, red, transparent, black, yellow, green and white (Fig. 4). Red was the most abundant MP color in Zeta sediments (27.6 %), while blue was the most abundant MP color in Morača (26 %) and Bojana (32 %) sediments (Fig. 4).

Of the total 458 MP particles identified visually throughout the study, 45.4 % were identified chemically, of which 30.3 % were identified by ATR FTIR, while 15.1 % were identified by μ FTIR. The MP particles selected for chemical analysis for each sample had different shapes, colors, and sizes. Eleven MP particles analysed by FTIR were not polymer structures (organic and inorganic components), and they were not included in the results, and the results were recalculated concerning them. Fig. 5 shows the percentage abundance of polymers in sediments of the studied rivers.

In inshore sediments of the Zeta, Morača and Bojana rivers, the following polymers were chemically identified by FTIR: polypropylene (PP 27.4 %), polyethylene (PE 27.4 %), polyethylene terephthalate (PET 19.7 %), polyamide (PA 13.5 %), polystyrene (5.3 %), polyvinyl chloride (PVC 3.4 %), acrylate copolymer (Acrilat cop. 1.45 %), polyvinyl alcohol (PVA 1 %) and polytetrafluoroethylene (PTFE 1 %). PP was the most abundant polymer type in Zeta (36.7 %) and Bojana (31.7 %) sediments, while PE was the most abundant polymer type in Morača sediments (26.7 %) (Fig. 5).

Fig. 6 presents a cluster analysis of the abundance of different shapes, sizes, colors and polymers of MPs in sediments in relation to the studied rivers and sampling seasons. Monte Carlo testing revealed that there was a significant difference in the size of MPs as a function of sampling

season ($p < 0.05$), with a lower abundance of the MPs measuring 0.1–0.5 mm and 1–3 mm and a higher abundance of the MPs measuring 0.5–1 mm and 3–5 mm in the autumn season. In all studied rivers, there was no significant difference ($p > 0.05$) in MP shape, color and polymer abundance during the different seasons, nor in the different shapes, sizes, colors, and polymers of MPs between the studied rivers.

4. Discussion

Zeri et al. (2018) note that a higher MP abundance in the spring sampling season could be a result of a greater inflow of inland water, while the higher MP abundance in the autumn sampling season could be a result of greater anthropogenic activities during the summer season, which is consistent with the results obtained in this study.

MP abundance in river sediments was higher near the mouth and urban areas, suggesting that population density is a critical factor affecting the MP distribution and consistent with previous studies (Xu et al., 2020; Firdaus et al., 2020). In the present study, fishing activities were not important sources of MPs. In addition, there are hardly any industrial activities along the studied rivers, so industrial activities cannot be considered important sources of MPs. The present study suggests that the most important sources of MPs in the studied rivers are the daily activities of residents and tourists. Poor waste management practices, followed by illegal waste accumulations near the rivers and inadequate wastewater management in Montenegro, are the most important MP sources in the studied rivers. Similar observations were made by Jiang et al. (2019) and Yang et al. (2020).

There are two WWTPs in the study area. The WWTP in Nikšić is almost completely unused, so a large part of untreated wastewater is discharged into the Zeta river together with partially treated wastewater. Danilovgrad has no WWTP, but untreated wastewater is discharged directly into the Zeta river. The WWTP in Podgorica does not have sufficient capacity for the wastewater collected in this agglomeration, as Podgorica is the city with the highest population density, so more than half of the wastewater inflow is discharged into the Morača river (Government of Montenegro, 2019). The Cijevna river, which originates in Albania, flows into the Morača, which may influence the presence of MP in the sediment of the Morača.

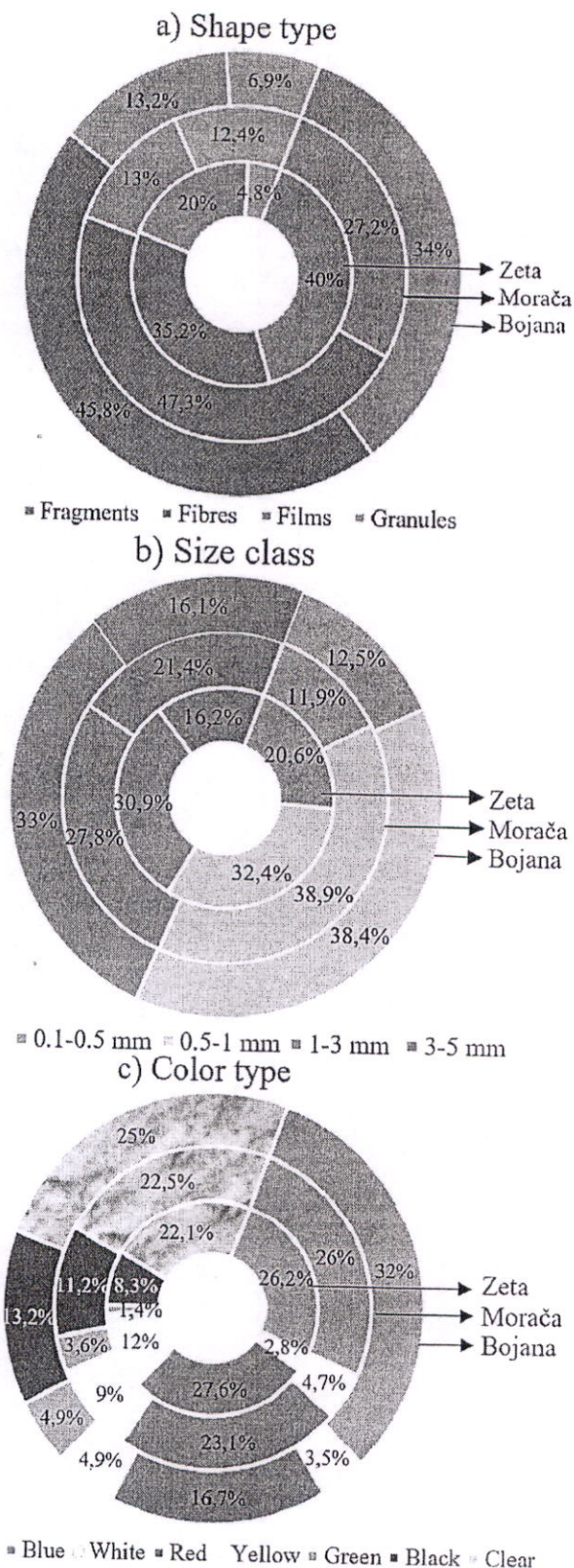


Fig. 4. Comparison of proportional abundance of shape, size and color types of MPs in sediments of studied rivers in the present study.

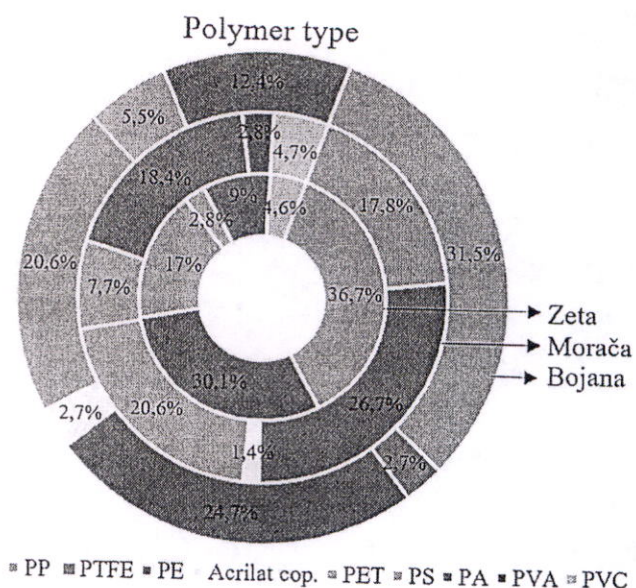


Fig. 5. Comparison of proportional abundance of polymers in sediments of studied rivers in the present study.

On the other hand, the Bojana river carries plastic pollution originating from Albania, where the Bojana river originates (Liubartseva et al., 2016). Barović et al. (2021) state that pollution of the Bojana river is an international problem coming from several locations, from Albania and Montenegro as well as from Kosovo and Macedonia through the Drim River, an arm of which flows into the Bojana. In addition, the Bojana originates from Skadar lake. Hence, the water quality and the presence of MPs in the Bojana depends on the level of water pollution in Skadar lake, into which wastewater from Nikšić, Danilovgrad, Podgorica, Cetinje and Bar is discharged. The influence of Albania on the pollution of the Bojana river should not be ignored, as pointed out by Barović et al. (2021). Numerous cottages and restaurants have been built along the course of the Bojana river, and their wastewater flows directly into the river. The Bojana river island is an attractive tourist destination, so the impact of tourism can be a significant source of plastic/MP pollution to the river.

Compared to literature data, the mean MP abundance in sediments of the Zeta, Morača and Bojana rivers (145 ± 110 ; 169 ± 113 and 180 ± 53.5 MPs/kg of dry sediment, respectively) was lower than the values in sediments of the following rivers: the Osa (286 ± 37 MPs/kg dry sediment) and the Albegna (453 ± 424 MPs/kg dry sediment) in Italy (Cannas et al., 2017); the Tet in France (258 ± 259 MPs/kg dry sediment) (Constant et al., 2020); the Rhine ($228-3763$ MPs/kg dry sediment) and the Main ($786-1368$ MPs/kg dry sediment) in Germany (Klein et al., 2015) and the Ebro in Spain (422 ± 119 MPs/kg dry sediment) (Simon-Sanchez et al., 2019). In contrast, the mean MP abundance in sediments of the Zeta, Morača and Bojana rivers was higher than the measured values in sediments of the Ljubljanica (23 ± 25 MPs/kg dry sediment) and Kamniška Bistrica (22 ± 20 MPs/kg dry sediment) rivers in Slovenia (Matjašić et al., 2022) and higher than the measured range of values in sediments of the Cecina ($72-191$ MPs/kg dry sediment) and Po rivers in Italy ($0.5-78.8$ MPs/kg dry sediment) (Blašković et al., 2018; Atwood et al., 2019). When choosing which rivers to compare our results to, we looked for studies that used similar experimental methods to ours, which presented their results in a similar way to ours, used the same measurement units, and in general studied the shore sediments of rivers, allowing for more precise discussion and conclusions.

In the sediments of the Zeta, Morača and Bojana rivers, the most abundant MP shapes found were fibres and fragments, which is

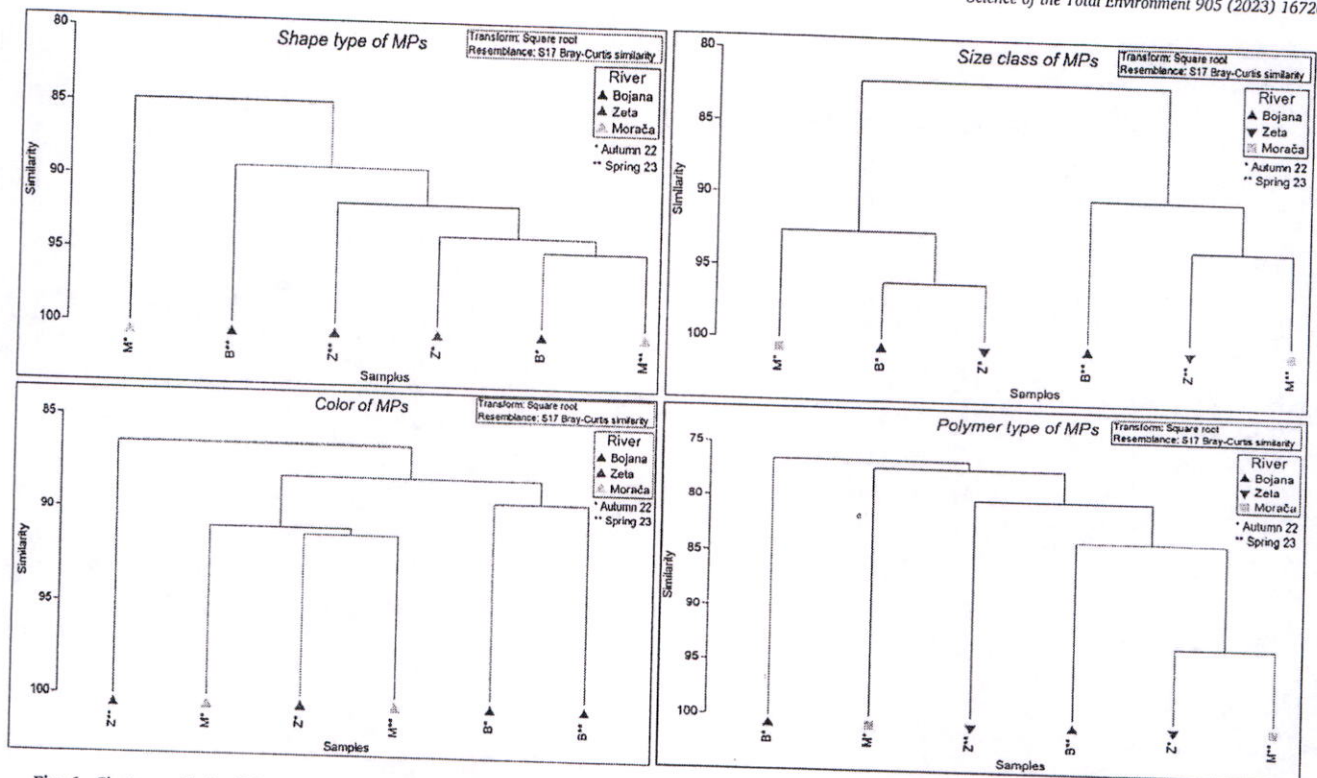


Fig. 6. Cluster analysis of the abundance ratios of different shapes, sizes, colors and polymer types of MPs in sediments in relation to the studied rivers.

consistent with previous studies that investigated MP abundance in river sediments (Klein et al., 2015; Cannas et al., 2017; Blašković et al., 2018; Simon-Sánchez et al., 2019; Constant et al., 2020; Matjašić et al., 2022). In contrast, in the river sediments of the Elbe river in Germany (Scherer et al., 2020) and the Saint Laurent river in Canada (Crew et al., 2020), the most abundant MP shape type were granules, whereas in the river sediments of Daljao and Huanpu in China (Xu et al., 2020), the most abundant MP shape type were films. Hernandez et al. (2017) state that the sources of fibres in aquatic ecosystems are mainly the following: wastewater discharges, especially washing machine effluents, equipment for fishing and hunting activities, and the textile industry. Fragments in aquatic ecosystems are most commonly formed by the degradation of solid macro- and meso-plastics into MP-sized plastics. In contrast, films in aquatic ecosystems are formed by the decomposition and degradation of plastic products such as packaging, bags, or plastic wraps (Wang et al., 2016). Granules, which are the least represented category of MP form types in this study, are mainly derived from detergents and cosmetic preparations, which usually enter aquatic ecosystems through wastewater discharges (Wang et al., 2016).

The predominant range of sizes of the MPs in sediments from the Zeta, Morača and Bojana rivers was 0.5–1 mm, which is consistent with data from the literature for MPs in river sediments (Klein et al., 2015; Blašković et al., 2018; Simon-Sánchez et al., 2019; Matjašić et al., 2022). Matjašić et al. (2022) state that MP particle size influences the possibility of uptake of MP by aquatic organisms, determines the fate of MP behaviour in the aquatic environment, and the (im)possibility of MP removal from aquatic ecosystems.

Colored MP particles were identified in all sediments of the Zeta, Morača and Bojana rivers, with blue, red, and clear particles being the most abundant. These results are consistent with previous studies that investigated MP color in river sediments (Klein et al., 2015; Cannas et al., 2017; Guerranti et al., 2017; Blašković et al., 2018; Simon-Sánchez et al., 2019; Matjašić et al., 2022). Abidli et al. (2017) note that the blue and clear color of MPs may indicate that plastic in the rivers originates from the degradation of plastic bottles, foils, bags, and

wrappers, i.e., it may indicate that the identified MP originate from packaging waste. Moreover, colored particles of MPs are very attractive to aquatic organisms, often resulting in their ingestion and the replacement of food with MPs (Browne et al., 2011).

PP and PE, followed by PET and PA, were identified as the most abundant polymer types in the Zeta, Morača, and Bojana river sediments. These results are consistent with previous studies that investigated the presence of MP polymer types in river sediments (Klein et al., 2015; Simon-Sánchez et al., 2019; Atwood et al., 2019; Constant et al., 2020; Matjašić et al., 2022), as well as the fact that the polymers mentioned above are the most commonly produced and used plastics in the world and, consequently, the dominant plastic wastes in aquatic environments (Plastics Europe, 2020).

Based on the material from which the detected polymers in sediments of Zeta, Morača and Bojana rivers are made, a classification of their potential influence on human health, aquatic organisms and the environment was made according to the European Chemical Agency - ECHA (www.echa.europa.eu/home, accessed on July 2023). ECHA classification of compounds is based on the chemical composition of pure "virgin" polymers. On this basis, PP, PE, PET (the most abundant polymers in present study) and PTFE are classified by ECHA as non-hazardous, while PA and PVC are considered hazardous as these substances cause severe skin burns and eye damage, are toxic to aquatic organisms with long-lasting effects, are harmful if swallowed, are harmful if inhaled, can cause an allergic skin reaction, and can irritate the respiratory tract (www.echa.europa.eu/home). ECHA has classified PS, Acrylat cop. and PVA as polymers that require warning signals as these substances are harmful to aquatic organisms and have a long-lasting effect, may cause an allergic skin reaction, and cause severe eye irritation (www.echa.europa.eu/home). Although the most abundant polymers in this study are classified as non-hazardous according to ECHA, we should not ignore the fact that a wide range of additives with different properties are used in the plastics industry, which can be released from the plastic during its life cycle and lead to human and environmental exposure, which is the basis for future research

(Hahladakis et al., 2018).

This study indicates the indirect influence of the Zeta and Morača rivers, and the direct influence of the Bojana river on the abundance of MPs on the Montenegrin coast. The influence of the autochthonous rivers of Montenegro, Zeta and Morača is reflected in the increased content of fibres, mostly originating from wastewater, with a size of 0.5–1.0 mm, and in the red and blue colors, composed of PP and PE. On the other hand, the influence of the Bojana river, in addition to tourist, fishing and cross-border activities, is influenced by the level of pollution in the Skadar lake, i.e. the inflow of the Morača and Zeta rivers, which carry plastic pollution and can be distributed by the sea currents along the Montenegrin coast. Kaiser and Forenbaher (2016) point out that the Adriatic current flows along the coast of Albania, Montenegro and Croatia, as far north as the tip of the Istrian Peninsula, where it then turns. This movement of currents in the Adriatic Sea may indicate that the rivers that belong to the Adriatic Sea basin influence the level of MP deposition on the Montenegrin coast. Based on previous studies investigating the abundance of MPs on the Montenegrin Adriatic coast (Bošković et al., 2022a, 2022b), it can be concluded that the influx of terrestrial waters from the Adriatic basin of Montenegro in this study (163.6 ± 96.1 MPs/kg dry sediment) contributes to the increase in the abundance of MP on the Montenegrin coast. The Monte Carlo test revealed a significant correlation between MP concentration among rivers and marine sediments ($p < 0.05$). The concentration of MPs in locations of the coastal part of Montenegro in previous studies that investigated the presence and distribution of MPs on the Montenegrin coast ranged between 120 and 1730 MPs/kg of dry sediment (Bošković et al., 2022a, 2022b). The mouth of the Bojana river into the Adriatic Sea is located near the Ada Bojana location, where it was also found that the inflow of freshwater could be one of the main sources of MP at the studied location, which was confirmed by this study. Zeri et al. (2018) state that the inflow of terrestrial water is one of the main sources of MP in seas and oceans. Liubartseva et al. (2016) state that the Bojana river is the second largest terrestrial source of MPs in the entire Adriatic Sea, surpassed only by the Po river.

In this study, in the river sediments as well as in sediments, fish and mussels from the Montenegrin coast, filaments (fibres), followed by fragments, were the most abundant shape of MPs; the most abundant colors were blue, red and clear color, the most abundant size was medium, while PP and PE were the most abundant types of MP polymers in this study as well as in sediments, fish and mussels from the Montenegrin coast (Bošković et al., 2022a, 2022b, 2023). These comparisons confirm, once again, that the studied rivers of the Adriatic basin of Montenegro are some of the most important sources of MPs on the Montenegrin coast.

5. Conclusion

In this study, a lower MP concentration was identified near the sources of the rivers, and the concentration increased along the course of the rivers, depending on various anthropogenic influences. The most abundant forms of MP in the examined rivers were fibres and fragments, often made of PE and PP. MP concentration did not differ significantly in relation to the sampling season. The results of the present study indicate the presence and distribution of MP in river sediments and highlight the need to improve knowledge of the sources and fate of MPs and their effects on river ecosystems. The reported presence of MPs in the sediments of the studied rivers of the Adriatic basin of Montenegro indicates that Zeta, Morača and Bojana are significant sources of MPs on the Montenegrin coast and that the main sources of MPs in the studied rivers are wastewater and municipal waste. Since most of the world's population lives along rivers, current waste and wastewater management practices are expected to further increase the concentration of plastics and MPs in aquatic ecosystems. Efforts are being made to find solutions to reduce plastic/MP emissions to the environment to protect it and respect the principles of sustainable development. It is recommended

that more regular monitoring be conducted of the concentration of MPs in river basins to define different ecological matrices and assess the level of exposure and the impact of MPs on aquatic organisms and human health.

CRedit authorship contribution statement

N. Bošković: Writing – original draft, Visualization, Investigation, Methodology, Software, Formal analysis, Conceptualization
 Ž. Jačimović: Writing- Reviewing and Editing, Resources, Project administration, Validation
 O. Bajt: Writing- Reviewing and Editing, Funding acquisition, Supervision, Data Curation

Declaration of competing interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

Data availability

Data will be made available on request.

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LIČNE INFORMACIJE



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Datum rođenja: 01/03/1993

Državljanstvo: Crnogorsko

ZVANJE

Doktor nauka u oblasti Zaštite životne sredine
Stručno lice za obavljanje poslova zaštite na radu
Doktorand iz oblasti Održivog razvoja

RADNO ISKUSTVO

-
- 2023
(01.02.- 31.12.2023) Konsultant na projektu – Natura 2000
Agencija za zaštitu životne sredine, Crna Gora
- Monitoring morskog ekosistema
 - Identifikacija mikroplastike
 - Procjena ekološkog stanja
- 2020-2021
(01.02. – 30.03.2020)
(18.09.– 18.11.2021) Naučni istraživač
Nacionalni institut za biologiju mora, Morska biološka postaja, Piran, Slovenija
- Sprovođenje naučnih istraživanja
 - Laboratorijske analize
 - Rad na FTIR instrumentu
- 2019-2021
(01.11.2019. – 31.10.2021.) Naučni istraživač
Univerzitet Crne Gore, Institut za biologiju mora, Kotor
- Sprovođenje naučnih istraživanja
 - Analiza hemijskih parametara morske vode, sedimenta i biote
 - Terenski rad, uzorkovanja, laboratorijske analize
 - Očuvanje i zaštita životne sredine
- 2019-2023
(01.01.2019 – 31.08.2023) Stručno lice za obavljanje poslova zaštite na radu
Centar za bezbjednosna, sociološka i kriminološka istraživanja Crne Gore, "Defendologija" Nikšić
- Poslovi zaštite i zdravlja na radu
 - Obuke o bezbjednom radu
 - Redovni pregledi opreme za rad (električnih instalacija, protivpožarnih aparata...)
 - Redovno vođenje evidencija u oblasti zaštite i zdravlja na radu
- 2017
(13.08.-13.11.) Saradnik na projektima
NVO Ekološki pokret "Ozon", Nikšić
- Poslovi zaštite životne sredine
 - Regulisanje problema vezanih za čvrsti komunalni otpad, otpadne vode, emisije
 - Promovisanje novih ekoloških projekata i dr.
- 2016
(15.01.-15.10.) Stručno osposobljavanje
Institut za javno zdravlje Crne Gore, Podgorica
- Prevencija i kontrola infektivnih bolesti
 - Upravljanje medicinskim otpadom (sakupljanje, odlaganje, tretiranje)
 - Laboratorijska testiranja ispravnosti vode i hrane

2014-2015 (01.07.-01.09.2015) (12.07.-12.09.2014)	<u>Asistent EHS menadžeru</u> Pivara "Trebjesa", Nikšić <ul style="list-style-type: none"> - Popis opasnih materija i njihovih svojstava - Zbrinjavanje, obilježavanje hemikalija - Izrada procedura, aneksa, OPL i pravila potrebnih za EHS sector - Organizovanje Pivare za godišnju kontrolu od strane auditora - Aktivno učestvovanje prilikom puštanja u rad WWTP-kolektora za prečišćavanje otpadnih voda - Rješavanje problema zbrinjavanja industrijskog otpada i dr.
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OBRAZOVANJE I OBUKE

Nivo obrazovanja 2022 2021.- u toku 2018 2017 2017 2016 2015	ISCED 8 Međunarodna standardna klasifikacija obrazovanja <u>Doktor nauka (PhD) zaštite životne sredine</u> Univerzitet Crne Gore Centar za doktorske studije Crne Gore, Podgorica Studijski program: <u>Zaštita životne sredine</u> Tema disertacije: „ <i>Procjena ekološkog stanja mora na osnovu sadržaja teških metala i mikroplastike u sedimentu i ribama u priobalnom moru Crne Gore</i> “ Prosječna ocjena A (10.00) Doktorske studije Univerzitet Crne Gore Centar za interdisciplinane i multidisciplinane studije, Podgorica Studijski program: <u>Održivi razvoj</u> Tema disertacije: „ <i>Kontaminacija slatkovodnih ekosistema Crne Gore mikroplastikom: Prva zapažanja o pojavi, brojnosti, prostornim obrascima, identifikaciji i ekološkoj procjeni</i> “ Prosječna ocjena / <u>Položen stručni ispit za poslove zaštite na radu</u> Ministarstvo rada i socijalnog staranja, Cma Gora <u>Položen stručni ispit za rad u državnim organima</u> Uprava za kadrove, Cma Gora <u>Master analitičar zaštite životne sredine</u> Univerzitet Novi Sad Prirodno-matematički fakultet, Novi Sad Tema master rada: „ <i>Određivanje uticaja i potencijala primjene nano gvožđa sintetizovanog iz lišća dudu i hrasta u elektrokinetičkoj remedijaciji</i> “ Prosječna ocjena A (10.00) Nostrifikovala diplomu master studija završenih na Univerzitetu u Novom Sadu u Ministarstvu prosvjete Crne Gore <u>Stepen Specijaliste (Spec.App) Zaštita životne sredine</u> Univerzitet Crne Gore Metalurško-tehnološki fakultet, Podgorica Tema spec rada: „ <i>Rezidue veterinarskih lijekova u mlijeku</i> “ Prosječna ocjena A (10.00) <u>Stepen Bachelor (BApp) Zaštita životne sredine</u> Univerzitet Crne Gore Metalurško-tehnološki fakultet, Podgorica Prosječna ocjena A (9.61)
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LIČNE VEŠTINE

Maternji jezik/ci Crnogorski

Drugi jezik/ci

	RAZUMEVANJE		GOVOR		PISANJE
	Slušanje	Čitanje	Usmena interakcija	Usmeno izražavanje	
Engleski	B2	B2	B2	B2	B1
Španski	B2	B1	B1	B1	A2

Društvene vještine i kompetencije

Odgovorna i pouzdana osoba spremna da podijeli znanje i ideje sa kolegama. Spremna da se lako uklopi u multikulturno okruženje. Tačna, ambiciozna, spremna za timski ili individualni rad, uporna, komunikativna.

Računarske vještine

Microsoft office: Word, Excel, PowerPoint; Graphics or photo imaging software: Adobe Photoshop, CorelDraw, Corel Paint Shop Pro; Analytical scientific software: Primer i Statistica

Vozačka dozvola

B kategorija

Digitalne vještine

SAMOPROCENA				
Obrada informacija	Komunikacija	Stvaranje sadržaja	Bezbednost	Rešavanje problema
Napredna upotreba	Napredna upotreba	Napredna upotreba	Napredna upotreba	Napredna upotreba

DODATNE INFORMACIJE

Stipendije i nagrade

- LECO stipendija, decembar 2023. godine
- UNESCO MAB nagrada za mlade naučnike, 15 jun 2023. godine
- Stipendija Ministarstva nauke Crne Gore za doktorska istraživanja na Univerzitetima u Crnoj Gori, 2019-2021
- Stipendija njemačke fondacije Konrad Adenauer Stiftung (KAS) za društveno i politički angažovane i nadarene studente na završnim godinama fakulteta, postdiplomcima i doktorandima koji studiraju u Crnoj Gori, 2019/2020. godine
- Stipendija Inženjerske komore Crne Gore za 5 najboljih inženjera za studijsku 2015/2016. godinu
- Studentska nagrada grada Nikšića 18. septembar 2016. godine
- Stipendija Ministarstva prosvjete Crne Gore za najbolje studente za studijsku 2014/2015. i 2015/2016. godinu
- Studentska nagrada grada Podgorice 19. decembar, 2014. godine

Sertifikati

- Uvjerenje o završenoj obuci primjene standarda "Sistemi menadžmenta životnom sredinom MEST EN ISO 14001:2016" (21.12.2022.)
- Sertifikat o uspješnom završetku Prvog dokorskog kolokvijuma/simpozijuma (DOC-ME) u Kotoru, Crna Gora (22.09.-24.09. 2022.)
- Sertifikat o poznavanju rada na računaru – ECDL Profil Certificate (03.06.2022.)
- Sertifikat o studijskom istraživačkom boravku (doktorske studije "Održivi razvoj" Univerziteta Crne Gore) na Univerzitetu u Mariboru, Fakultet za logistiku (11.04.-09.05.2022.)
- Sertifikat o poznavanju engleskog jezika, nivo B2, izdao: Filološki fakultet Crne Gore (09.09.2017.)

Seminari

- „Javna komunikacija u nauci i uključivanje javnosti“, u organizaciji British Council, 2021. godine
- „Jačanje internacionalizacije na Univerzitetima u Crnoj Gori“ u organizaciji Univerziteta Crne Gore, Erasmus+ projekat, 2020. godine
- „Javni nastup“, u organizaciji njemačke fondacije Konrad Adenauer Stiftung (KAS), Zrenjanin, 2019. godine
- „Politička komunikacija – retorika“, u organizaciji njemačke fondacije Konrad Adenauer Stiftung (KAS), Petrovac, 2019. godine

Angažovanja

- Odbornica Skupštine Opštine Nikšić, od 24.03.2017. do 14.03.2021. godine
- Član "Savjeta za zaštitu životne sredine" u Skupštini Opštine Nikšić od 24.04.2019. do 14.03.2021. godine
- Potpredsjednik Odbora za društvene djelatnosti u Skupštini Opštine Nikšić od 15.05.2018. do 14.03.2021. godine

Naučne publikacije

- A. Naučni radovi publikovani u referentnim međunarodnim časopisima – SCI lista:
1. **Bošković, N.**, Jaćimović, Ž., Bajt, O. (2023) Microplastic pollution in rivers which belong to the Adriatic Sea basin in Montenegro: Impact on pollution of the Montenegrin coastline. *Science of the Total Environment*, 905: 167206. <https://doi.org/10.1016/j.scitotenv.2023.167206>
 2. **Bošković, N.**, Joksimović, D., Bajt, O. (2023) Content of trace elements and human health risk assessment via consumption of commercially important fishes from Montenegrin coast. *Foods*, 12: 762. <https://doi.org/10.3390/foods12040762>
 3. **Bošković, N.**, Joksimović, D., Bajt, O. (2023) Microplastics in mussels from the Boka Kotorska Bay (Adriatic Sea) and impact on human health. *Food and Chemical Toxicology*, 173: 113641. <https://doi.org/10.1016/j.fct.2023.113641>
 4. **Bošković, N.**, Joksimović, D., Bajt, O. (2022) Microplastics in fish and sediments from the Montenegrin coast (Adriatic Sea): similarities in accumulation. *Science of the Total Environment*, 850: 158074. <http://dx.doi.org/10.1016/j.scitotenv.2022.158074>
 5. **Bošković, N.**, Joksimović, D., Perošević-Bajčeta, A., Peković, M., Bajt, O. (2022) Distribution and characterization of microplastics in marine sediments from the Montenegrin coast. *Journal of Soils and Sediments*. 22(11): 2958–2967. <https://doi.org/10.1007/s11368-022-03166-3>
 6. **Bošković, N.**, Joksimović, D., Peković, M., Perošević-Bajčeta, A., Bajt, O. (2021) Microplastics in Surface Sediments along the Montenegrin Coast, Adriatic Sea: Types, Occurrence, and Distribution. *Journal of Marine Science and Engineering*, 9: 841. <https://doi.org/10.3390/jmse9080841>
- B. The Handbook of Environmental Chemistry:
1. Joksimović, D., Perošević-Bajčeta, A., Pestorić, B., Martinović, R., **Bošković, N.** (2021) Heavy Metals Toxicity in Sediment and the Marine Environment. In: *The Handbook of Environmental Chemistry*. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-662-69020-0_690
- C. Naučni radovi publikovani u međunarodnim časopisima:
1. **Bošković, N.**, Joksimović, D., Peković, M., Bajt, O. (2020) Microplastics in sediments from the coastal area of the Boka Kotorska Bay on the Montenegrin coast. *Studia Marina* 33 (1): 18-25. DOI: 10.5281/zenodo.3932076
 2. Joksimović, D., Perošević-Bajčeta, A., Pešić, A., Martinović, R., **Bošković, N.** (2020) Heavy metal concentrations in sediment and fish species from Boka Kotorska Bay. *Studia Marina* 33 (1): 26-35. DOI: 10.5281/zenodo.3932095
- D. Naučni radovi publikovani u cjelini u zbornicima međunarodnih naučnih konferencija:
1. **Bošković, N.**, Joksimović, D., Bajt, O. (2023) Ekološka procjena stanja rijeke Zete na osnovu zastupljenosti. Peti međunarodni simpozijum o koroziji i zaštiti materijala, životnoj sredini i zaštiti od požara, Bar, Crna Gora. Izdavač: Crnogorsko društvo za koroziju, zaštitu materijala i zaštitu životne sredine, ISBN 978-9940-9334-4-9. Knjiga radova: 106-114.
 2. **Bošković, N.**, Jaćimović, Ž. (2023) Prva procjena prisustva plastike u obalnom sedimentu rijeke Zete. 52. konferencija o aktuelnim temama korišćenja i zaštite voda VODA 2023 u organizaciji Srpskog društva za zaštitu voda, Palić, Srbija, Zbornik radova, 267-274.
 3. **Bošković, N.** (2022) Microplastics presence in aquatic environments in Montenegro: A review on methods, occurrence and sources. The 1st Doctoral Colloquium on Sustainable Development", DOC-ME'2022 in Kotor, Montenegro
 4. **Bošković, N.**, Joksimović, D., Bajt, O. (2021) Zastupljenost mikroplastike u sedimentu Bokokotorskog zaliva. 50 konferencija o korišćenju i zaštiti voda VODA 2021 u organizaciji Srpskog društva za zaštitu voda, Zlatibor, Republika Srbija, Zbornik radova, 257-262.
 5. **Bošković, N.**, Joksimović, D., Pešić, A., Perošević, A., Peković, M. (2020) Akumulacija teških metala u mišićnom tkivu barbuna (*Mullus barbatus*) na Crnogorskom primorju. 49 konferencija o korišćenju i zaštiti voda VODA 2020 u organizaciji Srpskog društva za zaštitu voda, Trebinje, Bosna i Hercegovina, Zbornik radova, 377-382.
 6. Joksimović, D., Perošević-Bajčeta, A., Martinović, R., **Bošković, N.**, Peković, M. (2020). Procjena rizika i akumulacija metala u sedimentu u Bokokotorskom zalivu. 49 konferencija o korišćenju i zaštiti voda VODA 2020 u organizaciji Srpskog društva za zaštitu voda, Trebinje, Bosna i Hercegovina, Zbornik radova, 311-317.
- E. Radovi objavljeni kao apstrakti na međunarodnim naučnim konferencijama
1. **Bošković, N.**, Jaćimović, Ž., Bajt, O. (2023) Abundance, Distribution Patterns, and Identification of Microplastics in Bojana River Sediments in Montenegro. 23rd European Meeting on Environmental Chemistry, EMEC 23, Budva, Crna Gora, Knjiga apstrakata: 56.
 2. **Bošković, N.** (2023) Procjena ekološkog stanja crnogorskog primorja na osnovu zastupljenosti mikroplastike u biotičkoj i abiotičkoj sredini. Agencija za zaštitu životne sredine Crne Gore "Zaštita prirode i životne sredine, stanje, značaj i perspektive". Knjiga apstrakata: 222-223.
 3. **Bošković, N.** (2022) Particle size determination of microplastic in the sediments along the Montenegrin coast, Adriatic Sea. Second International Conference: "Adriatic Biodiversity Protection – AdriBioPro2022", Kotor, Crna Gora
 4. **Bošković, N.**, Joksimović, D., Bajt, O., Perošević-Bajčeta, A., Peković, M. (2021) Distribution and characterization of microplastics in the marine sediments from the Montenegrin coast. 12th International SedNet Conference, Lille, France
 5. Joksimović, D., Perošević-Bajčeta, A., Martinović, R., **Bošković, N.**, Peković, M. (2021) Distribution of Heavy Metals in Core Sediment at the Montenegrin coast. 12th International SedNet Conference, Lille, France

Recenzije naučnih radova

- Recenzija dva naučna rada u časopisu Elsevier "Science of the Total Environment" tokom septembra i oktobra mjeseca 2023. godine
- Recenzija tri naučna rada u časopisu Springer nature "Environmental Monitoring and Assessment" tokom febrara, marta i maja 2023. godine
- Recenzija šest naučnih radova u časopisu Elsevier "Regional Studies in Marine Science" tokom oktobra i decembra mjeseca 2022. godine i januara, aprila, septembra i oktobra 2023. godine

Naučne konferencije

- 23. Evropski skup o hemiji životne sredine, EMEC 23, Budva, Crna Gora, 03-06. decembar 2023. godine
- Peti međunarodni simpozijum o koroziji i zaštiti materijala, životnoj sredini i zaštiti od požara u organizaciji Crnogorskog društva za koroziju, zaštitu materijala i zaštitu životne sredine, Bar, Crna Gora, 26-29. septembar 2023. godine
- Naučna konferencija "Zaštita prirode i životne sredine stanje, značaj i perspektive" u organizaciji Agencije za zaštitu životne sredine, Plav i Gusinje, Crna Gora, 20-23. septembar 2023. godine
- Međunarodna naučna konferencija "Ekološka održivost i klimatske promjene" u organizaciji Univerziteta Crne Gore, Žabljak, Crna Gora, 14-15. septembar 2023. godine
- Pedeset druga međunarodna naučna konferencija o aktuelnim temama korišćenja i zaštite voda "VODA 2023" u organizaciji Srpskog društva za zaštitu voda, Palić, Srbija, 31. maj - 02. jun 2023. godine
- Prvi doktorski kolokvijum/simpozijum (DOC-ME) na temu "Održivi razvoj" (Erasmus+ MARDS projekti), Pomorski fakultet u Kotoru, 22 - 24. septembra 2022. godine
- Druga međunarodna konferencija "Zaštita biodiverziteta Jadrana – AdriBioPro2022", Kotor, Crna Gora, 13 – 16. juna 2022. godine
- Dvanaesta međunarodna kongerencija "Izazovi i mogućnosti sedimenta usled klimatskih promjena i održivog razvoja – SedNet", Lil, Francuska, 28. juna – 02. jula 2021. godine
- Četrdeset deveta međunarodna konferencija o korišćenju i zaštiti voda "VODA 2020" u organizaciji Srpskog društva za zaštitu voda, Trebinje, Bosna i Hercegovina, 19 - 21. novembra 2020. godine



Univerzitet Crne Gore
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mail_rektorat@ucg.ac.me
web_www.ucg.ac.me
University of Montenegro

Broj / Ref 03-1743

Datum / Date 09. 11 2021

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore“ br 44/14, 47/15, 40/16, 42/17, 71/17, 55/18, 3/19, 17/19, 47/19, 72/19 i 74/20 i 104/21) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 09.11.2021. godine, donio je

ODLUKU O IZBORU U ZVANJE

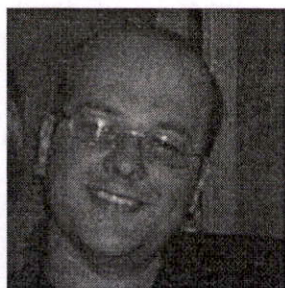
Dr MILJAN BIGOVIĆ bira se u akademsko zvanje **vanredni profesor Univerziteta Crne Gore** iz oblasti **Organska hemija i biohemija** na **Prirodno-matematičkom fakultetu Univerziteta Crne Gore**, na period od pet godina.



**SENAT UNIVERZITETA CRNE GORE
PREDSJEDNIK**

Prof. dr Vladimir Božović, rektor

Europass Radna biografija



Lični podaci

Prezime(na) / Ime(na) **Bigović Miljan**
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Telefonski broj(evi) 040 242 746
E-mail miljan@ucg.ac.me
Državljanstvo Crnogorsko
Datum rođenja 13. avgust 1984.
Pol Muški

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Željeno zaposlenje / zanimanje

Docent Univerziteta Crne Gore (oblast: organska hemija)

Radno iskustvo

Datumi	
2009-2011.	– Istraživač-pripravnik/Inovacioni centar Hemijskog fakulteta Univerziteta u Beogradu;
2011-2012.	- Istraživač-saradnik/Inovacioni centar Hemijskog fakulteta Univerziteta u Beogradu;
2012-2016.	– saradnik u nastavi / Prirodno-matematički fakultet Univerziteta Crne Gore;
2016-	docent / Prirodno-matematički fakultet Univerziteta Crne Gore;
2016-	prodekan za nastavu/ Prirodno-matematički fakultet Univerziteta Crne Gore;
2021-	vanredni profesor / Prirodno-matematički fakultet Univerziteta Crne Gore;

Obrazovanje i osposobljavanje

Datumi	
1999-2003	– Gimnazija „Stojan Cerović“ - Nikšić – Prirodno-matematički smjer;
2003-2009	– Hemijski fakultet Univerziteta u Beogradu – smjer: diplomirani hemičar – osnovne studije;
2009-2015	- Hemijski fakultet Univerziteta u Beogradu – smjer: organska hemija – doktorske studije.

Naziv dodijeljene kvalifikacije
Glavni predmeti / stečene profesionalne vještine
Ime i vrsta organizacije obrazovne institucije
Nivo prema nacionalnoj ili međunarodnoj klasifikaciji

Lične vještine i kompetencije

Maternji jezik(ci) **Srpski**
Drugi jezik(ci) **Engleski jezik (1)
Ruski jezik (2)**

Samoprocjena Evropski nivo (*)	Razumijevanje				Govor				Pisanje	
	Slušanje		Čitanje		Govorna interakcija		Govorna produkcija			
Jezik1	C2	Iskusni korisnik	C2	Iskusni korisnik	C2	Iskusni korisnik	C2	Iskusni korisnik	C2	Iskusni korisnik
Jezik2	B1	Samostalni korisnik	B1	Samostalni korisnik	A2	Temeljni korisnik	A1	Temeljni korisnik	A2	Temeljni korisnik

(*) Zajednički evropski referentni okvir za jezike

Društvene vještine i kompetencije	Vještine koje posjedujete Komunikativan, timski orijentisan, društven
Organizacione vještine i kompetencije	Vještine koje posjedujete Sposobnost rada kako pojedninačnog tako i timskog, posjedovanje organizacionih sposobnosti u smislu organizacije rada, raspodjele zadataka i tumačenja rezultata rada.
Računarske vještine i kompetencije	Programi i programski jezici kojima vladate MS Office Hemijski programski paketi: Chem Draw and Chem Scratch
Vozačka dozvola	Kategorija koju posjedujete C-kategorija
Dodaci	Dokumenti koje dostavljate Publikacije:

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Ostale aktivnosti i interesovanja:

- Član Srpskog hemijskog društva i Društva hemičara Crne Gore;
 - Učešće u realizaciji 1., 2. i 3. Festivala nauke Republike Srbije (2008-2011);
 - Član Organizacionog odbora 14th European Conference of Chemistry of the Environment (European Meeting on Environmental Chemistry, EMEC), 4-7. Decembar 2013., Budva;
 - Autor i ocjenjivač takmičarskih testova iz hemije u organizaciji Ispitnog centra Crne Gore;
 - Autor i ocjenjivač takmičarskih zadataka i koordinator hemijskog kolegijuma Olimpijade znanja u organizaciji Prirodno-matematičkog fakulteta Crne Gore;
 - Član fondacije za promovisanje nauke „Prona“ od 2014. godine – angažovan kao mentor radova iz oblasti hemije na Zimsoj školi nauke, kao predavač i organizator praktikuma iz hemije na Ljetnjoj školi nauke;
 - Koordinator za hemiju za takmičenje „Olimpijada znanja“ u organizaciji Prirodno-matematičkog fakulteta Univerziteta Crne Gore;
 - Mentor sam i vođa crnogorskog tima na 51., 52. i 53. Međunarodnim hemijskim olimpijadama (održanim 2019, 2020 i aktuelnoj 2021. godini). Od 2014. do danas sam dio tima koji obavlja pripreme učenika za međunarodne hemijske olimpijade;
 - Učesnik na većem broju bilateralnih projekata između Crne Gore sa jedne i Srbije, Hrvatske, Slovenije i Mađarske sa druge strane.
 - Istraživanje zagađenja crnogorskog primorja i Skadarskog jezera sa organokalajnim jedinjenjima i toksičnim metalima (Crna Gora-Hrvatska, 2014-2016);
 - Uticaj teških metala na promjenu metabolizma ljekovitog bilja (Crna Gora-Srbija, 2016-2018);
 - Sinteza, karakterizacija i biološki aspekti novih ditiokarbamatnih kompleksa nekih prelaznih metala (Crna Gora-Srbija, 2016-2018);
 - Sinteza, fizičko-hemijska i strukturna istraživanja novih, potencijalno biološki aktivnih Šifovih baza-derivata ditiokarbamata (Crna Gora-Hrvatska, 2016-2018);
 - Sinteza, fizičko-hemijska karakterizacija i potencijalna biološka karakterizacija-aktivnost novih kompleksnih jedinjenja prelaznih metala sa pirazolom i njegovim derivatima (Crna Gora-Mađarska, 2016-2018);
 - Modeliranje grafovima u matematičkoj hemiji (Crna Gora-Slovenija, 2018-2020).
- Rukovodilac je bilateralnog projekta sa Srbijom pod nazivom „Sinteza Šifovih baza i ispitivanje njihove antimikrobne i antioksidativne sposobnosti, za period 2019-2021.
- Član je projekta „Balneološki efekti peloida, mineralne vode, ljekovitog i aromatičnog bilja na inflamatorni odgovor kod reumatoidnih i kardiovaskularnih bolesti (period 2018-2020).
- Član je Centra Izvrsnosti Centre of Excellence for Biomedical Researches CEBIMER, kao rukovodilac istraživanja u oblasti hemije, i član naučnog odbora Centra.

Tokom 2017. i 2018. godine, u okviru ERASMUS-projekta, boravio sam na Departmanu za Bioorgansku hemiju Farmaceutskog instituta Univerziteta Saarland u Saarbruckenu, Njemačka;

Tokom 2015., 2016. i 2017. boravio sam na Institutu „Ruđer Bošković“ u cilju naučne saradnje u sklopu bilateralnih projekata;

Recenzent „Priručnika za laboratorijsku dijagnostiku“, autora Snežane Pantović i Ivana Dožića, u izdanju Medicinskog fakulteta Univerziteta Crne Gore, Podgorica, 2017.

Autor poglavlja u udžbeniku „Osnovi biohemije“ za studente visoke medicinske škole, urednika Snežane Pantović, Medicinskog fakulteta Univerziteta Crne Gore, Podgorica, 2018.

Koautor udžbenika „Hemija za četvrti razred gimnazije“ u izdanju Zavoda za udžbenike i nastavna sredstva, Podgorica, 2020. godine.

Recenzent udžbenika „Hemija 3“ za treći razred gimnazije“ autora Svetlane Varagić i Mirjane Segedinac, Zavod za udžbenike i nastavna sredstva, Podgorica, 2020.

Recenzent „Zbirke zadataka za četvrti razred gimnazije“ autora Stanojke Vučurović, Željka Jaćimovića i Vlatka Kastratovića, u izdanju Zavoda za udžbenike i nastavna sredstva, Podgorica, 2020. godine.

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Recenzent sam u većem broju časopisa nacionalnog i međunarodnog značaja koji se bave tematikom iz oblasti organske hemije i hemije životne sredine.

Na 56. Savetovanju Srpskog hemijskog društva, bio sam član žirija za dodjelu IUPAC-ove nagrade za najbolje postersko saopštenje;

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Mentor sam i komentor studentima osnovnih, specijalističkih i magistarskih studija, a član sam većeg broja komisija za odbrane završnih, specijalističkih i master radova na Prirodno-matematičkom fakultetu i drugim organizacionim jedinicama UCG.

- Član Uredničke komisije recenzenata (Editorial key reviewers committee) časopisa Journal of Achievements in Materials and Manufacturing Engineering

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Opis jed.	Broj	Prilog	Vrijednost
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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 25.03.2010. godine, donio je

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BIOGRAFIJA ŽELJKA JAĆIMOVIĆA

Željko Jaćimović je rođen 1966. godine u Bijelom Polju, gdje je završio osnovnu školu i gimnaziju. Diplomirao je hemiju na Prirodno-matematičkom fakultetu Univerziteta u Sarajevu 1991. godine. Postdiplomske studije upisao je 1992. godine na Hemijskom fakultetu u Beogradu, a magistarski rad pod nazivom „Sinteza i kristalna struktura dihloro-bis (3-amino-5-metilpirazol) cink(II) kompleksa“ odbranio je 1996. godine. Doktorsku disertaciju pod nazivom "Sinteze i strukture kompleksa Zn(II), Cd(II), Hg(II) i Cu(II) sa nekim di- i trisupstituisanim derivatima pirazola“ odbranio je u februaru 1999. godine na Institutu za hemiju Prirodno-matematičkog fakulteta u Novom Sadu.

Za asistenta na Katedri za opštu i neorgansku hemiju Metalurško-tehnološkog fakulteta (MTF) Univerziteta Crne Gore izabran je 1992. godine. Kao asistent izvodio je na MTF-u vježbe iz Opšte i neorganske hemije, Neorganske hemije, Kristalografije sa difraktometrijom i Neorganske hemije II, kao i iz Hemije na Prirodno-matematičkom fakultetu (PMF) i Hemije na Medicinskom fakultetu u Podgorici. Za docenta na Univerzitetu Crne Gore izabran je 1999. godine na predmetu Opšta i neorganska hemija, a za vanrednog profesora 2004. godine na predmetima na MTF-u Neorganska hemija, Hemijska veza i struktura molekula i Hemija čvrstog stanja. Od 2005. godine angažovan je za izvođenje nastave iz predmeta Opšta i neorganske hemija na Odsjeku za biologiju PMF, a od 2007. godine i za nastavu predmeta Opšta i neorganska hemija na studijskom programu Farmacija. U zvanje redovnog profesora na Univerzitetu Crne Gore izabran je u martu 2010. godine, na predmetima Neorganska hemija, Hemijska veza i struktura molekula na akademskim studijama i Neorganska hemija II na postdiplomskim specijalističkim studijama MTF-a, kao i Opšta i neorganska hemija na samostalnom studijskom programu Farmacija.

U periodu 2001-2004. godine, u dva mandata, obavljao je funkciju šefa Katedre za opštu i neorgansku hemiju na MTF-u, a od marta do oktobra 2015. obavljao je i funkciju vršioca dužnosti dekana MTF-a.

Prof. dr Željko Jaćimović dobio je značajna domaća i inostrana priznanja za ostvarene naučne rezultate. U knjizi "*Who is Who in Thermal Analysis and Calorimetry*", renomiranog izdavača *Springer International Publishing* (hardcover ISBN 978-3-319-09485-4; eBook ISBN 978-3-319-09486-1), publikovanoj 2014. godine, prikazan je kratkom biografijom i bibliografijom kao jedan od 350 vodećih naučnika iz oblasti termičke analize i kalorimetrije. Ministarstvo nauke Crne Gore dodijelilo mu je 2018. godine Nagradu za najboljeg naučnika starijeg od 30 godina, a Univerzitet Crne Gore, 2020. godine, godišnju Nagradu za poseban doprinos u razvoju naučno-istraživačkog, stručnog i umjetničkog rada i međunarodnog pozicioniranja Univerziteta.

Željko Jaćimović ima 61 naučni rad publikovan u referentnim međunarodnim časopisima sa SCI liste, koji pripadaju oblasti sinteze i karakterizacije novih kompleksnih jedinjenja. Pored tih radova ima i tri rada publikovana u drugim međunarodnim časopisima i tri rada u domaćim časopisima. Ima i 15 radova štampanih u cjelosti u zbornicima radova međunarodnih naučnih konferencija. Dio rezultata svojih istraživanja prezentovao je i u vidu

71 saopštenja na inostranim i 19 na domaćim konferencijama, od kojih značajan broj na evropskim i svjetskim kristalografskim kongresima.

Oblast njegovih istraživanja je neorganska hemija, a naročito kompleksna (koordinaciona) jedinjenja. Iz te grupe jedinjenja posebno su interesantna ona na bazi pirazola i njegovih derivata sa prelaznim metalima, zato što ulaze u sastav mnogih lijekova (posebno antipiretika i antireumatika), herbicida i fungicida, a koriste se i kao ekstragenti različitih metalnih jona. Kompleksna jedinjenja platine, paladijuma i rutenijuma sa tiosemikarbazonima i tiosemikarbazidima kao ligandima pokazuju antitumornu aktivnost, pa je sinteza, karakterizacija i biološka aktivnost ovih kompleksih jedinjenja takođe jedan od značajnih pravaca njegovih istraživanja. Sinteza novih kompleksnih jedinjenja i njihova fizičko hemijska karakterizacija (elementarna analiza, IR spektroskopija, NMR, Raman spektroskopija, termičke analize, ¹H spektri, konduktometrijska i magnetna mjerenja, biološka aktivnost, X-ray rendgeno-strukturna analiza) čine osnovu Jaćimovićevih publikovanih i saopštenih naučnih radova.

Željko Jaćimović je član Evropske kristalografske asocijacije i Hemijskog društva Crne Gore. U periodu 2000-2006. obavljao je funkciju sekretara Hemijskog društva Crne Gore, a od 2006. je predsjednik tog društva, koje je te 2006. godine postalo punopravni član Federacije evropskih hemijskih društava. Najzaslužniji je što je Hemijsko društvo Crne Gore dobilo i organizovalo Prvi (2007. u Miločeru) i Drugi (2009. u Baru) simpozijum hemije i životne sredine zemalja Jugoistočne Evrope, na kojem su pored učesnika iz regiona učestvovali i hemičari iz Turske, Italije, Rusije i SAD, među kojima i predsjednik Američkog hemijskog društva – odjela za zaštitu životne sredine.

Bio je predsjedavajući naučne konferencije *14th European meeting on Environmental Chemistry* 2013. godine, čiji je domaćin bilo Hemijsko društvo Crne Gore. Bio je član naučnog odbora hemijskih konferencija 8 zemalja (Grčka, Rumunija, Bugarska, Makedonija, Albanija, Srbija, Crna Gora, Kipar) – konferencija koje organizuju hemijska društva Jugoistočne Evrope, kao i konferencija *1st, 2st, 3st and 4st Central and Eastern European Conference on Thermal Analysis and Calorimetry, CEEC-TAC1*, 2011, 2013, 2015 i 2017 godine. Bio je član naučnog odbora *1st i 6th Thermoanalytical Conference*, koje organizuje Springerov *Journal of Thermal Analysis and Calorimetry*, časopis sa SCI liste.

Od 2013. godine je član Uređivačkog odbora časopisa "Glasnik hemičara i tehnologa Bosne i Hercegovine".

Željko Jaćimović je, kao rukovodilac ili član tima, učestvovao u realizaciji više značajnih istraživačkih i razvojnih projekata.

Bio je istraživač na dva projekta finansirana od strane Ministarstva nauke bivše SRJ: "Preparation Materials with Antibacterial Catalytic Effect on Metal Basis" i "Electrochemical Disinfections of Drink Water".

Bio je rukovodilac tri istraživačka projekta finansirana od Ministarstva prosvjete i nauke Crne Gore: "Kompleksi serije pirazola i njegovih derivata", "Kompleksi serije prelaznih metala sa pirazolom i njegovim derivatima" i "Sinteza, fizičko-hemijska karakterizacija i biološka aktivnost kompleksa serije prelaznih metala sa pirazolom i njegovim derivatima".

Bio je rukovodilac i pet bilateralnih naučno-istraživačkih projekata Crne Gore:

1. Sa Grčkom, pod nazivom "Sinteza, struktura i biološka aktivnost novih metalnih pirazolonskih kompleksa - anti-oksidantne i biomimetičke aktivnosti kod metalnih kompleksa", (2006-2008);
2. Sa Hrvatskom - "*Structural characterization of novel complex material for broad applications*", (2012-2013);
3. Sa Slovenijom - "*The use of natural and synthetic zeolites for the removal of heavy-metals (or inorganic ions) from waste-waters*", (2012-2013);
4. Sa Austrijom – „*Synthesis, physico-chemical characterization and biological activity of new transition metal complexes with pyrazole based ligands and their potential application*“, (2013- 2016);
5. Sa Mađarskom, pod nazivom „*Synthesis, physico-chemical and biological characterization of new transition metal complexes with pyrazole derivatives and their potential application*“, (2016-2018).

Bio je i član istraživačkog tima bilateralnog projekta Crne Gore sa Kinom, pod nazivom „*Climate change: global challenge and national response (Chinese and Montenegro perspective) - Building business environment for European "new/green" investments and industries*“, (2014-2016).

Prof. Jaćimović je bio i jedan od rukovodilaca CEEPUS projekta CIII-SI-0905-1415, pod nazivom „*Training and Research in Environmental Chemistry and Toxicology*“, (2013-2015).

Bio je ključni istraživač na dva inovativna projekta:

- „Ispitivanje biološke efikasnosti novosintetisanih jedinjenja i biljnog ekstrakta prema najznačajnijim oboljenjima vinove loze u Crnoj Gori“, finansiranom od Ministarstva nauke 2018-2020,

- "*Testing of bio-efficacy of newly synthesized compounds and herbal extract according to the most important grapevine diseases in Montenegro (BIOEXTRA)*", 2018-2020. godine.

Rukovodilac je tima Crne Gore na Eureka projektu (2020-2023) „*Development of test strips based on electrochemical (bio)sensors for determining the concentration of disease biomarkers for the purpose of early diagnostics and prevention*“, i član crnogorskog tima na Erasmus+ projektu (2019-2022) „*Harmonization and Innovation of the PhD Study Program for Plant Protection in Sustainable Agriculture (HarISA)*“.

Prof. Željko Jaćimović ima veoma dobru i redovnu naučnu saradnju sa više institucija međunarodnog renomea: Univerzitetom u Beču (sa Fakultetom za prirodne nauke - Odsjek za neorgansku hemiju i sa Institutom za kristalografiju i mineralogiju), Univerzitetom u Durhamu - Velika Britanija, Hemijskim fakultetom iz Beograda, Institutom za nuklearne nauke - Vinča, Prirodno-matematičkim fakultetom iz Novog Sada, Nacionalnim Institutom za hemiju iz Ljubljane, Institutom Ruđer Bošković iz Zagreba, Univerzitetom za tehnologiju i ekonomiju iz Budimpešte (departmanom za analitičku i neorgansku hemiju). O uspješnosti te saradnje svjedoči značajan broj zajedničkih radova publikovanih u referentnim naučnim časopisima.

Kako u Crnoj Gori nema hemijskog fakulteta, prof. Željko Jaćimović se više puta usavršavao u gore navedenim institucijama i radio na zajedničkim projektima sa kolegama iz tih institucija. U tom pogledu posebno treba istaći Univerzitet u Beču (mart-jul 2001, septembar–oktobar 2001, jun 2005, 2010-2015).

Dobitnik je granta Američkog hemijskog društva i član internacionalne delegacije - rad po pozivu koji je saopštio u Čikagu 2007. godine u okviru *Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy*.

Preko Univerziteta Crne Gore bio je aktivni učesnik TEMPUS projekta "*Improvement of Teaching Quality in South East Europe*", u okviru kojeg je imao izlaganje na zajedničkom skupu u Sarajevu 2003. godine, i projekta "*Creation of Montenegro Team of Bologna Promoters*", u okviru kojeg je imao dvije posjete Univerzitetu *La Sapienza* u Rimu.

Posjeduje aktivno znanje engleskog jezika (usavršavanje u Kembridžu mart 2000. godine i Notingemu januar-februar 2001) i pasivno znanje italijanskog jezika.

Profesor Jaćimović održao je plenarno predavanje (predavanje po pozivu) na 14-tom Kongresu hemicara i tehnologa Bosne i Hercegovine (prvom nakon 1988. godine) pod nazivom "*Complexes of transition metals with pyrazole derived ligands: synthesis, physico-chemical characterization and potential application*", koji je održan u oktobru 2014. godine.

Željko Jaćimović je dao izuzetan doprinos reformi douniverzitetskog obrazovanja u Crnoj Gori. Bio je predsjednik Komisije za promjenu nastavnih planova i programa u osnovnoj školi (2003-2005), član Nacionalnog kurikularnog savjeta i koordinator za oblast prirodnih nauka u tom savjetu (2002-2005), član Nadzornog odbora za reformu obrazovanja pri Ministarstvu prosvjete i nauke (2006-2009) i član državnog tima za izradu Nacionalnog okvira kvalifikacija. Od 2007. do 2010. bio je predsjednik Komisije Zavoda za školstvo za akreditaciju programa stručnog usavršavanja nastavnika douniverzitetskog nivoa. Autor je strategije za uspostavljanje i razvoj nove institucije u našem obrazovnom sistemu – Ispitnog centra Crne Gore, institucije zadužene za eksternu provjeru znanja, vještina i kompetencija učenika i za sva međunarodna testiranja douniverzitetskog nivoa. Prvi je direktor tog centra i na toj funkciji je od 2006. do 2015. Bio je član (2007-2015) Glavnog odbora za međunarodno testiranje učenika PISA i Naučnog odbora *Agency for Cooperation in Secondary Education PACE*. Učestvovao je kao predavač na brojnim seminarima vezanim za metodologiju i izradu novih programa zasnovanih na nastavno-ciljnom kurikulumu. Bio je predavač na konferenciji *ERI SEE (Education Reform Initiative of South Eastern Europe)* iz oblasti ocjenjivanja, Bar 2007. Ekspert je *European Training Fondation* (sa sjedištem u Torinu) za oblast ključnih kompetencija i ocjenjivanja. Jedan je od autora publikacije te fondacije "*Key Competences for Lifelong Learning-development in the Montenegrin Education System, Project number WP 06-53-01*", (2007). Recenzent je 10 i urednik 4 udžbenika za osnovnu školu i gimnaziju. Koautor je zbirke zadataka iz hemije za drugi i treći razred gimnazije. Bio je član žirija za ocjenu projekata na prvom (2006) i drugom (2008) regionalnom takmičenju mladih talenata iz oblasti prirodnih nauka u Bugarskoj, finansiranog od strane UNESKO.

Prof. Jaćimović je bio tim lider na 48, 49. i 50. Međunarodnoj hemijskoj olimpijadi (Azerbejdžan, Tajland, Češka i Slovačka), na kojoj učestvuju pobjednici državnih takmičenja iz hemije (u prosjeku 200 najboljih učenika iz 50 država svijeta).

Za izvanredan doprinos razvoju obrazovanja dodijeljena mu je 2009. godine državna nagrada "Oktoih", najveća nagrada Crne Gore za oblast obrazovanja.

Prof. Jaćimović je učestvovao i u reformi Univerziteta Crne Gore, u periodu 2014-2017, kao jedan od četiri koordinatora tima za reformu. Dio dobijenih podataka i analiza sumiran je u publikaciji Univerziteta Crne Gore i *European University Association* „Analiza stanja i strateška opredjeljenja za reorganizaciju i integraciju Univerziteta Crne Gore“, iz aprila 2015.

U periodu 2015-2017. bio je član Naučnog odbora Univerziteta Crne Gore, a od avgusta 2016. do jula 2017. i član Upravnog odbora Univerziteta, kao predstavnik Vlade Crne Gore.

Bio je i član pregovaračkog tima za pridruživanje Crne Gore Evropskoj Uniji, za poglavlje 26, koje se odnosi na obrazovanje i kulturu.

Inostrani je ekspert za reakreditaciju doktorskih studija Hemije na MTF Univerziteta u Beogradu (2020. godina) i doktorskih studija Hemije na PMF Univerziteta u Nišu (2021).

Prof. dr Željko Jaćimović bio je član Odbora za obrazovanje CANU, a član je Odbora za hemijske i biološke nauke pri Odjeljenju prirodnih nauka. Bio je član užeg tima potprojekta Obrazovanje, u okviru projekta CANU "Crna Gora u XXI stoljeću", i autor je dva rada u Zborniku radova tog potprojekta.

Prof. dr Željko Jaćimović nedavno se okušao i u oblasti patenata. Ima prihvaćen nacionani patent Crne Gore P-2019-204 "*Pyrazole derivative and it's Co complex as a fungicide for the control of Phomopsis viticola sacc (BioextraPz)*", a Svjetskoj patentnoj organizaciji prijavio je 2021. godine patent "*Method for preparation of extract from fraxinus ornus and its use*", i ima dobre indicije da će patent biti uskoro prihvaćen.

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Številka: 104-4/2018

Datum: 26. 03. 2018

Na podlagi Zakona o visokem šolstvu (Ur. l. RS št. 67/1993 in spremembe, dopolnitve ter popravki; v nadaljevanju: ZViS), Statuta Univerze v Ljubljani z dne 21.12.2004 (Ur. l. RS št. 8/2005 in spremembe, dopolnitve ter popravki) in Meril za volitve v nazive visokošolskih učiteljev, znanstvenih delavcev ter sodelavcev Univerze v Ljubljani z dne 25.10.2011 (in spremembe) ter na podlagi sklepa 6. redne seje Senata Fakultete za kemijo in kemijsko tehnologijo Univerze v Ljubljani z dne 23. 03. 2018 izdajam

ODLOČBO O IZVOLITVI V NAZIV IZREDNI PROFESOR IN HKRATI VIŠJI ZNANSTVENI SODELAVEC

Izr. prof. dr. Oliver Bajt, rojen 05. 01. 1960 v Kopru
je drugič izvoljen v naziv izredni profesor in hkrati višji znanstveni sodelavec za področje
Kemija okolja, za obdobje pet let, in sicer od 23. 03. 2018 do 22. 03. 2023.

Obrazložitev:

Izr. prof. dr. Oliver Bajt, je dne 14. 07. 2017 vložil vlogo za izvolitev v izredni profesor za področje Kemija okolja. Vlogi je priložil bio - in bibliografske podatke.

Strokovna komisija v sestavi: izr. prof. dr. Andreja Žgajnar Gotvajn, prof. dr. Helena Prosen in prof. dr. Mihael Toman (UL BF) je podala pozitivno mnenje, na podlagi katerega je Senat Fakultete za kemijo in kemijsko tehnologijo na seji dne 23. 03. 2018 ugotovil, da so izpolnjeni vsi pogoji Zakona o visokem šolstvu, Statuta Univerze v Ljubljani ter Meril za volitve v nazive visokošolskih učiteljev, znanstvenih delavcev in sodelavcev in ponovno izvolil izr. prof. dr. Oliverja Bajta v naziv izredni profesor in hkrati višji znanstveni sodelavec za področje Kemija okolja.

Pravni pouk: Zoper to odločbo je dovoljena pritožba na Senat Univerze v Ljubljani. Pritožbo je treba vložiti v roku 15 dni od dneva vročitve te odločbe v kadrovska službo Fakultete za kemijo in kemijsko tehnologijo Univerze v Ljubljani, Večna pot 113.

Dekan:

prof. dr. Jurij Svete

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Curriculum Vitae

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First and last name: Oliver Bajt

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EDUCATION

1994 PhD

Name of the institution: University of Ljubljana, Slovenia, Faculty for chemistry and chemical technology

1985 Master

Name of the institution: University of Ljubljana, Slovenia, Faculty for chemistry and chemical technology

1983 Diploma

Name of the institution: University of Ljubljana, Slovenia, Faculty for chemistry and chemical technology

EMPLOYMENT

1990 – Position: researcher

Name of the institution: National institute of biology, Marine biology station

1983-1985 – Position: young researcher

Name of the institution: University of Ljubljana, Faculty for chemistry and chemical technology

1987-1990 – Position: engineer-developer

Name of the institution: Iplas, chemical company Koper, Slovenia

FELLOWSHIPS AND AWARDS

1998 – 1999 Name of the institution: University of Clermont Ferrand, France, post doc, 4 months

TEACHING ACTIVITIES

1996 – Scientific area: environmental chemistry

Name of the institution: University of Ljubljana, Faculty of maritime studies and transport

MAJOR SCIENTIFIC COLLABORATIONS (if applicable)

Names of collaborators / Topic / Name of the organisation / City / Country:

ARRS research program (P1-0237): Coastal sea research (1999-2019). ARRS research projects: Pharmaceutical and personal care product residues in the environment: Occurrence, sources, treatment and effects (L1-5457, 2013-2016), Influence of circulation and maritime traffic on sediment transport in wide open bays (L1-4147, 2011-2014), Connection between organic matter and metals, especially Hg, in coastal waters (Gulf of Trieste) (J1-2136, 2009-2012), The impact of microbial processes on Hg biomagnification in food webs of the Gulf of Trieste (J1-7369, 2005-2008), Sources and cycling of organic matter in coastal sea (gulf of Trieste) (J1-5314, 2003-2005), Biological elements for ecological status determination of surface water bodies (V1- 0484, 2001-2002), (J1-7388, 1996-2001), Degradation of sedimentary organic matter in coastal waters (Gulf of Trieste, northern Adriatic) and alpine lake (lake Bled) (J1-7388, 1996-2001), Organic pollutants in biological resources in Slovenian sea (J1-1300, 1999-2001),

Biogeochemistry and modelling of mercury in the Gulf of Trieste (J1-8905, 1997-1999), The impact of pollution on coastal sea (V2-0190, 1998-1999), Photochemical transformations of organic compounds in natural waters (Z1-7856, 1996-1998). National monitoring program of the sea (1992-2013). Determination of ecological status of Slovenian sea in the frame of WFD and MSFD (2008-2019). Pollution reduction in the Bay of Koper, UNEP-GEF (2004-2005), Environmental monitoring through monitoring and modelling of anoxia, Life 04 ENV (2004-2007). MEDCIS, MFSD second cycle, EU grants for an action, 2017-2018. HarmoNIA-Harmonization and networking for contaminant assessment in the Ionian and Adriatic sea, Interreg Adrion, 2018-2020. International bilateral projects and applied projects for companies and ministries.

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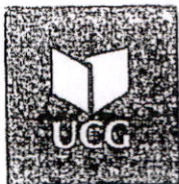
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ODLUKU O IZBORU U ZVANJE

Dr **Nedeljko Latinović** bira se u akademsko zvanje redovni profesor Univerziteta Crne Gore za oblast **Zaštita bilja**, na Biotehničkom fakultetu Univerziteta Crne Gore, na neodređeno vrijeme.

SENAT UNIVERZITETA CRNE GORE
PREDSJEDNIK
Prof. dr Danilo Nikolić, rektor



Biografija

Prof. dr Nedeljko Latinović

Rođen sam 14. marta 1971. godine u Bihaću (BiH). Školske 1990/91. godine upisao sam Poljoprivredni fakultet Univerziteta u Beogradu, odsjek za voćarstvo i vinogradarstvo. Fakultetsku diplomu stekao sam 30. juna 1997. godine odbranom diplomskog rada pod nazivom "Ispitivanje prolećnog razvoja pčelinje zajednice u voćnoj paši". Postdiplomske studije iz oblasti fitofarmacije, upisao sam školske 1997/98. na Poljoprivrednom fakultetu u Novom Sadu. Magistarsku tezu pod nazivom: "Hemijsko suzbijanje bele leptiraste vaši citrusa *Dialeurodes citri* Ashmead (Homoptera, Aleurodidae)" odbranio sam 26.10.2001. godine. Doktorsku disertaciju pod naslovom: "Model zaštite vinove loze od ekzorioze u uslovima podgoričkog vinogorja", odbranio sam 15. marta 2007. godine, na Poljoprivrednom fakultetu u Beogradu, nakon čega sam promovisan u doktora biotehničkih nauka, oblast zaštita bilja i prehrambenih proizvoda. Specijalizacije iz oblasti Integralne zaštite bilja obavio sam u Italiji (2006), Sjedinjenim Američkim Državama (2006), Njemačkoj (2019), a iz oblasti registracije sredstava za zaštitu bilja u Sloveniji (2010, 2016) i Velikoj Britaniji (2013). Učestvovao sam na brojnim skupovima iz oblasti zaštite bilja i bezbjednosti hrane (Austrija, Italija, Grčka, Belgija, Luksemburg, Francuska, Hrvatska, Kipar, Mađarska, Litvanija, Njemačka, Srbija, Bosna i Hercegovina), gdje sam prezentovao radove putem postera i usmenih prezentacija. Do sada sam objavio preko 160 naučnih i stručnih radova u domaćim i međunarodnim časopisima i skupovima u zemlji i inostranstvu.

Član sam Odbora za strateško planiranje razvoja nauke i umjetnosti Univerziteta Crne Gore, član Komisije za doktorske studije Biotehničkog fakulteta i rukovodilac studijskog programa Biljna proizvodnja na Biotehničkom fakultetu od školske 2013/2014 godine.

Član sam predsjedništva Udruženja mikrobiologa Crne Gore, član Društva za zaštitu bilja Srbije i Međunarodnog savjeta za bolesti drveta vinove loze (ICGTD). Oženjen sam i imam dvoje djece.

PODACI O RADNIM MJESTIMA I IZBORIMA U ZVANJE Od 1. februara 1999. godine zaposlen sam u Biotehničkom institutu (sada fakultetu) u Podgorici kao istraživač saradnik iz oblasti fitofarmacije, a zvanje viši istraživač za fitofarmaciju na Univerzitetu Crne Gore stekao sam 09.07.2002. godine. U zvanje docenta za oblast Fitofarmacije (predmeti Fitofarmacija, Tehnologija zaštite bilja i Sredstva za zaštitu bilja) na Biotehničkom fakultetu izabran sam 25.12.2008. godine prema Odluci Univerziteta Crne Gore br. 01-2651, a u zvanje vanrednog profesora za predmete: Fitofarmacija, Tehnologija zaštite bilja i Sredstva za zaštitu bilja na Biotehničkom fakultetu, prema Odluci Univerziteta Crne Gore br. 08-577, izabran sam 26.02.2015. godine. Na Biotehničkom fakultetu u Podgorici angažovan sam kao nastavnik na osnovnim akademskim studijama, smjer Biljna proizvodnja na predmetu Fitofarmacija, a na specijalističkim studijama, smjer Zaštita bilja na predmetima Sredstva za zaštitu bilja i Tehnologija zaštite bilja. Na magistarskim akademskim studijama, smjer Zaštita bilja, nastavnik sam na predmetima Poljoprivredna toksikologija i Rezistentnost na pesticide, i 1/3 predmeta Metode istraživačkog rada u fitomedicini. Na master studijama po zadnjem akreditovanom programu predviđeno je da od školske 2020/2021 godine izvodim predavanja na sljedećim predmetima:

Sredstva za zaštitu bilja i Tehnologija zaštite bilja. Na doktorskim studijama sam predavač na predmetu Pesticidi i jedan od četiri predavača na predmetu Održiva poljoprivreda. Na osnovnim primjenjenim studijama u Bijelom Polju, smjer Kontinentalno voćarstvo saradnik sam na predmetu Bolesti voćaka.

RADOVI U NAUČNIM ČASOPISIMA NA SCI I SCIE LISTAMA posljednjih 5 godina

Q1 Rad u vodećem međunarodnom časopisu

Gonzalez-Dominguez, E., Caffi, T., Paolini, A., Mugnai, L., **Latinović, N.**, Latinović, J., Languasco, L. and Rossi, V. (2022): Development and validation of a mechanistic model that predicts infection by *Diaporthe ampelina*, the causal agent of Phomopsis cane and leaf spot of grapevines. *Frontiers in Plant Science* (section Plant Pathogen Interactions). Vol. 13, article 872333.

González-Domínguez, E., Caffi, T., Languasco, L., **Latinovic, N.**, Latinovic, J., Rossi, V. (2021): Dynamics of *Diaphorte ampelina* conidia produced on grape canes overwintered in the vineyard. *Plant Disease*. 105(10), 3092-3100.

Kavran, M., Pajović, I., Petrić, D., Ignjatović-Čupina, A., **Latinović, N.**, Jovanović, M., Quarrie, S.A., Zgomba, M. (2020): Aquatain AMF efficacy on juvenile mosquito stages in control of *Culex pipiens* Complex and *Aedes albopictus*. *Entomologia Experimentalis et Applicata*, 168(2), 148-157.

Latinović, J., **Latinovic, N.**, Jakse, J., Radisek, S. (2019): First report of *Erysiphe elevata* causing powdery mildew on *Catalpa bignonioides* in Montenegro. *Phytopathologia Mediterranea*. 58(3): 693-698.

Popovic, T., **Latinović, N.**, Pesic, A., Zecevic, Z., Krstajic, B., Đukanovic, S. (2017): Architecting an IoT-enabled platform for precision agriculture and ecological monitoring: A case study. *Computers and Electronics in Agriculture* (ISSN: 0168-1699). Volume 140, Pages 255-265.

Latinović, N. and Latinović, J. (2017): Influence of rainfall on development of esca disease. *Phytopathologia Mediterranea* (ISSN 0031-9465), 56, 3, 537-538.

Latinović J., Kandić, B. and **Latinović, N.** (2017): Survey on the distribution of fire blight pathogen, *Erwinia amylovora*, on pome fruits in Montenegro. *Phytopathologia Mediterranea* (ISSN 0031-9465), vol. 56, No. 2, 322.

Q2 Rad u eminentnom međunarodnom časopisu

Latinovic, J., **Latinović, N.**, Jakse, J. and Radisek, S. (2019): First Report of White Rust of Rocket (*Eruca sativa*) Caused by *Albugo candida* in Montenegro. *Plant Disease* (ISSN: 0191-2917). Vol. 103, No. 1, p 163.

Latinovic, J., Radisek, S., Bajceta, M., Jakse, J. and **Latinović, N.** (2019): Viruses associated with fig mosaic disease in different fig varieties in Montenegro. *The Plant Pathology Journal* (ISSN 1598-2254). Vol. 35, No. 1, p. 32-40.

Latinović, J., Sabovljević, M., Vujčić, M., Latinović, N., Sabovljević, A. (2022): Effects of the leafy liverwort extract on plant pathogenic fungi causing olive fruit rot and gray mold of strawberry. *Phytopathologia Mediterranea*, Vol 61, No 1. 225-226.

Vujanović, V., Kim, S.H., Latinović, J., Latinović, N. (2020): Natural Fungicolous Regulators of *Biscogniauxia destructiva* sp. nov. that causes Beech Bark Tarcrust in Southern European (*Fagus sylvatica*) Forests. *Microorganisms*, 8(12), 1999.

Jaćimović, Ž., Kosović, M., Kastratović, V., Holló, B.B., Mészáros Szécsényi, K., Miklós Szilágyi, I., Latinović, N., Vojinović-Ješić, Lj., Rodić, M. (2018): Synthesis and characterization of copper, nickel, cobalt, zinc complexes with 4-nitro-3-pyrazolecarboxylic acid ligand. *Journal of Thermal Analysis and Calorimetry (ISSN: 1388-6150)*. Vol. 133, No. 1, 813-821.

Latinović, J., Latinović, N., Karaoglanidis, G. S. (2017): First Report of Brown Rot Caused by *Monilinia fructicola* on Nectarine Fruit in Montenegro. *Plant Disease (ISSN: 0191-2917)*, June, Volume 101, Number 6, Page 1045.

Jaćimović, K.Ž., Giester, G., Kosović, M., Bogdanović, A.G., Novaković, B.S., Leovac, M.V., Latinović, N., Holló, B.B., Mészáros Szécsényi, K. (2017): Pyrazole-type complexes with Ni(II) and Cu(II), Solvent exchange reactions in coordination compounds. *Journal of Thermal Analysis and Calorimetry (ISSN: 1388-6150)*. Volume 127, Issue 2, pp 1501–1509.

Q3 Rad u međunarodnom časopisu

Kosović, M., Novaković, S., Jaćimović, Ž., Latinović, N., Marković, N., Đorđević, T., Libowitzky, E., Giester, G. (2020): Synthesis, crystal structure and biological activity of copper(II) complex with 4-nitro-3-pyrazolecarboxylic ligand. *Journal of the Serbian Chemical Society*. 85 (7) 885–895.

Latinović, N., Sabovljević S.M., Vujčić, M., Latinović, J., Sabovljević, D.A. (2019): Growth suppression of plant pathogenic fungi using bryophyte extracts. *Bioscience Journal (ISSN 1981-3163)*. 35(4), p. 1213-1219.

Q4 Rad u međunarodnom časopisu

Sabovljević, M.S., Tomović, G., Niketić, M., Lazarević, P., Lazarević, M., Latinović, J., Latinović, N., Kabaš, E., Djurović, S.Z., Kutnar, L., Skudnik, M., Pantović, J., Stevanoski, I., Vukojičić, S. & Veljić, M. (2020): New records and noteworthy data of plants, algae and fungi in SE Europe and adjacent regions, 1. *Botanica Serbica*, 44(1): 81-87.

Latinović, N., Sabovljević S.M., Vujčić, M., Latinović, J., Sabovljević, D.A. (2019): Bryophyte extracts suppress growth of plant pathogenic fungus *Botrytis cinerea*. *Botanica Serbica (ISSN: 1821-2158)*. 43(1):9-12.

Latinović, N., Novaković B.S., Bogdanović, A.G., Kastratović, V., Giester, G. and Jaćimović, K.Ž. (2019): Crystal structure of dihydrazinium 1H-pyrazole-3,5-dicarboxylate, C₅H₁₂N₆O₄. *Zeitschrift für Kristallographie - New Crystal Structures (1433-7266)*. 234(5), 957-958.

Latinović, N., Sabovljević D.A., Latinović, J., Vujičić, M. & Sabovljević S.M. (2018): Experimental approaches on biotic relationships among bryophytes and fungi in the controlled conditions. *Botanica Serbica* (ISSN: 1821-2158). Vol. 42 (supplement 1), 194-195.



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Datum / Date 16.11.2020

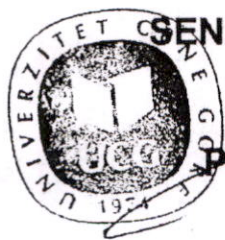
Crna Gora
UNIVERZITET CRNE GORE
METALURŠKO-TEHNOLOŠKI FAKULTET

Primljeno:	23.11.2020		
Org. jed.	Broj	Prilog	Vrijednost
-	1921		

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore“ br 44/14, 47/15, 40/16, 42/17, 71/17, 55/18, 3/19, 17/19, 47/19, 72/19 i 74/20) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 16.11.2020. godine, donio je

ODLUKU O IZBORU U ZVANJE

Dr Milica Kosović Perutović bira se u akademsko zvanje docent Univerziteta Crne Gore za **oblasti Opšta i neorganska hemija i Zagađivači u životnoj sredini**, na Metalurško-tehnološkom fakultetu Univerziteta Crne Gore, na period od pet godina.



**SENAT UNIVERZITETA CRNE GORE
PREDSJEDNIK**

Prof. dr Danilo Nikolić, rektor

PERSONAL INFORMATION

Milica Kosović Perutović

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Gender | Female | Date of birth 16/07/1983 | Country Montenegro

WORK EXPERIENCE

16.11.2020-

Docent
Faculty of Metallurgy and Technology, University of Montenegro

Teaching in the following subjects:

- General and inorganic chemistry (Faculty of Science, study program Biology)
- Ecotoxicology (Faculty of Metallurgy and Technology in Podgorica, study program Environmental Protection)
- Medical biochemistry and chemistry (Faculty of Medicine, Podgorica, part of the course)
- Chemistry (Faculty of Medicine, study program Dentistry)
- Chemistry of natural organic compounds (Faculty of Metallurgy and Technology, study program Chemical Technology, part of the course)
- Coordination compounds-selected chapters (Faculty of Metallurgy and Technology in Podgorica)
- Ecotoxicology (Biotechnical Faculty Podgorica, Food Safety)

01.09.2011 – 16.11.2020

Teaching assistant
Faculty of Metallurgy and Technology, University of Montenegro

Since the beginning of his engagement at the Faculty of Metallurgy and Technology, she has been performing exercises on the following subjects:

- General Chemistry (study programs Chemical Technology and Metallurgy and Materials),
- Inorganic Chemistry (study programs Chemical Technology and Metallurgy and Materials),
- Chemical bond and structure of molecules (study program Chemical Technology),
- Bioinorganic chemistry (study program Chemical Technology).

In the study program Environmental Protection performs exercises in the subject:

- General chemistry,
- Inorganic chemistry,
- Ecotoxicology,
- Food contaminants.

Engaged from the very beginning of her work at the faculty on performing exercises in the subject:

- General and inorganic chemistry at the Faculty of Science and Mathematics in

Podgorica (study program Biology),

- General and inorganic chemistry at the Faculty of Medicine (study program Pharmacy),
- Chemistry (Biotechnical Faculty, study programs Plant Production and Animal Husbandry, part of exercises)

At the Faculty of Philosophy (study program Teacher Education) she performed exercises on the subject

- Chemistry.

Since September 2014. at the Faculty of Medicine in Podgorica (study program Medicine) performed part of the exercises on the subject

- Medical biochemistry and chemistry.

Since the 2018/19 academic year, she has been engaged to teach the following subjects under mentorship:

- Ecotoxicology (Faculty of Metallurgy and Technology in Podgorica, study program Environmental Protection, part of the course),
- General and inorganic chemistry (Faculty of Science, study program Biology)
- Chemistry (Faculty of Medicine, study program Dentistry),
- Medical biochemistry and chemistry (part: General and inorganic chemistry, Faculty of Medicine, study program Medicine).
- Chemistry of natural organic compounds (Faculty of Metallurgy and Technology, study program Chemical Technology, part of the course)

01. 10. 2010. -01. 06. 2011. Chemistry teacher
High school " Stojan Cerović " , Nikšić

01. 01. 2011. -30. 05. 2011. Chemistry teacher
Elementary school " Ratko Žarić " , Nikšić

EDUCATION AND TRAINING

- 27.12.2016 PhD, Doctor of science - chemistry
Faculty of Natural and Mathematical sciences, Kragujevac, Serbia
- Department: Chemistry
 - Name of the thesis: Synthesis, characterization and clarify the mechanism of substitution reactions of transition metal complexes of some ions
2009. Chemist for research and development
Faculty of Natural and Mathematical sciences, Kragujevac, Serbia
2002. High school diploma
High school " Stojan Cerović " , Nikšić

PERSONAL SKILLS

Native language Montenegrin

Other language

Engleski jezik

Ruski jezik

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
A2	A2	A2	A2	A1
Stages: A1 / 2: Beginner - B1 / 2: Independent user - C1 / 2 Experienced user A common European reference framework for languages				

Communication skills ▪ Excellent communication skills gained during many years of work with associates and students (teaching)

w

Organizational / managerial skills ▪ Since 2012. participates in compiling and reviewing tests of the state competition in Chemistry for primary and secondary school students organized by the Examination Center of Montenegro.
▪ As a member of the team (first as an observer and then as a mentor) participated in the International Chemistry Olympiad (International Chemistry Olympiad, IChO2012 Washington, D.C, IChO2013 Moscow, Russia, IChO2014 Hanoi, Vietnam, IChO2015 Azerbaijan, Baku.). Since 2015, engaged as part of the team in the preparation of competitors for the International Chemistry Olympiad

IT skills ▪ Everyday active use of the Microsoft Office™ program package, Chemdraw and many other programs.

Driving licence ▪ B

ADDITIONAL INFORMATION

Projects

Associate on national scientific projects:

1. "Synthesis, physico-chemical and biological characterization of new complex compounds based on pyrazole and its derivatives, biological activity and potential application in pharmacy, agriculture and medicine", National Scientific Research Project (2012-2015).

2. "Synthesis of new dithiocarbamate compounds and their antimicrobial and toxic properties testing", National Scientific Research Project (2012-2014).

3. Innovation project: „Study on biological efficacy of newly synthesized compounds and plant extract to the most important diseases of grapevine in Montenegro- BIOEXTRA” supported by Ministry of Science of Montenegro (2018-2020)

4. Center of Excellence for Biomedical Research - CEBIMER, Head: Dr. Vjerslava Slavić, Head: Institute of Physical Medicine, Rehabilitation and Rheumatology "Dr. Simo

Milošević" Igalo

Associate in bilateral scientific - technological cooperation:

1. "Synthesis, physico-chemical and biological characterization of new transition metal complexes with pyrazole derivatives and their potential application" Institut für Mineralogie und Kristallographie, Fakultät für Geowissenschaften, Geographie und Astronomie, Univ. Wien, (2012-2014)
2. "Use of natural and synthetic zeolites for the removal of heavy metals from wastewaters and drinking water", Faculty of Metallurgy and Technology, University of Montenegro and Chemistry Institute of Ljubljana, Hajdrihova 19, 1000 Ljubljana (2012-2013)
3. „ Fungicidal activity of new complexes of dithiocarbamate ligands with transition metals ", Bilateral project funded by MN CG and MZS HR (Z. Leka, A. Višnjevac) (2013-2014)
4. "Synthesis, physico-chemical and structural research of new potentially biologically active Schiff dithiocarbamate bases". Faculty of Metallurgy and Technology, University of Montenegro and Ruđer Bošković Institute, Zagreb, Croatia (2017-2018)
5. "Synthesis, physico-chemical characterization of new complex compounds of transition metals with pyrazole derivatives and their potential application Faculty of Metallurgy and Technology, University of Montenegro and Faculty of Natural and Mathematical sciences, University of Novi Sad (2017-2018)
6. "The synthesis, characterization and biological aspects of new dithiocarbamate complexes of certain transition metals", Faculty of Metallurgy and Technology, University of Montenegro and Faculty of Natural and Mathematical sciences, University of Kragujevac (2017-2018)

Associate in international scientific projects:

1. "Development of test strips based on electrochemical (bio)sensors for determining the concentration of disease biomarker for the purpose of early diagnostics and prevention", Eureka project (2020-2023)

Innovative activity

National patent

1. (11)03496,(51)A01N 3/00, (21)P-2019-204, (54)Pyrazole derivative and its cobalt complexes for the control of fungi *Phomopsis viticola*, SACC, Bioextra, Pz, Crnogorski glasnik intelektualne svojine, datum objavljivanja 20.01.2020, ISSN 1800-8003

Conferences and invited lectures

Oral presentations at international scientific conferences:

1. **M. Kosović**, A. Višnjevac, D. Vojta, M. Đaković, Z. Leka; "Cobalt complexes with biologically active dithiocarbamate derivative", 22nd Croatian Slovenian Crystallographic Meeting, Biograd, Croatia, 2013, Book of abstracts, page 13

Poster presentations at international scientific conferences:

Papers published in full

1. S.R. Trifunović, D. Bulatović, M. Kosović, Z. Leka: Complex of iron(II) with potassium 3-dithiocarboxy-3-aza-5-aminopentanoate dihydrate, PHYSICAL CHEMISTRY 2012, 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, 24-28 Sept. 2012. Belgrade, Serbia Proceedings, Volumell, pp 689-691, ISBN 978-86-82475-28-6

2. Ž. Jaćimović, V. Leovac, N. Latinović, M. Kosović, I. Đerđ, A. Radović: The influence of newly synthesised Cu(II) complexes based on pyrazole derivatives on the inhibition of *Phomopsis viticola* Sacc. (Sacc.) under laboratory conditions, Second International Symposium on Corrosion and protection of Materials and Environment, Bar, Montenegro, 17-20 Oct, 2012, Book of proceedings Bar, 2012, page 319-326.
3. I. Bošković, M. Kosović, Ž. Jaćimović, N. Latinović: The influence of newly synthesised Zn (II) complexes based on pyrazole derivatives on the inhibition of *Phomopsis viticola* Sacc. (Sacc.) under laboratory conditions, Second International Symposium on Corrosion and protection of Materials and Environment, Bar, Montenegro, 17-20 Oct, 2012, Book of proceedings Bar, 2012, page 327-333.
4. I. Bošković, Ž. Jaćimović, M. Kosović, N. Latinović, " The influence of newly synthesised Ni(II) complexes based on pyrazole derivatives on the inhibition *B. Dothidea* of under laboratory conditions", XV Yucor, September 17-20, 2013, Tara, Serbia, Book of abstracts, page 188-193, ISBN 978-86-82343-19-6
5. Z. Leka, M. Kosović, J. Latinović, N. Latinović, " Inhibicioni efekat sintetisanog ditiokarbamato liganda $(\text{NH}_4)_3(\text{idatc})$, na fitopatogenu gljivu *Botryosphaeria dothidea*", XV Yucor, September 17-20, 2013, Tara, Serbia, Book of abstracts, page 260-263, ISBN 978-86-82343-19-6
6. Ž. Jaćimović, A. Radović, M. Kosović, N. Latinović: " Influence of newly synthesized Cu(II) complexes on the pyrazole based derivatives on inhibition of *B. Dothidea*", 12th International conference protection and restoration of the environment, Jun 2014, Skiathos Island, Proceedings, page 719-714, ISBN 978-960-88490-6-8
7. V. Kastratović, Ž. Jaćimović, M. Bigović, M. Kosović, D. Đurović, S. Krivokapić, " Speciation of copper in lake sediments and bioaccumulation of macrophytes Scadar Lake, Montenegro" , 12th International conference protection and restoration of the environment, Jun 2014, Skiathos Island, Greece, Proceedings, page 725-730, ISBN 978-960-88490-6-8
8. Ž. Jaćimović, I. Bošković, A. Radović, M. Kosović, N. Latinović, „Influence of newly synthesized Cu(II) complexes on the pyrazole based derivatives on inhibition of *Phomopsis viticola* (Sacc.) Sacc.", 13th International Conference on Protection and Restoration of the Environment, 3rd to 8th July, 2016, Mykonos island, Greece, Book of abstract, page 154, Proceedings, page 471-476, ISBN 978-960-6865-94-7
9. V. Kastratović, M. R. Bigović, Ž. Jaćimović, M. Kosović, D. Đurović, S. Krivokapić, „Bioaccumulation of cobalt and nickel in macrophytes from Skadar Lake" 13th International Conference on Protection and Restoration of the Environment, 3rd to 8th July, 2016, Mykonos island, Greece, Book of abstract, page 150, Proceedings page 443-448, ISBN 978-960-6865-94-7

Published abstracts

1. Ž. Jaćimović, M. Kosović, N. Latinović, V. Leovac, Z. Tomić, "The influence of some pyrazole derivatives and its newly synthesised transitional metal complexes on the inhibition of *Phomopsis viticola* Sacc. (sacc.) under laboratory conditions", 13th European Meeting on Environmental Chemistry, EMEC 13, December 05-08, 2012, Moscow, Russia, p 113, ISBN 978-5-89513-295-1
2. Ž. Jaćimović, M. Kosović, A. Radović, " Structural characterization of tautomers of 3-

Amino-5-hydroxypyrazole", 8th International Conference of the Chemical Societies of the South-East European Countries, Belgrade, Serbia, Jun, 2013, Book of abstracts, page 60, ISBN 978-86-7132-053-5

3. D.Vojta, M. Kosović, M. Đaković, A. Višnjevac, Z. Leka, "Preparation and spectral characterization of Pt(II) and Pt(IV) dithiocarbamate complexes", " , 8th International Conference of the Chemical Societies of the South-East European Countries, Belgrade, Serbia, Jun, 2013, Book of abstracts, page 31, ISBN 978-86-7132-053-5

4. A. Višnjevac, D. Vojta, M. Kosović, M.Đaković and Z. Leka:" In situ Co(II) oxidation upon coordination to the dithiocarbamate derivative" 8th European Crystallographic Meeting, ECM 28, UK, 2013 Acta Cryst (2013). A69, page s633

5. M.Kosović, B.Petrović, Ž.Jačimović, Ž.D.Bugarčić, " Sinteza i karakterizacija novih kompleksa Pt(II) sa derivatima pirazola" , 51st Meeting of the Serbian Chemical Society and 2nd Conference of the Young Chemists of Serbia, Serbia, Jun 2014, Book of abstracts, page 7, ISBN 978-86-7132-054-2

6. Ž.Jačimović, A.Radović, M.Kosović, N.Latinović: " Influence of newly synthesized Cu(II) complexes on the pyrazole based derivatives on inhibition of B. Dothidea", 14th European Meeting on Environmental Chemistry, Dec 2013, Budva , Montenegro, Book of abstracts, page 142, ISBN 978-9940-9059-1-0

7. M.Kosović, Ž.Jačimović, M.Pekić, D.Šuković : „The influence of the environment on the quality of olive oil from different locations on Bar, Montenegro " , 14th European Meeting on Environmental Chemistry, Dec 2013, Budva , Montenegro, Book of abstracts, page 143, ISBN 978-9940-9059-1-0

8. Z.Leka, M.Kosović, A.Višnjevac, D.Vojta, N.Latinović: " Inhibition effect of the platinum and palladium dithiocarbamate complexes on phytopathogenic fungus B. Dothidea", International conference protection and restoration of the environment XII, Jun 2014, Skiathos Island, Greece, Book of abstracts, page 173, ISBN 978-960-88490-51

9. Z.B. Leka, M.M. Kosović, N.I. Latinović, M.D. Vrbica, Fungicidne aktivnosti Ni(II) i Cu(II)-dth kompleksa na fitopatogenu gljivu Phomopsis viticola, 53rd Meeting of the Serbian Chemical Society, Book of Abstract,p:63, Kragujevac,Serbia, 10-11 jun 2016. ISBN 978-86-7132-061-0

10. D. Jacimovic, M. Kosovic, D. Sukovic, M. Pekic, Z. Jacimovic,, Ecological entrepreneurship-olive production potentials in Montenegro" International conference GREDIT 2016, April 2016, Skopje, Macedonia, Book of abstracts, page 209, ISBN 978-608-4624-22-6

11. Ž. Jačimović, M. Kosović, G. Giester, Z.Tomić, V.Kastratović, „Influence of different axial ligand and solvent on the aggregation of [Cu(H2dcp)2(L)2] molecules (L=H2O, CH3OH)", 6th European Chemistry Congress, EuCheMS, Seville, Spain, September 2016 book of abstract 1280.

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13. N. Latinović, Ž. Jačimović, J. Latinović, M.Kosović, M. Vlahović, V. Kastratović, " The influence of newly synthesized transition metal complexes based on pyrazole derivatives on the inhibition B. Dothidea under laboratory conditions" , International conference WATER 2018, Constanta, Romania, 2018 book of abstract 61, ISBN 978-606-598-663-3

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