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Broj: 549
Datum: 10.03.2022.god

UNIVERZITET CRNE GORE

SENATU

CENTAR ZA DOKTORSKE STUDIJE

U prilogu akta dostavljam Odluke sa LXXVIII sjednice Vijeća Prirodno-matematičkog fakuteta održane 08.03.2022. godine.

UNIVERZITET CRNE GORE Prirodno-matematički fakultet

D e k a n,
Prof. dr Predrag Miranović

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Broj: 537
Datum: 10.03.2022.god

Na osnovu člana 64 Statuta Univerziteta Crne Gore, a u vezi sa članom 41 stav 1 Pravila doktorskih studija, na LXXVIII sjednici Vijeća PMF-a od 08.03.2022.godine, donijeta je

O D L U K A

I

Utvrđuje se da su ispunjeni uslovi iz člana 38 Pravila doktorskih studija za doktoranda Nedu Bošković..

II

Predlaže se Odboru za doktorske studije sastav komisije za ocjenu doktorske disertacije:

1. Prof. dr Biljana Damjanović - Vratnica, redovni profesor Metalurško-tehnološkog fakulteta Univerziteta Crne Gore (naučna oblast:organska tehnologija, biotehnologija);
2. Prof. dr Nada Blagojević, redovni profesor Metalurško-tehnološkog fakulteta Univerziteta Crne Gore (naučna oblast: instrumentalne metode hemijske analize, analitička hemija, hemija životne sredine);
3. Prof. dr Dragana Milošević, vanredni profesor na PMF-u (naučna oblast: Ihtiologija-morfologija, sistematika i genetika riba);
4. Prof. dr Danijela Joksimović, viši naučni saradnik, Institut za biologiju mora Univerziteta Crne Gore (naučna oblast: hemija mora) i
5. Prof. dr Oliver Bajt, vanredni profesor Fakulteta za hemiju i hemijsku tehnologiju Univerziteta u Ljubljani (naučna oblast: hemija životne sredine)

III

Odluka se dostavlja Odboru za doktorske studije Univerziteta Crne Gore.

UNIVERZITET CRNE GORE Prirodno-matematički fakultet

D E K A N

Prof. dr Predrag Miranović

# ISPUNJENOST USLOVA DOKTORANDA

| OPŠTI PODACI O DOKTORANDU | |
|---|---|
| Titula, ime, ime roditelja, prezime | Mr Neda (Čedomir) Bošković |
| Fakultet | Prirodno-matematički fakultet |
| Studijski program | Zaštita životne sredine |
| Broj indeksa | 01/2018 |

| NAZIV DOKTORSKE DISERTACIJE | |
|---|---|
| Službeni jezik | Procjena ekološkog stanja mora na osnovu sadržaja teških metala i mikroplastike u sedimentu i ribama u priobalnom moru Crne Gore |
| Engleski jezik | Assessment of the ecological state of the sea on the basis of the content of heavy metals and microplastics in sediment and fishes in the coastal sea of Montenegro |
| Naučna oblast | Hemija životne sredine |

| MENTOR/MENTORI | | | |
|---|---|---|---|
| Mentor | Dr Danijela Joksimović, viši naučni saradnik | Univerzitet Crne Gore – Institut za biologiju mora | Hemija mora |
| Ko-mentor | Dr Oliver Bajt, vanredni profesor | Univerzitet u Ljubljani - Fakultet za hemiju i hemijsku tehnologiju | Hemija životne sredine |

| KOMISIJA ZA PREGLED I OCJENU DOKTORSKE DISERTACIJE | | |
|---|---|---|
| Dr Biljana Damjanović Vratnica, redovni profesor | Metalurško-tehnološki fakultet Univerziteta Crne Gore | Organska tehnologija, biotehnologija |
| Dr Nada Blagojević, redovni profesor | Metalurško-tehnološki fakultet Univerziteta Crne Gore | Instrumentalne metode hemijske analize, analitička hemija, hemija životne sredine |
| Dr Dragana Milošević, vanredni profesor | Prirodno-matematički fakultet Univerziteta Crne Gore | Ihtiologija – morfologija, sistematika i genetika riba |
| Dr Oliver Bajt, vanredni profesor | Fakultet za hemiju i hemijsku tehnologiju Univerziteta u Ljubljani | Hemija životne sredine |
| Dr Danijela Joksimović, viši naučni saradnik | Institut za biologiju mora Univerziteta Crne Gore | Hemija mora |

| **Datum značajni za ocjenu doktorske disertacije** | |
|---|---|
| Sjednica Senata na kojoj je data saglasnost na ocjenu temu i kandidata | 11. 11. 2019. g. |
| Dostavljanja doktorske disertacije organizacionoj jedinici i saglasanost mentora | 1. 3. 2022. g. |
| Sjednica Vijeća organizacione jedinice na kojoj je dat predlog za imenovanje komisija za pregled i ocjenu doktorske disertacije | 8. 3. 2022. g. |

## ISPUNJENOST USLOVA DOKTORANDA

U skladu sa članom 38 pravila doktorskih studija doktorandkinja Neda Bošković je dio sopstvenih istraživanja vezanih za doktorsku disertaciju publikovala u dva rada u časopisima sa **SCI/SCIE /SSCI/A&HCI** liste kao prvi autor.

1. **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. J. Mar. Sci. Eng. 2021, 9 (8), 841. https://doi.org/10.3390/jmse9080841

Journal of Marine Science and Engineering
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2. **Bošković, N.**, Joksimović, D., Perošević-Bajčeta, A., Peković M., Bajt, O. (2022) Distribution and characterization of microplastics in marine sediments from the Montenegrin coast. J Soils Sediments. https://doi.org/10.1007/s11368-022-03166-3 (Published: 19.02.2022. on line version)

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Scopus SCI
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**Spisak radova doktoranda iz oblasti doktorskih studija koje je publikovao u časopisima sa (upisati odgovarajuću listu)**

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
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
3. Joksimović, D., Perošević-Bajčeta, A., Martinović, R., **Bošković, N.**, Peković, M. (2020). Procjena rizika i akumulacija metala u sedimentu u Bokokotorskom zalivu. Konferencija „VODE 2020", Zbornik radova 311-317
4. **Bošković, N.**, Joksimović, D., Pešić, A., Perošević, A., Peković, M. (2020). Akumulacija teških metala u mišićnom tkivu barbuna (Mullus barbatus) na Crnogorskom primorju. Konferencija „VODE 2020", Zbornik radova 377-382
5. 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/10.1007/698_2020_690
6. **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, 28 June – 2 July 2021, Lille, France
7. Joksimović, D., Perošević-Bajčeta, A., Martinović, R., **Bošković, N.**, Peković, M. (2021).

Distribution of Heavy Metals in Core Sediment at the Montenegrian coast. 12th International SedNet Conference, 28 June – 2 July 2021, Lille, France

8. **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. J. Mar. Sci. Eng. 2021, 9 (8), 841. https://doi.org/10.3390/jmse9080841
9. **Bošković, N.**, Joksimović, D., Bajt, O. (2021). Zastupljenost mikroplastike u sedimentu Bokokotorskog zaliva. Konferencija „VODE 2021", Zbornik radova 257-262
10. **Bošković, N.**, Joksimović, D., Perošević-Bajčeta, A., Peković M., Bajt, O. (2022) Distribution and characterization of microplastics in marine sediments from the Montenegrin coast. J Soils Sediments. https://doi.org/10.1007/s11368-022-03166-3

**Obrazloženje mentora o korišćenju doktorske disertacije u publikovanim radovima**

Mr Neda Bošković je, kao prvi autor, dio rezultata sopstvenih istraživanja vezanih za doktorsku disertaciju objavila u dva rada koji su publikovani u časopisima indeksiranim na SCI/SCIE listi, kao koautor poglavlje u Monografiji, u 2 nacionalna časopisa kao autor i koautor i 5 radova predstavljenih na međunarodnim naučno-stručnim skupovima.

**Prvi rad** objavljen je u časopisu *Journal of Marine Science and Engineering*, pod naslovom *Microplastics in Surface Sediments along the Montenegrin Coast, Adriatic Sea: Types, Occurrence, and Distribution.* Koautori rada su dr Danijela Joksimović, Milica Peković, dr Ana Perošević-Bajčeta, i prof. dr Oliver Bajt.

**Drugi rad** objavljen je u časopisu *Journal of Soils and Sediments*, pod naslovom "*Distribution and characterization of microplastics in marine sediments from the Montenegrin coast*". Koautori rada su dr Danijela Joksimović, dr Ana Perošević-Bajčeta, Milica Peković, i dr Oliver Bajt.

Oba rada prikazuju rezultate eksperimentalnog istraživanja prisustva, distribucije i identifikacije mikroplastike u površinskom sedimentu sa crnogorskog primorija uzorkovanog prvi rad tokom jeseni 2019. godine a drugi rad tokom proljeća 2021. godine na deset ispitivanih lokacija. U uvodnom dijelu pomenutih radova 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 istrživanje 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 oba rada 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 prvom 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 je površinski sediment sa crnogorskog primorija zagađen mikroplastikom, kao posledica antropogenih aktivnosti naročito u Bokokotorskom zalivu kojeg karakteriše smanjen kontakt sa otvorenim morem.

Dobijeni rezultati u drugom radu potvrđuju da aktivnosti nakon ljetnje turističke sezone, utiču na povećanu distribuciju mikroplastike u ispitivanom uzorku. Koncentracija mikroplastike tokom proljeća 2021. je dva puta manja u odnosu na mjerenje iz jeseni 2019. Rezultati ove studije i izvedeni zaključci pružaju jasan uvid o zagađenju sedimenta mikroplastikom i od presudnog su značaja za preduzimanje preventivnih mjera za smanjenje nivoa mikroplastike u morskom okruženju.

Mentor je saglasan 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, u okviru koje navodi da je kandidat zadovoljio kriterijume doktorske disertacije propisane Statutom Univerziteta Crne Gore i Pravilima doktorskih studija.

**Datum i ovjera (pečat i potpis odgovorne osobe)**

U Podgorici

Datum 10.3.22.g.

MP

20 DEKAN a

**Prilog dokumenta sadrži:**

1. Odluku o imenovanju komisije za pregled i ocjenu doktorske disertacije
2. Kopiju publikovanog rada i impresum časopisa sa odgovarajuće liste
3. Biografiju i bibliografiju kandidata
4. 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
5. Potvrdu o dostavi doktorske disertacije organizacionoj jedinici

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Broj: 486
Datum: 01.03.2022.god

Na osnovu člana 33 Zakona o upravnom postupku, nakon uvida u službenu evidenciju, Prirodno matematički fakultet izdaje

P O T V R D U

MSc Neda Bošković, student dktorskih studija na Prirodno matematičkom fakultetu u Podgorici, dana 01.03.2022. godine dostavila je ovom fakultetu doktorsku disertaciju pod nazivom: "Procjena ekološkog stanja mora na osnovu sadržaja teških metala i mikroplastike u sedimentu i ribama u priobalnom moru Crne Gore" na dalje postupanje.

DEKAN
Prof. dr Predrag Miranović

UNIVERZITET CRNE GORE

PRIRODNO-MATEMATIČKI FAKULTET

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

SAGLASNOST

Ovim putem dajemo saglasnost da rad pod nazivom "*Procjena ekološkog stanja mora na osnovu sadržaja teških metala i mikroplastike u sedimentu i ribama u priobalnom moru Crne Gore*" autorke mr Nede Bošković, zadovoljava kriterijume doktorske disertacije propisane Statutom Univerziteta Crne Gore i Pravilima doktorskih studija.

Mentor:

Dr Danijela Joksimović

Komentor:

Prof. dr Oliver Bajt

Datum i mjesto:

01.03.2022. Podgorica

Journal of
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*Article*

# Microplastics in Surface Sediments along the Montenegrin Coast, Adriatic Sea: Types, Occurrence, and Distribution

**Neda Bošković [1,*], Danijela Joksimović [1], Milica Peković [1], Ana Perošević-Bajčeta [1] and Oliver Bajt [2,3]**

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**Abstract:** Considering that microplastics are widespread in the marine environment, in this study we evaluated the presence, identify distribution, abundance, shape type, and color of microplastics in surface sediment along the Montenegrin coast, on the Adriatic Sea. These preliminary results provide the first published record of microplastics found in the surface sediment of this area and highlight the importance of microplastics as a component of marine debris. We documented the presence of microplastics at all sampling locations. The identification of polymer types was performed using Fourier-transform infrared (FTIR) spectroscopy, whereby the presence of three polymer types became evident: polypropylene (54.5%), polyethylene (9.7%), and acrylate copolymer (2.0%). Another 22.2% of particles were unidentified polymers, and the remaining 11.5% were non-synthetic materials. The most common shape type of microplastics was filaments (55.5%), followed by granules (26.3%), fragments (14.9%), and films (3.3%). The dominant colors of microplastics followed the order: blue > yellow > red > clear > black > green > blue-white > white. The average abundance of microplastics in all sampling locations was 609 pieces of microplastic/kg of dry sediment. Compared with other studies, the surface sediment of the Montenegrin coast is moderately to highly polluted with microplastics, depending on the examined location.

**Keywords:** microplastics; sediment; FTIR-ATR; Montenegro; Adriatic Sea



**Citation:** Bošković, N.; Joksimović, D.; Peković, M.; Perošević-Bajčeta, A.; Bajt, O. Microplastics in Surface Sediments along the Montenegrin Coast, Adriatic Sea: Types, Occurrence, and Distribution. *J. Mar. Sci. Eng.* **2021**, *9*, 841. https://doi.org/10.3390/jmse9080841

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## 1. Introduction

Plastic production has increased around the world due to its useful properties; hence, there has been an increase in plastic waste and global plastic pollution [1]. According to Cole et al. [2], in the marine environment, plastic is considered the main "ingredient" of marine waste. For this reason, it is not surprising that plastic particles of different sizes and shapes are found in all segments of marine ecosystems around the world [3]. It has been estimated that 20% of plastic waste in the sea comes from sea-based sources (shipping, fisheries, fishing, and oil and gas platforms) [4,5], while as much as 80% comes from land-based sources (municipal waste, industrial activities, improper waste disposal, landfills, tourism, combined sewerage systems, etc.) [6]. The presence of marine plastic litter, which may contain harmful contaminants, poses a potential risk to marine ecosystems, biodiversity, and food availability [7]. Due to the marked growth in the production and use of plastics, there is a need for its identification and analysis in sediments, seawater, and living organisms.

Microplastics (MPs) are defined as plastic particles smaller than 5 mm [8]. MPs are a relatively new type of pollutant that is widely distributed in the marine environment, so understanding the distribution and accumulation of this form of pollution is crucial for environmental risk assessment [9,10].

The Mediterranean Sea, including the Adriatic Sea, is one of the most heavily polluted marine regions of the world (including microlitter) due to a high degree of urbanization, industrialization, and tourism [11–14]. The Adriatic Sea, shared by seven countries (Italy, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Albania, and Greece), is a relatively small and semi-enclosed basin with a low water recirculation rate, making it particularly susceptible to pollution [15]. Recent studies have reported the presence of high concentrations of MPs in all parts of the Adriatic Sea, on beaches, at the sea surface, in sediments, and in biota [9,16–23], including polypropylene, polyethylene, polyvinyl chloride, polyethylene tetraphthalate and others. After accumulating in sediments, MPs become available to a wide range of benthic organisms, including some commercially important species of crustaceans, cephalopods, echinoderms, shellfish, fish and others. [24].

Taking into account that MPs are one of the descriptors of the Marine Strategy Framework Directive [25], with the present study we aimed to assess the quantity, distribution, and identification of MPs in the surface sediment along the Montenegrin coast (Adriatic Sea), collected from six locations in Boka Kotorska Bay and four locations from the coastal part of the open sea. We hypothesized the following: (1) MPs are found in all sampling locations; (2) the abundance of MPs is higher in locations in Boka Kotorska Bay, which are characterized by reduced contact with the coastal part of the open sea; and (3) polypropylene (PP) and polyethylene (PE) are the most abundant MPs because they represent polymers with the highest annual demand. The results from this study provide insight about MP pollution in surface sediments of the Montenegrin coast and will serve as a baseline for future comparisons, research, and monitoring of the state of the marine ecosystem and hopefully to protect it.

## 2. Materials and Methods

### 2.1. Sampling Area

Surface sediment samples were collected, during the autumn of 2019, along the Montenegrin coast from six locations in Boka Kotorska Bay—L1 (Dobrota), L2 (Orahovac), L3 (Sveta Nedjelja), L4 (Tivat), L5 (Bijela), and L6 (Herceg Novi)—and four locations from the coastal part of the open sea—L7 (Žanjice), L8 (Budva), L9 (Bar), and L10 (Ada Bojana). The study area and sampling locations are shown in Figure 1. The selection of these locations was based on the differences in tourist activities, population density, and harbors surrounding the locations.

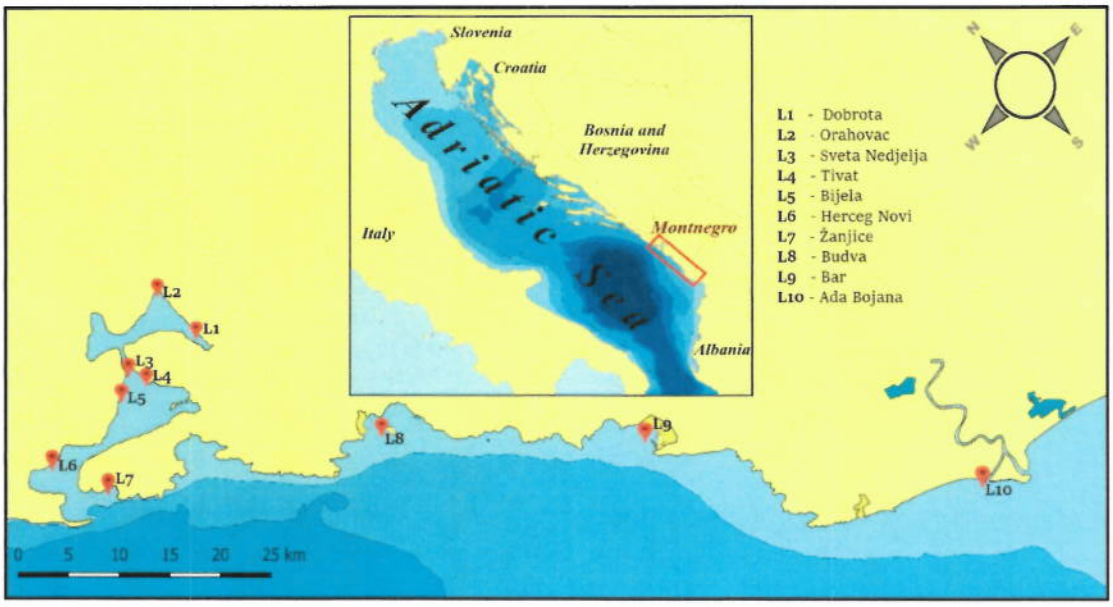


**Figure 1.** Study area and locations of sampling sites.

Dobrota, Tivat, Bijela, and Herceg Novi are the most populated places in the Boka Kotorska Bay; they are characterized by developed tourism, a large number of restaurants, hotels, beach bars, and intensive fishing activities. These locations are a waterway and a stopover for tourist boats and yachts that sail into the Boka Kotorska Bay throughout the year. By contrast, Orahovac and Sveta Nedjelja represent small, quiet, and sparsely populated fishing villages. Žanjice is an uninhabited area, but in the summer months it is a well-known tourist destination with a large number of restaurants and beach bars. Budva is also known as the "tourist metropolis of Montenegro", while Bar is mostly characterized by the presence of a port into which enter cargo container ships, bulk carriers, tankers, and passenger ships of various dimensions. Ada Bojana is a river island formed by the river of the same name at the estuary in the Adriatic Sea. The Bojana River flows through Montenegro and Albania and carries with it a great pollution potential.

Sediment samples (upper 5 cm) were collected using a Van Veen grab sampler and transferred to the laboratory. To prepare those sediment samples for analysis, after the homogenization which was carried out by conning and quartering, the samples (about 500g) were frozen at −18 °C in aluminum containers, after which they were freeze-dried at −40 °C for 48 h (Alpha 2-4 LD plus, CHRIST, Hagen, Germany) to prepare aliquots for MP extraction.

### 2.2. Separation of MPs Particles (MPPs)

After freeze-drying, samples were subjected to density separation. To isolate MPs from sediments, we used concentrated NaCl solution as proposed by Thompson et al. [26]. In a glass jar (1 L), 100 g of dry sediment and 0.5 L of concentrated NaCl solution (concentration 5.475 mol/L, density 1.2 g/cm$^3$, solubility 360 g in 1 L of water) were added. For 2 min, the sample was manually shaken vigorously and left to sediment for 24 h. Subsequently, the solution was decanted, and the supernatant, which contains the MPs, was sieved through a 63 µm steel sieve. With Mili-Q water, the material retained on the sieve was rinsed in a glass Petri dish. The procedure was repeated two times for each sample. The solutions were filtered using a vacuum pump on to Grade C glass fiber filters, stored in Petri dishes, and left to dry (ambient temperature) before the visual analysis. No MPs were identified under the 63 µm sieve. The MPPs in the samples ranged from 0.1 to 5 mm in size, which is within the definition of MPs [8], so there was no significant loss of MPs using a 63 µm sieve.

### 2.3. Visual Identification of MPPs

MPs in sediment samples were identified and counted based on their shape and color according to protocols developed and recommended by Frias et al. [27]. An Olympus SZX16 imaging microscope (with DP-Soft software) was used for visual identification. Images of the MPs were taken using ImageJ software (ver. 2.0.0). MPs can be of different colors: clear, white, blue, green, yellow, red, black, etc. [28]. According to the shape, MPs were categorized as granules, films, filaments, or fragments [16,28]. Granules have a regular round shape and usually a smaller size; these include pellets or resins. Films are thin, flexible, and usually transparent compared with fragments. Filaments are thread-shaped, oblong, and may look like strips. Fragments are irregularly shaped particles, rigid, thick with sharp curved edges [16,29,30]. To reduce errors, we followed the guidelines given by Hidalgo-Ruz et al. [31] during visual identification: no visible organic or cellular structure, the filaments should be of consistent thickness and color along their entire length, the particles should be clear and uniformly colored, and transparent and white particles should be observed under a high-magnification microscope [31]. MPs on the filters were counted three times, with the discrepancy not exceeding 5%. Abundances were calculated as the total number of MPs/kg of dry sediment.

### 2.4. Analysis of Polymer Types

Polymer composition of MPs in sediment samples was analyzed qualitatively using micro Fourier-transformer infrared (µ-FTIR) spectroscopy (Perkin Elmer Spotlight 200i,

attenuated total reflectance (ATR)), making it possible to determine the chemical composition of natural and synthetic (polymer) materials. FTIR offers the possibility for precise identification of polymer particles according to their characteristic IR spectrum [17,32,33]. Polymers were identified by comparing each FTIR spectrum with spectra from a custom polymer library.

### 2.5. Quality Assurance and Quality Control

Contamination in work can cause significant overestimation of quantitative results [34]. Therefore, special attention was paid to preventing and minimizing contamination at all steps: All sampling tools (such as glass sampling containers, metal spatulas, tweezers) and analysis accessories (such as filters, aluminum foil, glass petri dishes) were washed and cleaned just before sampling and analysis, and all analyses were performed quickly to prevent contamination from the air. Samples were exposed to air for only a short amount of time. The entire procedure was performed in a fume hood, which had been cleaned before the work started. The work surfaces were cleaned with high-quality ethanol before each process/activity. Glassware and metal accessories used for each analytical step had been washed and rinsed with Mili-Q water. All utensils and dishes were covered with precleaned aluminum foil immediately after manipulation. After filtration, the filters were stored in glass Petri dishes. Pure cotton lab coats were used at all times, and special attention was paid to limiting synthetic clothing.

### 2.6. Statistical Analyses

We used the PRIMER 7 software to perform permutational multivariate analysis of variance (PERMANOVA) [35], in which data were square-root transformed before analysis on the basis of the Bray–Curtis similarity matrices. The design incorporated two factors: (1) location (L1, L2, L3, L4, L5, L6, L7, L8, L9, and L10) and (2) zone (Boka Kotorska Bay and the coastal part of the open sea). Principal coordinate analysis (PCO) was performed to describe the abundance of different types of plastic polymers among the sampling locations considered and to test our hypotheses about the amount of MP contamination in surface sediment samples along the Montenegrin coast.

## 3. Results

MPs were found in sediment samples from all examined locations, as expected from hypothesis 1. Because the potential MPPs looked similar in terms of morphology (e.g., color, texture, and shape), at least 15% of the collected MPPs from each sample (688 in total) were analyzed for their chemical composition to identify common polymers, representing the most common items in sediment samples from all locations.

Polymer identification by FTIR spectroscopy revealed that 54.5% of the analyzed particles were polypropylene (PP), 9.7% were polyethylene (PE), and 2.0% were acrylate copolymer (AC copol.), while the identity of 22.2% of particles could not be determined. The results showed the presence of polymeric material, different copolymers that are difficult to determine correctly, so we marked them as unidentified polymers. The remaining 11.5% of MPPs were non-synthetic materials, including 5.1% cellulose, 4.9% organic matter, and 1.5% inorganic matter (Table 1).

PP was present at all examined locations, with the largest proportion at L1. PE was present at seven locations, with the largest proportion at L8. AC copol. was present at only three examined locations. Unidentified polymers were observed at eight examined locations, with L6 containing the largest amount; that location also had the highest content of organic matter. Cellulose was identified at nine of the examined locations.

Based on results of chemical identification, which positively identified 88.5% of the analyzed MPPs as plastic, we determined that the corrected average abundance of MPs in all locations was 609 MPs/kg of dry sediment, with the highest MP concentration at L1 (2500 MPs/kg of dry sediment) and the lowest at L2 (150 MPs/kg of dry sediment). The

mean concentrations of MPs in the surface sediments of the Montenegrin coast were in the descending order L1 > L6 > L8 > L5 > L7 > L10 > L4 > L3 > L9 > L2.

**Table 1.** The results of the polymer identification using attenuated total reflectance–Fourier-transform infrared spectroscopy, tested in 100 g of dry sediment for each location.

| Location | Plastic Materials | | | | Total |
|---|---|---|---|---|---|
| | PP | PE | AC Copol. | Unidentified | (MPs/100 g) |
| L1 * | 246 | 0 | 4 | 0 | 250 |
| L2 * | 5 | 8 | 0 | 2 | 15 |
| L3 * | 11 | 5 | 0 | 4 | 20 |
| L4 * | 14 | 7 | 0 | 5 | 26 |
| L5 * | 21 | 14 | 8 | 0 | 43 |
| L6 | 26 | 0 | 0 | 95 | 121 |
| L7 | 15 | 0 | 0 | 17 | 32 |
| L8 | 18 | 15 | 0 | 25 | 58 |
| L9 | 8 | 6 | 0 | 2 | 16 |
| L10 | 11 | 12 | 2 | 3 | 28 |

* [36].

In the study by Bošković et al. [36], preliminary results of visual identification of MPs in sediments at sites L1, L2, L3, L4 and L5 were published, while in this study the confirmed results of visual identification, abundance of different shape types and colors of MP particles and, most importantly, chemical identification of polymers are presented. Moreover, all data related to the other five locations (L6, L7, L8, L9 and L10) are presented for the first time in this paper.

The PCO performed on data collected in this study showed that two factors (PCO1 and PCO2) explained 91.6% of the total variance in the data matrix (Figure 2). PCO1 accounted for 53.6% of the variation while PCO2 accounted for 38.0% of the variation.

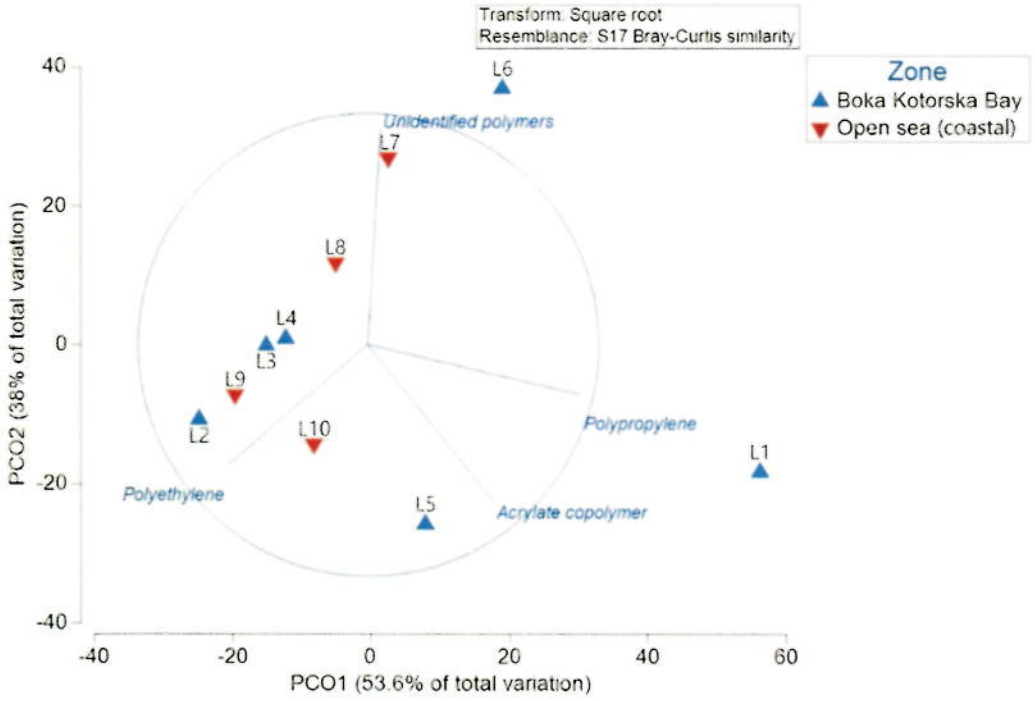


**Figure 2.** Polymer abundances evaluated at each sampling locations using principal coordinate analysis (PCO).

Based on Figure 2 and Table 1, we noticed that L1 was the most polluted location, with the highest concentration of PP and the presence of AC copol., while L6 was the second

most polluted location, where unidentified polymers were dominant, and according to the position within the coordinates, the second dominant factor was PP. In L8, the abundance varied according to the three polymers, so the pollution at this location was higher than L7 due to the concentration of PE especially, which is presented in the lower part of the graph, in contrast to unidentified polymers. The relationship with PP classified this location in the positive quadrant of PCO2. The value observed in L5 showed that PE, PP, and AC copol. were dominant, while at L7 PP and unidentified polymers were the most abundant. Other locations that are close to the zero coordinates of the graphs move in descending order in terms of the amount of MP pollution: L10 > L4 > L3 > L9 > L2. There were no significant correlations ($p > 0.05$) between either of the attached communities, that is, the abundance of plastic polymers and the sampling locations. In future research, more sediment samples at the same location should be tested to increase statistical significance when examining potential relationships.

Considering the shape type, filaments (55.5%) were most common, followed by granules (26.3%), fragments (14.9%), and films (3.3%). Filaments and fragments were found at all examined locations, granules were identified at seven locations (L3, L4, L5, L6, L7, L8, and L10), and films were found at five sampling locations (L1, L3, L4, L5, and L8). Only four locations (L3, L4, L5, and L8) had all four shapes. Filaments were the most dominant shape at L1 (98%), followed by L2 (80%), L9 (56.3%), L10 (53.6%), and L4 (34.6%). The percentage of filaments in L1 was the highest compared with the other examined locations. Fragments were the most dominant shape type at L7 and L3, with 50% and 35%, respectively, while granules were the most dominant shape type at L6, L8, and L5, with 76%, 46.5%, and 39.5%, respectively. Table 2 and Figure 3 show the classification of MP particles according to (a) shape and (b) color.

The most frequent MP color in all studied locations was blue (50.1%), followed by yellow (22.7%), red (11.7%), clear (8.2%), black (4.3%), blue-white (1.5%), green (1.3%), and white (0.3%) (Table 2). The majority of filaments were blue, followed by clear, black, and red. Granules were dominated by yellow and red; fragments by red, blue, and yellow; and films by blue. Examples of collected MPs obtained under a microscope are present in Figure 4. Non-plastic particles were mostly transparent alongside red filaments, yellow fragments, and films.

**Table 2.** Shape type and colors of MPPs identified in all samples by visual inspection, tested in 100 g of dry sediment for each location.

| Type of Shape | Color | Location | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 |
| Filaments | Clear | 27 | 0 | 3 | 2 | 6 | 3 | 0 | 2 | 1 | 0 |
| | Blue | 212 | 4 | 2 | 7 | 7 | 5 | 6 | 8 | 5 | 11 |
| | Red | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 3 | 0 |
| | Black | 6 | 8 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 |
| Fragments | Blue | 0 | 0 | 2 | 2 | 0 | 2 | 4 | 3 | 6 | 5 |
| | Red | 0 | 0 | 2 | 3 | 2 | 12 | 8 | 10 | 1 | 0 |
| | Blue-white | 2 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | White | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Green | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | Yellow | 0 | 0 | 0 | 0 | 1 | 7 | 4 | 0 | 0 | 4 |
| Films | Blue | 3 | 0 | 3 | 3 | 2 | 0 | 0 | 3 | 0 | 0 |
| | Green | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 |
| Granules | Clear | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| | Red | 0 | 0 | 2 | 4 | 9 | 5 | 0 | 4 | 0 | 2 |
| | Black | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 |
| | Yellow | 0 | 0 | 0 | 0 | 0 | 87 | 10 | 23 | 0 | 2 |
| Total (MPs/100 g) | | 250 | 15 | 20 | 26 | 43 | 121 | 32 | 58 | 16 | 28 |

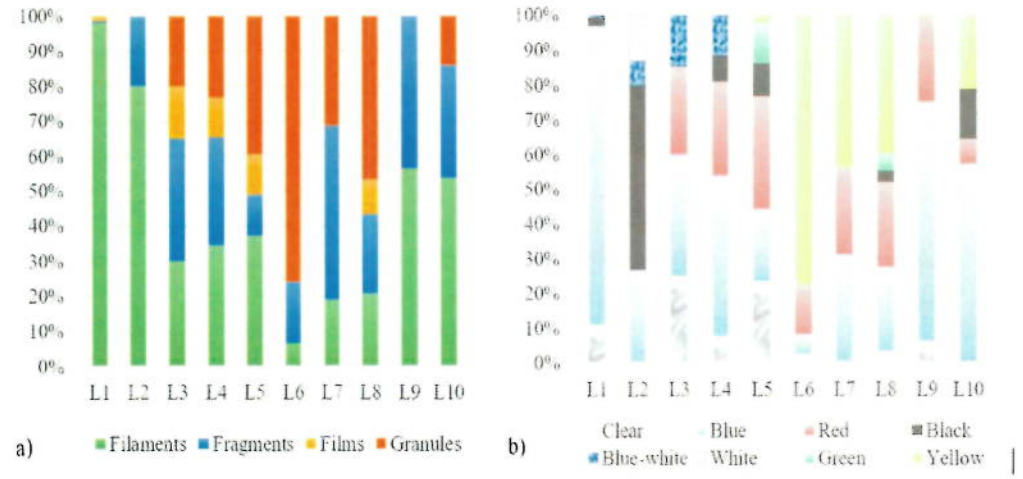


**Figure 3.** Classification of MPs (in %) according to (**a**) shape type and (**b**) color.

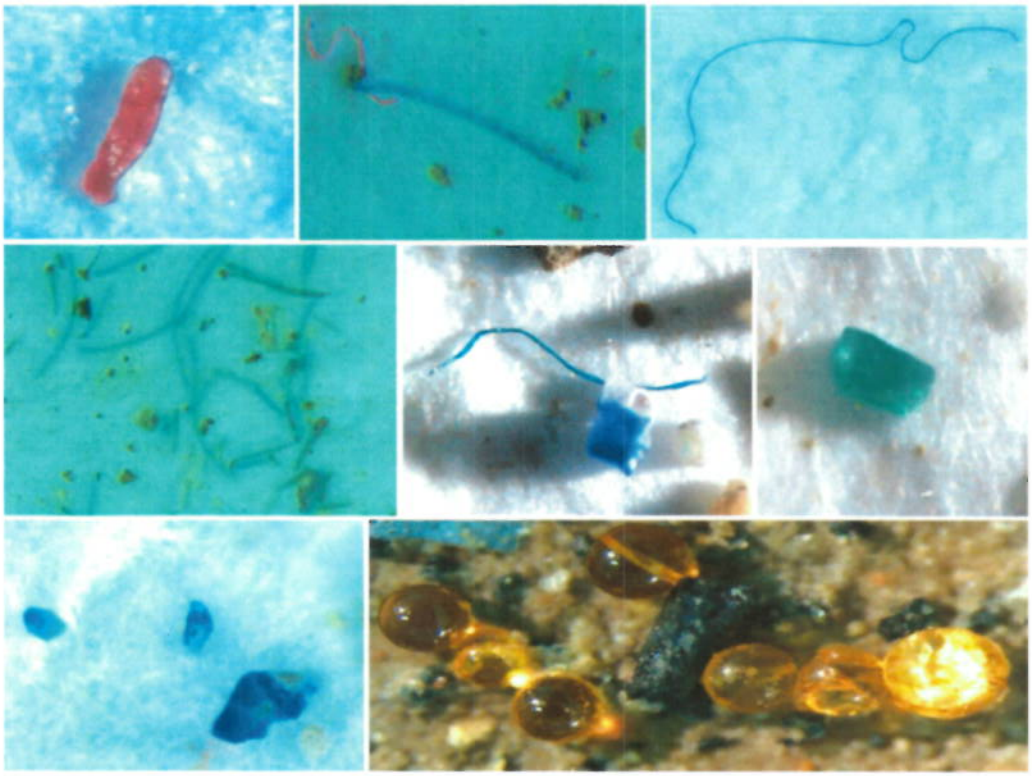

**Figure 4.** Examples of the collected MPs observed under a microscope. The images were obtained using ImageJ software (version 2.0.0).

## 4. Discussion

The relative contribution of different shapes of MP recovered from sediment samples at each location on the Montenegrin coast showed that filaments were most common (55.5%), followed by granules (26.3%), fragments (14.9%), and films (3.3%). Filaments are mainly derived from the breakage of fishing lines, wastewater, domestic outflows, and from fabric and textile industrial production [14,37]. The source of granules could be certain types of hand cleaners, cosmetic preparations, and some cleaning media [16]. The high number of fragments is related to the breakdown of larger plastic debris. The presence of films indicates that these locations are contaminated with plastic coming from packaging, bags, or wrappers [10].

In the present study, 73.7% of MPs (filaments, fragments, and films) were secondary MP products derived from the degradation and fragmentation of larger plastics through biodegradation processes, photolysis, thermal oxidation, thermal degradation, and mechanical forces. A smaller percentage (26.3%) was identified as primary MPs (granules). Arthur et al. [38] emphasized that for management purposes, it is crucial to have information about the potential sources of MPs given that control strategies differ according to the source and origin.

Previous studies have reported that filaments were the dominant type of MP in sediments [16,26], which is consistent with our results. For example, in sediment samples from the Central Adriatic Sea, Mistri et al. [12,37] revealed that the dominant shape of MP was filaments. Blăsković et al. [9] made similar observations, stating that filaments were the principal form of MP pollution (90%) in sediment samples from the Eastern Adriatic Sea. In the North Adriatic Sea, 96% of the primary MPs in samples of infralittoral sediment were filaments [18].

The collected MPs presented different colors, and colored particles were found in all locations. The detected colors of MPs were in the following order: blue > yellow > red > clear > black > green > blue-white > white, findings that are consistent with other studies on MPs [39–42]. Colored particles of MPs are very attractive to marine biota and similar to natural prey, and are, therefore, very often replaced with food [43]. We conclude that MPPs, based on the presence of different shapes and colors, may have originated from different sources and have different origins, as indicated by Munari et al. [21].

FTIR analysis showed the presence of three polymer types: PP (54.5%), PE (9.7%), and AC copol. (2%). The higher abundance of PP and PE supported hypothesis 3. Overall, 22.2% of particles were marked as unidentified and the remaining 11.5% were non-synthetic materials. Our findings are consistent with Vianello et al. [17], who revealed that PE and PP are the most frequently found polymers, accounting for more than 82% of MPs in sediment from the Venetian Lagoon in Italy. Duis and Coors, Frère et al., and Abidli et al. [10,44,45] also revealed that PE and PP are the most frequently found polymers. PP and PE are two polymers with very high annual demand; hence, it is not surprising that they are the most common polymers found in marine environments around the world, as well as in the Adriatic Sea. These polymers have a wide range of applications (domestic and industrial), most commonly used for packaging that is used once and then discarded, for textile production, disposable bags, ropes, fishing gear, automotive components, production of furniture parts, computer parts, electronic components, household goods, and other products [14,16,37,46]. AC copol. provides excellent water resistance and is widely used in the cosmetic industry for sunscreen, skin care products, hair care products, shaving creams, body wash, and moisturizers [47].

Compared with literature data for the Adriatic Sea and around the world, the average abundance of MPs found in all sediment samples of this study (609 MPs/kg of dry sediment) was lower than that reported for the Adriatic Sea, Italy [17]; the Pacific Ocean, Japan [48]; and the Mediterranean Sea, Tunisia [41]. By contrast, we found similar values to those reported in the North Sea, Belgium [49]. The concentrations of MPs in this study were higher than measured for sediment samples from the Adriatic Sea, Croatia, Slovenia, and Italy [9,14,18,50–52] as well as the Mediterranean Sea, Spain, Tunisia, and Italy [10,30,53,54]. Moreover, the average abundance of MPs in this study was higher than that observed in the North Sea, Belgium, the Netherlands, England and France [16,49]; the Baltic Sea, Russia [55]; the Atlantic Ocean, Argentina [42]; and the Indian Ocean, Iran [56] (Table 3).

The abundance of MPs we measured along the Montenegrin coast confirmed hypothesis 2. We expected higher concentrations of MPs in the sediment at locations in Boka Kotorska Bay (L1, L4, L5, and L6), which are characterized by reduced contact with the open sea, in relation to locations from the coastal part of the open sea (L7, L8, L9, and L10). In our study, L1, which is situated in Boka Kotorska Bay, was the most contaminated location (2500 MPs/kg of dry sediment). Higher concentrations of MPs in sediment were attributed to areas with higher population densities, enclosed harbor areas (Port of Kotor),

tourist locations, and a high density of restaurants and fishing activities; these features characterize L1. This location is a waterway and a stopover for a large number of cruisers and yachts that enter throughout the year, and this all can significantly affect the quality of marine sediment and contribute to pollution [57]. Many authors suggest these factors are some of the main sources of MPs in the marine environment [10,16,39,41,58,59].

**Table 3.** Comparison of MPs concentrations in marine sediments found in this study and from previous studies in the literature.

| Location | Water Body | Habitat | No. of Surveyed Stations | Mean Concentration (MPs/kg of Dry Sediment) | Reference |
|---|---|---|---|---|---|
| Montenegro | Adriatic Sea | Surface sediment | 10 | 609 | Present study |
| Croatia | Adriatic Sea | Surface sediment | 10 | 177.61 | [9] |
| Croatia | Adriatic Sea | Surface sediment | 7 | 310 | [51] |
| Croatia | Adriatic Sea | Seabed | 20 | 360 | [14] |
| Croatia | Adriatic Sea | Surface sediment | 17 | 245.6 | [52] |
| Slovenia | Adriatic Sea | Infralittoral | 6 | 170.4 | [18] |
| Italy | Adriatic Sea | Lagoon | 10 | 1445.2 | [17] |
| Italy | Adriatic Sea | Surface sediment | 7 | 254.57 | [50] |
| Italy | Mediterranean Sea | Coastal sediment | 9 | 272.8 | [54] |
| Italy | Mediterranean Sea | Seafloor | 29 | 1.7 | [53] |
| Tunisia | Mediterranean Sea | Surface sediment | 4 | 7960 | [41] |
| Tunisia | Mediterranean Sea | Surface sediment | 2 | 242 | [10] |
| Spain | Mediterranean Sea | Shallow sediments | 6 | 499.065 | [30] |
| Belgium | North Sea | Harbor | 11 | 166.7 | [16] |
| Belgium | North Sea | Surface sediment | 7 | 585.29 | [49] |
| Netherlands | North Sea | Surface sediment | 11 | 224.5 | [49] |
| England | North Sea | Surface sediment | 4 | 306 | [49] |
| France | North Sea | Surface sediment | 5 | 481.2 | [49] |
| Russia | Baltic Sea | Bottom sediment | 7 | 34 | [55] |
| Argentina | Atlantic Ocean | Seafloor | 7 | 182.85 | [42] |
| Japan | Pacific Ocean | Surface sediment | 2 | 1800 | [48] |
| Iran | Indian Ocean | Surface sediment | 5 | 61 | [56] |

The lower abundance of MPs in the sediment from L4 (260 MPs/kg of dry sediment), Boka Kotorska Bay, was surprising because it is a tourist destination located in the luxury marina Porto Montenegro. There were similar lower abundances of MPs at L9 (160 MPs/kg of dry sediment) and L10 (280 MPs/kg of dry sediment), the coastal part of the open sea. At L7 (320 MPs/kg of dry sediment), also the coastal part of the open sea, the presence of MPs in the analyzed sediment was higher than expected. The results could be related to strong sea currents, waves, and winds, all of which might translocate MPs in surface sediment far away from its source, leading to a reduction or accumulation of MPs in certain locations [10,13,14,18,30,41,60]. The low concentrations of MPs in the sediments from L2 (150 MPs/kg of dry sediment) and L3 (200 MPs/kg of dry sediment) might be related to the low population density in this part of the coast compared with the other locations. In addition, L2 receives input of fresh water from the Ljuta River, which might transport MPs to other parts of Boka Kotorska Bay and into the Montenegrin coast. In this context, Laglbauer et al. [18] and Zeri et al. [61] suggested that the input of fresh water could be a crucial factor affecting the distribution of MPs in marine environments. The occurrence of MPs at L5, L6, and L8—with 430, 1210, and 580 MPs/kg of dry sediment, respectively—is in line with the expected results, considering that they represent tourist centers, are characterized by high population density and intensive fishing activity, and have notable wastewater discharges.

MPs can be discharged into the sea indirectly via wastewater [21,41,59]. We emphasize that the issue of wastewater treatment has not been completely solved on the Montenegrin coast. Furthermore, Montenegro has a problem with the management and storage of municipal waste, which can significantly affect the quality of marine sediment and contribute to pollution. Six Montenegrin municipalities are geographically located along

the south Adriatic coastline (Kotor, Tivat, Herceg Novi, Budva, Bar, and Ulcinj). In these municipalities, apart from the permanent population, there is dynamic tourism, which causes a higher inflow of wastewater [62]. There are eight sea outfalls in the municipality of Kotor, three each in the municipalities of Budva and Bar, two in the municipality of Ulcinj and one each in the municipalities of Tivat and Herceg Novi. In addition to major sea outfalls, there are many uncontrolled local discharges. More of the outfalls in the coastal region of Montenegro are old and in poor operational condition, deficient, and have been earmarked for replacement or termination. In addition to wastewater from the coastal region, a portion of wastewater from the central region of Montenegro flows into the Adriatic Sea [62].

L1, which was the most polluted location in terms of the occurrence of MPs in the surface sediment, receives the largest number of wastewater discharges. In such a context, Browne et al. [59] concluded that up to 80% of MPs in sediment originate from the discharge of wastewater into marine environments.

Compared with the literature data, the MP concentrations in surface sediment of the 10 sampling locations of the present study, with the exception of L1, where extreme MPs values were recorded in the sediment, were medium to moderately contaminated with MPs. The occurrence and distribution of MP contamination in the sediments at our sampling locations can be related to several factors: dense populations, tourist and fishing activities, wastewater discharges, passenger ships, harbors, freshwater inflows, strong currents, winds, and waves. Many authors have reached similar conclusions [8,10,16,41,56,59].

## 5. Conclusions

We have provided evidence of the presence of MP contamination in surface sediments along the Montenegrin coast, contributing to the knowledge of MPs' distribution and abundance. MPs were present in all samples of surface sediment, with an average concentration of 609 MPs/kg of dry sediment, which is a relatively high MP concentration compared with what has been reported for other parts of the Mediterranean Sea. The most abundant shape of MP in the present study was filaments, a finding that is consistent with the literature, while blue was the most common color. Considering the polymer type, PP was present at all sampling locations, while PE was present at seven of ten sampling locations. Our results showed the highest concentrations of MPs were in locations in the vicinity of highly populated centers, municipal effluent discharge restaurants, fishing and tourist activities, and a large number of cruisers that pass throughout the year. We have provided a useful basis for further research to improve waste management policies, wastewater control, transport control, and other potential effects to reduce plastic waste emissions into the marine ecosystem.

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# Curriculum Vitae - CV

## LIČNE INFORMACIJE


Neda Bošković

Peka Pavlović, P+4, 81400, Nikšić, Crna Gora

+38268722532

nedaboskovic93@gmail.com


Pol: Ženski

Datum rođenja: 01/03/1993

Državljanstvo: Crnogorsko

## ZVANJE

Master analitičar zaštite životne sredine
Stručno lice za obavljanje poslova zaštite na radu

## RADNO ISKUSTVO

**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 hemisjkih parametara morske vode, sedimenta i biote
- Terenski rad, uzorkovanja
- Laboratorijske analize
- Očuvanje i zaštita životne sredine

**2018 (23.01. – u toku)**

**Stručno lice za obavljanje poslova zaštite na radu**

Centar za bezbjedonosna, sociološka i kriminološka istraživanja Crne Gore, "Defendologija" Nikšić

- Poslovi zaštite i zdravlja na radu
- Obuke o bezbijednom 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 u projektima**

NVO Ekološki pokret "Ozon", Nikšić

- Poslovi zaštite životne sredine
- Regulisanjem 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
- Vođenje registara, protokola

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# Curriculum Vitae - CV

2014-2015
(01.07.-01.09.2015)
(12.07.-12.09.2014)

### Pomoćnik EHS menadzeru

Pivara "Trebjesa", Nikšić

- 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.

## OBRAZOVANJE I OBUKE

Nivo obrazovanja

### ISCED 7

Međunarodna standardna klasifikacija obrazovanja

2021.- u toku

### Doktorske studije

Univerzitet Crne Gore
Centar za doktorske studije Crne Gore
Studisjki program: Održivi razvoj

2018. – u toku

### Doktorske studije

Univerzitet Crne Gore
Prirodno-matematički fakultet, Podgorica
Studisjki program: Zaštita životne sredine
Tema disertacije: *„Procjena ekološkog stanja mora na osnovu sadržaja teških metala i mikroplastike u sedimentu i ribama u priobalnom moru Crne Gore"*
Prosječna ocjena A (10.00)

2018

### Položen stručni ispit za poslove zaštite na radu

Ministarstvo rada i socijalnog staranja, Crna Gora

2017

### Položen stručni ispit za rad u državnim organima

Uprava za kadrove, Crna Gora

2017

### Master analitičar zaštite životne sredine

Univerzitet Novi Sad
Prirodno-matematički fakultet, Novi Sad
Tema master rada: *„Određivanje uticaja i potencijala primjene nano gvožđa sintetizovanog iz lišća duda i hrasta u elektrokinetičkoj remedijaciji"*
Prosječna ocjena A (10.00)

2016

### Stepen Specijaliste (Spec.App) Zaštita životne sredine

Univerzitet Crne Gore
Metalurško-tehnološki fakultet, Podgorica
Tema spec rada: *„Rezidue veterinarskih ljekova u mlijeku"*
Prosječna ocjena A (10.00)

2015

### Stepen Bachelor (BApp) Zaštita životne sredine

Univerzitet Crne Gore
Metalurško-tehnološki fakultet, Podgorica
Prosječna ocjena A (9.61)

## 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 |

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# Curriculum Vitae - CV

**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**

- 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

**Ostalo**

Nostrifikovala diplomu master studija završenih na Univerzitetu u Novom Sadu u Ministarstvu prosvjete Crne Gore

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

**Sertifikati**

Sertifikat o poznavanju engleskog jezika, nivo B2 (izdao: Filološki fakultet Crne Gore)

**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. godina
- "*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

**Konferencije**

- VODA 2020" u organizaciji Srpskog društva za zaštitu voda, Trebinje 19 - 21. novembra, 2020. godine
- 12th International SedNet Conference, 28 June – 2 July 2021, Lille, France

Naučne publikacije

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
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
3. Joksimović, D., Perošević-Bajčeta, A., Martinović, R., **Bošković, N.**, Peković, M. (2020). Procjena rizika i akumulacija metala u sedimentu u Bokokotorskom zalivu. Konferencija „VODE 2020", Zbornik radova 311-317
4. **Bošković, N.**, Joksimović, D., Pešić, A., Perošević, A., Peković, M. (2020) Akumulacija teških metala u mišićnom tkivu barbuna (*Mullus barbatus*) na Crnogorskom primorju. Konferencija „VODE 2020", Zbornik radova 377-382
5. Joksimović, D., Perošević-Bajčeta, A., Pestorić, B., Martinovič, 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/10.1007/698_2020_690
6. **Bošković, N.**, Joksimović, D., Bajt., O., Perošević-Bajćeta, A., Peković, M. (2021) Distribution and characterization of microplastics in the marine sediments from the Montenegrin coast. 12th International SedNet Conference, 28 June – 2 July 2021, Lille, France
7. Joksimović, D., Perošević-Bajćeta, A., Martinović, R., **Bošković, N.**, Peković, M. (2021) Distribution of Heavy Metals in Core Sediment at the Montenegrian coast. 12th International SedNet Conference, 28 June – 2 July 2021, Lille, France
8. **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. J. Mar. Sci. Eng. 2021, 9, 841. https://doi.org/10.3390/jmse9080841
9. **Bošković, N.**, Joksimović, D., Bajt. O. (2021) Zastupljenost mikroplastike u sedimentu Bokokotorskog zaliva. Konferencija „VODE 2021", Zbornik radova 257-262
10. **Bošković, N.**, Joksimović, D., Perošević-Bajčeta, A., Peković M., Bajt, O. (2022) Distribution and characterization of microplastics in marine sediments from the Montenegrin coast. J Soils Sediments. https://doi.org/10.1007/s11368-022-03166-3

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Broj / No 05 - 3809
Crna Gora / Date 08. 12. 2016

UNIVERZITET CRNE GORE
METALURŠKO-TEHNOLOŠKI FAKULTET

| Primljeno: 21.12.2016. | | | |
|---|---|---|---|
| Org. jed. | Broj | Prilog | Vrijednost |
| | 2326 | | |

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore" br. 44/14, 47/15,40/16) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 08.decembra 2016.godine, donio je

# O Đ L U K U
# O IZBORU U ZVANJE

**Dr Biljana Damjanović Vratnica** bira se u akademsko zvanje **redovna profesorica Univerziteta Crne Gore** za predmete **Organska hemijska tehnologija I, Organska hemijska tehnologija II i Hemijski reaktori** na postdiplomskom specijalističkom akademskom studijskom programu Hemijska tehnologija **na Metalurško-tehnološkom fakultetu**, na neodređeno vrijeme.

REKTOR

Prof. Radmila Vojvodić

**Dr Biljana Damjanović-Vratnica, redovni profesor**
**Metalurško-tehnološki fakultet, Univerzitet Crne Gore**

Dr Biljana Damjanović-Vratnica je dodiplomske studije završila 1996. godine na Metalurško-tehnološkom fakultetu, Univerzitet Crne Gore, magistrirala 2000. godine na Odsjeku Biotehnologije i biohemijskog inžinjerstva, Tehnološko-metalurški fakultet, Univerzitet u Beogradu i doktorirala 2005. godina, na Odsjeku Biotehnologije i farmaceutskog inžinjerstva, Tehnološki fakultet, Univerzitet u Novom Sadu ("Ispitivanje ekstrakcije ploda maslačka (*Foeniculum vulgare* Mill.) natkritičnim ugljendioksidom").

U zvanje docenta izabrana je 2006. godine na Metalurško-tehnološkom fakultetu u Podgorici za oblast *Organska hemijska tehnologija*, u zvanje vanrednog profesora 2011. godine na Metalurško-tehnološkom fakultetu u Podgorici a u zvanje redovnog profesora birana je na istom fakuletu 2016. godine.

U toku dosadašnjeg rada bila je angažovana kao predavač na predmetima: Organska hemijska tehnologija sintetičkih proizvoda, Organska hemijska tehnologija prirodnih proizvoda, Tehnologija prerade voća i povrća, Sekundarne sirovine organske hemijske tehnologije, Organska hemijska tehnologija I i II, Tehnologije prirodnih bioaktivnih proizvoda i Hemijski reaktori.

Od početka školske 2006/2007. godine angažovana je na izvođenju nastave i na primjenjenim studijama Zaštite životne sredine na Metalurško-tehnološkom fakultetu. Na Prirodno-matematičkom fakultetu u Podgorici je angažovana od školske 2009/2010. godine na izvođenju nastave na predmetu Biotehnologija u okviru studijskog programa Eksperimentalna biologija i biotehnologija.

Dr Biljana Damjanović-Vratnica bila je mentor mnogih diplomskih, specijalističkih i magistarskih radova a autor je i koautor preko 80 radova koje obuhvataju: naučne radove štampane u časopisima, naučne radove saopšene na naučnim skupovima, istraživačke projekte i studije, udžbenike i monografije. Posjeduje aktivno znanje engleskog jezika, kao i pasivno znanje italijanskog jezika.

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METALURŠKO-TEHNOLOŠKI FAKULTET

| Primljeno: 24.12.2009 | | | |
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| Org. jed. | Broj | Prilog | Vrijednost |
| 09 | 1245 | | |

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Date

Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG br. 60/03.) i člana 18 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 17.12.2009. godine, donio je

# O D L U K U
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**Dr NADA BLAGOJEVIĆ** bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmete: Ispitivanje zagađivača u životnoj sredini i Analitička hemija I na **Metalurško-tehnološkom fakultetu** i Instrumentalne metode na Samostalnom studijskom programu Farmacija.

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***Doktorska disertacija:*** „Analitičko određivanje malih količina metala u legurama primjenom elektrohemijskih tehnika", Centar za multidisciplinarne studije Univerziteta u Beogradu, Beograd, 1998. god.

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**Dr DRAGANA MILOŠEVIĆ** bira se u akademsko zvanje vanredni profesor Univerziteta Crne Gore za oblast **Zoologija kičmenjaka na Prirodno-matematičkom fakultetu**, na period od 5 godina.

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Prirodno-matematički fakultet, Odsjek za Biologiju upisala sam 1996 godine. Diplomirala sam 2001. godine sa prosječnom ocjenom 9,72 i tako stekla zvanje diplomiranog biologa.

Postdiplomske studije na Biološkom fakultetu u Beogradu smjer Citologija upisala sam 2001. godine. Zvanje magistra bioloških nauka stekla sam 22.04.2005. godine odbranom magistarskog rada pod nazivom "Primena histohemijskih metoda u morfološkoj analizi nervnog tkiva elazmobranhija (*Torpedo marmorata* i *Scyliorhinus canicula*) i koštjoriba (*Carassius auratus* i *Serranus scriba*)".

Doktorsku disertaciju pod nazivom: „Morfološka, ekološka i genetička diferencijacija vrsta roda *Rutilus* Rafinesque, 1820 (Teleostei: Cyprinidae) iz Skadarskog jezera", odbranila sam 16.01.2012. godine, na Prirodno-matematičkom fakultetu, Studijski program Biologija, u Podgorici i stekla zvanje doktora bioloških nauka.

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Od 2002. godine zasnovala sam radni odnos na Prirodno-matematičkom fakultetu u Podgorici (Studijski program Biologija). U toku desetogodišnjeg radnog iskustva asistirala sam u laboratorijskim vježbama na predmetima: Sistematika i uporedna anatomija kičmenjaka I i II, Limnologija, Hidrobiologija, Biogeografija i Metode istraživanja u ekologiji na studijskom programu Biologija, Prirodno-matematičkog fakulteta i Ribarstvo na Biotehničkom fakultetu – smjer Stočarstvo. 2013. godine izabrana sam u akademsko zvanje docenta za predmete: Sistematika i uporedna anatomija kičmenjaka I, Sistematika i uporedna anatomija kičmenjaka II na Prirodno-matematičkom fakultetu i Zoologija na Biotehničkom fakultetu, 2018. godine u zvanje vanredni profesor.

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**RADOVI OBJAVLJENI U MEĐUNARODNIM ČASOPISIMA KOJI SE NE NALAZE U BAZAMA PODATAKA, ALI KOJI IMAJU REDOVNU MEĐUNARODNU RAZMJENU I REZIME NA STRANOM JEZIKU**

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Simonović, P., Tošić, A., Škraba Jurlina, D., Nikolić, V., Piria, M., Tomljanović, T., Šprem, N., Mrdak, D., **Milošević, D.**, Bećiraj, A., Dekić, R., Povž, M. Molecular Diversity of Brown trout Salmo cf. trutta (L.) in the River Danube basin of Western Balkans *Journal of Ichthyology*, 57(4): 603-616. ISSN: 0032-9452.

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**MEĐUNARODNI KONGRESI, SIMPOZIJUMI I SEMINARI, RAD ŠTAMPAN U CJELOSTI**

**Milošević, D.** Talevski, T., Pejović, N., Adžić, B. and Marić, D. (2017). Reproductive isolation beetwen two sympatric species from genus Rutilus from Lake Skadar. In: Pešić, V. (ed) 2017. The Proceedings of 7th International Symposium of Ecologists, 4-7 October 2017, Sutomore, Montenegro. ISBN 978-86-908743-6-1

Piria, M., **Milošević, D.**, Šprem, N., Mrdak, D., Tomljanović, T., Matulić, D., Treer, T. (2016): Kondicija Europske jegulje iz Jadranskog sliva Hrvatske i Crne Gore (Condition of European eel from the Adriatic basin of Croatia and Montenegro). 51st Croatian and 11th International Symposium on Agriculture, February 15 – 18, 2016 Opatija, Croatia, Proceedings, 270-273

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**STRUČNA KNJIGA U INOSTRANSTVU**

Freyhof, J., S. Weiss, A. Adrović, M. Ćaleta, A. Duplić, B. Hrašovec, B. Kalamujić, Z. Marčić, **D. Milošević,** D., M. Mrakovčić, D. Mrdak, M. Piria, U. Schwarz, P. Simonović, S. Šljuka, T. Tomljanović, & D. Zabric. 2015. The Huchen Hucho hucho in the Balkan region: Distribution and future impacts by hydropower development. RiverWatch & EuroNatur, 30 pp.

Marčić, Z., Mrdak, D., **Milošević, D.**, Simonović, P., Piria, M., Kalamujić, B., Weiss, S. and Freyhof, J. (2014). Halting the loss of biodiversity – the Huchen in the Danube. *Newsletter of IUCN SSC/WI Freshwater Fish Specialist Group* (Saving freshwater fishes and habitats, 5: 18-19.

**STRUČNA KNJIGA U ZEMLJI**

Stešević, D., **Milošević, D.** i Petrović, D. (u štampi). Vodič kroz živi svijet Durmitora. ISBN 978-86-909-417-8-0. Regionalni centar za životnu sredinu za Centralnu i Istočnu Evropu (REC), Kancelarija u Crnog Gori, 240 pp.

Univerzitet Crne Gore

Na osnovu člana 51, 52 i 53 Zakona o naučnoistraživačkoj djelatnosti ("Službeni list Crne Gore" br. 080/10 40/11 i 057/14 od 26.12.2014) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 09.10.2018.godine, donio je

D O N O S I

O D L U K U
O IZBORU U ZVANJE

Dr **DANIJELA JOKSIMOVIĆ** bira se u naučno zvanje **viši naučni saradnik** za oblast **Hemija** mora u Institutu za biologiju mora Univerziteta Crne Gore, na period od pet godina.

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

europass

**Europass Biografija**

**Lični podaci**

| | |
|---|---|
| Prezime i Ime | **JOKSIMOVIĆ Danijela** |
| Adresa | Dobrota, L2/6, Školski centar, 85 330, Kotor, Crna Gora |
| Telefonski broj | +382 32 334 569 Broj mobilnog telefona: +382 63 204 933 |
| Broj faksa | +382 32 334 570 |
| E-mail | danijela.j@ucg.ac.me |
| Državljanstvo | Crnogorsko |
| Datum rođenja | 27.11.1972. |

**Radno iskustvo**

| | |
|---|---|
| Datum | 01.07.1998 - sada |
| Zanimanje ili radno mjesto | Viši naučni saradnik u Laboratoriji za hemiju mora i okeanografiju<br>Rukovodilac Laboratorije za hemiju mora i okeanografiju |
| Glavni poslovi i odgovornosti | Hemija mora i okeanografija (hidrografija, analiza nutrijenata i ostale fizičko-hemijske analize), Zagadjivanje morskog ekosistema teškim metalima (voda, sediment, biota). Rad na projektima koji imaju za cilj da definišu stanje kvaliteta mora crnogorskog primorja, njegove zaštite kao i poboljšanje upravljanja obalnim regionom. |
| Ime i adresa poslodavca | Univerzitet Crne Gore, Institut za biologiju mora, Put I Bokeljske brigade 68, 85 3330, Kotor, Crna Gora |
| Vrsta djelatnosti ili sektor | Hemija mora- Laboratorija za hemiju mora i okeanografiju |

**Obrazovanje i usavršavanje** **Obrazovanje**

| | |
|---|---|
| Datumi | 2006 - 2012 |
| Naziv dodijeljene kvalifikacije | Doktor tehničkih nauka |
| Glavni predmeti / stečene profesionalne vještine | Instrumentalne analitičke metode, Hemija mora, Indikatori zagađenja ekosistema, Zaštita morskih ekosistema |
| Ime i vrsta organizacije davaoca obrazovanja i osposobljavanja | Univerzitet u Beogradu, Tehnološko-metalurški fakultet |
| Stepen prema nacionalnoj ili međunarodnoj klasifikaciji | Drugi stepen tercijalnog obrazovanja (Nivo 6: ISCED 1997) |
| Datum | 1999-2004 |
| Naziv dodijeljene kvalifikacije | Magistar analitičke hemije |
| Glavni predmeti / stečene profesionalne vještine | Analitička hemija, Hemija mora, Zaštita životne sredine |

| | |
|---|---|
| Ime i vrsta organizacije davaoca obrazovanja i osposobljavanja | Univerzitet u Kragujevcu, Prirodno-matematički fakultet |
| Stepen prema nacionalnoj ili međunarodnoj klasifikaciji | Drugi stepen tercijalnog obrazovanja (Nivo 6: ISCED 1997) |
| Datum | 1991-1998 |
| Naziv dodijeljene kvalifikacije | Diplomirani hemičar za istraživanje i razvoj |
| Glavni predmeti / stečene profesionalne vještine | Analitička hemija, Instrumentalna analitička hemija, Instrumentalna spektralna hemija, Hemija prirodnih proizvoda, Zaštita životne sredine |
| Ime i vrsta organizacije davaoca obrazovanja i osposobljavanja | Univerzitet u Kragujevcu, Prirodno-matematički fakultet |
| Stepen prema nacionalnoj ili međunarodnoj klasifikaciji | Osnovne diplomske studije (4 godine) |

**Obrazovanje i usavršavanje** **Specijalizacije**

-Center for applied spectroscopy, International summer schools 2005., July, Novi Sad, Serbia
-Marine science and Coastal Management in the Adriatic, Western Balkans, Course I: "Sediments – From Sampling" To Analysis 2007., May, Mljet Island, Croatia
-Marine science and Coastal Management in the Adriatic, Western Balkans, Course II: "Marine Chemistry", 11-17 November 2008, Zagreb, Croatia
-MEDPOL IAEA-MESL Training Course on Analysis of Heavy Metals in Marine Samples by Atomic Absorption Spectrometry, Marine Environmental Laboratories, 24th November to 5th December 2008, Monaco
- Working group on site selection and Carrying Capacity: WGSC-SHoCMeD – Meeting on Environment Quality standards for marine fish farms: 23-25 Nov, 2010, St.George's Bay, Malta
-FAO technical support project TCR/REP/3301. Sustainable development of the aquaculture sector with special emphasis on quality, tracebility and health safety of aquaculture product after cultivation. 26-28 Nov, 2012., Oranmore- Irland
- IAEA Interregional Advanced Training Course on Marine Radioactivity: Analytical Methods and Quality Management, Karlsruhe, Germany, 9 July to 20 July 2012
-International Phytoplankton Intercomparision (IPI) exercise training workshop organised by the IOC and Marine Institute and held 28-01.12.2016. Hillerod, Denmark.
-Regional Workshop on Identification of data Gaps in the Adriatic and the Black Sea and Harmonization of field Sampling Strategies for Strengthening Regional Capacities in the Coastal Management, Varna, Bulgaria, 25-27 September 2018.
- Regional Training Course on Advances of Fast Neutron Activation Analysis and Gamma Spectroscopy in Environmental Applications, Rudjer Boskovic Institute, Zagreb, Croatia, 4-8 November 2019

**Lične vještine i kompetencije**

| | |
|---|---|
| Materinji jezik | Crnogorski |
| Drugi jezik(ci) | Engleski |

| Samoprocjena | Razumijevanje | | | | Govor | | | | Pisanje | |
|---|---|---|---|---|---|---|---|---|---|---|
| *Europska razina (*)* | Slušanje | | Čitanje | | Govorna interakcija | | Govorna produkcija | | | |
| **Engleski jezik** | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | B1 | Independent use | B1 | Independent use |

*(*) Zajednički europski referentni okvir za jezike*

Odgovorna i pouzdana osoba spremna da podeli znanje i ideje sa kolegama. Odlična za

| | |
|---|---|
| | timski rad, uvek spremna da se lako uklopi u multikulturno okruženje. |
| Društvene vještine i kompetencije | U toku rada na Univerzitetu Crne Gore i Institutu za biologiju mora kao i u drugim međunarodnim organizacijama stekla je dobre komunikacione veštine sa kolegama iz različitih kultura i mentaliteta iz regiona. Sposobna da izgradi poverenje i dobru organizaciju u okviru radnog tima |
| Organizatorske vještine i kompetencije | Sposoban da kordinira timskim radom, organizaciji terenskog i timskog rada na terenu u otežanim uslovima (istraživački brod). |
| Računarske vještine i kompetencije | Microsoft office: MS Word, Excel, Internet Explorer and Outlook, PowerPoint; Graphics or photo imaging software: Adobe Photoshop, CorelDraw, Paint Shop; Analytical scientific software: Primer 5, Origin 7.1, Statistic 7 |
| Ostale vještine i kompetencije | -Autor i koautor preko 100 naučnih radova u međunarodnim i nacionalnim časopisima, kao i saopštenja na simpozijumima nacionalnog i internacionalnog značaja (u prilogu) |
| Vozačka dozvola | Kategorija B |

**BIBLIOGRAFIJA**


1. **Regner D., Vuksanović N., Dutina M., Joksimović D. & Stjepčević B.** 1999. Monitoring kvaliteta priobalnog mora crnogorskog primorja. 28 Konferencija o aktuelnim problemima zaštite voda *»ZAŠTITA VODA 1999«* 12.-15. octobar Soko Banja, Zbornik radova: 319-325.
2. **Joksimović D., Kljajić Z. & Filipović S.** 2001. Neki mikroelementi u vodi Bokokotorskog zaliva. 30 Konferencija o aktuelnim problemima zaštite voda *»ZAŠTITA VODA 2001«* 12.-15. jun Aranđelovac, Zbornik radova: 325-332.
3. **Regner D., Vuksanović N., StjepčevićB., Dutina M. & Joksimović D.** 2001. Kvalitet mora i stepen eutrofikacije priobalnog mora crnogorskog primorja. Prirodni potencijali kopna, kontinentalnih voda i mora Crne Gore i njihova zaštita, 20.-23 Septembar, Žabljak, Knjiga apstrakta: 173.
4. **Mihajlović R. & Joksimović D.** 2001. Teški metali u sedimentima Bokokotorskog zaliva. Prirodni potencijali kopna, kontinentalnih voda i mora Crne Gore i njihova zaštita, 20.-23 Septembar, Žabljak, Knjiga apstrakta: 177.
5. **Mihajlović R. & Joksimović D.** 2001. Akumulacija žive i arsena u morskoj vodi i sedimentima Bokokotorskog zaliva. Prirodni potencijali kopna, kontinentalnih voda i mora Crne Gore i njihova zaštita, 20.-23 Septembar, Žabljak, Knjiga apstrakta: 178.
6. **Mihajlović R. and Joksimović D.** 2002. Heavy matals in sediments from Boka Kotorska Bay. *Stud. Mar.*, 23(1): 49-56, ISBN: 86-901335-1-8; ISSN 0585-5349.
7. **Mihajlović R., Joksimović D., Mandić S. and Mihajlović Lj.** 2002. Macro and micro elements in sea water of Boka *Stud. Mar.*, 23(1) 41-48, ISBN: 86-901335-1-8; ISSN 0585-5349.
8. **Regner D., Vuksanović N., Stjepčević B., Dutina M. and Joksimović D.** 2002. Sea-water quality and the level of eutrophication in the Montenegrin Coastal Sea. *Stud. Mar.*, 23(1) 71-78, ISBN: 86-901335-1-8; ISSN 0585-5349.
9. **Regner, D., Vuksanović, N., Stjepčević, B. & Joksimović, D.** 2002. Present ecological investigations in the Montenegrin Coastal Sea. V simposium of fisheries of Yugoslavia, Bar, Book of Abstracts: 84
10. **Regner D., Vuksanović N., Stjepčević B. & Joksimović D.** 2002. Istraživanja kvaliteta priobalnog mora crnogorskog primorja kroz ljeto 2001. 31 Konferencija o aktuelnim problemima korišćenja i zaštite voda *»VODA 2002«* 11.-14. jun Vrnjačka Banja, Zbornik radova: 297-302.
11. **Mihajlović R. & Joksimović D.** 2002. Akumulacija žive i arsena u morskoj vodi i sedimentima bokokotorskog zaliva. 31 Konferencija o aktuelnim problemima korišćenja i zaštite voda *»VODA 2002«* 11.-14. jun Vrnjačka Banja, Zbornik radova: 323-328.
12. **Regner D., Vuksanović N., Stjepčević B. & Joksimović D.** 2003. Eutrofikacija i bakterijsko zagađenje priobalnog mora crnogorskog primorja u 2002. godini. 32 Konferencija o aktuelnim problemima korišćenja i zaštite voda *»VODA 2003«* 3-6 Jun, Zlatibor, Zbornik radova: 377-382, ISSN: 86-904241-0-5.
13. **Regner, D., Vuksanović, N., Stjepčević, B. & Joksimović, D.** 2004. Kvalitet priobalnog mora crnogorskog primorja kroz sezonu kupanja 2003. godine. 33 Konferencija o aktuelnim problemima korišćenja i zaštite voda *»VODA 2004«* 8-11. jun Borsko jezero, Zbornik radova: 409-414. ISBN: 86-904241-1-3.
14. **Regner, D., Vuksanović, N., Stjepčević, B. & Joksimović, D.** 2004. Ecological monitoring in the Montenegrin Coastal Sea, Barcelona 2004, *Rapp. Com. int. Mer Medit.* 37, 542, ISSN: 86-904241-1-3.
15. **Regner, D., Vuksanović, N., Stjepčević, B. & Joksimović, D.** 2005. Višegodišnja ekološka istraživanja u priobalnom moru crnogorskog primorja i njihov značaj za ocenu kvaliteta mora. 34 Konferencija o aktuelnim problemima korišćenja i zaštite voda *»VODA 2005«* 7-10. jun Kopaonik, Zbornik radova: 329-335, ISBN: 86-904241-2-1.

16. **Stanković, S., Joksimović, D., Kljajić, Z., Mandić, S. & Degetto, S.** 2006. Determination of microelement content in sea water, mussels (*Mytilus galloprovincialis*), sea grass (*Posidonia oceanica*) and sediments at the Montenegrin coast (Southern Adriatic). II Inernational symposium of ecologists of the Republic of Montenegro, September 20-24, Kotor, Montenegro, Book of Abstracts 103, ISBN:86-908743-1-3.
17. **Stanković, S., Joksimović, D., Kljajić, Z., Mandić, S. & Degetto, S.** 2006. Određivanje sadržaja mikroelemenata u morskoj vodi i školjkama *(Mytilus galloprovincialis)* crnogorskog primorja. Vode, vodovodi i sanitarne tehnologije, 8-11 Maj Budva, Zbornik radova: 91-98.
18. **Mihajlović, R. & Joksimovic, D.** 2006. Zagađenje mora crnogorskog primorja teškim metalima. Vode, vodovodi i sanitarne tehnologije, 8-11 Maj Budva, Zbornik radova: 105-113.
19. **Regner, D., Vuksanović, N., Stjepčević, B. & Joksimović, D.** 2006. Višegodišnja istraživanja kvaliteta mora crnogorskog primorja i njihov značaj. Vode, vodovodi i sanitarne tehnologije, 8-11 Maj Budva, Zbornik radova: 79-87.
20. **Joksimović, D. & Mihajlovic, R.** 2006. Heavy metals in sediments of Montenegro coast. II International symposium of ecologists of the republic of Montenegro (ISEM II), September 20-24, Kotor, Montenegro, Book of Abstracts 111, ISBN: 86-908743-1-3.
21. **Joksimović, D. & Mihajlovic R.** 2006. Heavy metals in sediments of Montenegrin Coast. II International symposium of ecologists of the republic of Montenegro, September 20-24, Kotor, Conference Proceedings: 303-309, ISBN: 86-908743-0-5.
22. **Joksimovic, D. & Mihajlović, R.** 2007. Akumulacija arsena u vodama crnogorskog primorja. 36 Konferencija o aktuelnim problemima korišćenja i zaštite voda » *VODA 2007*« 26-29 Jun Tara, Zbornik radova: 267-271, ISBN 978-86-904241-4-6.
23. **Joksimovic, D.** 2007. Stepen eutrofikacije u vodama crnogorskog primorja. Vode, vodovodi i sanitarne tehnologije, 25-27 April Budva, Zbornik radova: 77-83.
24. **Joksimović, D.** 2008. Dinamika nutrijenata na crnogorskom primorju. 37 Konferencija o aktuelnim problemima korišćenja i zaštite voda » *VODA 2008*« 3-6 Jun Mataruška banja, Zbornik radova: 283-287, ISBN 978-86-904241-5-3.
25. **Regner D., Vuksanović N. & Joksimović D.** 2008. Neki rezultati istraživanja eutrofikacije mora u Hercegnovskom i Budvanskom području. 37 Konferencija o aktuelnim problemima korišćenja i zaštite voda » *VODA 2008*« 3-6. Jun Mataruška banja, Zbornik radova: 259-265, ISBN 978-86-904241-5-3.
26. **Stanković, S., Joksimović, D., Stanković, A. R. & Degetto, S.** 2008. Metal accumulation in bioloical indicator (*Posidonia oceanica*) from the Kotor Bay. BALWOIS Conference, May 27-31 Ohrid, Macedonia, Book of Abstracts: 267
27. **Joksimović, D. & Stanković, S.** 2008. Contents of lead, cadmium, arsenic and mercury in coastal surface sediments from Montenegrian coast. III International symposium of ecologists of the republic of Montenegro (ISEM III), October 8-12 Bijela, Montenegro, Book of Abstracts: 145-146, ISBN:978-86-908743-2-3.
28. **Stanković, S., Joksimović, D. & Jović, M.** 2008. Determination of biology concentration factor and correlation coeficient of the examined microelements in mussels from Montenegrin coast. III International symposium of ecologists of the republic of Montenegro (ISEM III), October 8-12 Bijela, Montenegro, Book of Abstracts: 110, ISBN: 978-86-908743-2-3.
29. Stanković, S., Jović, M., **Joksimović, D.** & Degetto, S. 2008. Microelements content in sea water and biota from Boka Kotor Bay in the fall of year 2007. III International symposium of ecologists of the republic of Montenegro (ISEM III), October 8-12 Bijela, Montenegro, Book of Abstracts: 145, ISBN: 978-86-908743-2-3.
30. Jović, M., Stanković, S. & **Joksimović, D.** 2008. Metal accumulation in bioloical indicator (*Posidonia oceanica*) from Montenegrin coast. III International symposium of ecologists of the republic of Montenegro (ISEM III), October 8-12 Bijela, Montenegro, Book of Abstracts: 169, ISBN: 978-86-908743-2-3.
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**Monografija**

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**Članstvo:**

1. Član radne skupine za pregovore sa EU - poglavlje 12 - Sigurnost hrane, veterinarski i fitosanitarni nadzor.
2. Član radne skupine za operacijsku okeanografiju - MONGOOS

**Učešće u nacionalnim i međunarodnim projektima:**

1. COWAMA – Coastal Water Management (Italy, Montenegro). PROGRAM: INERREG IIIA Adriatic Cross Border (2006-2008). http://www.cowama.corila.it/seminar.html. Contributor to the project
2. ADRICOSM STAR - Adricosm Integrated River Basin and Coastal Zone Management System: Montenegro Coastal Area and Bojana River Catchement (Italy, Albania, Montenegro). Adricosm Partnership, funded by the Italian Ministry of Environment, Territory and Sea. (03/2007-03/2010).http://moon.santateresa.enea.it/Star/index.htm. Contributor to the project
3. JJI – Južni Jadran (12/2009-11/2012) – Chemical testing of sea water, sediments and biota. National Scientific Research Project. Ministry of Science of Montenegro. Contributor to the project
4. ADRICOSM STAR Intermediate Project (Italy, Montenegro). Adricosm Partenship, funded by the Ministry of Sustainable development and Turisms of Montenegro and Italian Ministry for the Environment, Land and Sea. (09/2012-03/2013). http:/ www.cmcc.it/adricosm-intermediate. Collaborator on the project
5. Environmental Monitoring Programme for Montenegro- Program monitoring of the status of the ecosystem of the coastal sea of Montenegro, within the MED POL - The Programme for the Assessment and Control of Pollution in the Mediterranean Region (UNEP/MAP). (2008-2015) http://www.epa.org.me/. Collaborator on the project
6. SEADATANET 2 - Pan-European Infrastructure for Ocean & Marine Data Management (35 countries riparian to all European seas). Funding under FP7: Integrating Activities (IA). (10/2011-09/2015) http://www.seadatanet.org/. Collaborator on the project

7. HAZADR - Strengthening common reaction capacity to fight sea pollution of oil, toxic and hazardous substances in A Montenegro and Albania). IPA Adriatic CBC Programme 2007-2013 (10/2012-01/2015). http:www.hazadr.eu/. Collaborator on the project
8. EMODNet Chemistry 2 - European Marine Observation and Data Network-Chemistry (29 coastal countries reparian to all European seas). Launched by the Directorate-General for Maritime Affairs and Fisheries (DG MARE), (2013-2016).http/www.emodnet-chemistry.eu/portal/portal. Collaborator on the project
9. BALMAS - Ballast water management system for Adriatic Sea Protection. IPA Adriatic Strategic Programme (2013-2016). Collaborator on the project
10. Bilateral project Montenegro - Austria (2015-2016) - Investigation of the effects of various neuroactive substances on the mammary heart activity of Mytilus galloprovincialis L, Project menager
11. Bilateral Project Montenegro - Slovenia (2014-2015) - Determination and Impact of Metals and Coal Plants on Sea Organizations of Boka Kotorska and Trieste Gulf, Project menager
12. Complex research on the ecosystem of the Montenegrin Coastal Sea - KOTOR 2011-2015. Ministry of Education and Science, Sector for Science and Higher Education - Contributor to the project
13. Monitoring and biomonitoring of water quality for mariculture and estimation of natural shellfish resources in the Bokokotor Bay, 2010-2018. Project of the Ministry of Agriculture and Rural Development - Contributor to the project
14. BIO-ICT in Informatics, INVO-HERIC program, First Center of Excellence in Montenegro, 2014-2017, Ministry of Science. Contributor to the project
15. SEADATACLOUD - Further developing the pan-European infrastructure for marine and ocean data. Program H2020 (2016-2020). http:www.seadatanet.org/aboutus/seaDataCloud. https://www.seadatanet.org/About-us/SeaDataCloud. Project manager of the Montenegrin team in the project
16. Bilateral Project Montenegro - Croatia (2016-2017) Biological and Ecotoxicological Research of the Coastal Areas of Montenegro and Croatia (BIOECO-CROMON) Contributor to the project
17. Bilateral project Montenegro - Serbia (2016-2018) - Fish, crustaceans and shellfish, bio-indicators of the environment of the Montenegrin coast. Contributor to the project
18. Bilateral Project Montenegro - Serbia (2016-2018) - Raman's spectroscopy stimulated by the surface as a method for monitoring the inorganic nutrient in seawater. Contributor to the project
19. Bilateral Project Montenegro - Serbia (2016-2018) - Sea and freshwater microalga as an alternative source of protein in animal feed. Contributor to the project
20. Experimental farming of great Mediterranean scallop (Pecten jacobaeus), 2016-2018. Transfer of knowlwdge between sectors of higher education, research and industry – EuropeAid/136938/ID/ACT/ME. Contributor to the project
21. EMODNET Chemistry 3 - European Marine Observation and Data Network-Chemistry. Launched by the Directorate-General for Maritime Affairs and Fisheries (DG MARE), (2017-2019). Project manager
22. PINNASPOT - The study, protection and possible breeding of pen shell (Pinna Nobilis) in the Boka Kotorska Bay. Donation of Princ Albert II of Monacco. (2016-2019). Project menager
23. International atomic Energy Agency – IAEA - Enhancing Coastal Management in the Adriatic and the Black Sea by Using Nuclear Analytical Techniques. "IAEA Technical application programme, program of regional cooperation, cycle 2018-19". Project manager
24. International atomic Energy Agency – IAEA RER2018006 "Enhancing Coastal Management in the Mediterranean, the Black Sea, Caspian Sea and the Aral Sea by Using Nuclear Analytical Techniques" 2020-2024. Rukovodilac projekta
25. EMODNET Chemistry 4 - European Marine Observation and Data Network-Chemistry (2019-2023). Rukovodilac projekta crnogorskog tima
26. HarmoNIA "Harmonization and Networking for contaminant assessment in the Ionian and Adriatic Seas" (01.02.2018-30.11.2019). Adriatic-Ionian Programme INTERREG V-B Transnational 2014-2020. Project manager of the Montenegrin team in the project
27. PROMIS – Procjena ekološkog stanja mora na osnovu sadržaja teških metala i mikroplastike u sedimentu i ribama u priobalnom moru Crne Gore (2019-2021). Nacionalni projekat za doktorande. Rukovodilac projekta
28. ShellMED - Skrining HEmijskih indikatora i moLekuLarnih biomarkera u morskim školjkama i ribama sa primjenom u MEDicini i farmakologiji (2019-2021). Nacionalni projekat - Rukovodilac projekta
29. ProDATA -Support for the development of physical oceanography and sea database for the coastal area of Montenegro (01.2018-12.2019). A contest to encourage participation in the Horizont 2020 and COST programs of the Ministry of Science. Project menager
30. Bilateral project Republic of Italy-Montenegro (2019-2020): Ultra-broadband spectroscopy for the detection of emerging contaminants in the Boka Kotorska Bay. Project menager

31. Bilateral Project Montenegro - Serbia (2019-2020) - Isolation and therapeutical potential of avarol on the models of neurodegeneration. Contributor to the project
32. Bilateral Project Montenegro - Serbia (2019-2020) - Detection of stressors in marine ecosystem based on genotoxicological and physiological markers in Mediterranean Mussel (Mytilus galloprovincialis). Contributor to the project
33. Bilateral Project Montenegro - Serbia (2019-2020) - Fish as bioindicators of the ecological state of the adriatic sea. Contributor to the project
34. Bilateralni Project Montenegro - Slovenia (2021-2022) - Sezonska dinamika bioakumulacije i biodostupnosti zagađujućih supstanci u dagnjama *Mytilus galloprovincialis* sa istočne obale Jadranskog mora. Project menager

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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.

**O b r a z l o ž i t e v:**

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 kadrovsko službo Fakultete za kemijo in kemijsko tehnologijo Univerze v Ljubljani, Večna pot 113.

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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*
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*1983 Diploma*
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***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*
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*1998 – 1999 Name of the institution: University of Clermont Ferrand, France, post doc, 4 months*

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*1996 – Scientific area: environmental chemistry*
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*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),*

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