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UNIVERZITET CRNE GORE
KOMISIJI ODBORA ZA DOKTORSKE STUDIJE

Upućujem Komisiji Odbora za doktorske studije, Predlog komisije za ocjenu podobnosti doktorske teze pod nazivom "Sinteza, fizičko-hemijska karakterizacija i potencijalna fungicidna aktivnost novosintetizovanih kompleksnih jedinjenja na bazi derivata pirazola" kandidata mr Ane Radović u sljedećem sastavu:

1. Dr Nedeljko Latinović, redovni profesor Biotehničkog fakulteta Univerziteta Crne Gore, predsjednik komisije;
2. Dr Milica Kosović-Perutović, docent Metalurško-tehnološkog fakulteta Univerziteta Crne Gore, član komisije i
3. Dr Željko Jaćimović, redovni profesor Metalurško-tehnološkog fakulteta Univerziteta Crne Gore, član komisije (mentor)

Prof. dr Željko Jaćimović, mentor

Ž. Jaćimović

Mr Ana Radović, kandidat

A. Radović

Podgorica, 8.12.2022. godine

PRIJAVA TEME DOKTORSKE DISERTACIJE

OPŠTI PODACI O DOKTORANDU	
Titula, ime i prezime	Mr Ana Radović
Fakultet	Univerzitet Crne Gore Centar za doktorske studije
Studijski program	Održivi razvoj
Broj indeksa	7/2021
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BIOGRAFIJA I BIBLIOGRAFIJA	
Obrazovanje	<p>2021 – Univerzitet Crne Gore Doktorske studije na programu Održivi razvoj</p> <p>2005 – 2010 Univerzitet Crne Gore Metalurško tehnološki fakultet Magistarske studije - Studijski program Hemijska tehnologija, Smjer: Ekološki</p> <p>1993 – 1999 Univerzitet Crne Gore Metalurško tehnološki fakultet Odsjek: Neorganska tehnologija</p> <p>1989 – 1993 Gimnazija “Slobodan Škerović”, Podgorica Smjer: Matematičko-programerski saradnik</p> <p>1981 – 1989 Osnovna škola “Sutjeska”, Podgorica</p>
Radno iskustvo	<p>Januar 2008-</p> <p>Rukovodilac Odjeljenja za akreditaciju laboratorija i kontrolnih tijela Akredizaciono tijelo Crne Gore</p>

	<p>Septembar 2007 – Decembar 2007 Viši savjetnik u Odsjeku za strateška i integraciona pitanja Sektor za zaštitu životne sredine Ministarstvo turizma i zaštite životne sredine Vlada Crne Gore</p> <p>April 2002 – Septembar 2007 Stručni saradnik tehnolog u Laboratoriji za ispitivanje maziva i goriva Željeznice Crne Gore A.D. Podgorica</p> <p>Februar 2001 – Septembar 2001 Profesor hemije i poznavanja roba JU Srednja stručna škola Sergije Stanić u Podgorici</p> <p>Jul 1999 – Jul 2000 Pripravnički staž na Željeznici Crne Gore A.D Podgorica u Laboratoriji za ispitivanje maziva i goriva</p>
<p>Popis radova</p>	<p style="text-align: center;"><u>Radovi publikovani u časopisima sa SCI liste</u></p> <ol style="list-style-type: none"> 1. Ž. K. Jaćimović, A. Radović, V. M. Leovac, Z. D. Tomić, I.R.Evans "Crystal Structure of bis(μ_2-thiocyanato)tetrakis(3,5-dimethyl-1-(thiocarbamoyl)pyrazole)dinickel(II)dichloride ethanol disolvate, $[\text{Ni}(\text{NCS})_2(\text{C}_6\text{H}_6\text{N}_3\text{S})_4][\text{Cl}]_2 \cdot 2\text{C}_2\text{H}_5\text{OH}$", <i>Z. Kristallogr.</i> (2007), 222 vol 4 430. 2. A. Radović, N. Latinović, Ž. Jaćimović "The Influence of Some Pyrazole Derivatives and matching Newly Synthesized Ni(II) Complexes in the inhibition of <i>Phomopsis viticola</i> (Sacc.) Sacc.," <i>Research Journal of Chemistry and Environment</i> (ISSN:0972-0626), Volume 16, Issue 1, Mar. 2012, Page(s) 07 3. Ž. Jaćimović, M. Kosović, S. B. Novaković, G. Giester, A. Radović, Synthesis and crystal structure of Cu(II) and Co(II) complexes with 1,3-dimethyl-pyrazole-5-carboxylic acid ligand, <i>J. Serb. Chem. Soc</i> (2014), doi: 10.2298/JSC140722009J 4. M. Š Zaimović, M. Kosović Perutović, G. Jelušić, A. Radović, Ž. Jaćimović (2022), " The inhibitory effect of some pyrazole ligands and their Cu(II) complexes on the growth of <i>Escherichia coli</i>, <i>Klebsiella-Enterobacter</i> spp., and <i>Staphylococcus aureus</i>". <i>Front. Pharmacol.</i> 13:921157. doi: 10.3389/fphar.2022.921157 <p style="text-align: center;">Radovi štampani u zborniku radova</p> <ol style="list-style-type: none"> 1. A. Radović, N. Latinović, Ž.K. Jaćimović, "The Influence of some pyrazole derivatives on development of <i>phomopsis viticola</i> sacc. Fungi", <i>1st International Symposium of Chemistry and Environment</i>, Budva, Montenegro, 2007, Book of Abstract 190

2. A. Radović, N. Latinović, Ž. K. Jaćimović, "The Influence of Ni metal complexes with pyrazole derivatives on growth *Phomopsis viticola* sacc. Fungi", *6th International Conference of the Chemical Societies of the South-Eastern European Countries*, Sofia, Bulgaria, 2008, Letter of Certification.
3. Ž. Jaćimović, V.M. Leovac, N. Latinović, M. Kosović, I. Derđ, A. Radović „The Influence of newly synthesised Cu(II) complexes based on pyrazole derivatives on the inhibition of *Phomopsis viticola* Sacc under laboratory conditions“ *Second International Symposium on corrosion and protection of material and environment*, Bar, Montenegro, 2012, Proceedings, 319-326.
4. Ž. Jaćimović, A. Radović, M. Kosović, N. Latinović “Influence of newly synthesized Cu(II) complexes on the pyrazole based derivatives on inhibition of *Botryosphaeria dothide*” *12th International Conference on Protection and Restoration of the Environment* , Skiathos, Greece 2014, Proceedings, 719-724
5. Ž. Jaćimović, I. Bošković, A. Radović, M. Kosović, N. Latinovic, „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, Proceedings, p. 471-477, ISBN: 978-960-6865-94-7.

Saopštenja u vidu abstrakta

1. Ž.K. 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, 2013, Book of abstracts 60.
2. 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*“, *14th European Meeting on Environmental Chemistry*, Dec 2013, Budva , Montenegro, Book of abstracts, 142
3. 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*“, *International conference protection and restoration of the environment XII*, Jun 2014, Skiathos Island, Greece, Book of abstracts, page 171

NASLOV PREDLOŽENE TEME

Na službenom jeziku

Sinteza, fizičko-hemijska karakterizacija i potencijalna fungicidna aktivnost novosintetizovanih kompleksnih jedinjenja na bazi derivata pirazola

Na engleskom jeziku	Synthesis, physicochemical characterization and potential fungicidal activity of newly synthesized complex compounds based on pyrazole derivatives
Obrazloženje teme	
<p>Pirazoli predstavljaju klasu jednostavnih aromatičnih organskih jedinjenja heterociklične strukture koje karakteriše petočlana prstenasta struktura sastavljena od tri atoma ugljenika i dva atoma azota na susjednim pozicijama. Klasifikovani su kao alkaloidi i rijetki su u prirodi. Prvi prirodni pirazol, 1-pirazolil-alanin, izolovan je iz sjemena lubenice 1959. godine.</p> <p>Derivati pirazola imaju dugu istoriju primjena u agrohemiji i farmaceutskoj industriji kao pesticidi i aktivne farmaceutske supstance, a koriste se i u drugim, vrlo različitim industrijama.</p> <p>Razvoj novih zelenih fungicida zasnovanih na strukturnoj optimizaciji prirodnih proizvoda može efikasno riješiti probleme niske bezbjednosti i visoke otpornosti na patogene konvencionalnih fungicida. Molekuli pirazola pokazuju jak potencijal i mogu se efikasno koristiti u kontroli nad biljnim patogenim gljivama koje se često nalaze na voću.</p>	
Pregled istraživanja	
<p>Fungicidi imaju veliku primjenu u razvijenim poljoprivrednim sistemima za kontrolu bolesti i očuvanje prinosa i kvaliteta usjeva. Rutinska upotreba fungicida za suzbijanje bolesti kod biljaka bila je važan element u intenziviranju savremene poljoprivrede i pomogla je da se povećaju prinosi, poboljša kvalitet i obezbjedi stabilnost proizvodnje. Vremenom se, međutim, pojavila i proširila otpornost na mnoge od najefikasnijih fungicida u populaciji patogena, ugrožavajući kontrolu bolesti poljoprivrednih proizvoda. Fungicidi se koriste u poljoprivredi duže od jednog vijeka, a na početku nije bilo izvještaja o gubitku njihove efikasnosti. Rani tekstovi o fungicidima i njihovom djelovanju ne uključuju nikakve reference na otpornost. Fenomen otpornosti na fungicide može dovesti do gubitaka većih od 30%, što ukazuje da su hitno potrebna nova rješenja u ovom polju.</p> <p>Hemija pirazola je povezana sa različitim biološkim aktivnostima poput antifungalnih, antibakterijskih, antivirusnih, antipiretičkih, antiseptičkih itd. U svrhe izrade ovog disertacije, kao polazne supstance, ligandi, derivati pirazola koristiće se: 3-(hidroksifenil)-1H-pirazol-5 karboksilna kiselina, 3-3-nitrofenil-1-H-pirazol, 3-4-(hlorofenil-1-H-pirazol) i 4-bromo-3-nitro-1-H-pirazol-5-karboksilna kiselina.</p> <p>Pregledom dostupne literature, nije pronađen nijedan primjer sinteze kompleksnih jedinjenja sa navedenim derivatima pirazola. Štaviše, ovi derivati pirazola nisu ispitani u dijelu biološke aktivnosti, tako da će dobijeni kompleksi u potpunosti predstavljati novitete u ovom segmentu istraživanja.</p>	
Cilj i hipoteze	
<p>Cilj ove disertacije je sinteza novih kompleksnih jedinjenja, njihova fizičko-hemijska karakterizacija i ispitivanje potencijalne fungicidne aktivnosti. Kao polazne supstance u sintezama, koristiće se odabrani derivati pirazola, sa serijom prelaznih metala.</p> <p>Disertacija ima sljedeće ciljeve:</p>	

- Sintezovati nova kompleksna jedinjenja na bazi derivata pirazola: 3-(hidroksifenil)-1H-pirazol-5 karboksilna kiselina, 3-3-nitrofenil-1-H-pirazol, 3-4-(hlorofenil-1-H-pirazol) i 4-bromo-3-nitro-1-H-pirazol-5-karboksilna kiselina sa slijedećim prelaznim metalima : Ni, Fe, Cd, Hg, Pd, Mn, Ru, Pt, Zn, Co i Cu;
- Fizičko-hemijski okarakterisati novosintetizovana kompleksna jedinjenja tehnikama: XRD, CHNS, UV/VIS, FTIR;
- Rendgeno - strukturno okarakterisati (tehnika monokristala) dobijena jedinjenja koja ispune uslove za ovaj vid karakterizacije (kvalitetni monokristali određenih dimenzija);
- Predstavljanje strukturnog uređenja novosintetisanih jedinjenja, tj. tumačenje rezultata dobijenim fizičko-hemijskim analizama i potpuna karakterizacija dobijenih kompleksnih jedinjenja;
- Ispitivanje potencijalne fungicidne aktivnosti novosintetisanih jedinjenja na gljive *Phomopsis viticola* (prouzrokovac crne pjegavosti vinove loze), *Botryosphaeria dothidea* (prouzrokovac truleži plodova masline), *Colletotrichum acutatum* (prouzrokovac antraknoze jagode) i
- Procjena fungicidnog potencijala novosintetisanih kompleksnih jedinjenja u odnosu na komercijalni fungicid koji kao aktivnu susptancu sadrži derivat pirazola.

Hipoteze istraživanja zasnovane su na dobijanju novih i reprezentativnih kompleksnih jedinjenja, jačanje istraživačkog kapaciteta i primjena novosintetisanih jedinjenja u poljima zaštite bilja.

Polazne hipoteze disertacije su:

H1: Odabirom povoljnih polaznih supstanci, po principu odnosa ligand-metal, sinteze novih kompleksnih jedinjenja su moguće.

H2: Dio novosintetisanih jedinjenja, u odnosu na osobine polaznih supstanci, pokazaće fungicidnu aktivnost.

Materijali, metode i plan istraživanja

Za postizanje navedenih ciljeva i hipoteza, u istraživanju će biti upotrijebljene sledeće metode:

- Sinteze novih kompleksnih jedinjenja u laboratorijskim uslovima;
- X-ray difrakcione analize uzoraka u cilju provjere i dokazivanja nastajanja novih jedinjenja;
- Elementalna CHNS analiza novosintetisanih uzoraka i poređenje dobijenih rezultata sa teorijskom pretpostavkom udjela elemenata;
- Spektroskopske UV/VIS i IR analize u cilju konfirmacije položaja hemijskih veza i funkcionalnih grupa (konfirmacija teorijske pretpostavke strukture);
- In-vitro ispitivanja fungicidne aktivnosti novosintetisanih jedinjenja u odnosu na komercijalni fungicid
- Izvođenja zaključaka.

Očekivani naučni doprinos

Poseban značaj ovog istraživanja predstavlja dobijanje novih kompleksih jedinjenja sa potencijalnom fungicidnom aktivnošću. Ovo će predstavljati prvi korak u mnogobrojnim ispitivanjima potencijalne primjene novosintetizovanih jedinjenja, kako u polju zaštite bilja tako i u drugim, po prirodi vrlo različitim sferama.

Naučni doprinosi ogledaju se u:

Doprinosu boljem poznavanju ove klase jedinjenja;

- Unapređivanju naučne baze o konformacijama novih kompleksnih jedinjenja;
- Unapređivanju potencijala različitih industrija (primarno zaštite bilja);

- Jačanju konkurentnosti Univerziteta Crne Gore u oblasti istraživanja;
- Podizanje svijesti o značaju sintetisanja novih supstanci i njihovom ispitivanju u domenu održivog razvoja

Spisak objavljenih radova kandidata

Radovi publikovani u časopisima sa SCI liste

1. Ž. K. Jaćimović, A. Radović, V. M. Leovac, Z. D. Tomić, I.R.Evans: "Crystal Structure of bis(μ_2 -thiocyanato)tetrakis(3,5-dimethyl-1-(thiocarbamoyl)pyrazole)dinickel(II)dichlorideethanol disolvate [Ni(NCS)₂(C₆H₆N₃S)₄][Cl]₂ · 2C₂H₅OH ", *Z. Kristallogr.* (2007), 222 Vol 4 430
- A. Radović, N. Latinović, Ž. Jaćimović "The Influence of Some Pyrazole Derivatives and matching Newly Synthesized Ni(II) Complexes in the inhibition of *Phomopsis viticola* (Sacc.) Sacc.," *Research Journal of Chemistry and Environment* (ISSN:0972-0626), Volume 16, Issue 1, Mar. 2012, Page(s) 07
3. Ž. Jaćimović, M. Kosović, S. B. Novaković, G. Giester, A. Radović, *Synthesis and crystal structure of Cu(II) and Co(II) complexes with 1,3-dimethyl-pyrazole-5-carboxylic acid ligand*, *J. Serb. Chem. Soc.* (2014), doi: 10.2298/JSC140722009J
4. M. Š Zaimović, M. Kosović Perutović, G. Jelušić, A. Radović, Ž. Jaćimović (2022), "The inhibitory effect of some pyrazole ligands and their Cu(II) complexes on the growth of *Escherichia coli*, *Klebsiella-Enterobacter* spp., and *Staphylococcus aureus*". *Front. Pharmacol.* 13:921157. doi: 10.3389/fphar.2022.921157

Radovi štampani u zborniku radova

- 1.A. Radović, N. Latinović, Ž.K. Jaćimović, "The Influence of some pyrazole derivatives on development of *phomopsis viticola* sacc. Fungi", *1st International Symposium of Chemistry and Environment*, Budva, Montenegro, 2007, Book of Abstract 190
2. A. Radović, N. Latinović, Ž. K. Jaćimović, "The Influence of Ni metal complexes with pyrazole derivatives on growth *phomopsis viticola* sacc. Fungi", *6th International Conference of the Chemical Societies of the South-Eastern European Countries*, Sofia, Bulgaria, 2008, Letter of Certification
3. Ž. Jaćimović, V.M. 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 under laboratory conditions“ *Second International Symposium on corrosion and protection of material and environment*, Bar, Montenegro, 2012, Proceedings, 319-326.
4. Ž. Jaćimović, A. Radović, M. Kosović, N. Latinović "Influence of newly synthesized Cu(II) complexes on the pyrazole based derivatives on inhibition of *Botryosphaeria dothide*" *12th International Conference on Protection and Restoration of the Environment*, Skiathos, Greece 2014, Proceedings, 719-724

5. 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, Proceedings, p. 471-477, ISBN: 978-960-6865-94-7

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1. Ž.K. 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, 2013, Book of abstracts 60
2. 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*“, 14th European Meeting of Environmental Chemistry, Dec 2013, Budva, Montenegro, Book of abstracts, 142
3. 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*“, International conference protection and restoration of the environment XII, Jun 2014, Skiathos Island, Greece, Book of abstracts, page 171

Popis literature

1. Ansari, A., Ali, A. and Asif, M., 2017. *Biologically active pyrazole derivatives*, New Journal of Chemistry, 41(1), pp.16-41.
2. Barta Holló, B., Vojinović Ješić, L.S., Radanović, M.M., Rodić, M.V., Jaćimović, Ž.K., Mészáros Szécsényi, K., 2020. *Synthesis, physicochemical, and thermal characterization of coordination compounds of Cu (II) with a pyrazole-type ligand*, Journal of Thermal Analysis and Calorimetry, 142(1), pp.451-460.
3. Chkirate, K., Fettach, S., Karrouchi, K., Sebbar, N.K., Essassi, E.M., Mague, J.T., Radi, S., Faouzi, M.E.A., Adarsh, N.N., Garcia, Y., 2019. *Novel Co (II) and Cu (II) coordination complexes constructed from pyrazole-acetamide: Effect of hydrogen bonding on the self assembly process and antioxidant activity*, Journal of Inorganic Biochemistry, 191, pp.21-28.
4. Faria, J.V., Vegi, P.F., Migueta, A.G.C., Dos Santos, M.S., Boechat, N., Bernardino, A.M.R., 2017. *Recently reported biological activities of pyrazole compounds*, Bioorganic & medicinal chemistry, 25(21), pp.5891-5903.
5. Deising, H.B., Reimann, S. and Pascholati, S.F., 2008. *Mechanisms and significance of fungicide resistance*, Brazilian Journal of Microbiology, 39, pp.286-295.
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7. Karrouchi, K., Radi, S., Ramli, Y., Taoufik, J., Mabkhot, Y.N., Al-Aizari, F.A., Ansar, M.H., 2018. *Synthesis and pharmacological activities of pyrazole derivatives: A review*, Molecules, 23(1), p.134.
8. Lucas, J.A., Hawkins, N.J. and Fraaije, B.A., 2015. *The evolution of fungicide resistance*, Advances in applied microbiology, 90, pp.29-92.
9. Naim, M.J., Alam, O., Nawaz, F., Alam, M.J., Alam, P., 2016. *Current status of pyrazole and its biological activities*, Journal of pharmacy & bioallied sciences, 8(1), p.2.

10. Roh, S.G., Park, Y.C., Park, D.K., Kim, T.J., Jeong, J.H., 2001. *Synthesis and characterization of a Zn (II) complex of a pyrazole-based ligand bearing a chiral l-alaninemethylester*, Polyhedron, 20(15-16), pp.1961-1965.
11. Schenck, T.G., Downes, J.M., Milne, C.R.C., Mackenzie, P.B., Boucher, T.G., Whelan, J., Bosnich, B., 1985. *Bimetallic reactivity. Synthesis of bimetallic complexes containing a bis (phosphino) pyrazole ligand*, Inorganic Chemistry, 24(15), pp.2334-2337.
12. Van den Bosch, F. and Gilligan, C.A., 2008. *Models of fungicide resistance dynamics*. Annu. Rev. Phytopathol., 46, pp.123-147.
13. Yao, T.T., Xiao, D.X., Li, Z.S., Cheng, J.L., Fang, S.W., Du, Y.J., Zhao, J.H., Dong, X.W. and Zhu, G.N., 2017. *Design, synthesis, and fungicidal evaluation of novel pyrazole-furan and pyrazole-pyrrole carboxamide as succinate dehydrogenase inhibitors*, Journal of agricultural and food chemistry, 65(26), pp.5397-5403.

SAGLASNOST PREDLOŽENOG/IH MENTORA I DOKTORANDA SA PRIJAVOM

Prvi mentor	dr Željko Jaćimović	<i>Ž. Jaćimović</i>
Drugi mentor	/	/
Doktorand	Ana Radović	

IZJAVA

Odgovorno izjavljujem da doktorsku disertaciju sa istom temom nisam prijavio ni na jednom drugom fakultetu.

U Podgorici,
7.12.2022.

Ime i prezime doktoranda
Ana Radović

Ana Radovic
-Curriculum Vitae-

PERSONAL DETAILS:



Date of birth: 29.06.1974.
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Nationality: Montenegrin

KEY QUALIFICATIONS:

Doctoral Academic Study "Sustainable development", Centre for Doctoral Studies, University of Montenegro, 2021-ongoing

Master of technical science (MSc Chemical technology), Faculty of Metallurgy and Technology, University of Montenegro

Five (5) years of work experience in the area of physical-chemical testing fuels in laboratory (furnish laboratory with all items of sampling, measurement and test equipment required for the correct performance of the testing)

Professional engagement in academic education (working as a professor in secondary school and professional associate in the higher education: Study program of Pharmacy, University of Montenegro)

Fifteen (15) years of professional experience in working as the lead assessor of laboratory of testing, calibration and inspection bodies in Accreditation body of Montenegro

Familiar with the following standards: ISO 9001, ISO 14011, ISO 17025, ISO 17065, ISO 17020, ISO 15189, ISO 17011, ISO 17021, ISO 19011, ISO 17043

Familiar with the quality infrastructure (the standardization, accreditation, metrology, conformity assessment, market surveillance and technical legislature in the area of the free circulation of goods and services)

Familiar with the European legislature in the area of the free circulation of products (the EU directives of the "new" and "old" approach)

Experience in the management, project management, strategic development, communication with users (internal and external)

Experience in the work with international cooperation (as a represent of Ministry of of Tourism and Environment and Accreditation body of Montenegro)

Good knowledge of English language (speaking, reading, writing), English language Course of the Oxford Centre (Level VIII)

Technical skills and competences: MS Word, Excel, Power Point

WORK EXPERIENCE

Manager of Department of accreditation laboratories and inspection bodies	01/2008 –
Lead assessor for laboratories and inspection bodies	
Accreditation body of Montenegro	

Independently and impartially realization accreditation of conformity assessment bodies (laboratories, inspection bodies),

Updating of register in the domain authority of Accreditation body of Montenegro (Register of conformity assessment bodies ...),

Evaluation fulfillments management requirements and some technical requirements of standard ISO IEC 17025 : 2017, ISO IEC 17020 :2012 , EN ISO 15189: 2012

Seminars and training:

University of Montenegro, Faculty of Mechanical Engineering, Center of quality, Training Environmental Protection Management System - ISO 14000 (June 2003)

University of Montenegro, Faculty of Mechanical Engineering, Center of quality, Training Quality management System - ISO 9001 (November 2003)

Training Course: Accreditation of testing and calibration laboratories according to ISO 17025 organized by SWEDAC and JUAT (Decembar 2003)

Bilateral cooperation between Accreditation body of Montenegro and Institute for Accreditation of Republic Macedonia IARM: Assessor training course (ISO/IEC 17025, ISO/IEC 17020, EN 45011) (February 2008)

Regional Quality Infrastructure Project CARDS 2006, Training: Proficiency testing and accreditation testing (June 2008, Ljubljana)

Regional Quality Infrastructure Project CARDS 2006, Hands on training : Participation in the accreditation processes as observers and joint accreditations in several fields of accreditation – Norwegian accreditation, Oslo (June 2008)

Training Course: Accreditation of certification bodies according EN 45011:1998 i IAF GD5:2006 (October 2008)

Training Course Lead assessor training course Laboratory accreditation conducted by Norwegian Accreditation in collaboration with Institute for Accreditation of Bosnia and Hercegovina (February 2009)

Training for lead assessor for testing laboratories and inspection bodies organized by Accreditation body of Serbia (May 2009)

EU Action Programme IPA 2007 for Montenegro, Project Europe Aid/126524/C/SER/ME Development of Quality Infrastructure in Montenegro: Training Course on the requirements of the ISO 17020 standard General requirements for various types of bodies performing inspection, their interpretation and application (December 2010)

EU Action Programme IPA 2007 for Montenegro, Project Europe Aid/126524/C/SER/ME Development of Quality Infrastructure in Montenegro: Training Course on the requirements of the ISO 17025 standard General requirements for competence of testing and calibration laboratories (December 2010)

EU Action Programme IPA 2007 for Montenegro, Project Europe Aid/126524/C/SER/ME Development of Quality Infrastructure in Montenegro: Training Course and workshop on EA Guidelines and Key Performance Indicators (KPI) of EA and Narrative Framework for reporting on the Performance of an Accreditation Body (April 2011)

EU Action Programme IPA 2007 for Montenegro, Project Europe Aid/126524/C/SER/ME Development of Quality Infrastructure in Montenegro: Training Course on the requirements of the EN 45011 standard General requirements for the bodies operating product certification and their interpretation and application, (March 2011)

EU Action Programme IPA 2007 for Montenegro, Project Europe Aid/126524/C/SER/ME Development of Quality Infrastructure in Montenegro: Training Course on the requirements of the ISO 15189 standard (Medical laboratories Particular requirements of quality and competence) and their interpretation and application (May 2011)

EU Action Programme IPA 2007 for Montenegro, Project Europe Aid/126524/C/SER/ME Development of Quality Infrastructure in Montenegro: Training: Simulation of accreditation assessment as a lead assessor according to the requirements of the standard ISO 17020 and provisions of EA 2/17 Guide in the pilot Conformity Assessment Body for lift, with scope of accreditation Inspection of lift- Directive 95/16/EC on lift, Annex X (September 2011)

PTB Project Promotion of regional cooperation in South East Europe in the field of quality infrastructure: Training Seminar on revision of ISO 17020, accreditation of inspection bodies, general aspects and specific questions (May 2012)

Project Development of Accreditation Services in Montenegro- Europe Aid/127054/C/SER/multi Training Seminar ISO 17025 Focusing on testing of water/soil (September 2012)

Project Development of Accreditation Services in Montenegro Europe Aid/127054/C/SER/multi Training Seminar ISO IEC 17025 focusing on measuring of noise, testing of quality of air, measuring stationary sources of emission, electromagnetic radiation sources, Žabljak (January 2013)

Project Development of Accreditation Services in Montenegro Europe Aid/127054/C/SER/multi Training Seminar ISO IEC 17020 focusing on lifts, Podgorica (February 2013)

Project Development of Accreditation Services in Montenegro Europe Aid/127054/C/SER/multi Training Seminar EN 45011 for certification bodies for products focusing on product – food of vegetable or animal origin in organic production (March 2013)

Project Development of Accreditation Services in Montenegro Europe Aid/127054/C/SER/multi Training Seminar ISO IEC 17021 for certification bodies for quality management system (June 2013)

Project Development of Accreditation Services in Montenegro Europe Aid/127054/C/SER/multi Training Seminar ISO IEC 17024 Conformity assessment General requirements for bodies operating certification of persons (June 2013)

Project Development of Accreditation Services in Monenegro Europe Aid/127054/C/SER/multi Training Seminar ISO IEC 17025 focusing on testing of water/soil (Septembar 2013)

PTB Project Promotion of regional cooperation in South East Europe in the fiel of quality infrastructure: Workshop: Exchange of experience of lead assessors (ISO/IEC 17025) (October 2013)

PTB Project Promotion of regional cooperation in South East Europe in the fiel of quality infrastructure: Training Seminar on the revision of ISO IEC 17020:2012 and aplication in regular area, ESYD (April 2014)

PTB Project Promotion of regional cooperation in South East Europe in the fiel of quality infrastructure: Workshop: Exchange of experience of lead assessors (ISO/IEC 17020), (October 2014)

PTB Project Promotion of regional cooperation in South East Europe in the fiel of quality infrastructure: Training Seminar on flexibile scope (testing and medical labs) (Septembar 2014)

PTB Project Promotion of regional cooperation in South East Europe in the fiel of quality infrastructure: Workshop: Training of trainers (ToT) for lead assessors and assessors, (February 2016)

PTB Project Promotion of regional cooperation in South East Europe in the fiel of quality infrastructure: Training Seminar on accreditation for notification EA 2/17 ISO 17021 for notification purpose (Modules D, E, H), (April 2016)

Project QI Quality Infrastructure in the Western Balkans: Workshop WS11 "Implementacija EEE regulative" , Niš (Februar 2017)

Hand on training HOT 1 Requirements for notified bodies and notification criteria for conformity assessment bodies in the New Approach sector (Construction sector, Electrical equipment and electromagnetic compatibility sector and accreditation requirements for notification purposes), Berlin (June 2017)

Trainning: How to transition ISO / IEC 17025: 2004 to ISO / IEC 17025: 2017 in organisation StandardCert d.o.o. Beograd (Decembar 2017)

Project QI Quality Infrastructure in the Western Balkans Workshop on the implementation of the revised ISO/IEC 17025:2017 (NE16) Beograd (May 2018)

Regional Hands on training (HOT 22) ISO/IEC 17025:2017 General Requirements for the competence of testing and calibration laboratories in Lilestrom (Septembar 2018)

European Union funded project supported IBF International Consulting Alignment and Implementation of the EU Internal Market AIM II- Service Contract N CFCU/MNE/060 Two-day training "State of the art in the European accreditation and tendencies for future development on te new edition of standard EN ISO IEC 17011:2017 Regulation 765/2008 and EA MLA purpose" Podgorica (March 2019)

European Union funded project supported IBF International Consulting Alignment and Implementation of the EU Internal Market AIM II- Service Contract N CFCU/MNE/060 Three-day training "Implementation requirments of the new EN ISO /IEC 17011:2017 and its fulfilments" (March 2019)

European Union funded project supported IBF International Consulting Alignment and Implementation of the EU Internal Market AIM II- Service Contract N CFCU/MNE/060 Accreditation of medical laboratories according to the standard EN ISO 15189:2012 Medical laboratories, Requirments for quality and competence, Podgorica (June 2019)

European Union funded project supported IBF International Consulting Alignment and Implementation of the EU Internal Market AIM II- Service Contract N CFCU/MNE/060 Three-day training "EN ISO 15189:2012 Medical laboratories Requirement for quality and competence Interpretetation of requirment with practical examples" Podgorica (June 2019)

Project Regional Consultancy for Quality Infrastructure- South East Europe Technical cooperation project – PTB number 95330-02; *Implementation of remote assessments and consequences of the Covid-19 Crisis in general* (Video conference held 02 June 2020)

Project Regional Consultancy Fund for Quality Infrastructure – South East Europe” Technical cooperation project–PTB number 95330-02 *Workshop on Accreditation of CABs for sampling as standalone activity; Accreditation of laboratories for opinions and interpretation, Accreditation of CABs for statement of conformity* (Video conference held on 30 November – 01 December 2020)

Project Regional Consultancy for Quality Infrastructure- South East Europe Technical cooperation project–PTB number 95330-02; *Establishment of competence criteria for each accreditation scheme, Effective evaluation methods to demonstrate competence of accreditation body personnel* (Video conference held on 9 - 10. December 2020)

Project Regional Consultancy for Quality Infrastructure- South East Europe Technical cooperation project–PTB number 95330-02 *Virtual training Decision rules and statement of conformity (ILAC-G8:09/2019) and their relation with measurement uncertainty ; Specific aspects of accreditation for statement of conformity with case studies* (Video conference held on 22 March 2021)

Advisor for strategic and integration process Ministry of Tourism and Environment Government of Montenegro	09/2007 – 12/2007
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Creation of the Environmental reports, project analysis, international cooperation and implementation of international contracts (Conventions, Protocols and Agreements)

Professional associate Study program: Pharmacy University of Montenegro	09/2007 – 12/2007 09/2008 – 12/2008
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Execution of laboratory practices in Laboratory of chemistry (work with students)
Subject General and Inorganic Chemistry

Manager of Laboratory for testing of fuel Railway Company of Montenegro	04/2002 – 08/2007
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Testing of fuel and lubricants (sampling, preparing sample for testing, carry out procedure of testing according to standard methods and instruction of manufacturers measuring and test equipment),
Making of technical specifications for the purchasing of necessary resource in the process the modernization of Laboratory (reagents, consumable materials, measurement and test equipment),
Cooperation with to others staff of Laboratories of testing fuel in Montenegro.

Professor of Chemistry and Food items quality High School for Tourism, Trade and Catering “Sergije Stanić”, Podgorica, Montenegro	02/2001 – 09/2001
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Teaching according to the syllabus

Traineeship at Laboratory for the testing of lubricant and fuel Railway of Montenegro	07/1999 – 07/2000
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EDUCATION

2021- ongoing

Doctoral Academic Study "Sustainable development", Centre for Doctoral Studies, University of Montenegro

The first doctoral study program in English language, developed as the result of the Erasmus+ project for capacity building in the field of higher education, "Reform of Doctoral Studies in Montenegro and Albania - a Good Practice Paradigm", under the acronym MARDS

Master of Science

2008 – 2010 Faculty of Metallurgy-Technology, Podgorica, University of Montenegro

MSc Studies - Study program: Chemical Technology, Department: Ecology

Master's thesis: *Physical and chemical characterizations some derivative pirazols and newly synthesized Ni(II) complex and their influence on the inhibition mycelium fungus Phomopsis viticola (Sacc.)Sacc.*

The scientific contribution of this master paper is reflected in the synthesis of the physical-chemical characterisation of new nickel compounds with the ligands of pyrazole and the examination of their potential use as an active fungicide substance. This work has given data for the serious scientific research in order to register new chemicals, potential active fungicide substances.

1993 – 1999 Faculty of Metallurgy-Technology, Podgorica, University of Montenegro

Graduation thesis: Testing of ground-water in the environment of Factory of aluminum in Podgorica

1989 – 1993 High School "Slobodan Skerovic", Podgorica, Montenegro

1981 – 1989 Elementary school "Sutjeska", Podgorica, Montenegro

PUBLICATIONS:

A. Radović, M. Eraković "The Oxygen Regime of the Subterranean Waters in the Area Surrounding KAP (Aluminium Company)" presented at the 7th Counselling of the SQM 2003, with the participation of international scientists, September 10-12, 2003, Herceg Novi, Montenegro

A. Radović, D. Radivojević, S. Filipović "The Elements of Monitoring of the Water Systems of Karsts Aquifer Downstream of KAP " published in the Collection of Papers from the "Conference on Water 2004", June 8-11 2004. Bor, Serbia

A. Radović "Aspects of environment protection on Railway Company " presented at the 3rd Counselling of maintenance in function environmental protection KOD 2005, Bar 27-30 June 2005, Bar, Montenegro, Book of abstracts pp. 42

Radović, D, Radivojević, S, Filipović "Migration of specific pollutants from the hydrated alumina factory of the KAP (Aluminium Company) to the karsts aquifer of the Zeta valley" presented at 1st International Symposium of Chemistry and Environment, June 12-15, 2007, Budva, Montenegro. Book of abstracts pp.95

A. Radović, R. Nikolić, T. Radović "Accreditation and qualification of laboratories in Montenegro" Magazine Business Policy, Septembar 09-12, 2008, Budva Page(s) 65-69

T. Radović, Z. Krivokapić, A. Vujović, R. Nikolić, A. Radović "Improving the accreditation process based on non-compliance management in testing laboratories "FQ, 2013, page 40. National Conference on Quality

A. Radović, N. Latinović, Ž. Jaćimović: The influence of some pyrazole derivatives on development of Phomopsis Viticola (Sacc.) Sacc Fungi, presented at 1st International Symposium of Chemistry and Environment, June 12-15, 2007, Budva, Montenegro. Book of abstracts pp.190

Ž. Jaćimović, A. Radović, V. M. Leovac, Z. D. Tomić, I.R. Evans, "Binuclear Ni(II) complex with 3,5-dimethyl-1-thiocarboxamidepyrazole," *Zeitschrift für Kristallographie - New Crystal Structures* (ISSN:1433-7266), Volume 222, Issue 4, Dec. 2007, Page(s) 430 [10183]

A. Radović, N. Latinović, Ž. Jaćimović "The Influence of Some Pyrazole Derivatives and matching Newly Synthesized Ni(II) Complexes in the Inhibition of *Phomopsis viticola* (Sacc.) Sacc.," *Research Journal of Chemistry and Environment* (ISSN:0972-0626), Volume 16, Issue 1, Mar. 2012, Page(s) 07 [11433]
Research Journal of Chemistry and environment is indexed by Chemical Abstracts, SCIE and SCOPUS having Impact Factor 0.292

Ž. Jaćimović, M. Kosović, S. B. Novaković, G. Giester, A. Radović "Synthesis and crystal structure of Cu(II) and Co(II) complexes with 1,3-dimethyl-pyrazole-5-carboxylic acid ligand" *J. Serb. Chem. Soc* (2014), doi: 10.2298/JSC140722009J

M. Š Zaimović, M. Kosović Perutović, G. Jelušić, A. Radović, Ž. Jaćimović (2022) "The inhibitory effect of some pyrazole ligands and their Cu(II) complexes on the growth of *Escherichia coli*, *Klebsiella-Enterobacter* spp., and *Staphylococcus aureus*". *Front. Pharmacol.* 13:921157. doi: 10.3389/fphar.2022.921157

Other professional and personal characteristics:

Communicative, innovative, analytic

Strong interpersonal, organizational and communication skills

Able to work independently or cooperatively as part of a team as well as to work under pressure to meet project deadlines

Creative, dynamic, flexible and willing to take the initiative

Responsible, devoted, capable to meet all requirements and demands

Fond of researching, analyzing and evaluating the information

Commitment to continuous learning and professional development

Skills:

Excellent computer literacy

Good command of English

Excellent interpersonal skills

Valid driver's licence



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University of Montenegro

Broj / Ref: 03-4940
Datum / Date: 16.11.2020

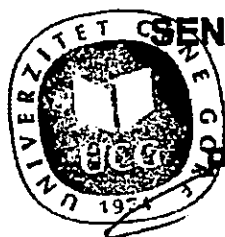
Crna Gora
UNIVERZITET CRNE GORE
METALURŠKO-TEHNOLOŠKI FAKULTET

Priljezi: 23. 11. 2020			
Org. jed.	Br. d.	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

📍 Faculty of Metallurgy and Technology, University of Montenegro
Cetinjski put, 81000, Podgorica, Crna Gora

☎ +382 69 281 968

✉ mkosovic@ucg.ac.me

🌐 http://www.nastava.ucg.ac.me/ucg/index.php/radnik/view?radnik_id=155030

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	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Engleski jezik	B2	B2	B2	B2	B2
Ruski jezik	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.Jačimović,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.Kosovic, Ž. Jačimović, 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. Jačimović, M. Kosović. N. Latinović, " The influence of newly synthesised Ni(II) comlexses 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 ,(NH₄)₃(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.Jačimović, 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. Jačimović, 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. Jačimović, I.Bošković, A. Radović, M. Kosović, N. Latinovic, „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. Jačimović, 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. Jačimović, 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.Jačimović, 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
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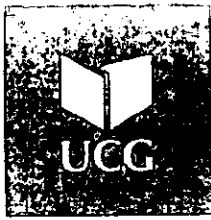
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 **SENAT UNIVERZITETA CRNE GORE**
PREDSJEDNIK
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Biografija

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 ekscorioze 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-Ćupina, 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.

Latinovic, 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.

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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.

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Latinovic, J., Sabovljevic, M., Vujcic, M., **Latinovic, N.**, Sabovljevic, 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.

Vujanovic, V., Kim, S.H., Latinovic, J., Latinovic, N. (2020): Natural Fungiculous 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.

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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., Sabovljevic S.M., Vujcic, M., Latinovic, J., Sabovljevic, 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.

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УНИВЕРЗИТЕТ ЦРНЕ ГОРЕ

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Број: 08-419
Датум, 25.03.2010. г.

Primijeno:	6.04.2010		
Opis pred.	Broj	Prilog	Vrijednost
Date:			
CS	244		

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

ODLUKU O IZBORU U ZVANJE

Dr **ŽELJKO JAĆIMOVIĆ** bira se u akademsko zvanje redovni profesor Univerziteta Crne Gore za predmete: Neorganska hemija, Hemijska veza i struktura molekula (dio: Struktura molekula) na studijskom programu Hemijska tehnologija na osnovnim akademskim studijama, Opšta i neorganska hemija, na Samostalnom studijskom programu Farmacija na osnovnim akademskim studijama i Neorganska hemija II, na studijskom programu Hemijska tehnologija na postdiplomskim specijalističkim studijama na Metalurško-tehnološkom fakultetu.

REKTOR

Prof. dr Predrag Miranović
Prof.dr Predrag Miranović

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-TACI*, 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 derivates 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 nacionalni 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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