

PERSONAL INFORMATION

Marko Mladenović



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Sex Male | Date of birth 31/03/1987 | Nationality Serbian

WORK EXPERIENCE

January 2017 – Teaching Assistant
and
September 2013 – January 2014
Faculty of Science and Mathematics, University of Niš, Serbia; www.pmf.ni.ac.rs
▪ Teaching: laboratory practice in Preparative organic chemistry and Organic synthesis

May 2013 - Research Assistant
Faculty of Science and Mathematics, University of Niš, Serbia; www.pmf.ni.ac.rs
Isolation/synthesis, spectral characterization and evaluation of biological activities of natural products; development of new analytical methods for structure elucidation of natural products in inseparable complex mixtures; chemotaxonomy; combinatorial libraries; synthesis of potentially bioactive ferrocene-containing molecules

February 2011 - April 2013 Junior Researcher
Faculty of Science and Mathematics, University of Niš, Serbia; www.pmf.ni.ac.rs

EDUCATION

2010 - 2017 PhD in Chemistry – Organic chemistry and biochemistry
Doctoral studies at Faculty of Science and Mathematics, University of Niš, Serbia
▪ Thesis title: “Combinatorial libraries of selected natural and synthetic biologically active esters”, supervised by professor Dr. Niko Radulović

2002 - 2010 BSc degree in Chemistry
Studies of chemistry at Faculty of Science and Mathematics, University of Niš, Serbia

2002 - 2006 High School “Stevan Jakovljević”, Vlasotince, Serbia (valedictorian)

PERSONAL SKILLS

Mother tongue(s) Serbian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	upper intermediate	upper intermediate	upper intermediate	upper intermediate	B2

- Communicational / organisational skills**
- Good communication skills acquired through experience as a teaching assistant and researcher, as well as, in training Serbian high-school students for the “International Chemistry Olympiad”
 - Good organisation skills gained through the organisation of:
 - popular science lectures under the auspices of “Serbian Young Chemists' Club”
 - state and local competitions in chemistry for high-school students
 - Responsible, dependable, teachable, initiative, persistent, dedicated, cooperative, people-oriented, communicative, well-organized, multitasking, optimistic
- Job-related skills**
- Good command of general synthetic, separation, isolation and purification techniques
 - Good command of methods for the elucidation of the structure of organic compounds (UV-Vis, GC-MS, IR and NMR)
 - Good expertise in the analysis of essential oils and plant waxes (using GC-MS, GC-FID and 1D- and 2D-NMR)
 - Good skills in biological activity evaluation (e.g. inhibition of acetyl cholinesterase, anti-inflammatory, anti-nociceptive and anxiolytic activity)
- Computer skills**
- Good computer expertise with MS Office tools (Word, Excel, Power Point, etc.) and chemistry dedicated software (ChemBioOffice, MestReNova, WinDNMR, AMDIS/NIST)
 - Good command of web research tools (SciFinder, Scopus)
 - Good command in multivariate statistical analysis (XLSTAT)
- Driving licence**
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ADDITIONAL INFORMATION

- Projects**
- National research projects:
- Combinatorial Libraries of Heterogeneous Catalysts, Natural Products, Modified Natural Products and Analogues: The Approach to New Biologically Active Agents (01/2011 -).
 - Scientists Nights
- Referees**
- Dr. Radulović S. Niko
Full Professor at University of Niš
Faculty of Sciences and Mathematics, Department of Chemistry
Višegradska 33, 18000 Niš, Serbia
Tel (fax) +381 18 533014
Mob.: +381 62 80 49 210
e-mail: nikoradulovic@yahoo.com
- Dr. Blagojević D. Polina
Associate Professor at University of Niš
Faculty of Sciences and Mathematics, Department of Chemistry
Višegradska 33, 18000 Niš, Serbia
Tel (fax) +381 18 533014
Mob.: +381 62 80 49 213
e-mail: blagojevicpolina@gmail.com
- Memberships**
- Serbian Chemical Society
 - Serbian Young Chemists' Club
 - Astronomical society 'Alpha'

ANNEXES

- Publications in international SCI-journals with peer review;
- Other Publications;
- International Conferences;
- National Conferences;
- Honours and Awards.

Publications in international SCI-journals with peer review

1. Marko Z. Mladenović, Niko S. Radulović, "The essential oil of *Achillea ageratifolia* (Sm.) Boiss. subsp. *serbica* (Nyman) Heimerl (Asteraceae) revisited: the stereochemical nomenclature issues, structural elucidation and synthesis of (new) sabinyl esters", *Flavour and Fragrance Journal* **2017**, *32*, 5-23. (SCI IF₂₀₁₅ = 1.693)
2. Niko S. Radulović, Vojkan M. Miljković, Marko Z. Mladenović, Goran S. Nikolić "Essential oils of *Morus alba* and *M. nigra* leaves: Effect of drying on the chemical composition", *Natural Product Communications* **2017**, *12*, 115-118. (SCI IF₂₀₁₅ = 0.884)
3. Tatjana Lj. Mitrović, Slaviša M. Stamenković, Vladimir J. Cvetković, Niko S. Radulović, Marko Z. Mladenović, Milan S. Stanković, Marina D. Topuzović, Ivana D. Radojević, Olgica D. Stefanović, Sava M. Vasić, Ljiljana R. Čomić, Dragana S. Šeklić, Ana D. Obradović, Snežana D. Marković, "Contribution to the knowledge of the chemical composition and biological activity of the lichens *Cladonia foliacea* Huds. (Wild.) and *Hypogymnia physodes* (L.)", *Oxidation communications* **2016**, *38*, 2016-2032. (SCI IF₂₀₁₅ = 0.489)
4. Niko S. Radulović, Marko Z. Mladenović, Pavle J. Randjelovic, Nikola M. Stojanović, Milan S. Dekić, Polina D. Blagojević "Toxic essential oils. Part IV: The essential oil of *Achillea falcata* L. as a source of biologically/pharmacologically active *trans*-sabinyl esters", *Food and Chemical Toxicology* **2015**, *80*, 114-129. (SCI IF₂₀₁₅ = 3.584)
5. Niko S. Radulović, Marko Z. Mladenović, Zorica Stojanović-Radić, Goran A. Bogdanović, Dragana Stevanović, Rastko D. Vukićević "Synthesis, characterization and antimicrobial evaluation of a small library of ferrocene-containing acetoacetates and phenyl analogs - the discovery of a potent anticandidal agent", *Molecular Diversity* **2014**, *18*, 497-510. (SCI IF₂₀₁₄ = 1.896)
6. Niko S. Radulović, Marko Z. Mladenović, Zorica Stojanović-Radić, "Synthesis of small libraries of natural products: New esters of long-chain alcohols from the essential oil of *Scandix pecten-veneris* L. (Apiaceae)", *Flavour and Fragrance Journal* **2014**, *29*, 255-266. (SCI IF₂₀₁₄ = 1.970)
7. Niko S. Radulović, Marko Z. Mladenović, Polina D. Blagojević, "(Un)Targeted Metabolomics in Asteraceae: Probing the Applicability of Essential-Oil Profiles of *Senecio* L. (Senecioneae) Taxa in Chemotaxonomy", *Chemistry and biodiversity* **2014**, *11*, 1330-1353. (SCI IF₂₀₁₄ = 1.515)
8. Tatjana Mitrović, Slaviša Stamenković, Vladimir Cvetković, Niko Radulović, Marko Mladenović, Milan Stanković, Marina Topuzović, Ivana Radojević, Olgica Stefanović, Sava Vasić, Ljiljana Čomić, "*Platismatia glauca* and *Pseudoevernina furfuracea* lichens as sources of antioxidant, antimicrobial and antibiofilm agents", *EXCLI Journal* **2014**, *13*, 938-953. (SCI IF₂₀₁₄ = 0.857)
9. Niko S. Radulović, Marko Z. Mladenović, Polina D. Blagojević, Zorica Z. Stojanović-Radić, Tatjana Ilic-Tomic, Lidija Senerovic, Jasmina Nikodinovic-Runic "Toxic essential oils. Part III: Identification and biological activity of new allylmethoxyphenyl esters from a Chamomile species (*Anthemis segetalis* Ten.)", *Food and Chemical Toxicology* **2013**, *62*, 554-565. (SCI IF₂₀₁₃ = 2.610)
10. Niko S. Radulović, Marko Z. Mladenović, Polina D. Blagojević, "A 'Low-Level' Chemotaxonomic Analysis of the Plant Family Apiaceae: The Case of *Scandix balansae* Reut. ex Boiss. (Tribe Scandiceae)", *Chemistry and biodiversity* **2013**, *10*, 1202-1219. (SCI IF₂₀₁₃ = 1.795)
11. Niko S. Radulović, Marko Z. Mladenović, Nevenka D. Đorđević, "Chemotypification of *Astrantia major* L. (Apiaceae): Essential oil and Lignan Profiles of fruits", *Chemistry and biodiversity* **2012**, *9*, 1320-1337. (SCI IF₂₀₁₂ = 1.808)

Other Publications

1. Marko Z. Mladenović, Niko S. Radulović, "Quantitative structure-retention relationship of gas chromatographic retention indices of long-chain esters: The case of *Scandix-pecten veneris* L. essential-oil constituents", *Facta Universitatis, Series Physics, Chemistry and Technology* **2016**, *14*, 97-104.

International Conferences

1. N. S. Radulović, M. Z. Mladenović; New esters of long chain alcohols and isobutanoic and isovaleric acids from the essential oil of *Scandix pecten-veneris* L. (Apiaceae); P-19, Book of Abstract 2012, 43th International Symposium on Essential Oils, Lisbon, Portugal.

2. N. S. Radulović, P. D. Blagojević, M. Z. Mladenović; Volatile secondary metabolites of *Senecio vernalis* Waldst. & Kit.; P-20, Book of Abstract 2012, 43th International Symposium on Essential Oils, Lisbon, Portugal.
3. N. S. Radulović, M. Z. Mladenović, N. D. Đorđević; Chemotypification of *Astrantia major* L. (Apiaceae) inferred from its fruit essential oil profile; P-29, Book of Abstract 2012, 43th International Symposium on Essential Oils, Lisbon, Portugal.
4. P. J. Randelović, N. S. Radulović, M. Z. Mladenović, N. M. Stojanović, M. S. Dekić; Biologically active *trans*-sabinol esters from the essential oil of *Achillea falcata* L. (Asteraceae); PP-160, Book of Abstract 2014, 45th International Symposium on Essential Oils, Istanbul, Turkey.
5. P. D. Blagojević, N. S. Radulović, M. Z. Mladenović, Z. Z. Stojanović-Radić, T. Ilić-Tomić, L. Senerović, J. Nikodinović-Runić; Identification and biological activity of allylmethoxyphenyl esters from *Anthemis segetalis* Ten. (Asteraceae) essential oil; PP-163, Book of Abstract 2014, 45th International Symposium on Essential Oils, Istanbul, Turkey.
6. N. S. Radulović, M. Z. Mladenović, M. D. Vukićević, R. D. Vukićević; Volatile secondary metabolites of *Conocephalum conicum* (L.) Dum. from Serbia; PP-150, Book of Abstract 2014, 45th International Symposium on Essential Oils, Istanbul, Turkey.
7. P. D. Blagojević, N. S. Radulović, M. Z. Mladenović; Chemical analysis of *Scandix balansae* Reut. ex Boiss. (tribe Scandiceae) fruit essential oil and a "low-level" chemotaxonomic analysis of the plant family Apiaceae; PP-164, Book of Abstract 2014, 45th International Symposium on Essential Oils, Istanbul, Turkey.
8. P. Blagojević, N. Radulović, M. Mladenović, M. Dekić, N. Stojanović, P. Randelović; Something old, something new: bioactive *trans*-sabinyl esters from *Achillea falcata* L. (Asteraceae); 2015, 2nd International Conference on Natural Products Utilization, Plovdiv, Bulgaria.
9. N. M. Stojanović, P. J. Randjelović, I. R. Ilić, M. Z. Mladenović, N. S. Radulović; The first report on the acute toxicity of the highly valued essential oil of lemon balm (*Melissa officinalis* L., Lamiaceae) in female BALB/c mice; OP-1, Book of Abstract 2016, 47th International Symposium on Essential Oils, Nice, France.
10. V. M. Mijlković, M. Z. Mladenović, G. Nikolić, N. S. Radulović; Effect of drying on the volatile profile of *Morus alba* L. and *M. nigra* L. leaves; PP-59, Book of Abstract 2016, 47th International Symposium on Essential Oils, Nice, France.
11. N. S. Radulović, M. Z. Mladenović; Complete assignment of ¹H- and ¹³C-NMR spectra of two new esters of *trans*-sabinol from *Achillea ageratifolia* (Sm.) Boiss. var. *serbica* (Nyman) Hayek (Asteraceae); P-19, Book of Abstracts 2016, 18th Central and Eastern European NMR Symposium & Bruker User's Meeting, Sofia, Bulgaria.
12. N. S. Radulović, M. Lj. Krstić, M. Z. Mladenović; Chemotaxonomy of the genus *Tordylium* L. based on the essential-oil chemical composition: the case of *Tordylium maximum* (Apiaceae); P-16, Book of Abstract 2017, 48th International Symposium on Essential Oils, Pécs, Hungary.
13. N. M. Stojanović, N. S. Radulović, M. Z. Mladenović; The essential oil of *Melissa officinalis* L. (Lamiaceae): composition, structural elucidation and synthesis of new constituents; P-18, Book of Abstract 2017, 48th International Symposium on Essential Oils, Pécs, Hungary.
14. N. S. Radulović, M. Z. Mladenović, N. M. Stojanović, P. J. Randjelović, P. D. Blagojević; A new bioactive presilphiperfolane diol from *Pulicaria vulgaris* Gaertn. (Asteraceae) essential oil; P-33, Book of Abstract 2017, 48th International Symposium on Essential Oils, Pécs, Hungary.
15. N. M. Stojanović, P. J. Randjelović, M. Z. Mladenović, N. I. Stojilković, N. S. Radulović; Short-term inhalation of lemon balm (*Melissa officinalis* L.) essential oil does not affect human cognitive functions; P-95, Book of Abstract 2017, 48th International Symposium on Essential Oils, Pécs, Hungary.

National Conferences

1. N. S. Radulović, M. Z. Mladenović; Synthesis of methoxy-(propenyl)phenyl esters from the essential oil of *Anthemis segetalis* Ten. (Asteraceae); BH15-P, Book of Abstracts 2011, 49th Meeting of the Serbian Chemical Society, Kragujevac, Serbia.
2. N. S. Radulović, M. Z. Mladenović; New octadecyl esters from the essential oil of *Scandix balansae* Reut. ex Boiss (Apiaceae) fruits; BH-P4, Book of Abstracts 2012, 50th Meeting of the Serbian Chemical Society, Belgrade, Serbia.

3. N. S. Radulović, M. Z. Mladenović; New esters of long chain alcohols and isobutanoic and isovaleric acids from the essential oil of *Scandix pecten-veneris* L. (Apiaceae); HA P16, Book of Abstract 2012, First international conference of young chemists of Serbia, Belgrade, Serbia.
4. N. S. Radulović, P. D. Blagojević, M. Z. Mladenović; Volatile secondary metabolites of *Senecio vernalis* Waldst. & Kit.; HA P17, Book of Abstract 2012, First international conference of young chemists of Serbia, Belgrade, Serbia.
5. N. S. Radulović, M. Z. Mladenović, P. D. Blagojević; A low-level chemotaxonomic analysis of the plant family Apiaceae: the case of *Scandix balansae* Reut. ex Boiss. (tribe Scandiceae); Book of Abstract 2013, 11th Symposium on the Flora of Southeastern Serbia and Neighbouring Regions, Vlasina, Serbia.
6. M. Z. Mladenović, N. S. Radulović, Z. Z. Stojanović-Radić, D. Stevanović, R. D. Vukićević; Synthesis, characterization and antimicrobial evaluation of a small library of ferrocene-containing acetoacetates and phenyl analogs-the discovery of a potent anticandidal agent; OH-P01, Book of Abstracts 2014, 51th Meeting of the Serbian Chemical Society, Niš, Serbia.
7. N. S. Radulović, M. G. Nikolić, M. Z. Mladenović, R. D. Vukićević; Synthesis and spectral characterization of a library of 1-phenylpyrazoles containing a ferrocene unit and their phenyl analogues; OH-P03, Book of Abstracts 2014, 51th Meeting of the Serbian Chemical Society, Niš, Serbia.
8. M. Z. Mladenović, N. S. Radulović; New esters of *trans*-sabinol from the essential oil of *Achillea serbica* Nym. (Asteraceae): synthesis and structural elucidation; HA P09, Book of Abstract 2015, Third international conference of young chemists of Serbia, Belgrade, Serbia.
9. M. Z. Mladenović, N. S. Radulović, S. Filipović; The essential oil of *Achillea ageratifolia* (Sm.) Boiss. subsp. *serbica* (Nyman) Heimerl (Asteraceae) revisited: structural elucidation and synthesis of (new) sabinyl esters; Book of Abstract 2016, 12th Symposium on the Flora of Southeastern Serbia and Neighbouring Regions, Kopaonik, Serbia.

Honours and Awards

- Scholarship for the best students, Vlasotince (2009, 2014, 2016, 2017)
- Scholarship for the best students of chemistry and pharmacology from Hemofarm foundation (2013)
- Annual Award of the Serbian Chemical Society for outstanding success during the studies (2011)
- Serbian Chemical society award for the organization of Republican contest for high school students, on May 2011 at the Faculty of Sciences in Nis (2011)
- Prince Karađorđević Annual Award for outstanding success in high school (2006)