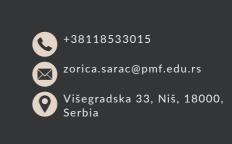
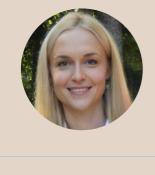
# Zorica Mitić (Née Šarac)

ASSOCIATE PROFESSOR





Mathematics, University of

Niš in 2007, and earned her PhD from the Faculty of Biology, University of

Belgrade in 2014. She is

#### Zorica Mitić (née Šarac) graduated from the Faculty of Sciences and

ABOUT ME

currently employed as an Associate Professor at the Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš. Zorica's research interests include plant chemotaxonomy / chemophenetics, chemoecology, phytochemistry, plant morphology, systematics and applied botany, with a focus on biological activity of specialized plant metabolites. She has also acted as a Guest Editor for several Special Issues of Forests, an open-access, peer-reviewed scientific journal, including "Tree Traits and Chemistry," "Specialized Metabolites and Structure of Woody Plants," and "Essential Oil **Composition of Forest** Trees." Additionally, she has successfully participated in 11 national and one international scientific research projects.

## SKILLS

Academic Publishing

Serbia / 2014

**Doctor of Science -**

**Biological Sciences** 

**EDUCATION** 

Faculty of Biology, University of

Belgrade / Belgrade,

Ph.D.

Research Methodology Thesis Supervision

Literature Review

Academic Research

Course Design

Curriculum Development

LINKS

**ORCID:** 

**SCOPUS:** 

SciProfiles: SciProfiles: 3051426

**Grant Writing** 

Scopus Author ID: 57190220784 **SCOPUS:** 

Scopus Author ID: 55570649400

https://orcid.org/ 0000-0001-962

## LANGUAGE

English

INTERNSHIPS

Academic visit

University

2023

Hunan Agricultural

(HUNAU) / Hunan, China / Nov 2023 - Dec

Implementation of a

Acadademic visit

Hunan Agricultural

(HUNAU) / Hunan,

Implementation of a Professional Visit and

China / Nov 2024 - Nov

Academic Residency at the

Professional Visit and

Academic Residency at the

HOBBIES

Swimming

#### College of Environment and Ecology, Hunan Agricultural University, Hunan, China

University

2024

College of Environment and Ecology, Hunan Agricultural University, Hunan, China School of Liquid Chromatography Faculty of Chemistry, University of

Belgrade / Belgrade,

Summer School of Mass

Faculty of Sciences and

Mathematics, University

of Niš / Niš, Serbia / Jul

Serbia / Sep 2008

Spectrometry

2008

COURSES Instrumental Methods in **Biology** Department of Biology and Ecology, Faculty of

Mathematics, University

of Niš, Serbia / Present

Field Research in Biology

Department of Biology and Ecology, Faculty of

Mathematics, University

of Nis, Serbia / Present

Department of Biology

and Ecology, Faculty of

Mathematics, University

of Niš, Serbia / Present

and Ecology, Faculty of

Mathematics, University of Niš, Serbia / Present

Secondary Metabolites of

a Selected Plant Taxon

Department of Biology and Ecology, Faculty of

Mathematics, University of Niš, Serbia / Present

Sciences and

Sciences and

**Medicinal Plants** 

### **Biochemical Systematics** of Plants Department of Biology

Sciences and

Sciences and

Ethnobotany

Sciences and

Department of

Sciences and

Nationality

Serbian

Full

Chemistry, Faculty of

Mathematics, University

of Niš, Serbia / Present

**Botany** 

Sciences and

Molecular Systematics of **Plants** Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Serbia / Present

Department of Biology and Ecology, Faculty of

Mathematics, University of Niš, Serbia / Present

**PERSONAL** DETAILS Date of birth 03 Oct 1982

**DRIVING LICENSE** 

**Driving license category** 

## **Associate Professor**

WORK EXPERIENCE

Department of Biology and Ecology, Faculty of Sciences and

**Assistant Professor** 

Mathematics, University of Niš / Niš, Serbia / Dec 2020 - Present

Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš / Niš, Serbia / Mar 2015

**Teaching Assistant** 

Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš / Niš, Serbia / Feb 2011

**Junior Teaching Assistant** Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš / Niš, Serbia / Feb 2009

Biological activity of essential oils of Calocedrus decurrens and

Cupressus arizonica on Lymantria dispar larvae and Phytophthora

**PUBLICATIONS** 

## Bioactivity of Chamaecyparis lawsoniana (A. Murray) Parl. and

Industrial Crops & Products

**Industrial Crops & Products** 

Carpathians **Forests** 

**Forests** 

genetic investigations

morpho-anatomy

cephalonica Phytochemistry

regis Mattf. **Botany Letters** 

Chemistry & Biodiversity

Drosophila melanogaster. Chemistry & Biodiversity

Plant Biosystems

Chemistry & Biodiversity

Chemistry & Biodiversity

Chemistry & Biodiversity

Chemistry & Biodiversity

Ohba x telephium (L.) H. Ohba

Flavour and Fragrance Journal

from plastid and mitochondrial data

Computers in Biology and Medicine

Plant Biosystems

Silva Fennica

omorika

wings

Šumarski list

antimicrobial activity

Chemistry & Biodiversity

Archives of Biological Sciences

**Natural Product Communications** 

species in relation to natural weathering

Iheringia, Série Botânica, Porto Alegre

microelements in Trifolium L. species

**Biochemical Systematics and Ecology** 

**Natural Product Communications** 

Biochemical Systematics and Ecology

revealed by nuclear EST-microsatellites

Botanica Serbica

mountains

Genetika

Plant Biosystems

Pinus heldreichii, P. nigra and P. peuce

the essential oils of five Achillea species

Journal of Essential Oil-Bearing Plants

Trees - Structure and Function

root pathogens

Thuja plicata Donn ex D. Don essential oils on Lymantria dispar (Linnaeus, 1758) (Lepidoptera: Erebidae) larvae and Phytophthora de Bary 1876 root pathogens **Industrial Crops & Products** 

Chemical composition, antimicrobial and insect larvicidal activity **Industrial Crops & Products** Terpene composition and morpho-anatomical properties of Picea omorika needles from Bosnia and Herzegovina

Comparative study of the essential oils of four Pinus species:

Essential oils of Pinus halepensis and P. heldreichii: Chemical

composition, antimicrobial and insect larvicidal activity

**Forests** Diversity of needle terpenes among Pinus taxa

Forests Morpho-anatomical characteristics and volatile profiles of Pinus nigra J.F.Arnold from the Balkan Peninsula and Southern

Biological activities of Chamaecyparis lawsoniana (A.Murray bis) Parl. and Thuja plicata Donn ex D.Don essential oils: toxicity, genotoxicity, antigenotoxicity, and antimicrobial activity Forests

Geographic differentiation of Abies alba, A. x borisii-regis, and A.

cephalonica populations at the Balkan Peninsula based on needle

Needle volatiles as chemophenetic markers in differentiation of

natural populations of Abies alba, A. x borisii-regis, and A.

Autochthonous conifers of family Pinaceae in Europe: broad review

of morpho-anatomical and phytochemical properties of needles and

Essential oil variability in the genetically depauperate Mediterranean pine Pinus pinea L. Chemistry & Biodiversity Variability of qualitative morpho-anatomical characteristics of

needles in Abies alba Mill., A. cephalonica Loud., and A. borisii-

Jevtović S., Tošić S.B., Mrmošanin J.M., Mitić Z.S., Đukić M.G.,

microelements of the root and leaf of the Hylotelephium H. Ohba species, hybrids and cultivars as variables for their differentiation

Stojanović G.S. (2025) Headspace volatiles, macro- and

cephalonica from the Balkans: chemophenetic and ecological aspects Chemistry & Biodiversity

Essential oils of three Balkan Abies species: chemical profiles, antimicrobial activity and toxicity toward Artemia salina and

Chemical composition, antimicrobial and toxicological evoluation of

Diversity of nonacosan-10-ol and n-alkanes among 12 Pinus taxa

Cuticular wax variability of Abies alba, A. x borisii-regis and A.

antimicrobial potential and toxicity toward crustaceans Chemistry & Biodiversity Pseudotsuga menziesii (Pinaceae): volatile profiles, antimicrobial activity and toxicological evaluation of its essential oil

Essential oils of six Achillea species: chemical profiles,

evidence from multivariate statistical analysis

Plant Biosystems Epicuticular waxes provide insights into phytochemical differentiation of natural populations of Pinus mugo Turra sensu stricto.

Chemotaxonomic considerations of the n-alkane composition in

Morphological variability of Tragopogon pterodes Pančić ex

Petrović achenes: taxonomic evaluation of heterocarpy

Terpenes are useful markers in differentiation of natural

Variation of needle volatiles in native populations of Pinus mugo -

Pinus and Pinaster Chemistry & Biodiversity Volatile profiles of the orpines roots: Hylotelephium telephium (L.)

H. Ohba, H. maximum (L.) Holub and H. spectabile (Boreau) H.

Epidermal structures and composition of epicuticular waxes of

Sedum album sensu lato (Crassulaceae) in Balkan Peninsula

Needle terpenes as chemotaxonomic markers in Pinus: subsections

populations of relict pines Pinus heldreichii, P. nigra and P. peuce

Geographically related variation in epicuticular wax traits of Pinus nigra populations from Southern Carpathians and Central Balkans taxonomic considerations Chemistry & Biodiversity

Genetic patterns in Pinus nigra from the central Balkans inferred

Biological activity of Pinus nigra terpenes - evaluation of FtsZ

inhibition by selected compounds as contribution to their

Chemotaxonomic significance of the terpene composition in natural populations of Pinus nigra J.F. Arnold from Serbia

Composition of n-alkanes in natural populations of Pinus nigra from Serbia - chemotaxonomic implications Chemistry & Biodiversity Microelements variability in needles of natural populations of Picea

Dietary exposure to essential oils of selected Pinus and Abies

species leads to morphological changes in Drosophila melanogaster

The chemical composition of essential oil and headspace volatiles

Structural changes in needle epicuticular waxes of Balkan Abies

**Analytical Letters** n-Alkanes variability in natural populations of Picea omorika (Pančić) Purk. from Bosnia and Herzegovina

Terpene relationships among some soft and hard pine species

Evaluation of an inductively coupled plasma-atomic emission

spectrometry (ICP-AES) method for the determination of macro and

Population diversity of n-alkanes in the needle cuticular wax of relicts Pinus heldreichii and P. peuce from the Scardo-Pindic

Macedonian Journal of Chemistry and Chemical Engineering

Nonacosan-10-ol and n-alkanes in needles of Pinus halepensis

Variability of needle morpho-anatomy of natural Pinus heldreichii populations from Scardo-pindic mountains

First insights into micromorphology of needle epicuticular waxes of south-eastern european Pinus nigra J.F. Arnold populations Iheringia, Série Botânica, Porto Alegre

Relationships among some pines from subgenera Pinus and Strobus

Diversity of Picea omorika (Pančić) Purk. populations based on morpho-anatomical needle traits and bioclimatic parameters South-East European Forestry

borisii-regis from the central Rhodopes Biologica Nyssana Evaluation of wing morphology changes in Drosophila melanogaster

Chemical composition and distribution of the headspace volatiles in commercial culinary herbs and spices: chemometric approach

Cross-species amplification of nuclear EST-microsatellites

Morphological variability and differentiation of selected Achillea species (sections Achillea sensu lato and Anthemoideae) from Serbia Biologica Nyssana

treated with Pseudotsuga menziesii (Pinaceae) essential oil Application of canonical discriminant analysis in differentiation of

In vitro DNA protective potential of Chamaecyparis lawsoniana (A.Murray bis) Parl. and Thuja plicata Donn ex D.Don essential oils. 9th International Electronic Conference on Medicinal Chemistry,

of Balkan endemic taxon Achillea x vandasii Velen

Archives of Biological Sciences

Headspace volatiles isolated from twigs of Picea omorika from

Genetika (Beograd) Diversity of needle n-alkanes, primary alcohols and diterpenes in Balkan and Carpathian native populations of Pinus nigra J.F. Arnold

developed for other Pinus species in Pinus nigra Genetika Pharmacological activity of sesquiterpene lactones Biotechnology & Biotechnological Equipme

Variability of headspace volatiles in native population of Abies x

Nonacosan-10-ol and n-alkanes in leaves of Pinus pinaster **Natural Product Communications** Journal of the Serbian Chemical Society

natural populations of Pinus nigra in Serbia based on terpene composition Biologica Nyssana

Essential oil composition of one-year-old Bosnian pine needles International conference Reforestation Challenges, Proceedings,

Proceedings, Basel, Switzerland Belgrade, Serbia

Biologica Nyssana