



Department of Biology and Ecology,  
Faculty of Sciences and Mathematics  
University of Niš  
Institute for Nature Conservation of Serbia

# ABSTRACTS APSTRAKTI

**14<sup>th</sup> Symposium  
on the Flora of Southeastern Serbia  
and Neighboring Regions**

**Kladovo 26 to 29 June 2022**

**14. Simpozijum  
o flori jugoistočne Srbije  
i susednih regiona**

**Kladovo 26. do 29. jun 2022.**

**Niš-Belgrade, 2022**

Department of Biology and Ecology,  
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Abstracts

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## **Book of Abstracts**

### **Publishers**

**Department of Biology and Ecology, Faculty of Sciences and Mathematics,  
University of Niš  
Institute for Nature Conservation of Serbia, Belgrade**

### **Organizers**

**Department of Biology and Ecology, Faculty of Sciences and Mathematics,  
University of Niš  
Institute for Nature Conservation of Serbia, Belgrade**

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### **Printed by**

**Grafik Centar Beograd**

**Number of copies**

**210**

**Niš-Belgrade, 2022**

68/2022-14/200178). We are grateful to the Environmental Fund of the Federation of Bosnia and Herzegovina ([www.fzofbih.org.ba](http://www.fzofbih.org.ba)) for supporting this research.

## **Phytosociological analysis of stands dominated by *Carpinus orientalis* in gorges and canyons of Eastern Serbia**

**Sekulić, D.<sup>1</sup>, Karadžić, B.<sup>1</sup>, Kuzmanović, N.<sup>2</sup>, Jarić, S.<sup>1</sup>,  
Mitrović, M.<sup>1</sup>, Pavlović, P.<sup>1</sup>**

<sup>1</sup>Department of Ecology, Institute for Biological Research “Siniša Stanković” – National Institute of Republic of Serbia, University of Belgrade, Bulevar despota Stefana 142, 11000 Belgrade, Serbia

<sup>2</sup>University of Belgrade, Faculty of Biology, Institute of Botany and Botanical Garden “Jevremovac”, Department of Ecology and Geography of Plants, Takovska 43, 11000 Belgrade, Serbia

\* [dimitrije.sekulic@ibiss.bg.ac.rs](mailto:dimitrije.sekulic@ibiss.bg.ac.rs)

*Carpinus orientalis* Mill. is a xero-thermophilous tree species that grows mainly on slopes in shallow, humus-poor or even rocky soils, preferring calcareous substrates. In southeastern Europe, *C. orientalis* is a typical element of sub-Mediterranean vegetation, but it can also be found in warmer sites in the continental regions of its range. Using the Braun-Blanquet sampling methodology, we collected 102 relevés of stands dominated by *C. orientalis* in five gorges and canyons in eastern Serbia. Hierarchical cluster analysis of the dataset was performed using Flexible beta and Sorensen (Bray-Curtis) distance measure. Diagnostic, dominant and constant species for the identified clusters were determined using the measure of species fidelity. The results of the numerical analyses showed that the examined stands can be divided into four groups characterized by a distinct floristic composition with clearly defined diagnostic species. The most distinctive group includes stands on screes and stony habitats on steep slopes. Others include stands on both deep and skeletal soils, with different tree species as diagnostic, such as *Quercus petraea*, *Quercus pubescens*, *Carpinus betulus*, etc. All the studied groups are characterized by a high floristic richness, which make stands dominated by *C. orientalis* in ravine habitats a valuable natural resource worth protecting.

**Acknowledgments.** This research was funded by the Ministry of Education, Science and Technology Development of the Republic of Serbia (Contract No. 451-03-9/2021-14/200007 and 451-03-68/2022-14/200178).

**CIP - Каталогизација у публикацији  
Народна библиотека Србије, Београд**

581.9(4-924.64)(048)

581.5(4-924.64)(048)

615.322:582(4-924.64)(048)

SYMPOSIUM on the Flora of Southeastern Serbia and Neighbouring Regions (14 ; 2022 ; Kladovo)

[Book of] Abstracts / 14th Symposium on the Flora of Southeastern Serbia and Neighboring Regions, Kladovo, 26th to 29th June, 2022; [organizers] Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš Institute for Nature Conservation of Serbia ; [editors Vladimir Randelović ... [et al.]].

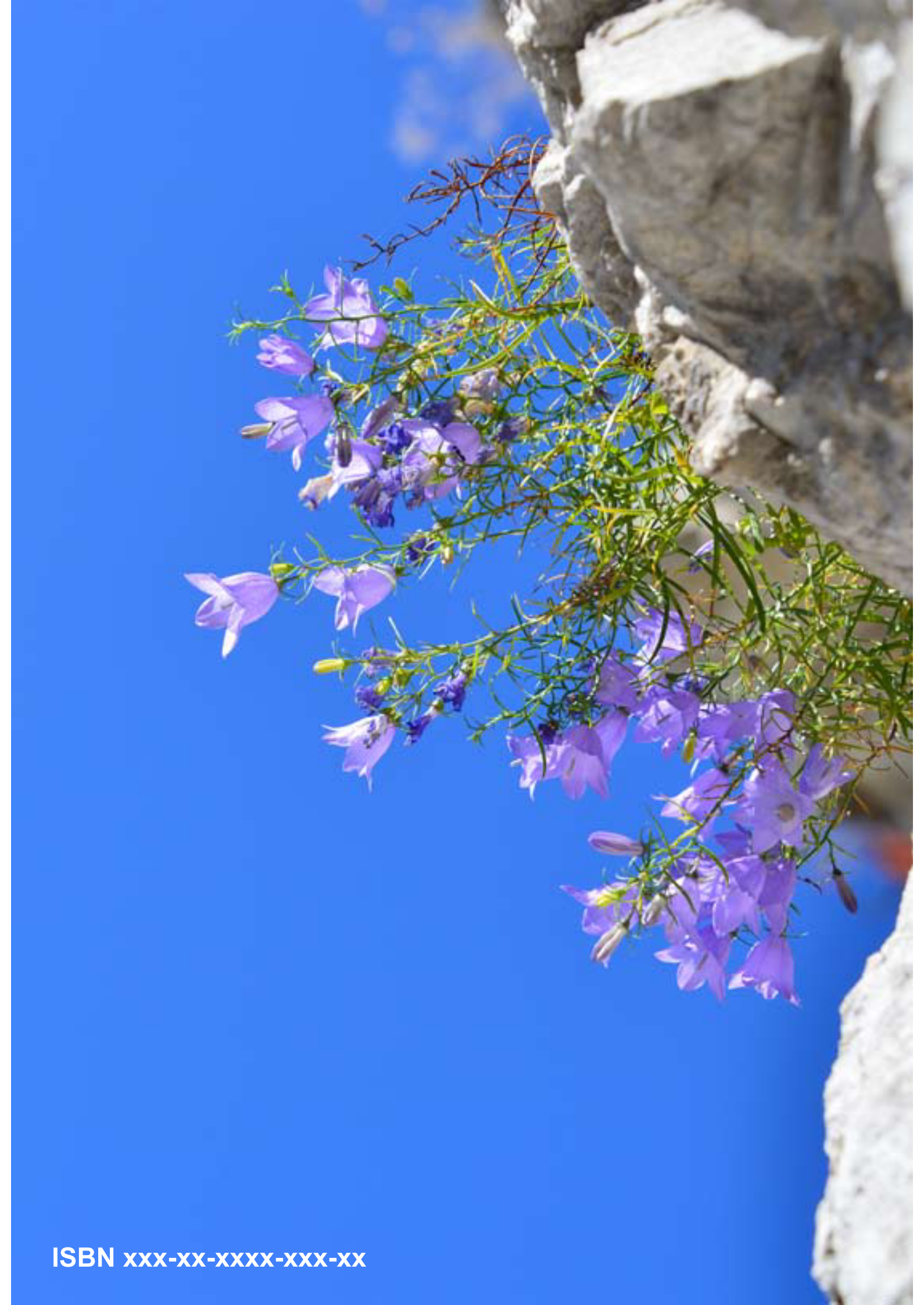
- Niš : Department of Biology and Ecology, Faculty of Science and Mathematics, University ; Belgrade : Institute for Nature Conservation of Serbia, 2022 (Beograd : Grafik Centar). - 216 str. ; 21 cm

Tiraž 210. - Registar.

ISBN 978-86-6275-140-9 (FSM)

a) Флора -- Балканско полуострво -- Апстракти b) Биљне заједнице -- Балканско полуострво -- Апстракти v) Лековите биљке -- Балканско полуострво -- Апстракти

COBISS.SR-ID 68500489



ISBN xxx-xx-xxxx-xxx-xx