

Bibliography of phycological research in Bosnia and Herzegovina (1849 – 2019)

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Abstract. The aim of this study is to compile a catalogue of phycological papers from Bosnia and Herzegovina published during the period 1894-2019. In addition to the catalogue, another specific goal is setting up an electronic database of the above-mentioned scientific papers. A total of 76 original scientific papers in the field of phycology were published during the mentioned period. The intended database will greatly help future research into cyanobacteria and algae in Bosnia and Herzegovina, as well as not only the protection of different groups of algae but also of their habitats.

Key words: algae, botany, catalogue, database, phycology

Introduction

Research into cyanobacteria and algae in Bosnia and Herzegovina has long standing. The first data on algae came out in the work of Kummer and Sendtner (1849) who had found two species of macroalgae: *Cladophora glomerata* (Linnaeus) Kützing (river Trstionica near Kakanj) and *Chara gymno-phylla* (A.Braun) A.Braun (river Stavnja near Podlugovi). When traveling across Bosnia (1864), prominent phycologist Ludwig Rabenchorst mentioned in his work two algal species: *Stauroneis truncata* J.W.G.Lund and *Cladophora crispata* (Roth) Kützing (Gligić, 1955).

The first review of the bibliography related to hydrobiological research in Bosnia and Herzegovina was published in the journal *Acta Ichthyologica Bosniae et Hercegovinae*, where the course of hydrobiological studies in the period 1849-1955 was presented chronologically. The most prominent authors of

this period were: Beck, Gavazzi, Gutwinski, Karlin-ski, Kummer, Protić, Rabenchorst, Schaaraschmidt (Gligić, 1955).

Bibliographic review of hydrobiological (phycological) research in Bosnia and Herzegovina has shown that nearly 65 years have passed. Still, the present study is the first comprehensive analysis which provides results in the form of bibliography related to phycological research in Bosnia and Herzegovina.

The main goal of the study has been to compile a catalogue of scientific papers in phycology in Bosnia and Herzegovina published in the scientific journals in the period 1894-2019. A specific goal of the study is to set an electronic database of those scientific papers. From that viewpoint, this study offers a significant contribution and support to phycological research in Bosnia and Herzegovina. The review does not cover publications from the *Proceedings*, nor those presented in the Book of Abstracts at scientific conferences.

Material and methods

The author relied on the above-mentioned paper of Gligić (1955) as a starting point for compiling a bibliography of phycological research.

In order to obtain a comprehensive overview of the further phycological research in Bosnia and Herzegovina, the printed materials and electronic archives of the scientific journals were searched first, and then the databases of scientific papers such as: Web of Science, Google Scholar, Scopus, etc. Key words for collecting literature were: algae, bimonitoring, rivers, lakes, and names of prominent phycologists from Bosnia and Herzegovina. All collected original scientific papers were entered into the Mendeley digital database, according to a unique matrix (<https://www.mendeley.com>), after which an electronic database in Microsoft Excel (Supplement data) was set.

The electronic database contains the following four sections on separate sheets: 1. Introduction, 2. Bibliography, 3. Citation, and 4. Authors Index. The Introduction section contains basic information about the database. In the Bibliography section, there is a bibliographic register with subsections (ID, Author /Authors, Title, Published in, Year, and Citation Key). In the Citation section there is a list of bibliography written according to APA citation criteria, while in the Authors Index section there is a list of authors associated with the publications ID.

As a result, a catalogue of phycological research bibliography in Bosnia and Herzegovina, published in the period 1849-2019, was compiled.

Results and discussion

In the period from 1849 to 2019, a total of 76 original scientific papers were published in the field of phycology. The largest number of papers was published in the *Herald of the National Museum of Bosnia and Herzegovina* (39), while the remaining 37 original scientific papers were published in the other scientific journals (Fig.1).

Analyzing the publication of papers by country, most papers were published in journals in Bosnia and Herzegovina (54), followed by papers published in Croatia (9), Serbia (2), Slovakia (1), Czech Republic (1), and Turkey (1). Three papers have been published in international journals, as follows: *Biodiversity and Conservation* (Blaženčić & al. 2006), *Nova Hedwigia* (Kapetanović & al. 2011) and *European Journal of Phycology* (Suppl.) (Mašić et al. 2019).

The process of publication of scientific papers can be divided into three periods, depending on the century they belong: first (1849-1900), second (1901-1991) and third (2006-2019). It could be noticed after reviewing the bibliography listed below that in the first period there were published 15 original scientific papers; the largest number of papers (37) was published during the longest second period, while during the shortest third period there were published 24 papers. Such publication dynamics indicated the enhanced interest in phycological research in Bosnia and Herzegovina and the need to create a database of the earlier phycological works.

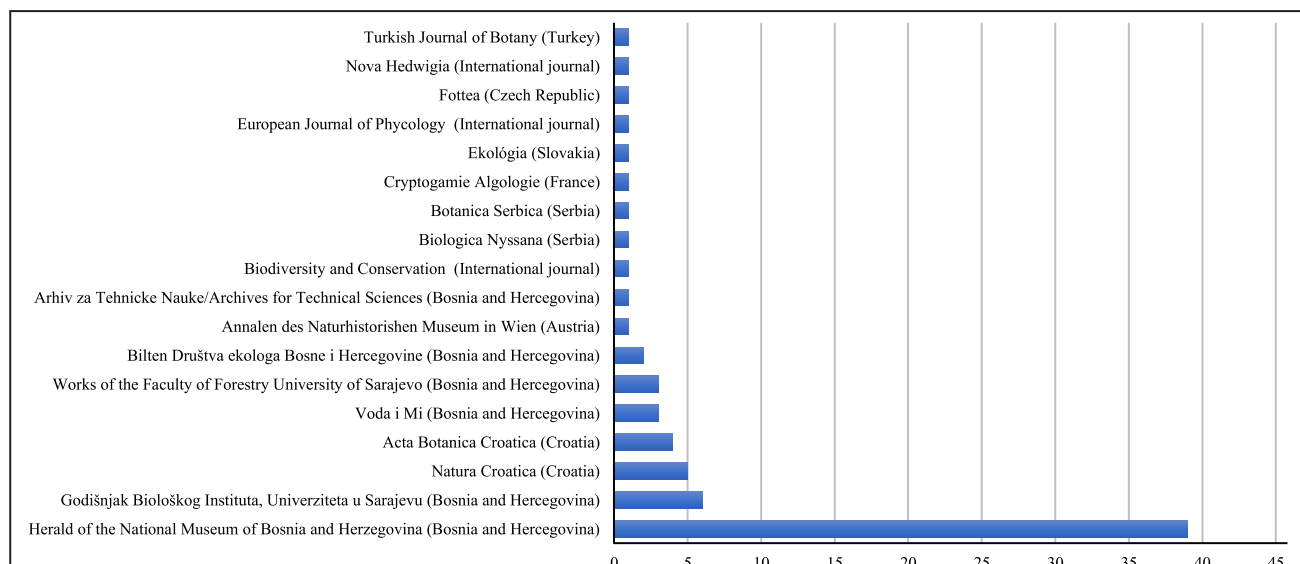


Fig. 1. Frequency of published papers distributed across the scientific journals.

The paper also presents a catalogue of bibliography of phycological research conducted in Bosnia and Herzegovina in the period 1849-2019.

Catalogue of bibliography of phycological research in Bosnia and Herzegovina (1849–2019):

1849

- **Kummer, A., Sendtner, O.** 1849. *Enumeration plantarum in itinere Sedtneriano in Bosnia lectorum cum, definitionibus novarum specearum et adumbrationibus obscurum varietatumque*. Flora, 32 (1): 1-10.

1864

- **Rabenhorst, L.** 1864. *Flora europaea algarum aquae dulcis et submarine*. Apud Eduardum Kummerum, Lipsiae. Centralna biblioteka Zemaljskog muzeja u Sarajevu.

1883

- **Schaarschmidt, I. G.** 1883. *Fragmenta phycologiae Bosniaco-Serbico*, I. Magyar, Növenytani Lapok, VII. pp. 33-39, Claudiopoli – Kluž.

1886

- **Beck, G.** 1886. Flora von Südbosnien und der angrenzenden Herzegovina. Annalen des Naturhistorischen Museum in Wien 1. Bd., 4: 271-325.

1893

- **Karlinski, J.** 1893. Die Messungen der Tiefe des Borkesees bei Konjic. Wissenschaftliche Mitteilungen aus Bosnien und Herzegovina, Wien.

1896

- **Gutwinski, R.** 1896. O nagjenim dosele u Bosni i Hercegovini halugama (isključivši diatomaceae). [On new algae found in Bosnia and Herzegovina (excluding diatomaceae)]. Glasnik Zemaljskog muzeja u Bosni i Hercegovini. VIII (3-4): 367-381.
- **Karlinski, J.** 1896. Flora kremenastih haluga ili gljivica (diatomea) u Bosni i Hercegovini. [Diatom flora in Bosnia and Herzegovina]. Glasnik Zemaljskog muzeja u Bosni i Hercegovini. VIII (2-3): 389-409.

1897

- **Gutwinski, R.** 1897. Über die bis jetzt in Bosnien und der Herzegovina entdeckten Algen (mit Ausschluss der Diatomaceen). Wissenschaftliche Mitteilungen aus Bosnien und Herzegovina, V: 453-462.
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Wissenschaftliche Mitteilungen aus Bosnien und Herzegovina, V: 464-479.

- **Protić, Đ.** 1897. Prilozi k poznavanju kremenjašica (diatomaceae) Bosne i Hercegovine. [Contributions to knowledge of diatom algae (diatomaceae) in Bosnia and Herzegovina]. Glasnik Zemaljskog muzeja u Bosni i Hercegovini, (2): 313-325.

1898

- **Gutwinski, R.** 1898. Prilog k poznavanju fosilnih diatomaceae u Bosni (Naslaga diatomaceae kod Petrova sela). [Contribution to the knowledge of fossil diatomaceae in Bosnia (Deposition of diatomaceae near Petrovo selo)]. Glasnik Zemaljskog muzeja u Bosni i Hercegovini, (1): 115-121.
- **Gutwinski, R.** 1898. Sistematični prijedlog resina (algae), sakupljenih po dr. Justinu Karlinskom u okolici Gračanice tečajem jeseni 1897. [Systematic overview of algae, collected by dr. Justin Karlinski in the vicinity of Gračanica in the autumn of 1897]. Glasnik Zemaljskog muzeja u Bosni i Hercegovini, (2): 365-375.
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1899

- **Gutwinski, R.** 1899. Über die von Hochw. Prof. Erich Brandis Soc. jes. in der Umgebungen von Travnik gesammelten Algen. Wissenschaftliche Mitteilungen aus Bosnien und Herzegovina, Wien, 6: 685-698.
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1901

- **Protić, Đ.** 1901. Treći prilog k poznavanju flore resina (alge) Bosne i Hercegovine. [The third contribution to the knowledge of the flora algae of Bosne and Herzegovina]. Glasnik Zemaljskog muzeja u Bosni i Hercegovini. XIII (2-3): 201-226.

1902

- **Gavazzi, A.** 1902. Der Plivasee. Wissenschaftliche Mitteilungen aus Bosnien und Herzegovina, Wien, 8: 334-339.

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- **Protić, Đ.** 1904. Prilog k poznavanju flore kriptogama (tajnocvjetaka) okoline Sarajeva. [A contribution to the knowledge of the flora of cryptogams around Sarajevo]. Glasnik Zemaljskog muzeja u Bosni i Hercegovini, (1): 61-72.
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- **Protić, Đ.** 1921. Algae (Alge) močvare u botaničkoj bašti zemaljskog muzeja u Sarajevu. [Algae in swamp in the botanical garden of the National Museum in Sarajevo]. Glasnik Zemaljskog muzeja u Bosni i Hercegovini, **XXXIII** – **XXXIV**: 33-36.
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