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A reference list of Turkish bryophytes. The state of knowledge from 1829 until 2017

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Abstract

A reference list of Turkish bryophytes published between 1829 and 2017 is presented, including a brief history of Turkish bryology. The list comprises 520 publications which focus largely on flora and taxonomy, vegetation and ecology of Turkish bryophytes. Some larger revisional studies are included in cases when they refer to Turkish records or if they include Turkish locality data. A new topic which come along within the last years are experimental studies based on Turkish material. They are included as well, however, may far away from being complete.

Key Words: Bibliography, bryophytes, liverworts, mosses, systematics, taxonomy, Turkey

Türkiye biryofitleri yayın listesi. 1829'dan 2017' ye bilgilerimizin durumu

Öz

Türk biryolojisinin kısa bir tarihi ile birlikte 1829 ve 2017 yılları arasında yayımlanmış makalelerin bir listesi sunulmuştur. Liste büyük çapta Türkiye biryofitlerinin flora ve taksonomisi ile vejetasyon ve ekolojileri üzerine odaklanmış 520 yayını içermektedir. Bazı daha geniş çaplı revizyon çalışmaları da Türkiye' den kayıt verdikleri veya mevki bildirdikleri durumlarda dahil edilmişlerdir. Son yıllarda ortaya çıkan deneysel çalışmalar da Türk karayosunlarının kullanımı yeni bir alan durumundadır. Bu çalışmalar da listeye eklenmiş olmakla birlikte bir kısmının eksikliği olasıdır.

Anahtar Kelimeler: Bibliografya, bryophyta, ciğerotları, yapraklı karayosunları, sistematik, taksonomi, Türkiye

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1. Introduction

Nearly two centuries ago, a paper of F. A. Müller (1829) was published including the description of *Grimmia nutans* Bruch in Müller (Müller 1829, p. 390). The species was collected by Max Fleischer in the Yamanlar Mountain near the city of İzmir. This was the first bryological study and starting point on the research and publication activities on Turkish bryophytes, raising up during the last 188 years to meanwhile 520 publications presented by native and foreign (mainly European) botanists.

Chronologically, these bryological activities on Turkish bryophytes can be divided into three main phases: (i) an early phase from 1829 till 1939; (ii) a second phase after the end of World War II from 1945 till 1968, and (iii) a third phase from 1969 onwards to date, where the number of publications dramatically increased, especially within the last two decades. The first and second phases on Turkish bryology are mainly influenced by foreign botanists with numerous excursions mostly organized for collecting flowering plants from Turkey. In many cases, bryophytes are collected additionally and later given to and identified by specialists, many of them never visited the country themselves. Examples for famous collectors in this period are J. Bornmüller, H. Czecczot, P. H. Davis, J. Dodds, M. Fleischer, Freiherr H. v. Handel-Mazzetti, C. Haussknecht, I. C. Hedge, A. Heider & K. Lancronski-Brzeize, K. Krause, F. Merton, O. Polunin, K. H. Rechinger or P. de Tchihatcheff. Their collections were identified by notable bryologists as J. Baumgartner, J. Fröhlich, D. M. Henderson, F. A. Müller, C. W. Muirhead, V. Schiffner and R. v. Wettstein. Exceptions are A. C. Crundwell, E. Nyholm, D. M. Henderson (who visited Turkey only once for three months) and K. Walther, who travelled in the country and identified their rich collections mainly by themselves. However, large parts of the Nyholm collection kept at S are still waiting for identification.

The third phase of Turkish bryology starts with K. Walther and E. Leblebici, with a paper on the bryophyte vegetation of Karagöl (İzmir, Yamanlar Mts.; cf. Walther & Leblebici 1969). This is the first bryological paper by a native Turkish co-author in the history of Turkish bryology.

After this beginning, an increase of Turkish bryologists at the Universities can be observed. 344 studies by 66 native authors were published on Turkish bryophytes in the following years, dealing mainly with topics such as flora, vegetation, ecology and morphology. Additional 39 manuscripts were published as a result of cooperation with foreign scientists and 137 papers were prepared by non-native bryologists. They include revisional studies of difficult taxa and often

include Turkish records and localities, to show distributional patterns and migration routes. A small - in future certainly increasing - number focus on bryophyte physiology (8 studies), cytotaxonomy (4 studies), chemistry (17 studies) and microbiological and medicinal use (4 studies) of bryophytes.

According to the latest checklist of Turkish bryophytes by Erdağ & Kürschner (2017) the bryophyte flora of Turkey at present comprises 960 species (*Bryophyta* 773, *Marchantiophyta* 183 and *Anthocerotophyta* 4) two subspecies (*Marchantiophyta*) and 86 varieties (10 hepatics and 76 mosses). Among these taxa, *Solenostoma lignicola* (Schiffn.) Váňa, Hentschel & J. Heinrichs, *S. subtile* (Schiffn.) R. M. Schust., *Cinclidotus asumaniae* Ursavaş & Çetin, *C. bistratosus* Kürschner & Lübenau – Nestle, *C. vardaranus* Erdağ & Kürschner, *Lescurea incurvata* (Hedw.) E. Lawton var. *revoluta* (Schiffn.) Erdağ & Kürschner, *Philonotis calcarea* (Bruch. & Schimp.) Schimp. var. *orthophylla* Schiffn., *P. calcarea* (Bruch. & Schimp.) Schimp. var. *seriatifolia* Schiffn. and *Polytrichastrum alpinum* (Hedw.) G. L. Smith var. *pyriforme* (J. Fröhl.) G. L. Smith are endemic species.

The present paper includes all publications dealing with Turkish bryophytes (bryoflora and vegetation) to give an overview on the state of knowledge for all students and scientists interested in Turkish bryophytes. It provides an easy access to what is known and what has been done in the field of bryology in Turkey.

LIST OF PUBLICATIONS

The list is arranged alphabetically by author/authors names and then chronologically in order of the first author. A total of 520 published articles is included and presented. Unpublished thesis (PhD, MSc) and reports are excluded from the list. Non bryological studies (mainly vegetation and experimental studies) are given when they contain bryophytes or locality data on bryophytes.

A

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