Water-in-Plants Bibliography

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FOREWORD

From the point of view of individual consumer there are too many scientific papers being produced and published every year, too many to be looked up in the tremendous and steadily increasing number and volume of scientific periodicals and proceedings from all over the world. This is not only the result of the "publish or perish" law, but also - let us hope mainly - the result of the increasing amount of true scientific information discovered.

Even in a single scientific field too many papers are to be preselected according to the individual interest and to be looked through in order to see what they are reporting on. [And of course they are too many in these preselected to be read and studied in detail. At the present nobody will help us with this last link of what is called the information chain. But let us not speak about this lamentable point now.]

Some tools are already well known and have been used to master more easily the overwhelming flood of scientific production as far as the first selection of information is concerned. Bibliographies covering specific fields are one of these tools. They extremely facilitate the preselection and when carefully indexed they give the user much more than a heap of selected titles.

Such a periodic bibliography in the field of plant-water relations is still lacking. This of course is unpardonable sin since what can be more interesting and more significant in plant physiology and ecology and their applications than our beloved plant-water relations case. Water - and in this respect we may say directly living water - is one of the finest matters on the Earth. The ancient Greek PINDAR may be quoted who has paid tribute to the most important component of the biosphere of our Planet with his statement "Ἀριστον μὲν ὕδωρ" (The best is water).

The attempt to compile a world bibliography of plant-water relations is surely to be sincerely welcomed and the editors and publisher to be appraised. It is an exhausting work and extremely laborious task which has been fulfilled. The Bibliography was prepared with utmost care as far as the completeness, precision of the references and especially the indexed are concerned. These are the main reasons why this Bibliography will be useful and usefulness is its only aim.

Let us appreciate the appearance of the Water-in-Plants Bibliography which will help us in our daily work.

Dr. BOHDAN SLAVÍK

PREFACE

Worldwide interest in water relations of plants is accentuated by the increasing sensitivity to the seriousness of dwindling water supplies in many regions. A need to increase crop production exists in the face of mounting food shortages, and water conservation is an important factor in overcoming food deficiencies.

The lack of a specialized source-book of references to the voluminous and continuously increasing literature concerning water relations of plants has encouraged us to launch this volume. It covers the year 1975 and subsequent annual volumes are being prepared and will appear in the year following the year they cover.

The bibliography includes papers in all fields of plant water relations research - from theoretical considerations about the state of water in cells and its membrane transport to drought resistance of plants or physiological significance of irrigation. In addition to papers devoted entirely to plant water relations, papers on other topics are included if they contain data on plant hydration level, water vapour efflux, rate of water uptake or water transport, etc., or if they contain valuable methodological information (measurement of selected microclimatic factors, soil moisture, etc.).

We have tried to cover fully the relevant papers which have appeared in the most important scientific periodicals and books. Articles published in local journals, mimeographed booklets, abstracts of theses and of symposia contributions etc., were chosen mostly from reprints received directly from authors. The courtesy of those authors who have already supplied us with reprints and lists of their publications is highly appreciated.

To maximize the value of the bibliography the references are arranged alphabetically according to the authors' names, and each volume is provided with three indexes. The authors' index contains all names of authors, co-authors and editors. The subject index covers primary items chosen according to the interest of water relation researchers. Its preparation was based not only on the titles, key words and abstracts but also on the whole content of the article. In the plant index, only important crop plant and selected plant types and groups are indexed. This arrangement and also the form of our bibliography is practically the same as in "Photosynthesis Bibliography" edited by Z. ŠESTÁK and J. ČATSKÝ.

Since some 1000 relevant papers dealing with plant water relations are currently published every year and includes in this bibliography, and since the all citations have been checked with the originals, collecting and preparing for publication such a large amount of material would have been impossible without the collaboration of our colleagues from the department of Physiology of Photosynthesis and Water Relations of the Institute of Experimental Botany of the Czechoslovak Academy of Sciences in Prague, especially Dr. Z. ŠESTÁK and Dr. J. ČATSKÝ who gave us the benefit of much valuable experience. We also acknowledge with thanks the cooperation of Mrs. DRAHOMÍRA TĚŽKÁ, Mrs. VLASTA FLORIÁNOVÁ and Mrs. MARIE MANDLOVÁ who helped in preparing card material, Mr. P. ZÁZVORKA who supplied us with rare periodicals and the librarian of the Institute Mrs. ALENA ŠTĚTINOVÁ.

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INSTRUCTIONS FOR USE

All references are arranged alphabetically according to the authors' names. They are numbered and these numbers are used in the indexes.

Authors' names are presented in the spelling used in the original paper. If this spelling does not correspond to the spelling usually used by the author (e.g. Russian papers of English authors), one spelling is referred to the other in the Authors' Index. Like the transcriptions they are alphabetically arranged mostly according to the authors' own references. Nevertheless, the editors apologize for some misinterpretations which are partly corrected by cross-indexing in the Authors' Index.

The references contain the original unshortened title of the paper (book). English, French, and German titles are cited in the original language. Titles in other languages are supplemented with a translation in English (sometimes using the title of the respective English abstract). Titles of Japanese, Chinese etc. papers are given in English translation only. In both these cases the abbreviations of the original language and the language of the abstract, if it is presented, are given in brackets at the end of the reference. The following abbreviations are used most frequently:

Belorussian	Japanese
Bulgarian	Latvian
Chinese	Lithuanian
Croatian	Norwegian
Danish	Polish
English	Russian
Esthonian	Roumanian
French	Slovak
German	Spanish
Georgian	Swedish
Hungarian	Ukrainian
Italian	Uzbek

The transliteration of Cyrillic characters is in accordance with the BSI-ASA/SC-Z39 draft table, i.e. :

a	а	p	п
b	б	r	р
ch	ч	s	ш
d	д	sh	щ
e	е	shch	щ
e	э	t	т
f	ф	ts	ц
g	г	u	у
i	и	v	в
ï	й	y	ы
k	к	ya	я
kh	х	yu	ю
l	л	z	з
m	м	zh	ж
n	н	"	ь
o	о	ı	ь

Several exceptions apply for Ukrainian and Belorussian.

Ukr. y	и	Belorus. ŭ	ў
i	і		
ı	і		

The journals' names are abbreviated mainly according to the "Style Manual for Biological Journals" (Second Edition, Amer. Institute of Biological Sciences, Washington, D.C. 1964), e.g. :

Abhandlungen	chinese	Industry	Publishers
Abstract	Chromatography	inorganic	quantitative
Abteilung	Commission	Institute	Quarterly
Academy	Communication	international	Radiation
Acta	comparative	Investigation	Radiobiology
Africa	Comptes Rendus	italian	Rastenii
agricultural	Conference	Izvestiya	Recherche
Agriculture	Congress	Jahrbuch	Report
Agronomy	Contribution	japanese	Research
Akademie	Cytochemistry	Japan	Review
Algology	Cytology	Journal	royal
allgemeine	czechoslovak	Klasse	russian
american	Dendrology	Laboratory	ruskii
America	Department	Landwirtschaft	scandinavicus
analytical	Deutschland	Letters	Science
Anatomy	Disease	Limnology	Section
angewandte	Dissertation	Magazin	Series (-iya)
Annals	Doklady	marine	Society
annual	Dopovidi	Mathematics	sovetskii
anorganic (-anisch)	Ecology	Meteorology	soviet
applied	Education	Microbiology	special
Arbeit	Embryology	molecular	SSSR
Archiv	Encyclopedia	Monograph	Station
Atmosphere	Engineer	moskovskii	Supplement
atomic	Enzymology	Mycology	Survey
Australia	european	national	Symposium
Beiheft	experimental	natural	technical
Belgique	Experiment	Naturforschung	Technology
Bericht	Faculty	neerlandicus	Tijdschrift
biochemical	Federation	Netherlands	Transaction
Biochemistry	Fizika	New Zealand	Travail (-aux)
biokhimicheskii	Fiziologiia	nuclear	tropical
Biokhimiia	Forestry	Oceanography	Trudy
biological	Forschung	Optics	ukrainian
Biology	Foundation	organic	UK
biophysical	France	original	US, USA
Biophysics	Gazette	Otdelenie	USSR
Bodenkunde	general	Pathology	University
bolgarskii	genetical	Pflanzen-	végétale
botanical	Genetics	Philosophy	Virology
Botany	Gesellschaft	physical	Virusforschung
british	Giornale	Physics	Volume
Bulletin	helveticus	physiological	Weekblad
Canada	Histochemistry	Physiology	Wetenschappen
cellular (-ulaire)	Histology	Phytopathology	Wissenschaft
central	Horticulture	Plant (-arum)	Zeitschrift
chemical	hungaricus	polish	Zeitung
Chemistry	Husbandry	Proceedings	Zentralblatt
chimicus	imperial	Publication	Zhurnal

The numbers at the end of each reference of a journal article denote : volume (issue) : first page - last page, year of publication. The number of issue is given only in journal where each issue is paginated separately.

Book titles are cited according to the title page, not to the book jacket or cover. The publishing house, place and year of publication are included.