

NOTICE TO CONTRIBUTORS

PHOTOSYNTHETICA

publishes original scientific papers and brief communications, reviews on specialized topics, book reviews, and bibliographies of reviews and methodological papers, in all fields of photosynthesis research. Photosynthetica publishes papers dealing with physiology and ecology of photosynthesis and the analysis of primary production, biochemistry and biophysics of photosynthesis, and the composition and structure of the photosynthetic apparatus, in English. Papers should not be published or under consideration for publication elsewhere.

Manuscripts (two copies) and all correspondence should be addressed to the Editor-in-Chief - Dr. Zdeněk Šesták, Institute of Experimental Botany, Acad. Sci. of the Czech Republic, CZ-160 00 Praha 6, Na Karlovce 1a, Czech Republic [phone (+420-2) 311 10 32, fax (+420-2) 24 31 01 13].

Electronic manuscripts will speed up publication of your paper. They will be welcome on a 5 1/4 or 3 1/2 inch disc in MS-DOS or MS-DOS compatible format. The preferred word-processing systems are MS Word, MS Word for Windows, Word Perfect, and Word Star. The disc should be complemented with one hard copy of the manuscript. If necessary, E-mail may also be used (redakce@web.cas.cz).

Every manuscript is reviewed usually by two reviewers familiar with the relevant field of photosynthesis research, being from a different country from the author. Papers accepted are published as soon as possible. The author receives 100 reprints of the paper free of charge.

ORIGINAL PAPERS

The length of a paper should not exceed 10 printed pages, including figures, tables, and references. The paper should be divided as follows: Title, names and addresses of the author(s), abstract (up to 20 typed lines), additional key words (other than in the title), introduction, materials and methods, results, discussion, references. The tables (numbered and with a heading) and figure legends should be typed on separate sheets of paper and should be self-explanatory without reference to text. Units, dimensions, terms, symbols, abbreviations, etc., recommended by the *Système International d'Unités* (SI) should be used. (Consult the manuals of Socrates and Sapper 1969, and Šesták *et al.* 1971 and the paper of Salisbury 1991 - see the references below.) Manuscripts should be typed double spaced throughout, *i.e.*, including footnotes, figure captions, tables, and

references. Any suggestions as to size or kind of print should be noted on the margin of the sheet in pencil (not by underlining words).

Text-figures should be drawn in Indian ink and should be surrounded by a frame which forms their axes. They may also be prepared electronically. Alongside the scale of the ordinate and abscissa the quantity measured should be given, followed by appropriate units or dimensions, *e.g.*: Net photosynthetic rate [$\text{mg}(\text{CO}_2) \text{ m}^{-2} \text{ s}^{-1}$]. As far as possible, different curves should be individually labelled. The lettering should be in pencil. References in the text should contain the authors' names followed by the year of publication, *e.g.*, Ames (1989) or (Pokorný *et al.* 1989, Herbert and Nilson 1991). References at the end of the paper should be arranged alphabetically (by authors' names) as follows (for abbreviations of journal titles see the next page):

Golik, K.N.: [Dark respiration and photosynthesis of buckwheat during ontogeny.] - *Fiziol. Biokhim. kul't. Rast.* **21**: 118-123, 1989. [In Russ.]

Perrier, A.: Leaf temperature measurement. - In: Šesták, Z., Čatský, J., Jarvis, P.G. (ed.): *Plant Photosynthetic Production. Manual of Methods*. Pp. 632-671. Dr W. Junk Publ., The Hague 1971.

Salisbury, F.B.: *Système Internationale: The use of SI units in plant physiology*. - *Plant Physiol.* **139**: 1-7, 1991.

Socrates, G., Sapper, L.J.: *SI and Metrication Conversion Tables*. - Newnes-Butterworths, London 1969.

Titles of articles (not books) written in languages other than English, French, or German, are given only in English translation - see the above example.

For other details consult recent issues of *Photosynthetica*.

BRIEF COMMUNICATIONS

Manuscript not longer than 100 typed lines of text [including title, abstract in English (usually one sentence only), text without subdivision, references] plus maximum of one table and one figure or two figures or two tables are published more rapidly than the longer papers.

REVIEWS ON SPECIALIZED TOPICS IN PLANT PHYSIOLOGY

Short but comprehensive reviews with full bibliography are accepted after preliminary discussion of the intended topics with the editors.

BOOK REVIEWS

Reviews of new books (usually up to 60 typed lines) dealing in full or part with any field of

photosynthesis, sent to the Editor, are published as soon as possible.

BIBLIOGRAPHY OF REVIEWS AND METHOLOGICAL PAPERS

This regular section contains a full bibliography of new reviews on photosynthesis and of new papers dealing with methods applicable in photosynthesis

research. To help compilation, the authors of relevant papers are asked to send reprints to the Editor.

ANNOUNCEMENTS AND REPORTS

Photosynthetica publishes short announcements and reports of conferences, symposia, *etc.*, dealing with all fields of photosynthesis research.

SI units and symbols

Basic SI units

metre	m	kelvin	K
kilogramme	kg	candela	cd
second	s	mole	mol
ampere	A		

Remarks :

Unit, dimension

Unit, dimension	Symbol
micrometre	μm
nanometre	nm
gramme	g
microgramme	μg
second	s
minute*	min
hour*	h
day	d
year	a
kelvin	K
degree Celsius (centigrade)	$^{\circ}\text{C}$ (e.g., 20°C)
pasqual	Pa
joule	J
watt per metre square	W m^{-2}
mole, millimole	mol, mmol
molar, millimolar	M, mM
becquerel	Bq
counts per second	s^{-1}
hertz	Hz
volume per volume	$\text{cm}^3 \text{ m}^{-3}$
mass per mass	mg kg^{-1}

Do not use

μ
m μ
gr
γ
sec
min.
hr, hrs
-
-
$^{\circ}\text{K}$
$^{\circ}\text{C}$ (e.g., 20°C)
atm, torr, mm Hg, bar
cal, kWh
$\text{cal cm}^{-2} \text{ min}^{-1}$
-
-
Ci, C, c
cpm
c/sec
vpm
ppm

The following form of dimensions is preferred:

$\text{kg m}^{-2} \text{ s}^{-1}$; if plant as reference unit: μg per plant

Avoid the following usage:

$\text{kg} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$, $\text{kg/m}^2\text{s}$ or completely incorrect $\text{kg/m}^2/\text{s}$

Note that mW is milliwatt

m W is metre \times watt

The abbreviation kDa is acceptable for characterizing proteins.

Units h (for hour; not hr, hrs) and min (for minute; not min.) can be used only for description (e.g., centrifuged for 50 min), not as dimensions.

Most common abbreviations of journal titles used in references in Photosynthetica
(note, please, that substantives start with a versal, adjectives with a lower-case letter)

Academy	Communication	Institute	Publishers
Acta	comparative	international	quantitative
Africa	Comptes rendus	Investigation	quarterly
agricultural	Conference	italian	Radiation
Agriculture	Congres	Izvestiya	Radiobiology
Agronomy	Contribution	Jahrbuch	Rastenii
Akademie	Cytochemistry	Japan	Recherche
Algology	Cytology	japanese	Report
allgemeine	czechoslovak	Journal	Research
american	Dendrology	Klasse	Review
America	Department	Laboratory	royal
analytical	Deutschland	Landwirtschaft	russian (kii)
Anatomy	Disease	Letters	scandinavian
angewandte	Doklady	Limnology	Science
Annals	Dopovidi	Magazin	Section
annual	Ecology	marinc	Series (-lya)
anorganic	Education	Mathematics	Society
applied	Engineer	Microbiology	special
Archiv	Environment	miscellaneous	SSSR
Australia	Enzymology	molecular	Station
Beihft	european	Monograph	Supplement
Belgique	experimental	Mycology	Survey
Bericht	Faculty	national	Symposium
biochemical	Federation	natural	technical
Biochemistry	Fizika	Naturforschung	Technology
biokhimicheskii	Fiziologiya	neerlandicus	Tijdschrift
Biokhimiya	Forestry	Netherlands	Transaction
biological	Forschung	New Zealand	Travail (-aux)
Biology	Foundation	nuclear	tropical
biophysical	France	Oceanography	Trudy
Biophysica	Gazette	Optics	ukrainian
bolgarskii	general	organic	UK
botanical (-anicheskii)	genetical	Otdelenie	UN
Botany	Genetics	Pathology	US, USA
british	Gesellschaft	Pflanzen-	University
Bulletin	Giornale	philosophical	végétal
Canada	helveticus	physical	Virology
cellular (-ulaire)	Histochemistry	Physics	Virusforschung
central	Histology	physiological	Volume
chemical	horticultural	Physiology	Wetenschappen
Chemistry	Horticulture	Phytopathology	Wissenschaft
chimicus	hungaricus	Plant (-arum)	Zeitschrift
chinese	imperial	polish	Zeitung
Chromatography	inorganic	Proceedings	Zentralblatt
Commission	Industry	Publication	Zhurnal

LINE DRAWINGS

Alongside the scale of the ordinate and abscissa the quantity measured should be given, followed by appropriate dimension in SI units in brackets, e.g.: TRANSPIRATION RATE [$\text{mg}(\text{H}_2\text{O})\text{ m}^{-2}\text{ s}^{-1}$]. The lettering should be in capitals, in Helvetica, Arial or a similar sans-serif type. The preferred reduction is 30 or 50 % of original linear dimensions. For these reductions the height of lettering (capitals) should be 6 or 4 mm, the axes should be 0.6 or 0.4 mm thick, and the curves 0.8 or 0.6 mm thick, respectively. Grid marks should point inwards.

Examples:

