

NOTICE TO CONTRIBUTORS

PHOTOSYNTHETICA

publishes original scientific papers and brief communications, reviews on specialised topics, book reviews, and bibliographies of reviews and methodological papers, in all fields of photo-synthesis 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 Papers should not be published or under consideration for publication elsewhere.

Manuscript (preferentially electronic version in MS-DOS or MS-DOS compatible format sent by e-mail, or electronic copy on a 3 1/2 inch disk plus one printed copy sent by mail, or two printed copies sent by mail) and all correspondence should be addressed to the Editor-in-Chief. The preferred word-processing system are MS Word, MS Word for Windows, Word Perfect, and Word Star.

The address of Editor-in Chief is: Dr. Zdeněk Šesták, Institute of Experimental Botany, Academy of Sciences of the Czech Republic, CZ-160 00 Praha 6, Na Karlovce 1a, Czech Republic. Phone: (+420) 233 331 032, fax: (+420) 224 310 113, e-mail: photosynthetica@ueb.cas.cz or sestak@ueb.cas.cz.

Every manuscript is reviewed usually by two reviewers familiar with the relevant field of photosynthesis research, being from a different country from author. Papers accepted are published as soon as possible. The author receives 50 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), 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 prepared electronically (the preferred graphic systems are TIF, PCX and JPG) or drawn in Indian ink and should be surrounded by a frame that forms their axes. Grid marks should point inwards. 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. Photographs must be of the highest quality with a full range of tones and of good contrast. 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 SPECIALISED 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.

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BIBLIOGRAPHY OF REVIEWS AND METHODOLOGICAL 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.* in all fields of photosynthesis research.

SI units and symbols

Basic SI units

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

Remarks:

Unit, dimension	Symbol	Do not use
micrometre	μm	μ
nanometre	nm	m μ
gram	g	gr
microgram	μg	-
second	s	sec
minute*	min	min.
hour*	h	hr, hrs
day	d	-
year	a	-
kelvin	K	$^{\circ}\text{K}$
degree Celsius (centigrade)	$^{\circ}\text{C}$ (e.g. 20 $^{\circ}\text{C}$)	$^{\circ}\text{C}$ (e.g. 20 $^{\circ}\text{C}$)
pasqual	Pa	atm, torr, mm Hg, bar
joule	J	cal, kWh
watt per metre square	W m^{-2}	$\text{cal cm}^{-2} \text{min}^{-1}$
mole, millimole	mol, mmol	-
molar, millimolar	M, mM	-
becquerel	Bq	Ci, C, c
counts per second	s^{-1}	cpm
hertz	Hz	c/sec
volume per volume	$\text{cm}^3 \text{m}^{-3}$	vpm
mass per mass	$\mu\text{g g}^{-1}$	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 characterising 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.

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

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

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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.*: NET PHOTOSYNTHETIC RATE [$\mu\text{g}(\text{CO}_2) \text{ m}^{-2} \text{ s}^{-1}$]. 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 reduction 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:

