

Peer review Process

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The manuscript should be submitted in the form of two main separate text files: **Title page** and the **Manuscript** file (title, abstract content text, tables and figures). The templates are available on the journals' website should be used for both of them.

Title page should include type of the document (original paper, review, short communication, case study), manuscript title, names of all authors in order they will be published in the article (in format first name, surname), authors affiliations, corresponding author email, dedication and acknowledgement.

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Paper title: It should be short and intelligible, not exceeding 85 characters. No subtitles or numbering of serial articles should be used.

Abstract: A short summary of the whole paper, including an outline of the objective, methods, results and conclusions of the paper. It should not, however, be a mere description. It should also describe all essential facts of a scientific paper and basic numerical data. Stylistically, whole sentences, not slogans, should be used. The abstract is an important part of the paper because it is published and cited in international databases. Two hundred words are the maximum permissible in the abstract (number of words must be included in the cover letter).

Keywords: Five keywords without overlapping with the manuscript title and abstract is recommended.

Introduction: Should outline the main reasons why the research was performed and demonstrate contemporary knowledge of the investigated subject with a brief review of available literature published in scientific journals and monographs. Asked scientific questions must be given at the end of the introduction.

Material and methods: All preliminary materials, experiments conducted, their extent, conditions and course should be described in detail in this section. All original procedures that were used for the processing of experimental material and all analytical methods used for evaluation should also be detailed. Data verifying the quality of acquired data should be indicated for the used methods. The whole methodology is to be described only if it is original; in other cases, it is sufficient to cite the author of the method and to mention any particular differences. Methods of statistical processing, including the software used, should also be listed in this section.

Results and discussion: The results obtained from the experiments, including their statistical evaluation and any commentary, should be presented graphically or in tables in this section. The author should confront partial results with data published by other authors whose names and year of publication are to be cited by including them in the text directly Novak (2002) or indirectly (Novak and Sidlo 2002), (Jakl et al. 2002). Asked scientific questions should be answered briefly at the end of this section.

References: A list of refereed literature arranged in alphabetical order according to the surname of the first authors (about 25 references of international journals). The full title of all authors should be followed by the year of publication cited in brackets, the original title of the paper, the name of the periodical using full name, and the relevant volume and page numbers. In the case of a book, the title should be followed by the place of publication and the name of the publisher. Proceedings and thesis in references should be omitted. If the cited source is not in English, it should be translated, and the language in which the material was published originally should be given at the end of the citation (in brackets). Only papers cited in the text should be included in the list of references.

Examples:

Field J.M., Shewry P.R., Mifflin B.J., March J.F. (1982): The purification and characterization of homologous high-molecular-weight storage proteins from grain of wheat, rye, and barley. *Theoretical and Applied Genetics*, 62: 329–336.
Linskens H.F., Jackson J.F. (1992): *Seed Analyses*. 2nd Ed. Berlin, Heidelberg, Springer-Verlag.

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Compliance with these instructions is obligatory for all authors. If a manuscript does not comply exactly with the above requirements, the Editorial Office will not accept it and will return it to the authors without reviewing.

LIST OF ABBREVIATIONS

The metric system is adopted as standard. You should use the international system of units. If non-standard abbreviations must be used they should be defined in the text.

Use the fundamental quantity with appropriate prefix:	minute	min	
kilo	k	hour	h
mega	M	day, week, month, year	day, week, month, year
giga	G		
tera	T	Units of temperature:	
milli	m	Celsius	°C
micro	μ	Kelvin	K
nano	n		
pico	p	Additional physical units:	
		dalton	Da
Units of length:		hertz	Hz
<u>meter</u>	m	joule	J
kilometer	km	volt	V
centimeter	cm	watt	W
millimeter	mm		
micrometer	μm	Relative units:	
nanometer	nm	parts/million parts	ppm
		parts/billion parts	ppb
Units of area:		parts/trillion parts	ppt
<u>square meter</u>	m ²	percentage	%
kilometer	km ²	weight	w
hectare (10 000 m ²)	ha	volume	V
square centimeter	cm ²		
square millimeter	mm ²	Units of electrical conductivity:	
		siemens per meter	S/m
Units of volume:		millisiemens per meter (mS/cm; μS/cm)	mS/m
<u>cubic meter</u>	m ³	ohm	Ω
cubic centimeter	cm ³	Units of concentration:	
<u>liter</u>	L	<u>mole per kilogram (liter)</u>	mol/kg(mol/L)
milliliter	mL	millimole (micromole) per kilogram	mmol/kg (μmol/kg)
microliter	μL	gram per kilogram	g/kg
Units of mass:		milligram per kilogram	mg/kg
gram	g	microgram per kilogram	μg/kg
kilogram	kg		
tonne	t	Similar units for volume:	
milligram	mg	g/L, mg/L, mg/mL, μg/L, μg/mL	
microgram	μg		
Units of density:		Units of irradiation:	
g/cm ³ , kg/m ³ , t/m ³ , g/L, kg/L		watt per square meter	W/m ²
Units of pressure:		Units of photon flux density:	
pascal	Pa	mol per square meter per second	mol/m ² /s
megapascal	MPa		
Units of time:		Units of yield, sampling and rate:	
second	s	kilogram per hectare	kg/ha
		tonnes per hectare	t/ha

liter per hectare	L/ha	gram per kilogram	g/kg
gram per hectare	g/ha	milligram per kilogram	mg/kg
gram per square meter	g/m ²		

Units of cation exchange capacity (CEC):

mmol of chemical equivalent per kilogram of soil or another materials mmol₊/kg
 Similar units for volume of cation exchange.

Content of nutrients in plants, soils and another materials is necessary to state always as pure element (C, N, P, K, Ca, S, Fe, etc.), so dose of nutrients or compounds, for example 1 g S applied in the form of calcium sulphate (CaSO₄). You should use the dose of nutrients as pure element per specified area, or weight soil, container, etc. and you should use the slash, for example 110 kg N/ha, or write 110 kg N per ha. You should **not** use the indexes as 110 kg N/ha, (1 g N/container, 10 mg Cu/kg soil).

Forms of nutrients:

Nitrite nitrogen	NO ₂ ⁻ -N
Nitrate nitrogen	NO ₃ ⁻ -N
Ammonia	NH ₄ ⁺ -N
Total nitrogen	N _{tot}
Sulfur in sulfate	SO ₄ ²⁻ -S

You should use the content of organic matter in soils (topsoil, soil organic matter, etc.) entirely as C. You should specify the form of determined element, possibly the method of determination, by using subscripts. For example, content of carbon determined by oxidometric methods as C_{ox}, furthermore C_{org}, C_{tot}, C_{ox} humic acids and its solubility C_{hwe}, etc.

You should use the FAO guidelines (Food and Agriculture Organization) for characterization of habitat conditions (soil type description according WRB – World References Base for Soil Resources 2006 version, soil textural class), as well as altitude, average rainfall and temperature, and if possible coordinates as well.

You should assess the weather v different years and months according to recommendatons of the World Meteorological Organization (WMO) – according to deviations from long-term average or normal.

You should use the method of nutrients determination in soil, for example content of P (Olsen, Egner, Mehlich III, etc.), as P_{Olsen}, P_{Egner} etc.

You should not use the symbol of magnesium (Mg) for 1000 kg (megagram), but use as the unit tonne (t). Don't use the symbol M for the expression of amount of substance, but use the mol (mmol, μmol).

To simplify the expression of contents, use relative units, especially % (10⁻²) and ppm (10⁻⁶). If it is possible you should keep the same unit in tables and graphs (in any case you should not use absolute and relative units, such as g/kg and %)

Statistical symbols and abbreviations

analysis of variance	ANOVA	standard deviation (sample)	SD
coefficient of variation	CV	standard error	SE
degree of freedom	df	standard error of the differences	
F-distribution	F	of means	SED
least significant difference	LSD	standard error of mean	SEM
sample size	n	t-(or Student) test	t
probability	P	mean	x
simple correlation coefficient	r		
simple correlation of determination	r ²	Additional use symbols	
multiple correlation coefficient	R	dry weight (matter)	DW (DM)
multiple correlation of determination	R ²	fresh weight	FW (FM)
variance (sample)	s ²	water use efficiency	WUE