

Instructions to Authors

The scientific journal *Agricultural Sciences* of the Lithuanian Academy of Sciences and Vytautas Magnus University Agriculture Academy publishes original articles in the following fields and directions of science:

- agricultural sciences: agronomy (01A), forest sciences (04A), zootechnics (03A), veterinary medicine (02A);
- technological sciences: mechanical engineering (09T), environmental engineering (04T);
- social sciences: management (03S), sociology (05S), economics (04S) (agricultural economics, rural development, etc.).

Scientific articles should present original research data based on statistical analysis, search for causality of the results, modelling of processes and comparison of research data with the latest works by other authors. The journal publishes methodological, review, critical and information (about anniversaries, conferences, scientific collaboration, institutions of science and education) articles. The language of the articles is Lithuanian or English. The articles should not have been published anywhere before.

Procedure of publication

• Authors present the electronic version of the article (up to 15 pages) to the Editorial Board. Authors guarantee the originality of the presented research data and that the content and authorship of the article are coordinated with all co-authors. Authors send the letter of indemnity together with the article signed for publication. Author(s) guarantee(s) that the article presented for the periodical publication in *Žemės ūkio mokslai / Agricultural Sciences* is an original work and:

- it was written by the author(s) indicated in the article;
 - the material of the article has not been published in any other publication;
 - the material of the article is not and will not be published anywhere else;
 - the article does not contain statements, which do not correspond to reality, or material, which may infringe upon the intellectual property rights of another person or legal entity, and upon the conditions and requirements of sponsors or providers of financial support;
 - all references used in the article are indicated and, to the extent the article incorporates text passages, figures, data or other material from the works of others, the undersigned has obtained any necessary permissions;
 - undertake(s) to indemnify and hold harmless Vytautas Magnus University Agriculture Academy from any damage or expenses that may arise in the event of a breach of any of the guarantees set forth above;
 - do(es) not object to the spread of the article by all means of distribution.
- The Editorial Board appoints two reviewers of each article that meets formal and scientific requirements. The reviewers

give reviews of the article in a 14-day period (according to the forms sent together with the article by the Editorial Board). In case of necessity, the article with reviews is returned to the author for correction. The authors are not aware of the names of the reviewers. In the case the author does not agree with essential remarks of the reviewers, he/she informs the Editorial Board in written form. The author has to present the electronic version of the corrected article to the Editorial Board within 14 days.

- The reviewed articles are subject to edition, layout and publication.

Structure of the articles

- title (<10 words);
- name(s), surname(s) of the author(s) (following the decreasing order of authorship contribution);
- name, address of the institution, email of the author;
- summary in the language of the article (>600 print marks);
- key words at the end of the summary (<10);
- introduction (the problem, novelty and originality of the article);
- research methods and conditions;
- results and discussion;
- conclusions;
- acknowledgements (if appropriate);
- list of references;
- name(s), surname(s) of the author(s); title of the article; summary and key words in English (if the article is in Lithuanian) or in Lithuanian (if the article is in English). Summary in English 1 000–1 200 print marks, summary in Lithuanian 600–1 500 print marks.

The date of article submission, telephone number and email of the author must be indicated at the end of the article.

Preparation of the manuscript

The articles should be prepared using Microsoft Word, the text should be printed in Times New Roman 12 font on one side of A4 (210 × 297 mm) format page at 1.5 intervals between the lines, alignment to both sides. Margins: upper 2 cm, lower 2.54 cm, right and left 2.5 cm each.

The title of the article, full names and surnames of the author(s), titles of structural parts (**Introduction, Methods and Conditions, Results and Discussion, Conclusions, References**) are written in bold and aligned to the left side. Latin names of plant species, genera, diseases, pests, microorganisms and international names of soils are written in italics (e. g. *Erysiphe graminis* DC ex Merat). Personal names in other languages are written in their authentic form.

Tables should be inserted into the text with numbers and titles. Data presented in the tables should not duplicate the information

presented in figures. Titles of the tables, headings of columns and names of variants are presented in Lithuanian and in English if the text is in Lithuanian. The English text is written in italics. If the article is in English, no Lithuanian equivalents are required. In the tables, trial variants are not indicated by numbers, but a complete description or an understandable abbreviation is presented.

Figures (illustrations, drawings, graphs, diagrams, photos, etc.) should be inserted into the text following references to them. If the article is in Lithuanian, titles of figures and information are presented in Lithuanian and in English. The English text is written in italics. If the article is in English, no Lithuanian equivalents are required. Hand-drawn, copied figures are not accepted. Insertions and symbols in the figures should be of sufficient size, not smaller than 3 mm after contraction. It is desirable that presented illustrations were 1 : 1, i. e. width >80 mm (in the case of one column) or 165 mm (in the case of two columns). Details of the illustrations should be marked by letters and numbers where possible, and their explanations presented in the list of illustrations.

Formulae are aligned to the left side and numbered by Arabic numerals in simple brackets. A formula is followed by a dot if no explanations of the sizes are presented. In other cases, a formula is followed by a semicolon, a new line starts with the word 'here', and every size is explained.

Dimensions (physical units, their names, symbols) should meet the requirements of the international unit system (SI). Other units, if they contribute to a better understanding of the concept, may be presented in brackets. Various terms and names should meet the requirements of their latest international and national nomenclature and the form of writing. Soil of experiments is described according to the new (FAO) classification (*Lietuvos dirvožemių klasifikacija*. Vilnius, 2001. 137 p.). Symbols of pure elements should be used. Different symbols should be explained in the methodical part. For example, the content of phosphorus in a plant is marked as a pure element P, but in the description of the fertilization rate the symbol P requires an explanation that it indicates the amount of P₂O₅.

References. It is recommended that the list of references includes only scientific publications and at least 10 of the newest sources (from the last 4–6 years, the older ones only in case they are of great importance). Scientific reports, textbooks, brochures, popular journals, booklets and manuscripts are not considered as references and are not included into the list. Standards, other normative, legal documents and manuals are indicated in the footnotes. The titles of journals, conference presentations and other publications are not shortened. Sources of literature are cited in the text by indicating the surname of the author in Latin letters and the year of publication in simple brackets. Example: Kerpauskas, Kučinskas, 2010; *Seed Trade in Rural...*, 2010. The list of references is presented in Latin letters in the alphabetic order.

Examples of description of literature sources

Books

Daugėlienė N. 2010. *Žolynų ekosistemos: monografija*. Akademija: Lututė. 319 p.

Seed Trade in Rural Markets: Implications for Crop Diversity and Agricultural Development. 2010. London: Food and Agriculture Organization of the United Nations. 232 p.

Articles from scientific journals

Kerpauskas P., Kučinskas V. 2010. Augalo lapo energinės apykaitos kitimas dėl aplinkos temperatūros. *Žemės ūkio mokslai*. Nr. 1–2. P. 41–46.

Velichka R., Rimkevichene M., Martsinkyavichene A. 2006. Changes in the properties of a loamy Gleyic Cambisol as related to the saturation of crop rotations with rape. *Eurasian Soil Science*. Vol. 39. No. 9. P. 1002–2293.

Abalikštienė E. 2009. Analysis of Free State Land in Kaunas County. *Rural Development 2009: Scientific Conference Proceedings*. Akademija: Lithuanian University of Agriculture. Vol. 4. P. 95–98.

Articles from books

Įvavičiūtė G. 2007. Protected areas and their land use in Lithuania. In: *Baltijos šalių žemėtvarka 2007*. Akademija: Lithuanian University of Agriculture. P. 23–37.

On-line sources

Baltrėnas P., Vaišis V. 2007. *Naftos produktų sorbentai aplinkosaugoje: monografija*. Vilnius: Technika. 165 p. [žiūrėta 2011-03-21]. Prieiga per internetą: <http://www.ebooks.vgtu.lt/product/naftos-produkt-sorbentai-aplinkosaugoje/>

Articles from on-line sources

Končius D. 2010. Biogeninių elementų fosforo ir kalio dinamika balkšvažemyje. *Žemės ūkio mokslai*. T. 17. Nr. 1–2. P. 1–8 [žiūrėta 2011-03-21]. Prieiga per internetą: <http://www.lmaleidykla.lt/publ/1392-0200/2010/1-2/1-8.pdf>

Kolkisaoglu Ü., Thurow K. 2010. Future and frontiers of automated screening in plant sciences. *Plant Sciences*. Vol. 178. Issue 6. P. 476–484 [cited 2011-03-21]. Available at ScienceDirect: <http://www.sciencedirect.com/>

Standards

LST ISO 15836: 2007. *Informacija ir dokumentai. Dublin Core metaduomenų elementų grupė (tapatus ISO 15836:2003)*. Vilnius: Lietuvos standartizacijos departamentas, 2007.

Patents

Elektromagnetinis šilumos ir vandens kiekio skaitiklis. Int. Cl⁷: G 01 K 17/16. Lietuvos patentas, 4851. 2001 10 25.

Submission of the manuscripts

The articles should be sent to the following email address: zumred@gmail.com

Address of the Editorial Board Secretariate

Aida Adamavičienė

Vytautas Magnus University Agriculture Academy

11 Studentų Street, 53361 Akademija, Kaunas, Lithuania

Tel. +370 615 19 936

Website: <http://www.lmaleidykla.lt/ojs/index.php/zemesukiomokslai>