

Research in Agricultural Engineering

INSTRUCTIONS TO AUTHORS

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GENERAL INFORMATION

The journal publishes original scientific papers, short communications, up-to-date review articles, and selective book reviews from the disciplines concerned. The authors alone are responsible for the manuscript content and writing. The manuscript must be both original (not published previously elsewhere) and formally correct. Papers are published in English (British spelling). Manuscripts must be grammatically and linguistically correct to avoid acceptance problems.

Conflict of interest. Any conflict of interests must be declared.

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The journal uses double-blind peer review, which means that both authors and reviewers are anonymous to each other throughout the review process. **Publishing in journal Research in Agricultural Engineering is free of charge.**

Peer-review process steps

1. **Manuscript submission** – the corresponding author submits the manuscript to the journal, online via online editorial system.
2. **Editorial office assessment** – the journal checks the manuscript's composition and arrangement against the Instructions to Authors.
3. **Evaluation by the Editor-in-Chief (EIC)** – EIC checks that the manuscript is appropriate for the journal and is sufficiently original and interesting. If not, the manuscript may be rejected without being reviewed.
4. **EIC may assign an Associate Editor (AE)** – who will handle the peer review.
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6. **Response to invitations** – potential reviewers consider the invitation against their own expertise, conflicts of interest and availability. They then accept or decline. If possible, when declining, they might also suggest alternative reviewers.
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revision, the reviewers should expect to receive a new version, unless they have opted out of further participation. However, where only minor changes were requested, this follow-up review might be done by the handling editor.

MANUSCRIPT SUBMISSION

Submit the manuscript electronically to the editorial system on the journal website <https://www.rae.agriculturejournals.cz>. The manuscript should be submitted in the following separate files:

- (i) **Title Page** including a type of the document (original paper, review, short communication), manuscript title, names of all authors in the order they will be published in the article (first name, middle name, surname), authors' affiliations, corresponding author e-mail address, number of characters, dedication and, acknowledgement) ([templates](#)).
- (ii) **Manuscript file** including title, abstract, keywords, content/text of the article, tables and figures (see Manuscript file layout), **blinded** (follow the instructions below) ([templates](#)).
- (iii) **Figures – graphs** preferably in MS Excel (editable .xls or .xlsx); and images (photographs, schemas, diagrams, maps)
- (iv) **Cover letter** – explaining the significance and novelty of the work, the problem that is being addressed, and why the manuscript belongs in this journal.
- (v) **Supplementary material**, if necessary (for online publication only)
- (vi) **Authors' Declaration** form (link For Authors/Author' Declaration, signed, scanned, .pdf)

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The authors are fully responsible for the manuscript (also its revised versions and accompanying letter to reviewers) anonymization.

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MANUSCRIPT FILE LAYOUT

Manuscript extent. **Original paper** shall not be longer than 15 standard pages, including tables and figures. Short communications should not be longer than 6 standard pages. There are no subheadings and a description of materials and methods must be integrated in the text. **Review articles'** extent is not limited.

MS Word editor should be used for creating the text (Times New Roman, 12, lines 1.5; 2.5 cm margins on each edge of the page. The document must not be formatted in columns, heading styles etc. Pages and lines of the manuscript must be numbered in the left-hand margin. If any abbreviations or acronyms are used in the main text, they must be explained appropriately when used for the first time.

Language. The manuscript must be grammatically and linguistically correct (British English). The authors who are not native English speakers are strongly advised to get their manuscript checked by a native English-speaking colleague or by an English Editing Service prior to the submission to avoid acceptance problems.

Tables must be formatted in MS Word (will not be accepted as an image file). Each item must be placed into a separate cell. Tables are to be numbered with Arabic numerals in the order in which they are included in the text, and have a brief, but a self-explanatory title. Explanatory footnotes to tables should be indicated by superscript letters (or asterisks for significance values). Abbreviations or symbols used in the tables must be explained either in the table title or as a footnote. For an explanation of abbreviations or symbols used in tables, it is not possible to refer to the main text.

Figures should be restricted to material essential for documentation and understanding of the text and accompanied by a concise, descriptive legend. **Graphs** should be provided in MS Excel and supplied with original data. Centred captions, parallel to axes, are used to indicate the measured attributes and their dimensions (in brackets). All **illustrative material** must be of publication quality. High-contrast photographs and autotypes must be submitted in .jpg/.tiff format at high resolution (min. 300 dpi). All photos, graphs, illustrations and diagrams must be referred to as a figure and numbered (Figure 1), continually according to the order in which they are included in the text, using Arabic numerals. Abbreviations or symbols used in the figures must be explained either in the figure title or as a footnote.

Duplicated documentation of data in both Tables and Figures is not acceptable.

Equations – Equations should be numbered using Arabic numerals (1). Each equation should be followed by a legend (where: y – refers to; x – indicates ...), explaining all variables and acronyms used, which were not explained previously. The equations should be further editable (use MathType, MS Word equations editor).

Nomenclature, abbreviations and units. The Latin binomial or trinomial (in italics) and authority must be shown for all plants, insects, animals, and pathogens when first used in either the abstract, the main text, or in a table. **SI units should be used**, e.g.: mg, g, km, m, cm, mm, ppm, cpm, Ci (Curie), L (litre), mL, s (seconds), min (minute), h (hour), mol, etc. Use $\text{mg}\cdot\text{L}^{-1}$ instead of mg/L . The definitive SI website is that of the Bureau International des Poids et Mesures at <http://www.bipm.org/>. Units must be indicated on each occurrence of numerical information and at the axes of all graphs. To express a unit of measurement, use a space between the number and the unit (5 g; 20 ha, 3 °C) except for percentages (37%). In a series of measurements, indicate the unit at the end (3, 6, and 8 mm) except for percentages and degrees (2 °C to 10 °C). Abbreviate units only after a numeric value

(24 h; several hours later, 2 days). **In chemical formulae** the valence of ions must be given as, for example, Ca^{2+} and CO_3^{2-} rather than as Ca^{++} and CO_3^{--} . Isotope numbers should precede the symbols (e.g., ^{18}O). **The decimal marker** is a point (e.g. 0.1 m), while the thousand's separator is a space on either side of the decimal period (e.g. 25 562.987 05). The decimal point in all numbers between 1 and -1 , except 0, must be preceded by 0 (e.g. 0.26). In general, use words for numbers one through nine, and use digits for 10 and over. For a series of numbers, any of which are over 10, use all digits. Don't use the MathType or MS Word Equations editor for symbols or variables written in the running article text (use the Symbol letters). **Currency** – use euro or U.S. dollar as a currency in the computations and results. Currency codes based on the ISO 4217 Currency Code norm should be used (EUR, USD). When a monetary unit is referred to generally but an amount is not included, it is spelt out in letters, except in tables (e.g. an amount in euros). In the text, use: EUR 30; EUR 30 per year per ha; EUR 10 million. In tables in case of the main unit for a column (table), use: (EUR), (million EUR).

Statistics. Describe statistical methods with enough detail to enable a knowledgeable reader to verify the reported results. Give details of randomization and blocking, as well as the number of replications, blocks, or observations. Clearly distinguish between true replications and subsamples within a replication/treatment combination. Always specify the experimental design and indicate whether the design was balanced. When means (or medians) are followed by $\pm x$, indicate whether x refers to the standard deviation, standard error, or half the confidence interval; error bars should similarly be defined. Except for simple procedures (e.g., t -tests, one-way analysis of variance, simple linear regression), cite an appropriate and accessible statistical text and indicate the version of the SW used (Name, Version). In general, statistical techniques should be described in the Materials and Methods. The level of significance should be normally indicated by using the following conventional standard abbreviations for significance ($P < 0.05$, $P < 0.01$, and $P < 0.001$). In tables, levels of significance should be indicated by *, **, and ***, respectively. Statistical significance $P = 0.03$ can be also used in the text or tables.

MANUSCRIPT PARTS (Original paper)

- i. **Title** should be short and informative (not exceeding 100 characters, no subtitles and commonly unknown abbreviations or acronyms). No subtitles or numbering of serial articles should be used.
- ii. **Abstract** is a short summary of the scientific paper including an outline of the objective, method, results and conclusions of the paper (not exceeding 200 words). It should describe all the essential facts of the paper and basic numerical data including any statistical evaluation should be incorporated. Being published in world databases, the abstract is a significant part of the paper, and it is therefore recommended that it is precise. The abbreviations can be used only when explained.
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Citation of preprints is not allowed

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Blahovec J., Patočka K., Bareš J. (1997): Low-level bruising of stored apples due to quasi-static loading up to constant compression strain. *Journal of Texture Studies*, 28: 87–89.

In press article: Author(s) (surname and abbreviation of the first name without comma) (Year): Article title. Full journal title, Volume number (in press).

Electronic journal article: Author(s) (Year): Title of article. Name of the electronic journal, Volume number: page–page. Available at (accessed ...).

Stupavský V., Holý T. (2010): Wood chips – green, brown, white. Available at <http://biom.cz/czodborne-clanky/drevnistepka-zelena-hneda-bila>

Book: Author(s) (Year): Title. Edition volume (if relevant). Publisher name, Place of publisher: page–page.

Berthelot J.M. (1999): *Composite Materials – Mechanical Behaviour and Structural Analysis*. Mechanical Engineering Series. New York, Springer: 431.

Chapter in book: Author(s) of the chapter (Year): Title of the chapter. In: editor(s): Title of the book. Edition or volume, if relevant. Publisher name, Place of the publisher: page–page.

Conference proceedings: Author(S) (Year): Title of publication. In: editor(s) (if any): Proceedings Name of Conference, place, date (a month from-to), year: pages.

Kronbergs A., Širaks E., Adamovičs A., Kronberg, E. (2011): Mechanical properties of hemp (*Cannabis sativa*) biomass. In: Proceedings of the 8th International Scientific and Practical Conference, Environment, Technology. Resources, Rezekne, Latvia, Jun 20–22: 184–190.

Patent: Inventor(s) (Year): Name of patent. Labelled patent No., Issue date.

Johnson W.A., Robbins J.M.(1919): Fruit-Gatherer. US Patent. Patent N° 173.772. February 4, 1919.

Dissertation: Author(s) (Year): Title. [PhD. Thesis.] Town, Name of the university.

Trigwell S. (2002): Correlation between surface structure and tribocharging of powders. [Ph.D. Thesis.] Fayetteville, University of Arkansas.

- ix. **Supplementary Material.** Authors can include original, so far unpublished supplementary material (SM) which may comprise additional tables, data sets, figures, and other non-essential files. SM will appear only in the AE electronic version. SM will be published as submitted and will not be corrected or checked for scientific content, typographical errors or functionality. SM must be relevant to the parent manuscript, but the manuscript must stand alone without SM for those readers who will be reading the hard copy only. It should be submitted along with the main manuscript in a separate file and identified as “Supplementary file – for online publication only”. SM should be identified and mentioned in the main text as Supplementary Table S1, Supplementary Table S2, etc. for tables or Supplementary Figure S1, Supplementary Figure S2, etc. for figures or Supplementary Material S1, Supplementary Material S2, etc. for other material. SM should be submitted with the captions and source. Individual file sizes should be restricted to 10 Mb maximum (zipped or unzipped).

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Revised: December 13, 2021

TABLES AND FIGURES EXAMPLES

TABLES:

Table 2. Result of Statistical analysis of terminal velocity for two lentil varieties

| <i>F</i> -value | Mean square error | <i>df</i> | Sources of variation |
|--|-------------------|-----------|----------------------|
| Variety | 1 | 1.767 | 47.544** |
| Dimension | 2 | 26.280 | 707.123** |
| Moisture content | 4 | 0.268 | 51.086** |
| Variety × dimension | 2 | 1.899 | 7.205** |
| Variety × moisture content | 4 | 0.009 | 2.253** |
| Dimension × moisture content | 8 | 0.046 | 1.288 ^{ns} |
| Variety × dimension × moisture content | 8 | 0.094 | 2.531* |
| Total error | 120 | 0.037 | 47.544 |

df – degree of freedom, **significant at $P < 0.01$, ns – not significant, * significant at probability level of 5%

Figures:

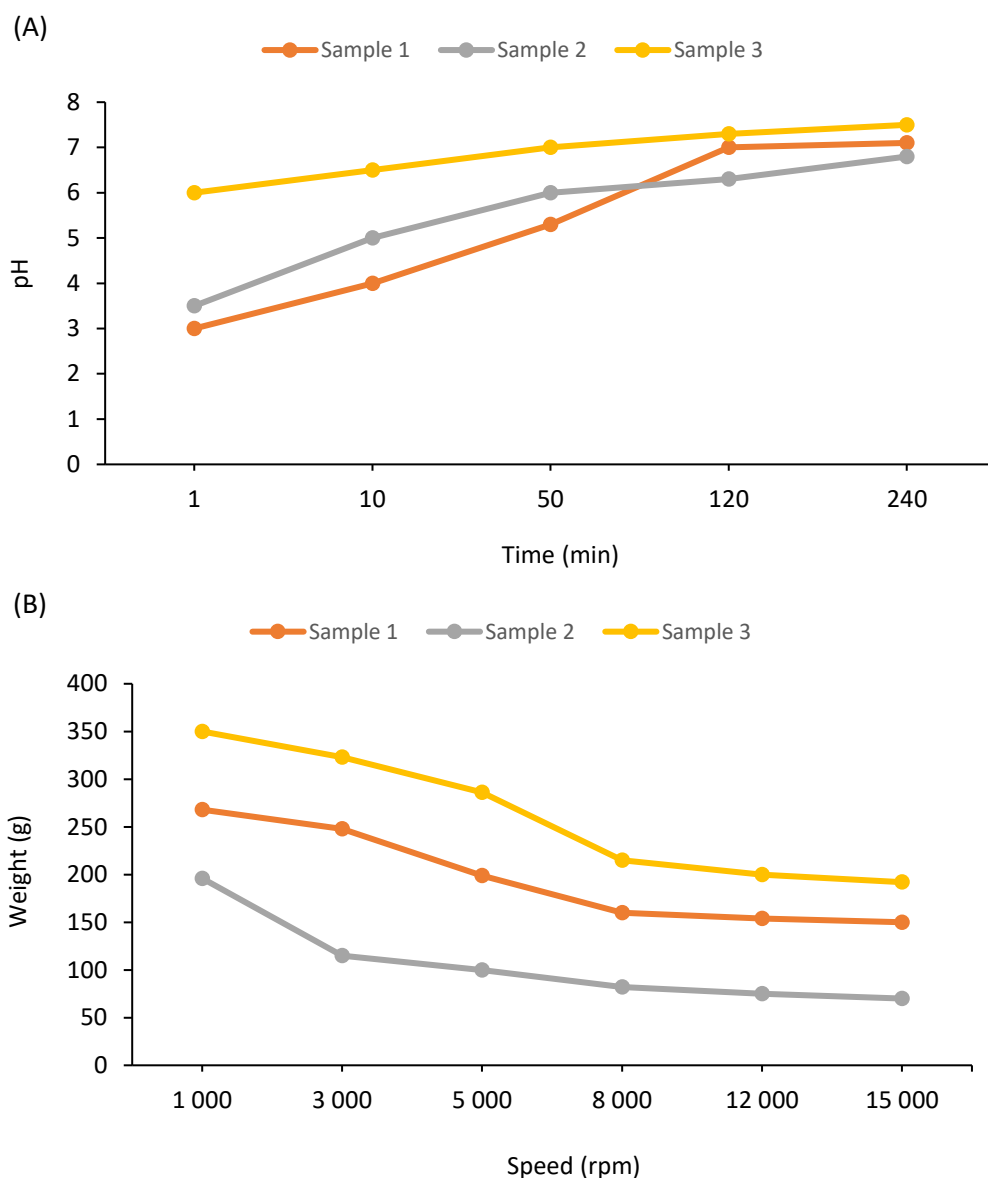


Figure 1. Change (A) in sample pH over time (min) and change (B) in sample weight during centrifugation using different speeds (rpm)

SELF ASSESSMENT

Self-assessment questions to be answered by the authors before submission of the manuscript:

1. Is the information to be published new, and thus worthy of publication?
2. Is novelty expressed in title and discussed properly in discussion?
3. Is the hypothesis sound and original?
4. Were the experiments well-designed and appropriate methods used?
5. Is the paper written with the essential clarity?

6. Has the English been validated by a native-speaker knowledgeable about the field?
7. Is the list of references comprehensive, and are all the references relevant?
8. Where appropriate, are the results statistically significant?
9. Are the titles and legends for tables and figures complete and self-explanatory?
10. Were the Instructions to Authors thoroughly followed?

Please do not submit the manuscript if any of the above questions have been answered in the negative. While something can be learned from most review processes, the reviewers cannot be

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