

Condensed Instructions for Authors of “Engineering in Life Sciences”

“*Engineering in Life Sciences*” publishes independently reviewed original research papers (full papers), short communications, and reviews, as well as book reviews and announcements. All papers on biochemistry, microbiology, genetics, and chemistry and the environmental studies are technologically relevant.

Submission: Manuscripts (not previously published) should be submitted according to the following guidelines:

Online submission using the WILEY-VCH service manuscriptXpress on the Internet: <http://www.els-journal.de> is strongly recommended. The PDF file created by this service will be used for reviewing purposes.

Only if online submission is not possible, papers should be submitted in triplicate and additionally on a diskette, ZIP-cartridge, or CD-ROM and be directly sent to the Managing Editor. Authors are responsible for the content of their submissions. Manuscripts will not ordinarily be returned to authors, unless they have been marked by reviewers with suggestions for improvements.

After acceptance of a manuscript authors are requested to submit the final text, references, figures, figure captions, and tables in electronic form to:

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Language: Papers should be written in English, using American spelling.

Size of Manuscripts:

Original papers (Full papers) consist of experimental and theoretical work with new results. Papers should normally not exceed 40 000 characters (approx. nine manuscript pages). In addition, up to eight figures or schemes, and six tables may be included.

Short communications containing novel experimental or theoretical results requiring urgent publication should be limited to a maximum of 18 000 characters (approx. four manuscript pages) and to no more than six illustrations.

Review articles summarize information published on a certain topic and are not limited to own results. Rather than an assemblage of information with a complete literature survey, a comprehensive critical description, and selection of the material is indispensable. They typically should have a length of 50 000 characters (or eleven manuscript pages). Up to 15 figures may be included (one figure counts approx. 900 characters). They have to provide a Summary, Introduction, and Concluding Remarks.

Formatting: The text files of all kinds of manuscripts should be formatted without hyphenation and hard returns within paragraphs.

Arrangement of manuscripts: For further details regarding the arrangement of the manuscript please see the online sample copy at the “Issues” Section on the journals homepage.

Manuscripts should be divided into sections and subsections by headings and sub-headings.

On the **Title page**, the title of the paper and the name(s) and full address(es) of the institute(s) from which the manuscript originates should be stated below the name(s) of the author(s). The title page should also include the e-mail address to which all correspondence and proofs should be sent, as well as telephone and fax number(s). A **Running title** (not exceeding 20 letters) and one to three keywords should be supplied.

The **Abstract** should be self-explanatory and intelligible without reference to the text. It should not exceed 200 words. It should be written in the past tense, abbreviations should be avoided and no literature should be cited so that the summary could be directly used for abstract journals and databases.

The **Introduction** should concisely define the scope of the work in relation to recent international work, and the scientific progress should be pointed out.

Materials and Methods should give sufficient detail to allow the experiments to be reproduced. It is acceptable to cite previously published procedures; important modifications of published procedures should be mentioned briefly.

Results should be presented with clarity and precision by including tables, figures, formulae, etc.

Contents of tables and figures should not be repeated but only commented in the text; experimental data should be evaluated.

The **Discussion** should be confined to interpretation of the results.

Conclusions (for example, for further research) should be drawn.

The **Results and Discussion** sections can include sub-headings. Results and discussions may be combined, if appropriate.

Acknowledgements of financial support, advice, or other kinds of assistance should be presented after the discussion section before the references.

References listed at the end of the paper must be numbered in the order in which they are first mentioned and cited according to the following examples:

- [1] U. T. Bornscheuer, High throughput screening systems for hydrolases, *Eng. Life Sci.* **2004**, *4* (6), 539–542. DOI: 10.1002/elsc.200402157.
- [2] U. Kragl, *Technology Transfer in Biotechnology: From Lab to Industry to Production*, 3rd ed., Springer, Heidelberg **2005**, 7–22.
- [3] W. Sand, Microbial Corrosion, in *Corrosion and Environmental Degradation* (Ed: M. Schütze), Vol. 1, Wiley-VCH, Weinheim **2000**, 171–205.
- [4] C. Welte, R. Nickel, A. Wild, Purification and crystallization of the light-harvesting complex of *Mantoniella squamata* (Prasinophyceae), in: *Proc. of the 10th Int. Photosynthesis Congress* (Ed: P. Mathis), Kluwer Academic Publishers, Dordrecht **1995**, p. 191–104.
- [5] C. Welte, R. Nickel, A. Wild, Purification and crystallization of the light-harvesting complex of *Mantoniella squamata* (Prasinophyceae), in: *Proc. of the 10th Int. Photosynthesis Congress*, Montpellier, France, August **1995**.
- [6] H. Rong, A. Liu, R. Jones, O. Cohen, D. Hak, R. Nicolaescu, et al., An all-silicon raman laser, *Nature* **2005**, *433*, 292–294.
- [7] J. M. Short, M. Keller, High throughput screening for novel enzymes, *US Patent 6 174 673*, **2001**.
- [8] J. M. Risse, A. Pühler, E. Flaschel, Production of N-acetyl-phosphinothricin, *Eng. Life Sci.*, in press.

Abbreviate according to the practice of „Chemical Abstracts Service Source Index“ (CASSI). Responsibility for the accuracy of references rest with the authors.

Footnotes to the text are to be avoided.

Tables should be numbered consecutively, be given a short heading, and appear at the end of the manuscript. The **Table caption** must explain in detail the contents of the table. Every table has to be referred to in the text, for example “(see Tab. 3)”.

Figures: There **number and size** should be kept to a minimum. They should be numbered consecutively and quoted on separate sheets. Line drawings or computer drawings, including graphs and diagrams, should be of high quality and drawn in black. Figure captions should be typed in sequence on a separate sheet.

Color illustrations will be reproduced at the author’s request and the author will be charged the extra costs.

Numbers, letters, and symbols of figures must have a letter size after reproduction to the printing format of no less than 2 mm.

Figures should be sent in **electronic form** as TIF or EPS files with the highest resolution along with a printout. Particular care should be taken to ensure that figures reporting data are unambiguously labeled with regards to units.

Structural diagrams of molecules as well as **mathematical equations** should be drawn or written in the manuscript at the places to which they belong. They should occupy extra lines and be marked with Arabic numerals in parentheses in the right-hand margin.

The use of the **equation editor** (Word) for typesetting equations is recommended. Authors should not import special symbols and characters as graphics/formulae in the running text and use instead either the Symbol font or the “insert special symbol” option provided with most word processing programs.

Only **SI Quantities and Units** are to be used (SI = Système International d’Unités).

Symbols and abbreviations employed to represent variables, constants, quantities, properties, etc., should be defined in the text at their first occurrence. In addition, a list of all symbols and abbreviations used must be compiled at the end of the text under the heading “Symbols used”.

IUPAC Nomenclature should be used when naming compounds (<http://www.iupac.org>).

Latin names of species should be printed in italics.

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