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**Title: Capitalize First Character of Each Word of Your Title  
Except for Conjunctions and Prepositions That Are Four Letters  
or Less  
(14 Point, Arial, Bold)**

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**Abstract**

A concise and factual abstract is required. Abstract should be a single paragraph and prepared in the length of 100-200 words by using 10-point Times New Roman font. The abstract should state the purpose of the research, the method applied, principle results and major conclusions. The abstract must be able to stand alone, and hence uncommon abbreviations should be avoided and any references cited in the abstract must be given in full.

**Keywords:** *Three to five keywords; Times New Roman; 10 point; Italic; in alphabetical order*

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**INTRODUCTION (Arial, 10.5 point, bold, all capital letters)**

Insert a blank line between the text and the primary heading (e.g. INTRODUCTION, EXPERIMENTAL, RESULTS AND DISCUSSION, CONCLUSIONS, ACKNOWLEDGEMENTS, REFERENCES). Indent all paragraphs. The text must be aligned with the right margin in addition to the left margin.

The followings are the introduction to authors. The authors should follow the instructions.

*Template:* Authors are required to use this template, because the manuscript is essentially published as a PDF file in the web site of The Lignin Society (<http://www.lignin-society.jp/index.html>). Accordingly, all the styles including font types, sizes, and margins in the template should be used for each item in the article.

*Ethics:* Authors should conduct themselves with the highest level of professional ethics and standards. Authorship should be limited to those who were directly responsible for a significant portion of the research including conception, design, execution, and interpretation of experimental results or writing. All such persons should be given the opportunity to be listed as an author, and no one who was not involved in these processes should be included as an author. All authors should be given the chance to review the manuscript before submission. Authors must provide proof that permission has been obtained to reuse figures that have been previously published, and proper attribution should be included in the text of the manuscript. Plagiarism, including self-plagiarism, is unethical scientific behavior. Manuscripts that contain plagiarized text or figures will not be accepted.

*Language usage:* Articles must be written in English or Japanese. Major forms of standard written English (e.g., U.S., British, Australian) may be used, as long as a consistent style is used throughout the manuscript. Authors who are not native speakers of English are required to submit an English proof certificate.

*Types of contributions:* Original articles including short communications, review articles, and interpretive articles on lignin within the following scope of the journal are accepted for *Lignin*. The length of articles generally within 20 and 50 pages for original and review articles, respectively. As for

the interpretive articles, please contact the editors. The editors reserve the right to waive the 50-page limit in case of reviews of unusually high quality and importance. Review and interpretive articles do not need to use the subheadings, i.e., “EXPERIMENTAL” and “RESULTS AND DISCUSSION” shown in the following part of the template.

*Scope:* The journal's aim is to advance and disseminate knowledge in all the areas of lignin and related compounds. Topics include: • lignin biosynthesis and biodegradation, • chemical and supramolecular structure of lignin, • distribution of lignin in cell wall, • chemistry in pulping, delignification and other biomass conversions, • valorization of lignin, • utilization of lignin, • lignin in wood physics and mechanics.

*Peer review:* This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. The review report includes • Accept, • Minor revisions required, • Major revisions required, and • Decline submission.

*Submission fee:* The journal, *Lignin*, tentatively requires no submission fee for each type of article.

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*Submission instruction:* The manuscript must be e-mailed to the following address: kawamoto@energy.kyoto-u.ac.jp (Professor Haruo Kawamoto). When submitting the manuscript, it is mandatory to include a covering letter to the editor. The covering letter must state: (1) Article type. (2) All the authors mutually agree that it should be submitted to *Lignin*. (3) The manuscript is not submitted to other journals. (4) Novelty in results/findings, or significance of results.

Manuscripts must be prepared and submitted in editable formats along with the PDF versions. The text should be in single-column format. Italics should be used for Latin words and contractions (*i.e.*, *viz.*, *e.g.*, *et al.*, *etc.*), for journal titles (*J. Wood. Sci.*), and for genus and species (*Cryptomeria japonica*). Define each abbreviation in full spelling on first appearance in text. No abbreviation should be used in title, abstract, and section headings. Follow internationally accepted rules, use the international system of units (SI).

Leave two lines before the primary heading.

## EXPERIMENTAL

### **Materials and Methods (subheading, Arial, 10.5 point, bold)**

Main text starts here and there is no blank line between the text and the subheading (e.g. Materials and Methods). Leave one blank line between the primary and subheadings. The “Title Case” format, with major words capitalized, is used for subheadings.

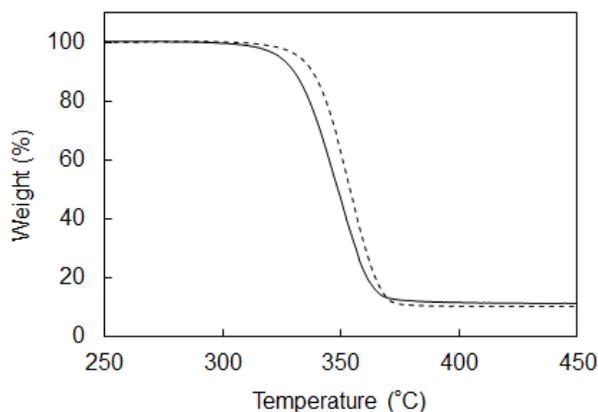
#### *Preparation of model compound (third-level heading, Times New Roman, 10.5 point, italic)*

Capitalize only the first word in the heading. There is no blank line between the text and the third-level heading.

Provide sufficient details to allow the work to be reproduced by an independent researcher. Methods that are already published should be summarized, and indicated by a reference. If quoting directly from a previously published method, use quotation marks and also cite the source. Any modifications to existing methods should also be described.

## RESULTS AND DISCUSSION

Figures should be embedded into the appropriate position of the manuscript. Authors are encouraged to use color graphics, but please make sure that these can be understood when printed in black and white. Ensure that each figure has a caption with the style as shown in the following example (Times New Roman, 10 point). Supply captions separately, not attached to the figure. All symbols and abbreviations must be explained in figures or captions. Note that too many figures should NOT be included in the manuscript.



**Fig. 1.** Figure caption should be below the figure and centered.  
 Solid line: cellulose, broken line: reduced cellulose.

Each table should have a caption with the style as shown in the following example (Times New Roman, 10 point). Place footnotes to tables below the table body and indicate them with superscript lowercase letters. Avoid vertical rules. Tables can be prepared directly in the text or pasted into the text at the appropriate position.

**Table 1.** Table caption should be above the table and centered.

Reaction pressure (MPa)*	Yield (mol%)**		
	A	B	C
0.1	30.5	0.8	45.3
0.5	25.3	5.8	37.4
0.8	20.4	5.9	30.8
1.5	10.3	4.8	23.5
3.0	7.5	4.9	10.6

\* explain at the footnote. \*\* a, b, ... and 1), 2),.....are also acceptable.

The relevant literature must be cited in the text using superscript number, i.e. <sup>1,2,4-6</sup>. Ensure that every reference cited in the text is also present in the reference list (and vice versa). Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text (e.g. 'Unpublished results' or 'Personal communication'). Citation of a reference as 'in press' implies that the item has been accepted for publication. All of the literature cited in the text should be listed in "REFERENCES". The authors should use the styles shown in the "REFERENCES" section, which are different depending of the literature type.

## CONCLUSIONS

1. The main conclusions drawn from results should be presented.
2. The conclusions are recommended to be numbered. There is a half-space (6 point) between each of the numbered conclusions.

## ACKNOWLEDGEMENTS

List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.). You are requested to identify who provided financial support for the conduct of the research and/or preparation of the article

## REFERENCES

- 1) Name, A., Name, B. C., Name, C., Title of paper, *Journal Title*, **35**, 3523-2034 (2000). (an example of a journal article)
- 2) Name, A. *et al.* (2001). "Title of chapter," in: *Title of Textbook*, Editor, D. E. (ed.), Publisher Name, Name of City, pp. 15-30. (an example of a chapter in a book)
- 3) Name, A., Name, B., Title of paper, 10th International Symposium on Title, City, pp. 135-138 (2015). (an example of a paper in proceedings)
- 4) Name, A., Name, B., Title of patent, U. S. Patent 00000 (2008). (an example of a patent)
- 5) Name, A., Name, B., Title of report, The Lignin Society, <http://www.lignin-society.jp/index.html>, accessed June 30, 2019. (an example of a web reference. Ensure not too many web references.)

Authors can use "et al." when the number of authors is three or more.