**English title in bold, centralized, font size 14**

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**Resumo**

Translation of the abstract to an appropriate language must be provided here. Please choose either Portuguese or Spanish, and adapt your list of keywords accordingly.

**Palavras-chave:** Separadas. Por. Ponto.

**Abstract**

The abstract must be written in English as a single paragraph. It must be aligned both to the left and right margins. No references should be cited in the text, which must contain from 600 to 1000 characters including spaces (or from 200 to 300 words). As an example of how the abstract's format should be, a random text is given here. TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT

**Keywords:** Separated. Per. Dot.

**Nomenclature**

If necessary, a list of notations and used symbols must be given here, before the Introduction, together with their measuring units, in alphabetical order. Proper acknowledgments are usually made after the Conclusions.

**1. Introduction in bold, left aligned**

The page format should be A4 (210 mm × 297 mm), in the “portrait” orientation mode, and the margins of the text must be lower of 1.5 cm, upper, of 2.5 cm, right of 1.25 cm and left of 3 cm. The text of the entire manuscript, including the titles of each section and sub-title, must be typed with Times New Roman font, size 12, justified aligned.

The title of each section is a first-order header and must be numbered with Arabic numerals, aligned to the left in bold. Spacings of 6 pt before and 12 pt after the text must be given.

It is recommended that this template provided by jCEC be used to write the entire manuscript. That way, these guidelines will be properly observed. Articles written in Portuguese, English or Spanish must have the same format. The first line of each paragraph must start with a 1-cm tabulation from the left margin with fully-justified alignment. The manuscript must be written with a minimal of 5 (five) and a maximal of 15 (fifteen) pages.

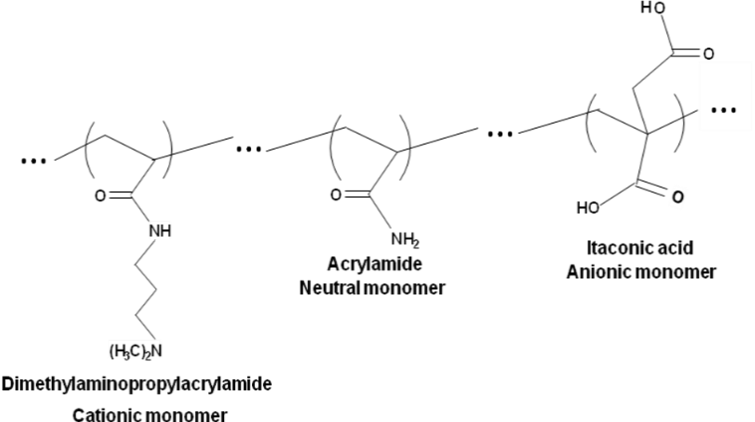
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The second-order headers must be aligned to the left margin and must be written in italic, with only the first letter of each word in upper case.

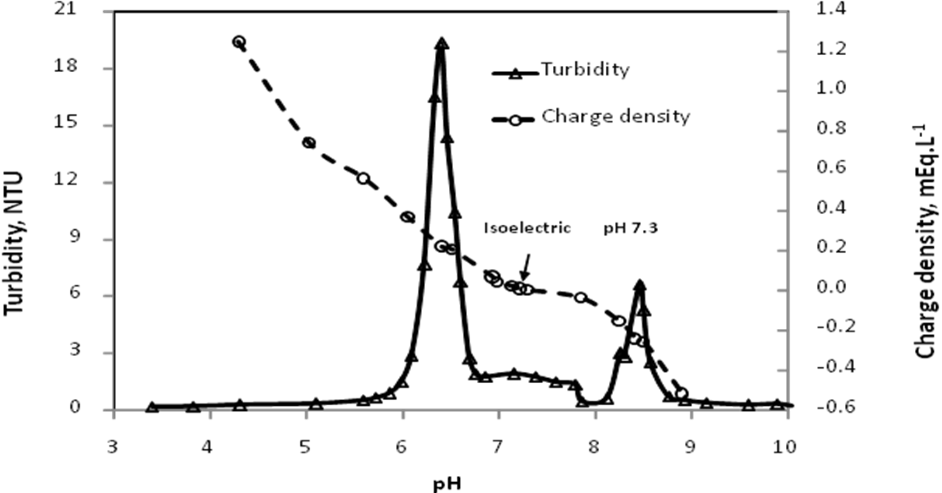
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**2. Figures**

Figures may be colored or not, and must be inserted in the main body of the manuscript as close as possible from the point where they are cited in the text. They must be centralized and should not exceed the margins defined for the page. It is recommended that a minimal of 300-dpi resolution be used in digitized figures. They should be preferably saved in the JPG format. Each figure must have a caption in Arabic numerals. The caption must be centralized just below the figure itself, and separated by a single space before the corresponding text and double space after it. The format to be followed is: Figure 1 – Caption of the figure, with a final dot. In the main text, they should necessarily be mentioned or cited as in the example: “As shown by Figure 1, ...” . Please see other examples below:



**Figure 1 - Polyampholyte molecular composition prepared by random, free-radical polymerization. (Bold, size 12)**



**Figure 2 – Digital structure of a hybrid velocity/position fuzzy-PID controller.**

**3. Tables**

Tables and/or charts must be adapted or adjusted to the page window and must be shown after and as close as possible from the point where they are cited in the text. Their captions must be aligned to the left just before the table itself with single spaces before and after the text, and must be typed as: Table 1 – Caption of the table, with a final dot. All tables must be cited in the text, as in the example: “The results of the experimental planning are shown in Table 1.” The measuring units of all parameters discussed in the work must be clearly declared, preferably in the International System format. It is recommended that a slash (/) be used to separate the name of the parameter and its corresponding unit whenever possible (see example on the table below; this format may also be used in the captions of graph axes).

**Table 1 – Fuzzy rules for controllers Fuzzy-PI and Fuzzy-PID.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Fuzzy-PI controller** | | | | | | | |
| **Δe(k)|e(k)** | **NL** | **NM** | **NS** | **ZR** | **PS** | **PM** | **PL** |
| **PL** | **ZR** | PS | PM | PL | PL | PL | PL |
| **PM** | NS | **ZR** | PS | PM | PL | PL | PL |
| **PS** | NM | NS | **ZR** | PS | PM | PL | PL |
| **ZR** | NL | NM | NS | **ZR** | PS | PM | PL |
| **NS** | NL | NL | NM | NS | **ZR** | PS | PM |
| **NM** | NL | NL | NL | NM | NS | **ZR** | PS |
| **NL** | NL | NL | NL | NL | NM | NS | **ZR** |

**Table 2 - Fiber Quality Analysis.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Parameter** | **Mean length / mm** | **Mean width / µm** | **Fines / %** | **Vessel / #** | **Vessel length / mm** | **Vessel width / µm** |
| Arithmetic average | 0.719 | 16.43 | 0.689 | 6.5 | 0.533 | 133.48 |
| Standard deviation | 0.006 | 0.096 | 0.059 | 2.082 | 0.032 | 9.194 |

Note: The number of fibers counted was 3000. The fine fraction was classified as such if the fibrous elements had an effective dimension between 0.05 and 0.2 mm. (Table notes must be given in Font Size 9 and aligned to the left)

**4. Equations**

All equations must be typed in italics after a 0-cm tabulation from the left margin of the column, with a consecutive numbering in Arabic numerals between parentheses right aligned. All equations must be cited in the text, according to the example: “Replacement of Equation 1 on Equation 3 gives Equation 5 ...”. If any equation is written in more than one line, the corresponding number must be given on the last line, also between parentheses and aligned to the left of the corresponding column. See example below.

(1)

where X is the moisture content, [kg H2O/ kg dry mass], t is time, [s], and Deff is the effective diffusivity, [m2 s−1].

**5. Supplementary Material**

Manuscripts Including NMR, IR, Mass Spectra, etc. Whenever a compound is synthesized or identified (new or already known), it is imperative that spectral data (data and spectra) as Supplementary Material is submitted along with the manuscript. Supplementary Material. This resource was created so that the main text of the manuscript would contain only the strictly necessary figures and tables. Contents for Supplementary Material should be placed at the end of the manuscript, after the References section. Whenever the Supplementary Material is present, a section named Supplementary Material, describing its content, should be created in the main text of the manuscript right after Conclusions. The text should also indicate the free access to the Supplementary Material at jCEC website. Graphical elements and tables for Supplementary Material should be sequentially numbered as in the following examples: Figure 1S, Figure 2S, Table 1S, Table 2S. The Supplementary Material is a separate document. If references are used, they should be listed at the end of the Supplementary Material and numbered as 1S, 2S, etc. Editors, at any time of the editing process, may ask authors to remove portion(s) of the manuscript and include it in the Supplementary Material.

**Acknowledgements**

The authors appreciate the ﬁnancial support from…

**References**

All references must be written in the formats given below, which are based on American Psychological Association - APA. They should all be cited in the text by the first author's surname of the first author of the reference, followed by “et al.”, it that is the case, and year of publication between parentheses, as in: “Reports by Smith et al. (2009) and Schmidt et al. (2012) showed that ...”. In case the citations appear after the main text, the following format is suggested: “... such results have already been discussed in the literature (Armstrong et al., 2014; Fischer et al., 2015; Williamson et al., 2013)”. In this case, note that alphabetical order by the author's surname must be observed to list these references. In the case of two authors, the reference must be cited as: “... according to Armstrong and Fischer (1995), ...”. If three or more authors are involved, cite only the first author and use “et al.”, as in the previous examples. If different reports by the same authors have been published in the same year, please use letters a, b, c... after the publication year, as in the example: “Works by Smith et al. (2005 a, b) showed that ...”.

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Santos, M. L. (2001). *Crescimento e alocação de biomassa e de nutrientes em eucalipto, decorrentes da aplicação de nitrogênio e potássio*. Dissertação de Mestrado, Universidade Federal de Viçosa, Viçosa, MG, Brasil.

Works in proceedings of scientific events:

Fonseca, R. R., Franco, I. C., & Silva, F. V. da. (2016). Bioreactor temperature control using a generic fuzzy feedforward control system. 841: Intelligent Systems and Control. Modelling, Simulation and Identification / 841: Intelligent Systems and Control, Campinas, Brazil. [https://doi.org/10.2316/P.2016.841-024](about:blank)

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