|  |  |
| --- | --- |
| cetlogo ***CHEMICAL ENGINEERING TRANSACTIONS*** ***VOL. 64, 2018*** | A publication ofaidiclogo_grande |
| The Italian Associationof Chemical EngineeringOnline at www.aidic.it/cet |
| Guest Editors: Enrico Bardone, Antonio Marzocchella, Tajalli KeshavarzCopyright © 2018, AIDIC Servizi S.r.l.**ISBN** 978-88-95608- 56-3; **ISSN** 2283-9216 |

Type Here Your Title, Arial 16, Centred [Style: CET Title]. To Prepare Your Paper Use Directly this Template and Simply Replace this Text by Your Text

John J. A. Smitha, Ronald R. Adams\*b, <full given name> <other given names initials if appropriate><surname>, if more than one affiliation, then affiliationa andb should be used, corresponding author with\* (but not in case of single author),left Arial12 [Style: CET Authors]

aAffiliation and Address , no email, left , Arial 8 [Style: CET Address]

bAffiliation and Address , no email, left , Arial 8 [Style: CET Address]

adams@domain.ex:, email only for corresponding author, left , Arial 8, [Style: CET email]

These instructions comply with the rules set by AIDIC for the publication of the papers in a volume in the series: Chemical Engineering Transactions.

The manuscript title must be in “Title Case”, i.e., when writing a name or a title, you should only use capital letters for the principal words. Do not use capital letters for prepositions, articles or conjunctions unless one is the first word.

Title should be followed by the list of authors in the format given above, denoting the corresponding author with an asterisk. In case of single author, the asterisk is not required. Further should be given the author affiliations. Please use just one (main) affiliation, the other can be acknowledged. Below those, the email of the corresponding author should be provided. Note – the words “email” or “e-mail” or “corresponding author” should be omitted. On the line for the corresponding author email please put ONLY the email without any added remarks, marks, and especially without an asterisk.

The manuscript should start, with an abstract of the paper that summarizes the scope, aims, results and conclusions of the work. Do not head the abstract section with any heading (ex: do not indicate the word Abstract). The abstract section is mandatory.

Start the first abstract paragraph 10 pts below the email of the corresponding author. Do not insert references in the abstract. If you need assistance, please do not hesitate to contact the address you may have received for this purpose.

Each manuscript will be published in Chemical Engineering Transactions ONLY if there is a corresponding copyright transfer agreement accompanying the manuscript. This agreement grants to AIDIC only the necessary rights to protect the publication from undue use. Upon receiving the email for final acceptance of your paper, please fill in, sign and email a scan of the copyright transfer form.

* 1. Format and type fonts

To prepare your paper use directly this template and simply replace this text by your text.

These instructions are to be followed strictly, and it is strongly advised to use the styles indicated in this document in between square brackets. Do NOT use formatting or styles in your paper different from the ones mentioned here.

* + 1. Format

Margins: inside margin 30 mm, outside margin 25 mm, top margin 30 mm and bottom margin 30 mm. Please make sure that you do not exceed the indicated type area. When you use the current document as a template, please do not modify the page setup.

The number of pages for the manuscript have to fit into 6 PAGES, including references and figures. Please Do NOT insert page numbers. Please Do NOT use the Headers or the Footers. They are reserved for the technical editing of the volume by the CET editors.

* + 1. Type font and type size

Prescribed font is Arial, 9 points, with an 11 pts line spacing (1.1 multiple lines), 1 column. [Style: CET Body text]

However, if your text contains complicated mathematical expressions or chemical formulae, you may need to increase the line spacing. Running text should be justified. Do not use bold or italics in the text. They are reserved for headings. The core terminology of Process Integration as e.g. Pinch, Composite Curves should be capitalised. This is a critical requirement for keeping the high standard of the journal.

* 1. Section headings

The way section titles and other headings are displayed in these instructions, are meant to be followed in your manuscript.

Level 1: Arial, 10, Bold, 12 pt spacing before heading, 6 pt spacing below heading [Style: CET Heading1]

Successive Levels: Arial, 9, Bold, 6 pt spacing before and below heading, [Style: CET headingx].

Do NOT begin a new section directly at the bottom of the page, but transfer the heading to the top of the next page.

* 1. (Foot)notes

Please do not use footnotes.

* 1. Measurement units, numbers

Please use the SI set of units as much as possible. Wherever the application domain uses a different set of units widely, please minimize the use of non-standard units or non-standard symbols for those units. As examples, the use of “a” for year (annum) is depreciated and the use of “y” is encouraged instead. Similarly, “h” should be used for hours instead of “hr” and “t” instead of “ton” or “tonne”. It is important to take care of the case in which the measurement units are typed. E.g. “Km” does not mean “kilometres”, but “Kelvin-meters”.

When providing numerical values followed by measurement units, please leave a regular space or non-breaking space between each value and the measurement unit. This also includes percentages and degrees Celsius (e.g. 42 % or 35 %, 234 °C, 504 K). This rule also applies to the unit for litre, which is recommended to be capital “L”.

The authors are encouraged to render the numbers specifying the dot as a decimal separator and the comma as a thousands separator. Please use the British style for numbers – i.e. 1,000,000 and not 1000000 or 1 000 000.

* 1. Equations

Write equations instead of copy and paste an image. Make sure that placing and numbering of equations is consistent throughout your manuscript. References to the equations should be as Eq(1).

|  |  |
| --- | --- |
|  | (1) |

Inside the equations please use font Arial, size 9 pt as for the main text. If this is impossible, then please use at smallest 8 pt font size. Leave some extra spacing above and below the equation inside the equation paragraph (recommended 6 pt before and 6 pt after), left align the equation and put the number of the equation flush-right. You may use a Right Tab on the right margin. It is strongly recommended to use a 1-row table without grid lines, as shown in the example, as this guarantees correct vertical alignment (middle).

* 1. Figures and tables
		1. General

Figures and tables have to be included inside the text; they should be originals or sharp prints; they must be well readable without enlarging with the zoom. Illustrations will be in colour in the electronic version and black and white in case of printed version. The authors must make sure that the figures are legible and understandable in greyscale mode. Avoid referencing your text to coloured items in the figures. All these means will be lost in case of hard copy printing and will create misunderstanding to the reader.

Figures and tables should preferably be placed either at the top or at the bottom of the page. Please do not render tables as pictures, not use small font size in the tables. Please do not use too small font sizes in the pictures. These methods reduce the legibility severely, resulting in poor reader experience.

All figures and tables should have captions with labels “Figure” and “Table”. Please make sure that the label words start with capital letters. The cross-references to the figures and the tables should use only label and number, labels also starting with capital letters.

Inside figures and tables please use font Arial, size 9 pt as for the main text. If this is impossible, then please use Lanscape tables. In figures please avoid using picture frames. Both figures and their captions should be placed flush-left.

* + 1. Tables

Set table number and title flush left above table. Horizontal lines should be placed above and below table headings and at the bottom of the table. Vertical lines should be avoided. Title should use Arial 9 (the same font size as the main text), italic, with 12 pt before and 4 pts below the paragraph, left justified at the top of the table. Tables have to be included into the text. If a table is too long to fit one page, the table number and heading should be repeated on the next page before the table is continued. Alternatively the table may be spread over two consecutive pages (first an even numbered, then an odd-numbered page) turned by 90°, without repeating the heading. Please do not use bold font in tables.

Table 1: Table title (Style: CET-table-title)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Heading1  | Heading 2 | Heading 3 |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

* + 1. Figure captions

[Style: CET Caption]

Figure 1: Captions should be placed below each illustration, font Arial, Italic, 9 pts, with 12 pt before and 12 pts below the paragraph. Figures and figure captions should be placed flush-left; two narrow figures may be placed side-by-side.

Please make sure that the captions are on the same page with the relevant figures and tables. Please reference figures in the text by writing: e.g. Figure 1. (do not use Fig.). The caption should start with a capital letter. Please keep the caption short – taking preferably 1 line, maximum 2.

* + 1. References in the text

In order to give our readers a sense of continuity, we encourage you to identify CET articles of similar research in your papers. Please, do a literature check of the papers published in CET in recent years (2013 - 2014) at www.aidic.it/cet.

Using a list of lumped references is not helpful to the readers. If you need to use more references at least a short assessment/justification should be provided – individually. This can be done by mentioning 1 or 2 phrases per reference to show how it is different from the others and why it deserves mentioning.

Citation in the text to a literature source, is given by the surname of the author(s) followed by the year of publication, e.g. "Smith (1984) has reported ..., which was recently confirmed (Jackson and Sharp, 1986)." For references with more than two authors, text citations should be shortened to the first author followed by "et al.” However, in the list of References the names and initials of all authors should be mentioned. Just “et al.” is neither ethical nor politically correct. Using multiple references in a sequence is not very helpful for a reader. If you need to use more references at least a short assessment/justification should be provided.

Two or more references by the same author published in the same year are differentiated by the letters a, b, c, etc. immediately after the year. The references should be listed in alphabetical order in the list of References.

* 1. Conclusions

It is mandatory to have conclusions in the manuscript**.** This ensures completeness of the presentation as well as provides the readers with an idea about the significance of the achievements in the presented work. The conclusions should point out the significance of the presented work. It is advised that the contained quantitative reasoning where appropriate, comparing the obtained results to previous work or appropriate benchmarks. Please do not make another abstract.

Acknowledgments

In case of Acknowledgments, please add this paragraph after Conclusions and do not number it.
[Style: CET Acknowledgements]

Reference

Do not number the References paragraph [Style: CET Reference]

References are prepared according to the Harvard style (name/year system). Please be sure that your references strictly follow the rules here below reported. Otherwise your paper will not be accepted for publication into the volume.

The articles in press should be used only if they have been accepted and have already allocated their DOI:

When referencing conference proceedings page numbers should be provided, when proceedings are not available the lecture identification – e.g. a lecture number or a poster number.

When you are referencing websites an author or authoring institution should be provided. The date of the last access should be provided as well.

The hyperlinks (blue colour and underlining) should be removed from email addresses and web references.

You do not need to repeat http:// as modern browsers. However the date of the last access should be always provided.

For books, thesis, report etc. - please provide both the place and country where the book was published.

Please make sure that all entries in the list of references are cited in the text and that all citations in the text have entries in the references list.

[Style: CET Reference-text]

Bonzel H.P., Bradshaw A.M., Ertl G., Eds., 1989, Physics and Chemistry of Alkali Metal Adsorption. Elsevier, Amsterdam, the Netherlands

Hertel T., Over H., Bludau H., Gierer M., Ertl G., 1994a, The invention of a new solid surface, Surf. Sci. 301, 10-25.

Hertel T., Over H., Bludau H., Ertl G.,1994b, Phys. Rev. B 50, 8126. Kern K., 1994, The Chemical Physics of Solid Surfaces, vol. 7: Phase Transitions and Adsorbate Restructuring at Metal Surfaces, Eds. King D.A., Woodruff D.P., Elsevier, Amsterdam, the Netherlands.

Kjurkchiev N., Andreev A., 1990, Two-sided method for computation of all multiple roots of an algebraic polynomial, Serdica 15, 302-330 (in Russian).

Rico-Ramirez V., Napoles-Rivera F., Gonzalez-Alatorre G., Diwekar U., 2010, Stochastic optimal control for the treatment of a pathogenic disease, Chemical Engineering Transactions, 21, 217-222, DOI: 10.3303/CET11226001

WWF (World Wide Fund for Nature), 2002, Living planet report <www.wwf.de> accessed 20.01.2011