

AUTHORS' KIT

Materials Science & Technology ^(MS&T) 2007 Conference and Exhibition September 16-20, 2007

This Authors' Kit consists of the following:

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This form is required before your article can be included in the conference proceedings.

Critical Dates:

Article Submission Dates 4/20/07 through 5/15/07

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If necessary, the Editors will return your article to you for corrections to be made and the article resubmitted.

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Replace This Text with the Title of Your Paper – Align Centered, Title Case, 14 pt Font

Main author of affiliation 1, coauthor of affiliation 1, etc. (first initial and family names only, e.g. W. Parker)

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Keywords: Keyword1, Keyword2, Keyword3 (3-5 keywords)

Abstract

These instructions are intended to be used as a template also. Replace this text with your abstract, which should be 100 to 250 words.

Articles should be 10–12 pages long and submitted in Microsoft Word 2000 or a higher version. The file must be a word processing document. Macintosh users need to convert their files to Word 2000 and save them with a .doc extension in the filename.

First-Level, Called-Out Heading

The first called-out heading after the “Abstract” is usually “Introduction”. First-level and second-level called-out headings are 12 pt Times New Roman, boldface, and title case, which means each word starts with a capital letter. First-level heads are centered, and second-level heads are flush left. If a third-level is needed, it is 12 pt Times New Roman, flush left, boldface, title case, and italic. Do not number or letter your headings. Insert one space between the heading and the body of the last line of text from the previous section.

Second-Level, Called-Out Heading

Insert the text of the body of your article here, replacing this text. The margins should be justified using Times New Roman, 12 pt font. Use single spacing and indent the first paragraph by one tab. Do not insert a space between paragraphs within each section. Chemical formulas are written using subscripts, such as Al_2O_3 , not $\text{Al}2\text{O}3$.

Third-Level, Called-Out Heading

The page dimensions should be American Letter format, 8.5 x 11 inches. Select file/page setup/paper size and see “Letter, 8.5 x 11 in.” Margins should be 1 inch at the top, bottom, right, and left.

Do not add any headers or footers, such as page numbers and use the SI system of units (cm, °C, MPa). Avoid footnotes whenever possible. Instead, enclose text within parentheses and keep within the paragraph.

Tables

Place tables within the text after the paragraph in which they are first mentioned. Number tables with Arabic numbers (1, 2, and 3) followed by the table title, and place the title (boldface) above the table. The table title and body should be 10 point Times New Roman.

Table 1 The spraying parameters for experiments

Injecting	Ar (L/min)	H ₂ (L/min)	N ₂ (L/min)	H ₂ %
Axial	17.7+16.3	5.5	--	13.9
Internal	30	8.1	17,7	14.5
External	30	6	8.1	13.6

Figures

Center figures and center the caption (10 pt Times New Roman, italic) below each figure. Do not place figures side-by-side unless they share a caption. Preferred image files are .tif and .eps and should be placed at 100% of the original size. Micrographs and other halftones should be at least 300 dpi (dots per inch), and line-art (graphs, schematics, and bar charts) should be at least 900 dpi. Micron bars should be used on micrographs. Ensure type in figures is large and clear enough to be read; it will not be reset. Crop and place images in your electronic document where you want them to appear in the article.

Color is acceptable, but when the article is printed, it will likely be in black and white. So avoid light colors, such as yellow, light blue, light green, and pink. Plots in a graph should be delineated by a symbol or line pattern. Avoid color graphs in which delineation between plots is indicated by color alone.

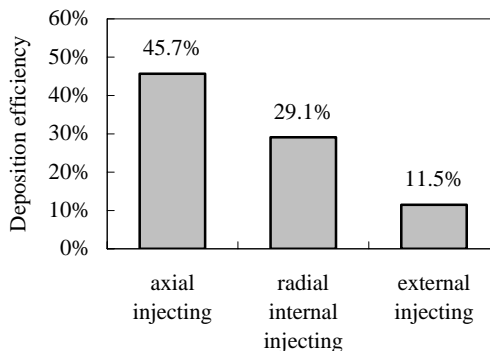


Figure 7 Deposition efficiencies under different particle injecting methods

Equations

Equations should be separated from the text by one blank line above and below. Number equations consecutively and place the number on the last line of the equation. Built-up equations should be keyed in Word Equation Editor.

$$\frac{\partial(\bar{\rho}\bar{v})}{\partial t} + \text{div}(\bar{\rho}\bar{v} \otimes \bar{v}) = -\text{grad}(\bar{p}) + \bar{\rho}g + \text{div}(\bar{\tau}) \quad (1)$$

$$\frac{\partial(\bar{\rho}m)}{\partial t} + \text{div}(\bar{\rho}m\bar{v}) = \text{div}\left[\left(K_m + \frac{\mu_t}{Pr_t}\right)\text{grad}(m)\right] \quad (2)$$

For math and special characters, such as \leq , \times , \ddot{u} , \acute{a} , 45° (degree symbol), α , π , β , μ , \otimes , use the Symbol font. In Word, go to “Insert Symbols”. Use the keyboard for $!$, $\%$, $\&$, $\$$, $\#$, $@$, etc.

Conclusions

If there are conclusions or a summary, place them before the acknowledgments or references. Each of these heads should be first-level, called-out heads.

Acknowledgments

If there is an acknowledgments section, it should be placed just before the references.

References

Place references at the end of the article using the following format. References should be referred to in text and numbered sequentially. Use standard abbreviations for journal names.

[1] E. Traversa, S. Villanti, G. Gusmano, H. Aono, and Y. Sadaoka, Design of Ceramic Materials for Chemical Sensors: SmFeO₃ Thick-Films Sensitive to NO₂, *J. Am. Ceram. Soc.*, Vol 82 (No. 2442-50), 1999, p 127-154

[2] D. Von Der Linde, K. Sokolowski-Tinten, and J. Bialkowski, Laser–Solid Interaction in the Femtosecond Time Regime, *Appl. Surf. Sci.*, Vol 109/110, 1997, p 1-10

[3] D.F. Downey et al., *Ion Implantation Technology*, Prentice-Hall, 1993, p 65-67

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Your Word file will be converted to a PDF before being included on the CD-ROM for distribution at the MS&T event in Detroit in Sept 07.

If you submit a Word file, we will make a PDF of your article. To ensure there are no possible conversion errors, such as font substitutions or unsightly page breaks, you can make the PDF yourself and submit it instead of the Word file.

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