Information for Contributors

Central South University (CSU) is one of Chinese key universities, which is affiliated with the Ministry of Education. “Journal of Central South University” (ISSN 2095-2899, CODEN JCSUBS) is sponsored by CSU.

The Journal mainly publishes academic papers and reports that are of creativeness and represent the latest achievement of scientific research in such fields as materials science and engineering, metallurgical science and engineering, mineral processing, chemical engineering, and mechanical, electronic and information engineering, geology and mining, civil engineering.

JCSU is covered by SCI Expanded, EI Compendex, Chemical Abstract, Metal Abstract, Aluminium Industry Abstract, etc. Manuscripts are selected for publication according to the editorial assessment of their suitability and evaluation from independent reviewers. It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere.

Manuscript preparation Manuscript should be in English and typed on only one side of A4 paper with double space. In addition, a manuscript disk (based on Word) that contains the material to be considered for publication and a copy of the full-length paper is sent to: Editorial Office of Journal of Central South University, Changsha, Hunan, 410083, China. The electronic manuscript can also be sent to the editorial board by E-mail: jcsu@csu.edu.cn.

Title and By-line The title should be descriptive, not full sentences. Name, affiliation (institution) of the authors, city, country, E-mail address and telephone number of the author(s) should be listed.

Abstract and Key words The abstract of about 100-150 words must accompany each article on page one. It should be self-contained and should be adequate as a summary of the article, namely, it should contain aim and significance, experimental methods and main results and conclusions as well; newly developed conceptions, methods, apparatus, techniques, and newly discovered facts. Summarized results should be exact, direct, and specific. Together with the title, it must be adequate as an index to all the subjects treated in the paper, and will be used as a base for indexing. Avoid displayed mathematical expressions. Define all nonstandard symbols and abbreviations. The key words should include 3-8 pieces of words or phrases to serve as guidelines for indexing, which should be typed below the abstract.

Text The text should contain an Introduction that puts the paper into perspective for readers, and should also contain Methods, Results, Discussion and Conclusions. The SI system should be used for units of measure throughout the text. Each Equation or Formula in the article should be numbered in the order with Arabic numerals placed on the right-hand margin. Each caption should be written as a single brief paragraph without indentation. Figures and tables should be consecutively numbered with Arabic numerals. Tables should be drawn with three horizontal lines, at the top and bottom of the table and between the column headings and the table body. Good quality figures have the following characteristics. They should be produced with a good quality laser
printer and have lines, letters, numbers and symbols of uniform strength and contrast.

**Figures** Figures (except photographs) are often reduced to 7 cm×7 cm. The final thickness of a line in a figure usually lies within the range 0.15-0.20 mm. When preparing the figures, authors should pay attention to the widths of lines and similar details, as some (e.g. dotted or thin lines) may disappear after reduction. Particular attention should be paid to line strengths in graphics prepared in vector formats.

**Equations** Equations should be neatly typed or clearly written in ink, punctured and aligned to bring out their structure, and numbered on the right. Physical quantities should be printed in italics, and vectors in bold-face italics. For mathematical expressions, the solidus (/) should be used instead of built-up fractions in running text and in display wherever clarity would not be jeopardized. Use “exp” for complicated exponentials.

**Photographs** Photographs should have high contrast. They should be glossy, properly focused and exposed. Those who wish to place two or more photographs side by side are reminded that the column width of this journal is approximately 150 mm. Line drawings should be clear and well designed. The lettering and plotted points should be large enough to be legible after reduction. Graphs should have axes with proper labels such as $T/K$.

**Mathematical material** The text should make clear distinctions between physical variables, mathematical symbols, units of measurement, abbreviations, chemical formulas, etc. Authors should use italic and boldface to identify physical or mathematical variables. Variables are to be set in normal italic, and vectors, tensors, and matrices in boldface.

**Acknowledgements** Individuals, affiliation, or other to be concerned who were direct help in the work should be acknowledged by a brief statement.

**References** Only essential references (formally published journals, articles, monographs, dissertations, reports, proceedings, standards, patents, and/or electronic publications) cited in the text can be listed and must be numbered consecutively by Arabic numerals, which should be listed in the same order as cited in the text. There should be at least twenty references. Periodicals should be referred to in the following order: name of author(s), title of paper, name of periodical, year, Vol. (No.): page number. Books should be referred to in the following order: name of author(s), title of book, city: publishing house, year of publication. The reference published in Chinese should be translated into English and noted by “(in Chinese)”. References in the text should be numbered by superscripts(e.g. “LIU et al[1] reported that…”), and listed on a separate sheet in the following styles:


Research data policy

The journal encourages authors, where possible and applicable, to deposit data that support the findings of their research in a public repository. Authors and editors who do not have a preferred repository should consult Springer Nature’s list of repositories and research data policy.

List of Repositories
Research Data Policy
General repositories - for all types of research data - such as Figshare and Dryad may also be used.

Datasets that are assigned digital object identifiers (DOIs) by a data repository may be cited in the reference list. Data citations should include the minimum information recommended by DataCite: authors, title, publisher (repository name), identifier.

DataCite
Springer Nature provides a research data policy support service for authors and editors, which can be contacted at researchdata@springernature.com.

Contact information
Address: Editorial Office of Journal of Central South University, Changsha, Hunan, 410083, P. R. China.
Tel: +86−731−88836963
E−mail: jcsu@csu.edu.cn
Website: http://www.zndxyw.cn/
       http://www.zndxzk.com.cn/
       http://www.springer.com/journal/11771