

Guide for authors

(Please Note New Guidelines on Graphical Abstract on the following page)

1. Scope

The general objective of the *Journal of Molecular Catalysis A: Chemical* is to publish scientific contributions examining the molecular and atomic aspects of catalytic activation and reaction mechanisms in:

- *Organometallic and biomimetic catalysis,*
- *Ionic catalysis by acids, bases, and metal ions,*
- *Molecular aspects of Heterogeneous catalysis.*

Typical topics for which manuscripts are invited, are:

- *New trends in homogeneous and heterogeneous catalysis, in relation to environment, energy, and fine chemicals, (organic and asymmetric synthesis, oxidation, C–H and C–C bond activation and functionalization, polymerisation, energy-assisted catalysis (photocatalysis, electrocatalysis)),*
- *Molecular engineering of porous and non-porous solids,*
- *Molecular design of active sites, homogeneous and heterogeneous,*
- *Molecular models and approaches to oxides, metals, zeolites, and mesoporous materials used as catalysts,*
- *Molecular description and approaches to catalysis on clean surfaces,*
- *Experimental and/or theoretical studies of elementary steps governing homogeneous and heterogeneous catalysis reactions,*
- *Relationship between homogeneous and heterogeneous catalysis,*
- *New reaction media (ionic liquids, supercritical solvents) for homogeneous and heterogeneous catalysis when these media influence the reaction path,*
- *Combinatorial methods for homogeneous and heterogeneous catalysis (molecular design of ligand*

libraries, new generic molecular approaches to the functionalization of surfaces).

Particularly welcome are manuscripts describing or discussing novel molecular concepts in line with the above-mentioned topics when they address issues or challenges related to energy, environment and sustainable chemistry problems.

Since the scopes of the Elsevier journals *Journal of Molecular Catalysis A: Chemical*, *Journal of Molecular Catalysis B: Enzymatic*, *Applied Catalysis A: General*, *Applied Catalysis B: Environmental*, and *Catalysis Communications* are complementary, an appropriate submission to each journal could be borderline, in which case the advice of another Editor will be sought, possibly redirecting the submission to either *Journal of Molecular Catalysis B: Enzymatic*, *Applied Catalysis A: General*, *Applied Catalysis B: Environmental*, or *Catalysis Communications* (for letters) with the author(s)'s agreement.

Authors are asked to indicate the section of the journal in which they would like their contribution to be included, and to suggest at least three potential referees for their work.

2. Types of contribution

There are two types:

1. *Full-length*, or regular papers describing original research work not previously published.
2. *Reviews* of specialized topics within the scope of the Journal (prospective authors should obtain preliminary approval from an Editor before preparing such an article).

3. Preparation of papers

The language of the Journal is English. For initial submission of manuscripts for consideration, *one original* and *two copies* should be submitted. For the processing of *accepted papers*, electronic versions are required. After *final acceptance*, your disk plus one final and exactly matching printed version should be submitted together. Double density (DD) or high density (HD) diskettes (3.5 or 5.25 inch) are acceptable. It is important that the file saved is in the native format of the wordprocessor program used. Label the disk with the name of the computer and wordprocessing package used, your name, and the name of the file on the disk.

Graphical Abstract: *Please note that in future, the Table of Contents for each issue will contain a Graphical Abstract for each paper. Therefore, authors must supply a Graphical Abstract at the time the paper is submitted. This should consist of a drawing or reaction scheme, which illustrates their work, and a short synopsis of maximum 50–60 words. Both a printed version and an identical **electronic version** must be supplied, and the Graphical Abstract must be on a disk separate to the disk to which the rest of the manuscript has been saved. Please clearly highlight this disk as the Graphical Abstract.*

Please *double-space* all material. Be concise. Please try to adhere to the following format: *Title, author(s) address(es)*. Include mailing or “ZIP” code in countries using this system. Name one corresponding author, to whom proofs should be sent, and please include the relevant telephone, fax and e-mail numbers.

Abstract (100–200 words) and *five relevant keywords*.

Introduction. Statement of the problem. Outline of the paper and important findings.

Theory (if any).

Experimental (if any).

Results and discussion.

Conclusions.

Acknowledgements (if any).

References. Number consecutively inside square brackets [] with one entry per reference number throughout the text and supply a separate reference list.

In the text the authors' names are given without initials. When reference is made to a publication written

by more than two authors, it is preferable to give only the first author's name in the text followed by 'et al.', or the senior author's name followed by 'and co-workers'. In the list of references the names and initials of all authors must be given. In the reference list, periodicals [1], books [2], multi-author books [3] and proceedings [4] should be cited in accordance with the following examples:

- [1] M.S. Jarrell, B.C. Gates, E.D. Nicholson, *J. Am. Chem. Soc.* 100 (1978) 5727.
- [2] L.R. Snyder, *Principles of Adsorption Chromatography*, Marcel Dekker, New York, 1968, p. 201.
- [3] R.D. Marshall, A. Neuberger, in: A. Gottschalk (Ed.), *Glycoproteins*, Vol. 5, Part A, 2nd ed., Elsevier, Amsterdam, 1972, Chap. 3, p. 215.
- [4] G.C. Bond, P.B. Wells, *Proc. 4th Int. Symp. Scientific Bases for the Preparation of Heterogeneous Catalysts*, Louvain-la-Neuve, 1–4 September 1986, paper No. 2.

Abbreviations for the title of journals should follow the system used by Chemicals Abstracts Service Source Index, and supplements.

Articles not yet published should be indicated in the reference list as “in press”, “submitted for publication” or “in preparation”. When “in press” or “submitted for publication” the journal title should be given. Results not yet published should be indicated as “unpublished results” or “personal communication”, preceded by the name of the person supplying the information, and preferably also giving the year.

Tables. Number consecutively and type on a numbered, separate page. Please use Arabic numerals and supply a heading. Add units to the column headings.

Illustrations. Number consecutively with Arabic numerals. Please supply one original suitable for direct reproduction and two additional copies. Number all figures on the front and all photos on the back and add the author's name. Indicate the top of all photographs and figures when there may be doubt. All photographs must be glossy prints. Supply a list of captions on a separate page. Size figures for a two- or three-fold reduction. If structures are given in the text, original drawings should be provided. Colour illustrations can be reproduced at the author's expense.

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should be used. If there is any doubt about a particular symbol or abbreviation, the full expression followed by the abbreviation should be given the first time it appears in the text. Abbreviations used in Tables and Figures should be explained in the legends. In general, the recommendations of the International Union of Pure and Applied Chemistry (IUPAC) should be followed, and SI units should be used or SI equivalents of other units used should be given.

Computer print-outs of data received by recording instruments will not in general be published but an indication may be given in the article where the auxiliary data are available.

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