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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 suggest at least three potential referees for their work.

Types of contribution

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

Frequency

The journal appears Semimonthly.