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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,
- 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, ...).

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.

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 monthly.