

# CHEMICAL ENGINEERING JOURNAL

## An International Journal of Research and Development

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### Aims and Scope

The *Chemical Engineering Journal* provides an international forum for the presentation of original research, interpretative reviews and discussion of new development in chemical engineering. Papers which describe novel theory and its application to practice are welcome, as are those which illustrate the transfer of techniques from other disciplines. Reports of carefully executed experimental work, which is soundly interpreted are also welcome.

Within the Chemical Engineering Journal, the *Environmental Chemical Engineering* section presents papers dealing with topics in environmental chemical and process engineering. Treatment processes, environmental process control and measurement and clean process technology are covered, and papers in which knowledge from other disciplines is integrated with chemical engineering are especially welcome.

Within the Chemical Engineering Journal, the *Chemical Reaction Engineering* section presents papers on a wide range of topics including reaction kinetics, applied catalysis, simulation and optimization of different types of reactors, unsteady-state reactors, multiphase reactors, and fundamental investigations of the processes of heat, mass and momentum transfer that take place along with chemical reaction. Research works addressing critical areas of reactor engineering (e.g. reactor materials, control strategies, reactor safety and environmental issues), and emerging reactor technologies (e.g. membrane reactors, chromatographic reactors, unconventional fluidized beds, electrochemical reactors, micro-reactors, etc.) are particularly welcome.

Within the Chemical Engineering Journal, the *Materials Synthesis and Processing* section presents papers dealing with different aspects of the preparation and characterization of advanced materials. Novel physical and chemical methods of synthesis will be covered, as well as the processes used to obtain materials of different morphologies (particles, films, fibers), and to modify their surface and structural properties, always from a chemical engineering point of view. Manuscripts dealing with micro- and nano-structured materials, and those describing the preparation of composite and hybrid materials with advanced properties are especially welcome.

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