



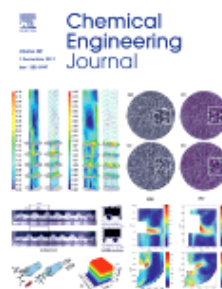
CHEMICAL ENGINEERING JOURNAL

An International Journal of Research and Development

AUTHOR INFORMATION PACK

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DESCRIPTION

The *Chemical Engineering Journal* focuses upon three aspects of **chemical engineering**: chemical reaction engineering, environmental chemical engineering, and materials synthesis and processing.

The *Chemical Engineering Journal* is an international research journal and invites contributions of original and novel fundamental research. The journal aims to provide an international forum for the presentation of original fundamental research, interpretative reviews and discussion of new developments 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. The overall focus is on original and rigorous research results which have generic significance.

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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 process intensification including fundamental investigations of the processes of heat, mass and momentum transfer that take place along with chemical reactions. Innovative research works addressing critical areas of **reactor engineering** (e.g. catalysis, novel reactor designs and materials, reactor safety and environmental issues), and emerging reactor technologies (e.g. membrane reactors, chromatographic reactors, unconventional fluidized beds, electrochemical reactors, micro-reactors, photoreactors, fuel-cells, enzymatic reactors, etc.) are particularly welcome. Submissions based entirely on e.g. synthesis and characterisation of novel catalytic material, numerical simulations with commercial CFD codes without novel experimental validation; theoretical mathematics, combustion in the context of energy conversion, or straightforward bioreactor applications (bacteria or animal cells) are highly discouraged, as they will find better fit in other existent journals.

Within the *Chemical Engineering Journal*, the **Novel Materials for Energy and Advanced Applications** section presents papers dealing with different aspects of the preparation and characterization of advanced materials designed for specific applications. This section represents

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Comments and Proposals: We are interested in receiving comments/feedback on this and our other journals and welcome publication proposals for books, electronic products, new journals and co-operation for existing journals.

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Chemical and Process Engineers, Applied Chemists and Product Engineers, Biochemical Engineers and Biotechnologists.

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Stephen Allen: Adsorption (liquid and gas); Ion exchange; Water treatment (physico/chemical methods); Air/gas treatment, NO_x control, CO₂ capture; Constructed wetlands and reed beds for water treatment; Agricultural wastes (liquid and solid); Solid waste treatment and bioconversion; Sustainable development or processes

Dionysios (Dion) Dionysiou: Advanced oxidation processes/technologies (AOPs/AOTs); Photocatalysis; Environmental catalysis ; Environmental nanotechnology; Membranes processes; Electrooxidation, electrochemical methods ; Particle separation; Separation processes

Tejraj Aminabhavi (Bhavi): Emerging pollutant separation and waste minimization via membrane processes; Membrane bioreactors for environmental pollution abatement; Toxic metal separation and recovery; Acid/flue gas separation; Fuel cell membranes of environmental concern

Chemical Reaction Engineering:

King Yeung: heterogeneous catalysis (including enzyme), hybrid and miniature reactors, green and fine chemistry

Guy B. Marin: kinetics; heterogeneous catalysis; petrochemistry, polymer, reactor design and modeling, reactor scale-up, crude oil refining, natural gas valorization

Materials Synthesis and Processing:

Jesus Santamaria: materials synthesis processes; shaping processes; micro- and nanostructured materials; hybrid materials; surface modifications

Types of papers

The editors make every effort to ensure that manuscripts are fairly and independently reviewed. Submissions 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. Manuscripts of routine studies, however, presenting experimental data but without any significant new interpretation or novelty, or that are very specific and applied in their scope, will be rejected by the editors as "lacking in novel content".

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[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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