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DESCRIPTION

*Reactive & Functional Polymers* provides a forum to disseminate original ideas, concepts and developments in the *science* and *technology* of *polymers* with functional groups, which impart specific chemical reactivity or physical, chemical, structural, biological, and pharmacological functionality. The scope covers organic polymers, acting for instance as reagents, catalysts, templates, ion-exchangers, selective sorbents, chelating or antimicrobial agents, drug carriers, sensors, membranes, and hydrogels. This also includes reactive cross-linkable prepolymers and high-performance thermosetting polymers, natural or degradable polymers, conducting polymers, and porous polymers.

Original research articles must contain thorough molecular and material characterization data on synthesis of the above polymers in combination with their applications. Applications include but are not limited to catalysis, water or effluent treatment, separations and recovery, electronics and information storage, energy conversion, encapsulation, or adhesion.

Full-length papers, perspectives and review articles will be considered. We welcome cutting-edge, original research within our scope. Modelling and simulation work will be considered only when linked to new or previously published experimental results. Lack of originality and novelty, insufficient molecular characterisation, or poor comparison with the current state of the art are reasons for rejection.

AUDIENCE

Chemists, Chemical Engineers, Pharmaceutical Chemists, Agricultural Chemists, Biochemists, Biophysicists, Environmental Engineers.

IMPACT FACTOR

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GUIDE FOR AUTHORS

INTRODUCTION

The Journal publishes papers dealing with new ideas and developments in the science and technology of polymers with functional groups that provide specific chemical reactivity or physico-chemical behaviour.

The scope covers functional polymers, acting as reagents and catalysts, with specific emphasis on solid- or gel-state chemistry; carriers of protecting groups or biofunctional groups; templating agents and functional matrices; ion-exchangers, selective sorbents, chelating agents; supports for enzymes and cells; electro-active and sensing materials. It also includes advanced polymer synthesis techniques, the study of polymer networks and rheology and processing of functional polymers.

The Journal addresses two main audiences: those engaged in the synthesis of new materials and the development of novel techniques, and those concerned with technology and practical applications in the laboratory or plant. The Journal encourages, and serves as a forum for, the dialogue between these two groups.

Types of Papers

Contributions have to present thorough molecular and material characterisation data, and may deal with the synthesis of the above polymers or with their applications in organic synthesis, catalysis, water or effluent treatment, separations, recovery, lithography, microelectronics, information storage, energy conversion, diagnostics, drug delivery, biotechnology coating and encapsulation, and adhesion.

Papers on a broad spectrum of topics are encouraged. Emphasis is on work at the frontiers of science or technology and furthering the interaction between researcher and practical engineer, rather than on details of theory or application. Full-length papers and review articles will be considered. However, authors intending to write a review should contact an Editor first. Uninvited reviews will not be considered. All material submitted must be original, that is it may not have been submitted elsewhere for publication.

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