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.

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INTRODUCTION

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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.

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