



Advances in Chemistry

Special Issue on

## Advanced Functional Polymers for Energy and Environmental Applications

# CALL FOR PAPERS

We invite investigators to contribute original research articles as well as review articles that seek to address advanced functional polymers with special attention towards applications in the fields of energy and environment. Particular interests will be given to papers exploring molecular design and architecture, modeling and simulation, synthesis, and modification and development of advanced functional polymers for specialized energy applications including energy generation, energy storage, energy conversion, energy efficiency, fuel cells, batteries, and supercapacitors, and energy sustainability. Environmental applications include water and wastewater treatment, waste minimization, global warming, zero discharge, toxicity minimization, and green polymers.

Potential topics include, but are not limited to:

- Synthesis and functionalization of advanced polymers
- Kinetics and thermodynamics of functionalization, synthesis, and modification reactions of functional polymers
- Advanced functional polymeric membranes
- Bulk and surface functionalization of polymers
- Molecular design, architecture, and structure of advanced functional polymers
- Modeling, simulation, and theoretical developments of advanced functional polymers
- Functionalized linear, branched and hyperbranched polymers
- Functional groups and their synthesis, preparation, and specifications
- Novel approaches and techniques for functionalization and characterization of advanced functional polymers
- Synthesis and modification of coordination polymers
- Design, synthesis, and tuning of responsive polymers
- Spectacular characteristics and features of advanced functional polymers

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ac/materials.chemistry/afpee/>.

### Lead Guest Editor

Seyed S. Hosseini, Tarbiat Modares University, Tehran, Iran  
*saeid.hosseini@modares.ac.ir*

### Guest Editors

Yan Wang, Huazhong University of Science and Technology, Wuhan, China  
*wangyan@hust.edu.cn*

Alfredo O. S. de Aja, UC, Cantabria, Spain  
*ortizal@unican.es*

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### First Round of Reviews

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