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CALL FOR PAPERS

9th International Dendrimer Symposium
Montreal, Canada, René Roy - Chair

Symposium on
Dendrimers and Hyperbranched Polymers: Applications in Energy and Environment

9th International Dendrimer Symposium, July 12-17, 2015, Montreal, Canada

In the past decade, advances in dendritic macromolecular chemistry has resulted in a tremendous growth and opportunities in several areas of applications such as in polymer science, toxicology, environmental engineering, and gene and drug delivery. The high and versatile hosting capacities, energy efficiency, regenerability, selectivity, biocompatibility, and environmentally benign nature make dendritic polymers a desirable nanomaterial for environmental applications. In addition to environmental remediation, dendritic nanomaterials also show promise in efficient energy storage and improving fuel cell technology. Due to their enormous surface area and a high degree of surface functionalities, these polymers can serve as excellent catalysts as well as energy transfer and storage materials. However, only a handful reports on the applications of dendrimers and other dendritic polymers in energy and environment applications are seen. It is therefore an effort of this session to discuss opportunities for improving and developing effective dendritic polymers for environmental and energy applications and exploit their physico-chemical behavior in systems of interest.

The topics include (but are not limited to):

- Synthesis of electrically and ionically conducting dendritic polymers
- Functional dendrimers and dendritic polymers as separation materials
- Energy related applications of dendrimers (catalysis, supercapacitors, batteries, CO_2 capture and storage etc.)
- Advances in development of membranes consisting dendritic polymers for water treatment
- Scalable synthesis of novel dendritic polymer architectures for energy and environmental applications
- Advances in computational studies and theoretical simulations for the above dendritic polymers and processes

Organizers

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