



Special Issue on
**Reversible Deactivation Radical Polymerization for
the Synthesis of Materials of Controlled Architecture
and Functionality**

CALL FOR PAPERS

Reversible Deactivation Radical Polymerization (RDRP), also called Controlled Radical Polymerizations (CRP), has seen a continuous and impressive development in the last two decades since its inception in the early 1990s. These techniques, which include, but are not limited to, Atom Transfer Radical Polymerization (ATRP), Reversible Addition Fragmentation Chain-Transfer (RAFT) polymerization, and Nitroxide Mediated Polymerization (NMP), have revolutionized the field of free radical polymerizations (FRP), widely used in industry, imparting to this latter method precise control of the polymer architecture, a feature which could not be achieved in the past by conventional FRP. At the same time, RDRP maintains the robustness and variety of monomers associated with FRP.

For this special issue we invite researchers to contribute original research and review articles in which they describe the synthesis of polymers or copolymers with specific structure (blocks, gradient, graft, etc.) or with specific properties derived from the overall structure or from the introduction of functional groups in the macromolecular architecture in a controlled manner. We especially welcome contributions that demonstrate the final properties of the polymeric materials synthesized by RDRP and how these properties are related to the targeted molecular structure.

Potential topics include, but are not limited to:

- Synthesis of block, gradient, or graft copolymers via RTRP with precise control of molecular mass and/or composition
- Synthesis of functionalized polymers or polymer modification using RTRP techniques
- Self-assembly of polymers of precise structure synthesized by RTRP methods
- Application of ATRP, RAFT, NMP, and other RTRP methods to the synthesis of polymeric materials in advanced technologies: biomedicine, sensors, nanotechnology, electronics, dispersants, and so forth
- Smart polymers synthesized by RDRP
- Recent advances in polymer synthesis based on RDRP techniques

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ijps/rdrp/>.

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