



## Current Directions and Innovations in Fluorescence Techniques for Characterization of Polymers and Polymeric Materials

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### Message from the Guest Editor

Dear Colleagues,

The ability of fluorescent dyes to sense their surroundings over a few nanometers enables fluorescence experiments to probe soft matter at the molecular level. This feature makes fluorescence a well-suited technique to characterize the structure and dynamics of macromolecules. Such studies are facilitated by its outstanding sensitivity, enabling the fluorescently labeled macromolecule to be investigated with a minimal number of probes, thus ensuring that its properties are minimally affected by the presence of dye(s), and at infinitely low concentrations of a few mg/L, enabling the study of individual macromolecules. While most fluorescence experiments revolve around fluorescence quenching, fluorescence resonance energy transfer (FRET), or fluorescence anisotropy, new fluorescence-based methodologies are constantly being introduced to expand the type of information describing the properties of polymeric materials. This Special Issue aims to introduce current directions and innovations for the application of fluorescence techniques to the study of polymeric materials.

Prof. Dr. Jean Duhamel

*Guest Editor*





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