



## The Application of Electroactive Polymers

Guest Editor:

### Prof. Jennifer Irvin

Department of Chemistry and  
Biochemistry, Texas State  
University, 601 University Drive,  
San Marcos, TX 78666, USA

Deadline for manuscript  
submissions:

**closed (30 June 2020)**

### Message from the Guest Editor

Electroactive polymers (also known as conducting polymers or inherently/intrinsically conducting polymers) are polymers that change their properties as a function of applied electric fields. Changes in polymer oxidation state result in significant changes in volume, color, reactivity, permeability, conductivity, and solubility. The ability to change these properties at will is what has led to most of the potential applications. Stable oxidation/reduction processes allow the materials to be used for energy storage (batteries and capacitors) and static dissipation; conductivity changes are useful for sensors, electromagnetic shielding, and artificial nerves; changes in volume have practical applications in actuators, drug delivery, and separations; light absorption and emission processes allow the polymers to be useful for photovoltaic and light emitting applications as well as photothermal therapeutics; changes in color have led to applications in electrochromics.

We invite the scientific community to submit their contributions, in the form of original research articles and review articles, in all areas of applications of electroactive polymers.





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### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

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Materials Editorial Office  
MDPI, St. Alban-Anlage 66  
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