# **Special Issue**

# Sustainable Electrochemical Materials and Processes

## Message from the Guest Editors

Climate change is causing an increase in floods, drought, wildfires, and hurricanes. Over the past 50 years, climate- and weather-related disasters have surged five-fold. By 2050, climate change could cut the world economy by \$23 trillion. Our climate challenge is largely an energy challenge, as energy accounts for over 66% of global greenhouse gas emissions. Industrial processes, such as the Haber-Bosch process (for producing nitrogen fertilizers), alone account for 1.4% of global CO2 emissions and consume 1% of the world's total energy production. Chemistry and materials science are key to building a sustainable circular economy by utilizing renewable energy, designing zerowaste reactions, maximizing energy efficiencies and lifecycles, and developing functional materials. This Special Issue will include original research in sustainable electrochemistry. Research articles in this Special Issue will not only demonstrate advancements in developing electrochemical materials and processes, but will show how they contribute to solving energy and climate challenges.

#### **Guest Editors**

Dr. Haihui Joy Jiang

Dr. Jeffrey G. Bell

Dr. Thomas C. Underwood

# Deadline for manuscript submissions

closed (1 March 2024)



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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

## Editor-in-Chief

#### Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G OC5, Canada

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