



Novel Materials and Catalytic Processes for Zero Carbon Policy

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Deadline for manuscript
submissions:
closed (10 July 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue serves as a platform for the exchange and dissemination of cutting-edge ideas, research findings, and promising developments in the dynamic field of Zero Carbon Policy. The primary focus is on original research, encompassing both theoretical and experimental approaches in addressing various facets of the Zero Carbon Policy landscape. This includes, but is not limited to, solid oxide fuel and electrolysis cells; hydrogen production; CO₂ reduction, production, storage, and transmission; environmental impact assessment; and the application of novel materials and technologies.

We invite contributions of high-quality research that delve into the latest advances in critical areas such as material development, preparation methods, and electrochemical techniques dedicated to unraveling the intricacies of electrode and electrolyte reaction mechanisms. Submissions exploring sources of energy losses are also encouraged. Furthermore, we welcome manuscripts covering a wide spectrum, including single-cell, stack, and hybrid systems, as well as those delving into modeling, numerical analysis, and detailed descriptions of degradation mechanisms.





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Message from the Editor-in-Chief

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