



## Modeling, Degradation Study, Failures Diagnosis and Faulty Operating Management of Electrolyzers

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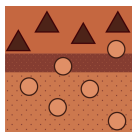
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### Message from the Guest Editors

One of the most attractive technologies to generate hydrogen is water electrolysis which relies on a proton exchange membrane (PEM) based electrolyzer (EL) to split water. However, a couple of factors lead to membrane degradation and the presence of several types of failures makes the reliable operation of ELs even more challenging. Accordingly, modeling, degradation study, failures diagnosis, and faulty operation management must be studied.

This Special Issue welcomes original high-quality papers and review articles focused on hydrogen technologies with emphasis on the modeling, degradation, failure diagnosis, and faulty operation management. Prospective authors may submit contributions dealing with (but are not limited to): Membrane electrode assembly modeling of electrolyzers; Impacts of dynamic operating conditions on the materials and components degradation of electrolyzers; Influence of the operating conditions (temperature, pressure, current density) and power electronics on the degradation of electrolyzers; Failure mechanisms in the electrolyzer; Development of failure diagnosis methods; Development of faulty operation management to enhance the performance of the system.





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## Message from the Editor-in-Chief

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