



Experiment, Modeling Research and Actual System Applications on the Electrochemical Flow Cells

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Systems based on the electrochemical reaction have gained intense attention due to their excellent benefits such as high efficiency, low cost, and environmental-friendly operation. Especially, the electrochemical flow cells, which electrochemically treat the reactants provided from external sources to continuously generate electricity or chemicals, are enjoying a renaissance in the various forms of application.

However, the actual application of the promising flow cells has been restricted due to challenging issues such as durability, scale-up, and less reliable performance, requiring advents of technologies in the flow cells.

In this Special Issue, we aim to provide recent advances and breakthroughs in the electrochemical flow cells both fundamental, including experiment and modeling works, and actual system applications, with special focus on the systems based on electrochemical reaction, including fuel cells, redox flow batteries, electrolysis, and wastewater treatment systems etc.





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