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PEMFC Materials: Fabrication, Characterization and Applications

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Message from the Guest Editors

Proton exchange membrane fuel cells with high power density have been in high demand in recent years. The electrochemical performance of PEMFCs is intensively dependent on the catalyst and proton exchange membrane. Meanwhile, the heat and mass transfer in the porous electrode plays a key role in improving the power density. A gas diffusion layer with balanced water management capacity, bipolar plate with high electrical conductivity, mechanical property, and high anticorrosion performance are essential to the PEMFCs.

Potential topics include, but are not limited to:

- Proton exchange membranes;
- Catalyst layer;
- Gas diffusion layer;
- Bipolar plate;
- Hydrogen storage materials.

Dr. Xueliang Wang
Dr. Ben Chen
Guest Editors

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Message from the Editor-in-Chief

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