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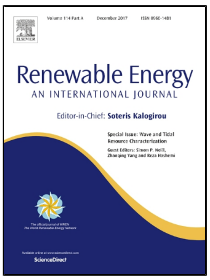

Effect of Cell Size in Metal Foam Inserted to the Air Channel of Polymer Electrolyte Membrane Fuel Cell for High Performance

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Highlights

- Performance of PEMFC is improved with metal foam as a cathode flow field.
- Performance characteristics of fuel cell are varied with pore size of metal foam.
- Effect of metal foam pore size is proved by several methods.
- Novel mixed metal foam flow field is suggested to make PEMFC performance improved.
- Maximum power of fuel cell is improved about 60.1% with novel metal foam flow field.