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Enhanced performance of polybenzimidazole-based high temperature proton exchange membrane fuel cell with gas diffusion electrodes prepared by automatic catalyst spraying under irradiation technique



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Highlights

- ▶ Superior CL structure was achieved in the GDE prepared by a novel ACSUI method.
- ▶ The single cell with the GDEs showed high performance with air as oxidant.
- ▶ The electrode parameters were optimized to determine the optimum performance.
- ▶ The MEA with the GDEs showed good durability for high temperature fuel cell operating.

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