

Research on flaky and vertical gas diffusion electrode

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Abstract: Flaky and vertical gas diffusion electrode was proposed to improve the efficiency of fuel cells. The discharge experiments were done to compare the discharge capability of the electrode with different PTFE ingredient and different basal body uniformity. The results showed the electrode with 10% PTFE and high uniformity was favorable to discharge. This single electrode could discharge about 100 h at 150 mA (no noble metal catalyst). The electrode made of the punched screens was superior to that made of the foam Ni.

Key words: fuel cell; flaky and vertical gas diffusion electrode; three-phase interface

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