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Intermittent contact of fluidized anode particles containing exoelectrogenic biofilms for continuous power generation in microbial fuel cells

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Highlights

- Exoelectrogenic biofilms were grown on granular activated carbon (GAC) particles.
- Particles were fluidized in the anode chamber for electricity generation in microbial fuel cells.
- GAC particles demonstrated biocapacitor-like behavior.
- High current was sustained by intermittent contact of charged particles with the anode.
- Higher power was obtained by fluidized particles compared to a packed bed control.