Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Three Dimensional Porous Graphene/Nickel Anode to Simultaneuously Boost the Bio- and Electro-catalysis for High Performance Microbial Fuel Cells

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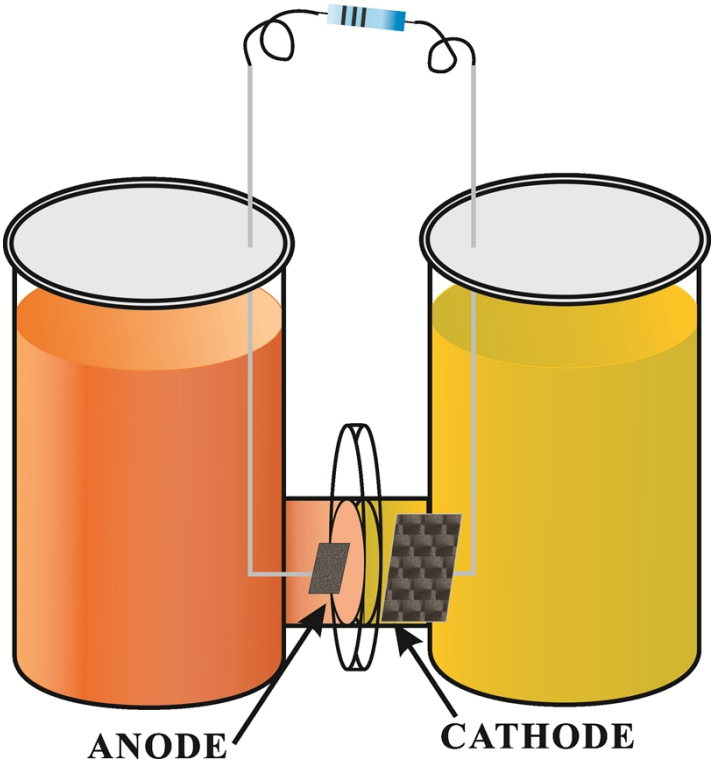

Fig S1. A schematic view of MFC operations.

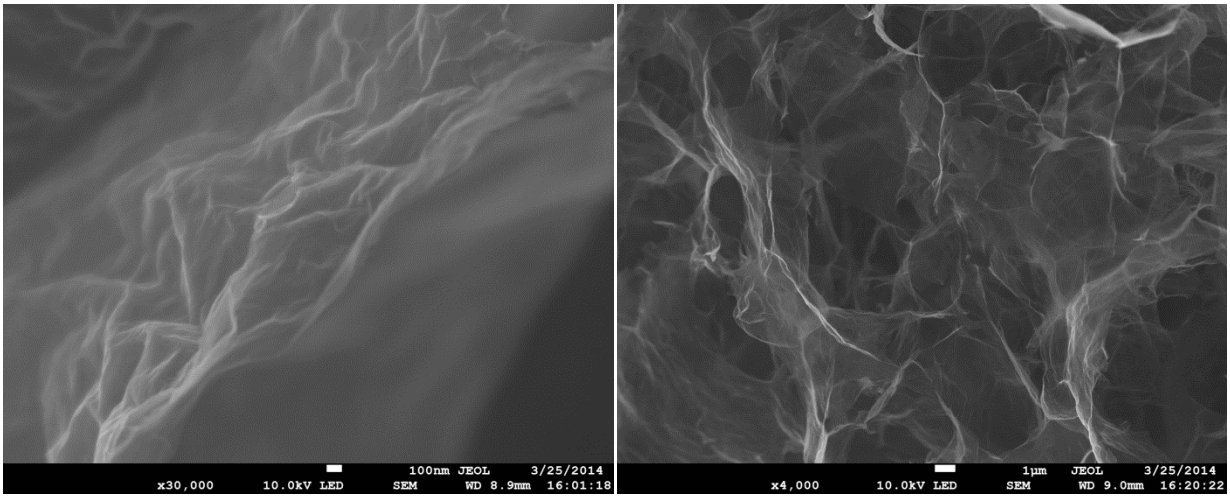

Fig S2. SEM micrographs of G/NiIII

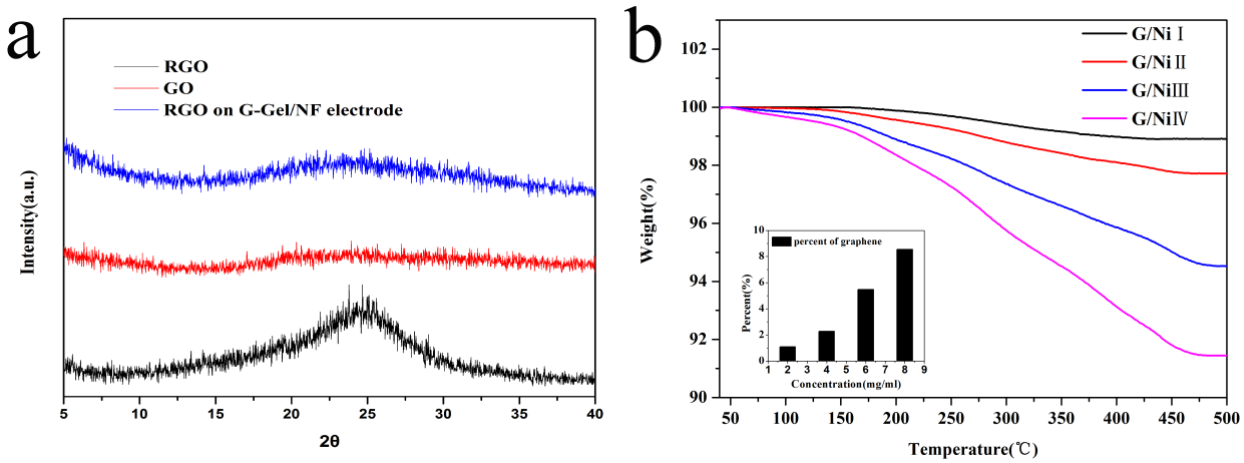

Fig S3. XRD (a) result of GO, RGO and RGO on G/Ni electrode; TGA (b) information of G/Ni at different concentration.

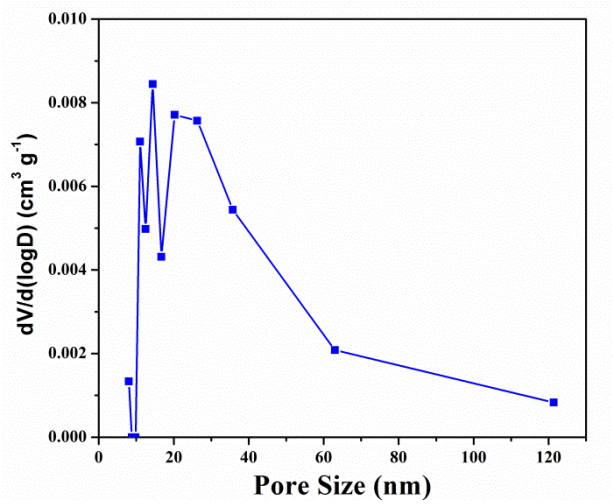

Fig S4. Pore size distribution of graphene aerogel in G/NiIII composite

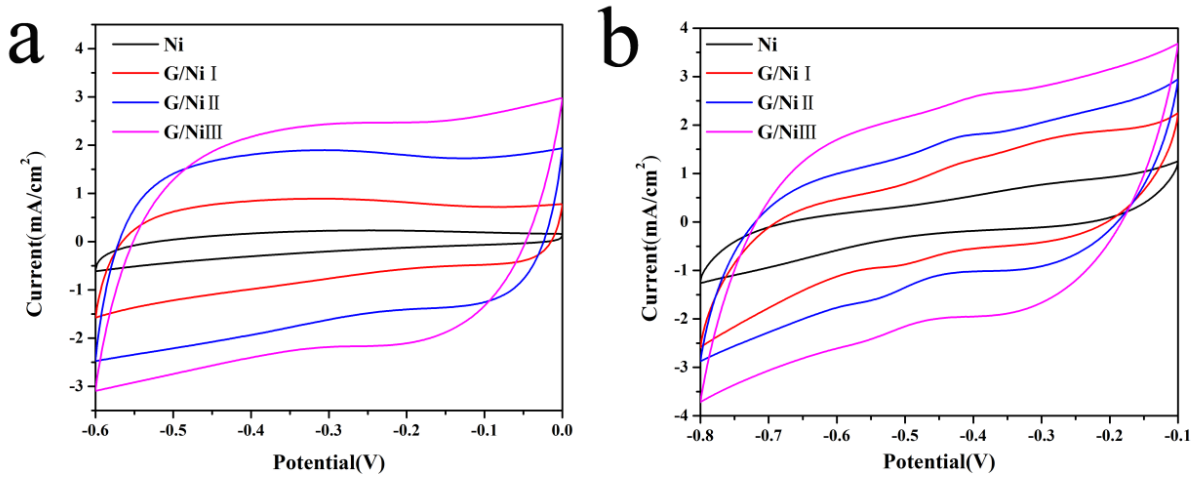

Fig S5. Cyclic voltammograms of G/Ni electrode conducted in 0.1 M phosphate buffered (a) and in anaerobical *S. putrefaciens* cell suspensions in phosphate buffer (b)

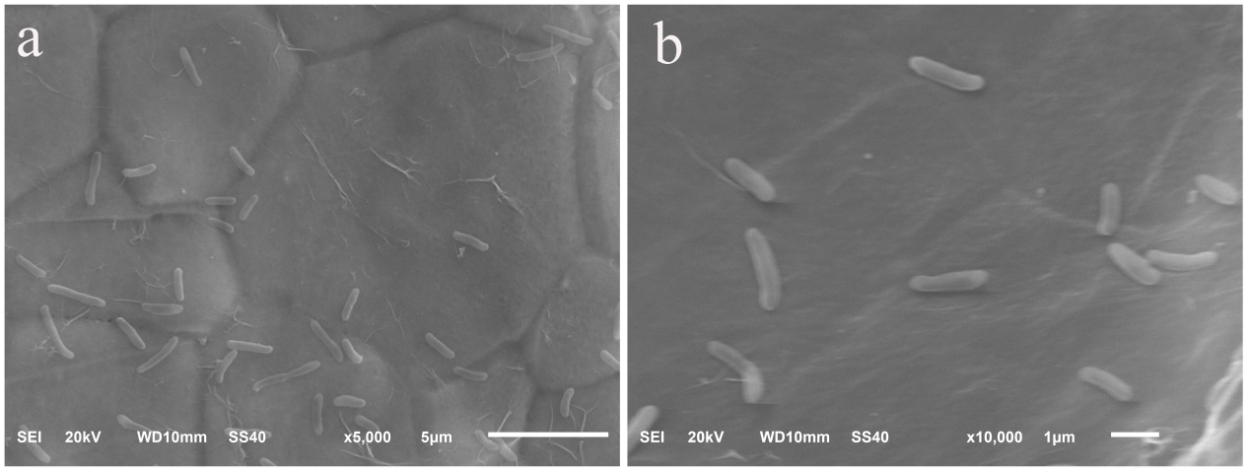

Fig S6. SEM micrographs of *S. putrefaciens* cells adhered on the nickel foam anode electrode surface (a: low magnification, b: high magnification)