**Appendix A. Supplementary data**

**Electricity generation and pollutants removal of landfill leachate by osmotic microbial fuel cells with different forward osmosis membranes**

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**Fig. S1** Schematic of the experimental design for the OsMFC



**Fig. S2** Rarefaction curves of different membranes



**Fig. S3** Genus level relationship between the sample and the species（A2：CTA-NW-OsMFC、A4：CTA-ES-OsMFC、 A6：TFC-ES-OsMFC）



**Fig. S4** Rarefaction curves of different OsMFCs sites



**Fig. S5** Genus level relationship between the sample and the species（A6: membrane; B2: carbon felt; B4: anolyte; B6: catholyte）