

Supplementary Information

Digestate of Fecal Sludge Enhances the Tetracycline Removal in Soil Microbial Fuel Cells

Cui Han, Jing Wang, Kun Feng, Defeng Xing*

State Key Lab of Urban Water Resource and Environment, School of Environment,

Harbin Institute of Technology, Harbin 150090, China

***Corresponding author.** School of Environment, P.O. Box 2614, 73 Huanghe Road,

Nangang District, Harbin, Heilongjiang Province 150090, China

E-mail address: dxing@hit.edu.cn; Tel: +0086-451-86283123

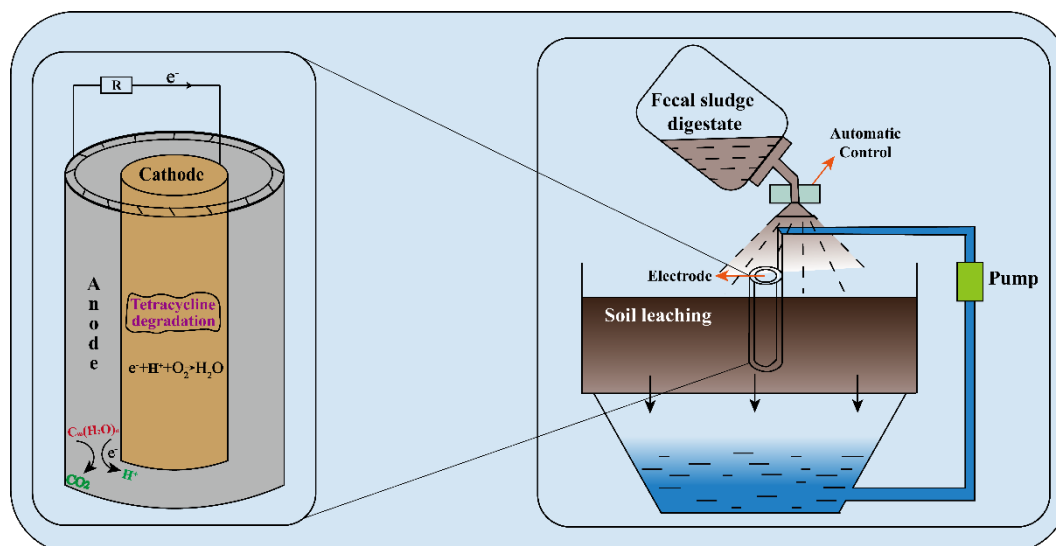


Figure S1. Sketch map of the soil leaching process in this experiment.

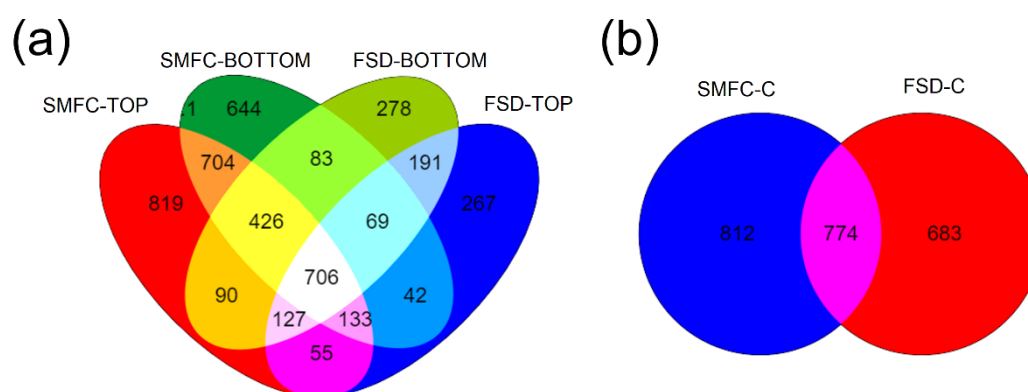


Figure S2. Venn diagram map based on the shared and unique OTUs of anode (a) and cathode (b) of the SMFC-FSD and SMFC.

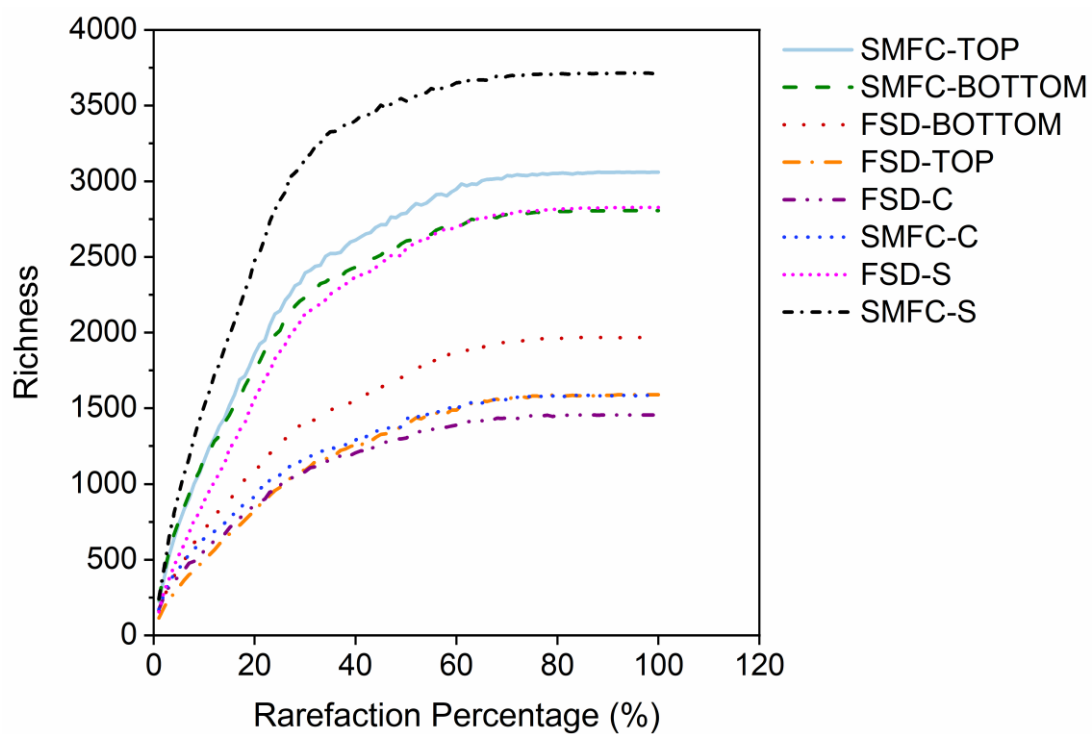


Figure S3. Rarefaction curves of all the samples in SMFC-FSD and SMFC reactors.

Table S1. Basic information of the simulated tetracycline-contaminated soil

Parameter	Value
pH	7.7
Moisture content	83.15%
Electrical conductivity	1325 mS/m
Simulated tetracycline concentration	0.13 mg/kg
C/N ratio	11.79
Cellulose content	0.13 g/g

Table S2. Alpha diversity of microbial communities of anode, cathode, and soil samples based on 16S rRNA gene sequencing.

Sample	Observed species	Shannon	Simpson	Chao1
SMFC-TOP	3060	5.71	0.02	3060.32
SMFC- BOTTOM	2807	6.29	0.0054	2807.24
SMFC-C	1586	4.94	0.023	1586.62
SMFC-S	3714	6.76	0.0038	3714.12
FSD-TOP	1590	3.38	0.23	1590.66
FSD-BOTTOM	1970	4.98	0.049	1970.82
FSD-C	1457	4.84	0.024	1586.63
FSD-S	2827	5.26	0.044	2827.31