Supplementary Materials: Contrasting Effects of Sediment Microbial Fuel Cells (SMFCs) on the Degradation of Macrophyte Litter in Sediments from Different Areas of a Shallow Eutrophic Lake

Na Song, Helong Jiang and Zaisheng Yan

Reaction	Treatments	Sampling sites	Temperature	Contents of wet	Contents of
columns			(°C)	sediments	plant litter
(RC)				(g)	(g)
RC1	Control: no SMFC	TH1	25	3000	48
RC2	Control: no SMFC	TH1	25	3000	48
RC3	SMFC	TH1	25	3000	48
RC4	SMFC	TH1	25	3000	48
RC5	Control: no SMFC	TH2	25	3000	48
RC6	Control: no SMFC	TH2	25	3000	48
RC7	SMFC	TH2	25	3000	48
RC8	SMFC	TH2	25	3000	48

Table S1. Characteristic of the experimental set-up.

Table S2. Characteristics of the basic physicochemical properties of sediments and water in the experimental sites.

Sampling	Sediments			Lake water			
sites	TOC	TP	TN	pН	Conductivity	DO	
	(mg kg-1)	(mg kg-1)	(mg kg-1)		(mS cm ⁻¹)	(mg L-1)	
TH1	15.7±1.6	763.61±1.3	1250.28±4.2	8.0±0.02	0.50±0.03	11.79±0.02	
TH2	9.7±0.2	625.50±2.2	1191.50±5.3	7.8±0.01	0.60±0.02	12.47±0.01	

Type of substrate	Type of MFC	Maximum	Power	External	Reference
		cell voltage	density	resistor	
		(mV)	(mW/m^2)	(Ω)	
sediment	two-chamber	20	25	100	[31]
sediment	two-chamber	600	76-84	1000	[32]
+Chitin/cellulose					



Figure.S1. Location and photos of sampling sites in Lake Taihu, China.



Figure.S2. Schematic diagram (A) and photo (B) of the experiments.



Figure.S3. Current (A) and power (B) generation along with time from SMFCs inoculated with TH1 and TH2 sedimentary samples. Current and power were represented as mean voltages and standard deviations (n = 2).