



Figure S1 The photos of SMFC devices: the plexiglass cylinders (a & b); the GAC cathode (c)

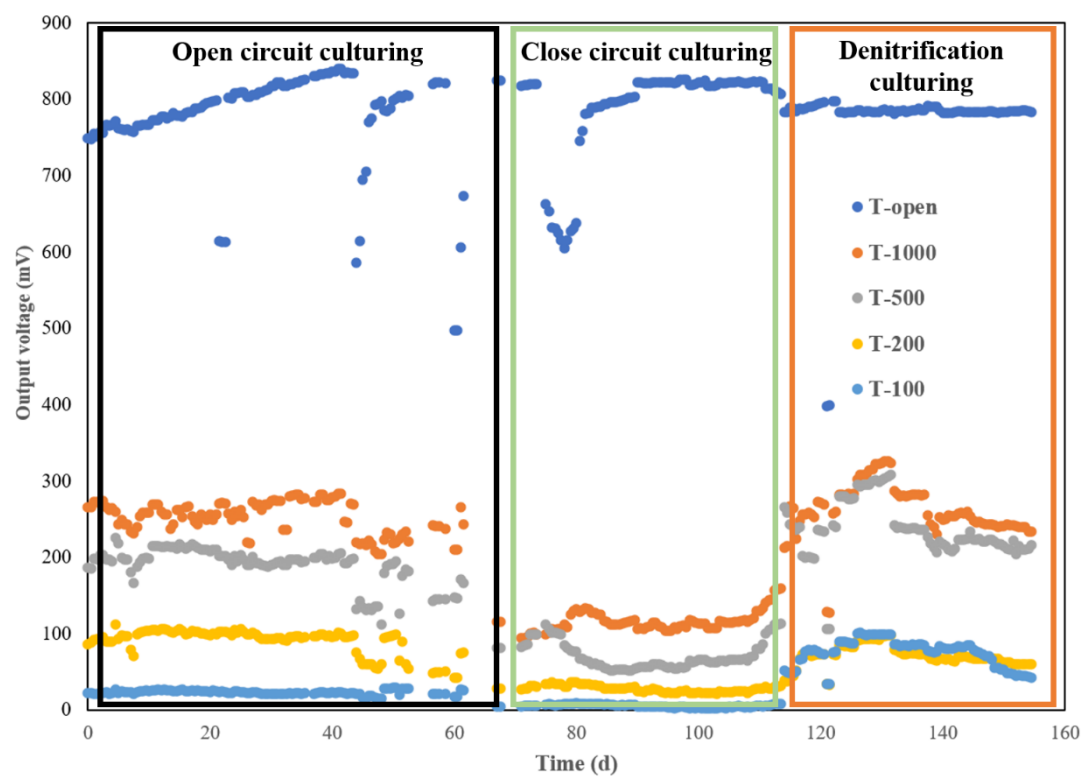


Figure S2. The output voltages of different treatments in culturing period.

Table S1. Material cost analysis of each SMFC device

	Description	Quantity	Unit	Price (USD)	Sum (USD)
anode	carbon felt	0.01	m ²	30	0.30
	stainless-steel mesh	2	piece	1	2
cathode	GAC	0.19	kg	0.68	0.13
	stainless-steel cylinders	1	-	2	2
External circuit	Titanium wire	1.5	m	0.5	0.75
	resistor	1	-	0.003	0.003
Total					5.183