

Supplementary Material to

Effects of Hydraulic Retention Time on removal of Cr (VI) and p-chlorophenol and electricity generation in *L. hexandra*-planted constructed wetland–microbial fuel cell

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Summary

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➤ Figures and Table

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➤ Methods:

1. **Text S1.** • Formulas to calculate currents, current densities, and power densities.
2. **Text S2.** • Methods to obtain power density and polarization curve.

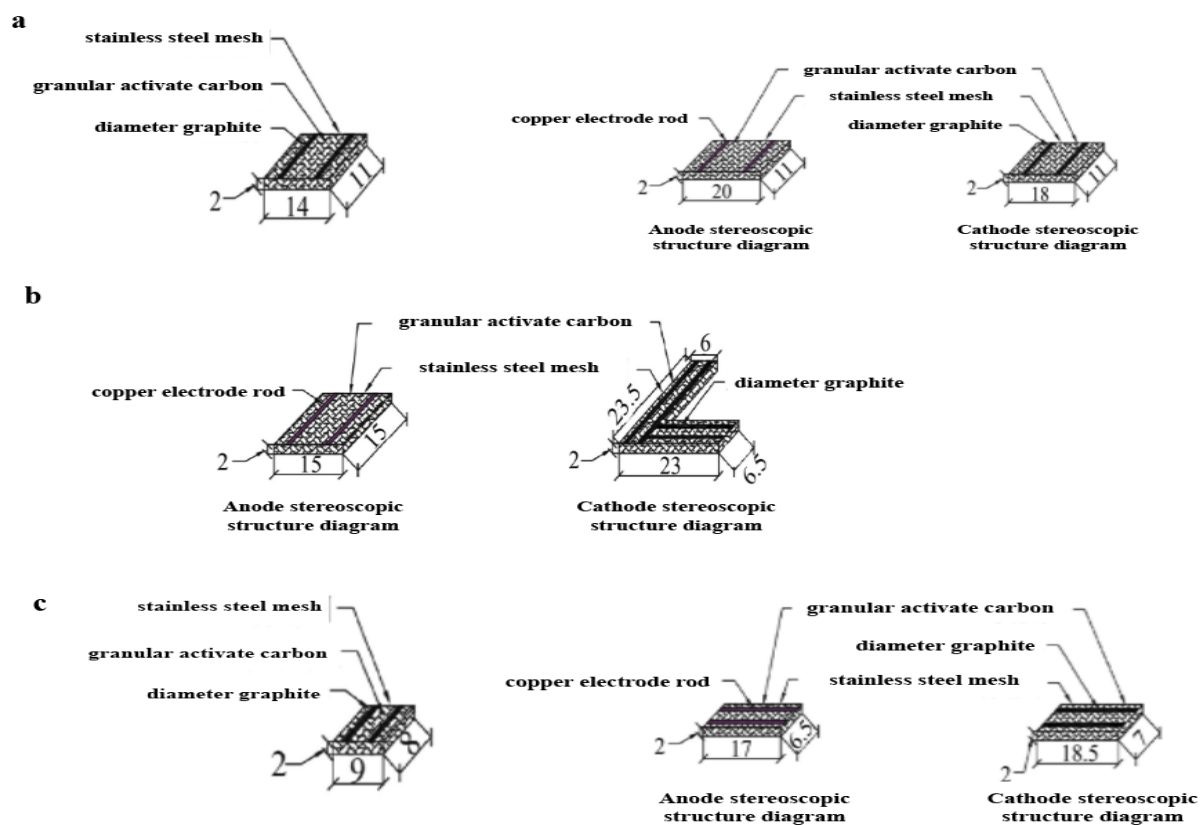


Figure S1. Cathode and anode stereoscopic structure diagram of different CW-MFC system configurations. Note: The units in the figure are cm. (a) Stacked configuration; (b) multistage configuration; (c) modular configuration.

Text S1

- Formulas to calculate currents, current densities, and power densities [1,2].

$$I = \frac{U}{R}$$

$$P_V = \frac{U^2}{RV}$$

$$J_V = \frac{I}{V} = \frac{U}{RV}$$

I--- Current, A.

U--- Voltage, V.

R--- External resistances, Ω .

P_V --- Power densities, $\text{mW} \cdot \text{m}^{-3}$.

V--- Anode volume, m^3 .

J_V --- Current densities, $\text{mA} \cdot \text{m}^{-3}$.

Text S2

- **Methods to obtained power density and polarization curve.**

The power density curve can be obtained by plotting the current density as the horizontal coordinate and the power density as the vertical coordinate, the polarization curve can be obtained by plotting the current density as the horizontal coordinate and the voltage as the vertical coordinate, and the highest point of the power density curve is the highest power density of each system[\[1,2\]](#).

References

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