Supporting Information

Effect of MWCNTs-modified graphite felts on hexavalent chromium removal in biocathode microbial fuel cells

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Calculations

1. Total coulombs transferred ($C_t$): 
   \[ C_t = \int_0^t I dt \]
   where, \( I \) is the current and \( t \) is the total time of current flow.

2. Total coulombs required ($C_r$) for the reduction of Cr(VI) to Cr(III):
   \[ C_r = \frac{nFVc}{M} \]
   where, \( n \) is the number of electrons involved in Cr(VI) reduction (3 moles/mol), \( F \) is the Faraday constant (96,485.3 Coulombs/mol), \( V \) is the volume of the catholyte (L), \( c \) is the concentration of Cr(VI) (g/L) and \( M \) is the molecular weight of chromium (52 g/mol).
**Fig. S1.** The comparison of the total coulombs transferred ($C_t$) and coulombs required ($C_r$) for the reduction of Cr(VI) in the different MFCs at the end of 10 h operation time.
**Fig. S2.** The Cr(VI) removal of the three electrodes with and without biomass after 24h-adsorption experiment.
Fig. S3. Cyclic voltammogram of the abiotic graphite felt in a MFC (vs. Ag/AgCl, scan rate of 5 mV/s over the range –600 mV to +600 mV).