

Table S2 Equivalent circuit fitting parameters of FeOOH, *B. megaterium*, and FeOOH/*B. megaterium* under light and dark conditions

Sample	R_s ($\Omega \cdot \text{cm}^{-2}$)	Q_2 ($\mu\text{F} \cdot \text{cm}^{-2}$)	n	R_{ct} ($\Omega \cdot \text{cm}^{-2}$)	$Q_1 \cdot 10^{-5}$ ($\Omega^{-1} \text{s}^n \text{cm}^{-2}$)	n
sunlight						
FeOOH/ <i>B. megaterium</i>	22.02	8.67	1	931.6	7.29	0.83
<i>B. megaterium</i>	17.26	—		9786	14.36	0.76
FeOOH	26.15	—		18040	7.95	0.82
dark						
FeOOH/ <i>B. megaterium</i>	25.29	17.88	1	968.2	7.20	0.81
<i>B. megaterium</i>	16.98	—		10400	14.88	0.75
FeOOH	25.64	—		28440	9.13	0.84