Supplementary Information

Bioelectrochemically Enhanced Autotrophic Feammox for Ammonium Removal via Fe(II)/Fe(III) Cycle

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Figure

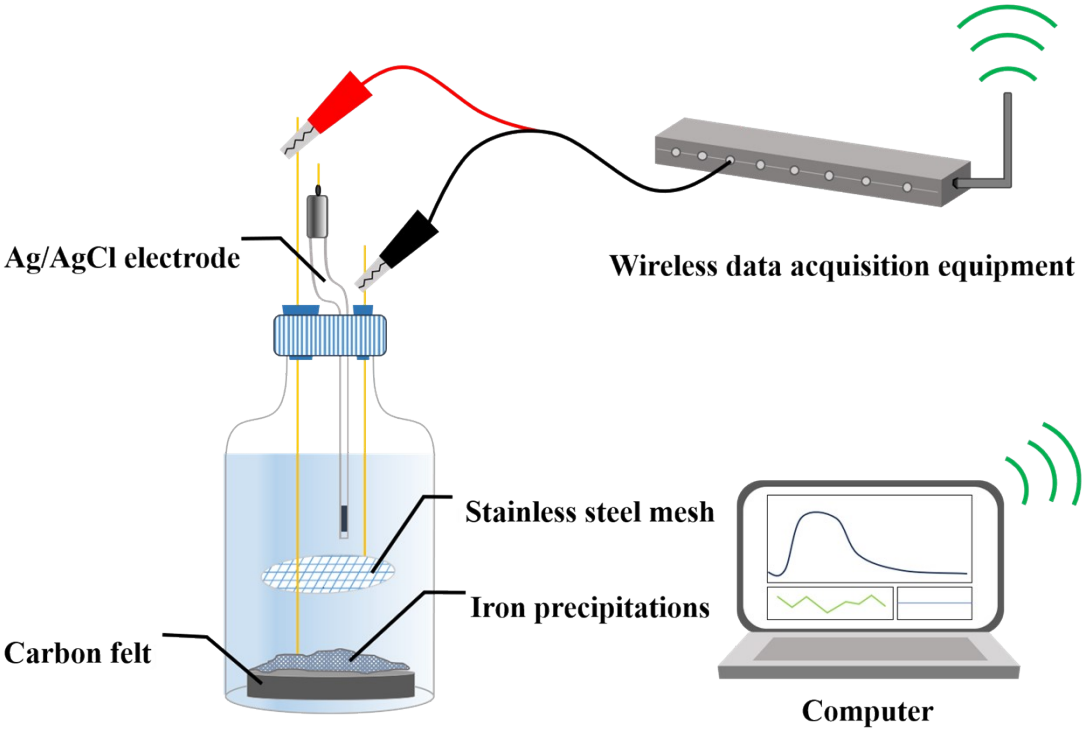

Figure S1. The schematic diagram of the experimental setup.

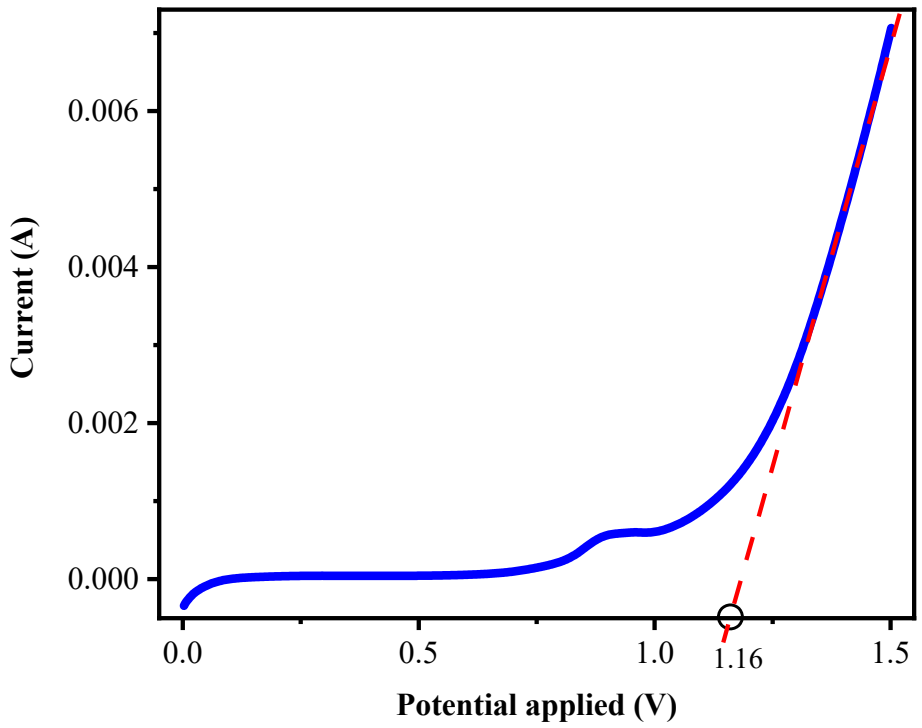

Figure S2. The linear sweep voltammetry curve of carbon felt.

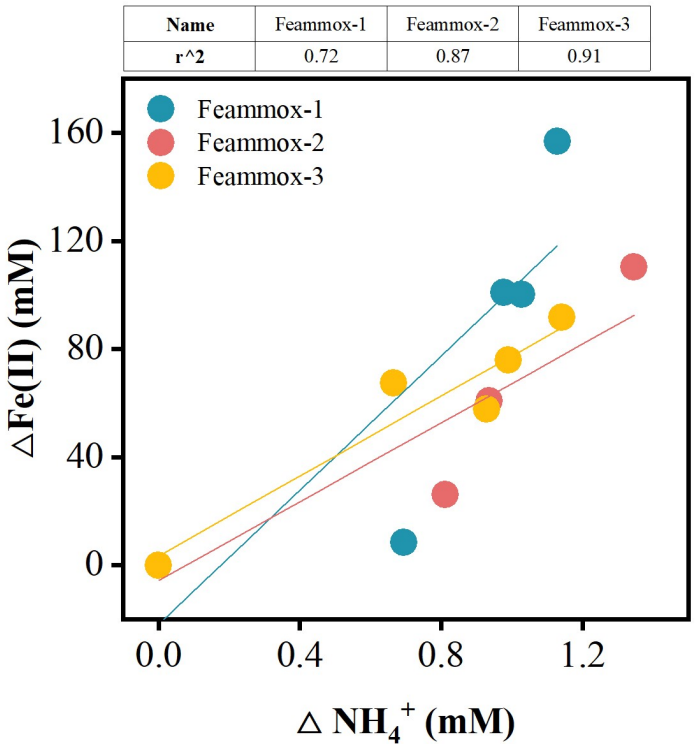

Figure S3. The linear relationship between the increment of Fe (II) and the amount of ammonium oxidation in the Feammox inoculant.

Table

Table S1.

The quantity of Coulomb generated by ammonium oxidation to various products under different voltages.

	0.2 V	**0.6 V**	**1.0 V**
$\mathbf{NO_2^-}$ ($6e^-$)	74	139	93
$\mathbf{NO_3^-}$ ($8e^-$)	6.2	6.2	6.2
$\mathbf{N_2}$ ($3e^-$)	28	12	21

Table S2.

Alpha diversity index of the bacteria in the different MECs.

Samples	ACE	Chao1	Simpson	Shannon	Coverage
ck-bio	847.1727	847	0.9622	6.9072	1
0.2	752.759	755	0.982	7.164	0.9999
0.6	801.703	802.2	0.948	6.2629	0.9999
1.0	885.273	888.2	0.9826	7.3335	0.9999