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Supplementary Information for "Kinetics and gene diversity of denitrifying biocathode in biological electrochemical systems"

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Table S1 Primers for 16S rRNA and denitrification functional genes high-throughput sequencing

Primer	Sequences (5'- 3')	Reference
nirK-F	GGMATGGTKCCSTGGCA	1
nirK-R	GCCTCGATCAGRTTRTGG	
nirS-F	CCTAYTGGCCGCCRCART	2
nirS-R	TTCGGRTGSGTCTTGAYGAA	
norB-F	TGCATCGGTTGCCACACCTGCAGCATC	3
norB-R	CCAGTTGAAGTAGGTCTTCTTGTACGGG	
nosZ-F	CGCRACGGCAASAAGGTSMSSGT	4
nosZ-R	CAKRTGCAKSGCRTGGCAGAA	
16S rRNA-F	AGAGTTTGATYMTGGCTCAG	5
16S rRNA-R	TGCTGCCTCCCGTAGGAGT	

Figure S1 Relative abundances (%) of dominant 16S rRNA gene in phylum level from biocathodic biofilms with different electron acceptors. Effective sequences were sorted in Mothur utility (http://www.mothur.org/) and classified by using RDP's Classifier.

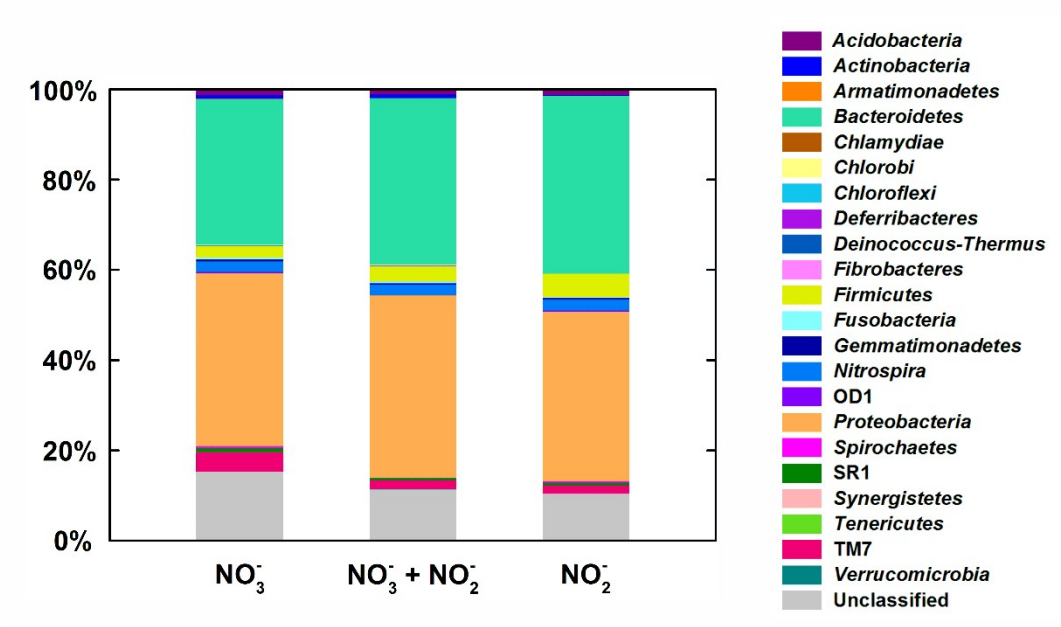
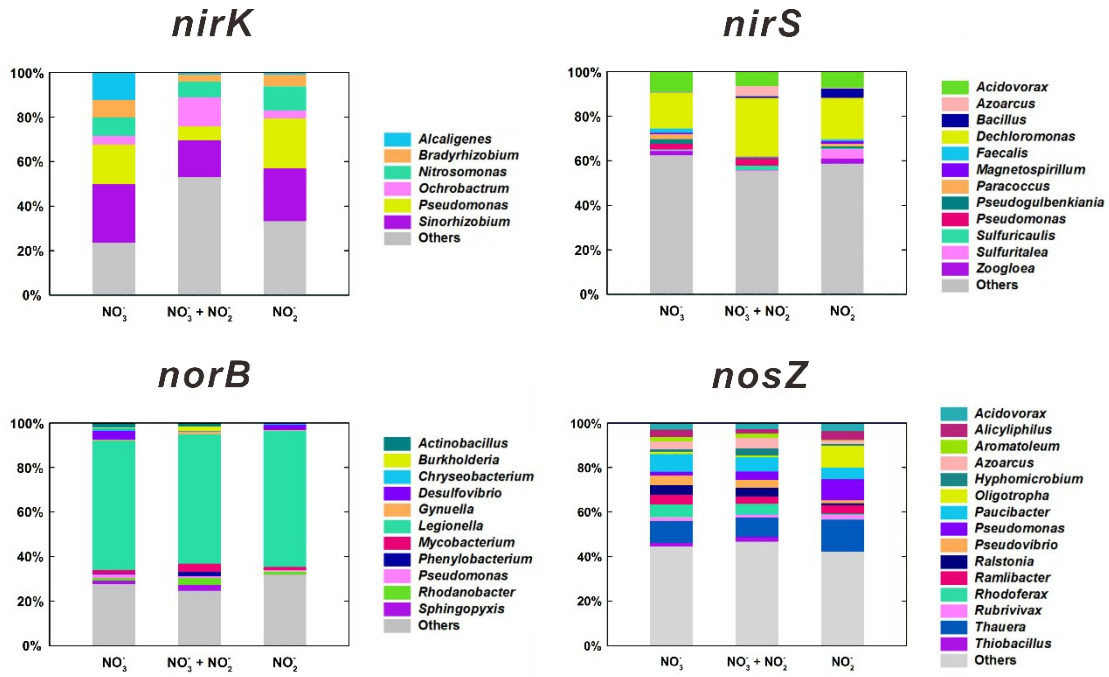


Figure S2 Relative abundance of four denitrifying functional genes *nirK, nirS, norB* and *nosZ* with different electron acceptors. Taxa shown in at least one sample with abundance over 1%.



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