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List of Figures

Figures	Title	Page
2.1	Schematic of a basic MFC design	6
2.2	Electron transfer mechanism at the anode electrode surface, A- Direct electron transfer, B- Electron transfer via conductive nanowires and C- Electron transfer through endogenous mediators	9
2.3	The ideal current-voltage polarization curve showing the three different losses	10
2.4	Cyclic voltammogram showing the mechanism of electron transfer in MFC anode	12
2.5	Representation of EIS data in the Nyquist plot	13
2.6	Tafel plot showing the relationship between current density and overpotential	14
2.7	MFC configurations A- Single chamber MFC, B- Stacking MFC	15
2.8	MFC configurations A- Upflow MFC, B- Tubular Single chambered MFC	16
2.9	Figure depicting the various applications of MFC technology	18
2.10	Nitrate removal using MFC	22
2.11	Different genes and enzymes involved in the denitrification pathway	26
2.12	Different strategy of U (VI) bioremediation by bacteria	27
3.1	Schematic of the MFC system used in the study	32
3.2	Profile of nitrate concentration with time under different test conditions at an initial NO3$^-$-N concentration of 345 mg/l	36
3.3	Variations in the concentration of NO_3^--N (a, b), at MFCs initiated with different initial cathode nitrate concentrations during the course of MFC discharge at 100 Ω	37
3.4	Variations in the concentration of NO_2^--N (a) and NH_4^+-N (b) at MFCs initiated with different initial cathode nitrate concentrations during the course of MFC discharge at 100 Ω	37
3.5	Effect of cathode pH on the nitrate removal in test and control setups. The control setups involve abiotic cathode (without cow manure and soil)	38
3.6	Variation in open circuit potential (a), current at 100 Ω (b), and nitrate removal at 100 Ω (arrows indicate nitrate addition at a final NO_3^--N concentration of 0.345 g/l)	39
3.7	Polarization curve for the setup at cathode COD/NO_3^--N ratio 7.31	41
4.1	The schematic of MFC system used in the study	46
4.2	Voltage profile with time obtained for AD MFC and HD MFC	48
4.3	Polarization curve obtained for AD MFC and HD MFC	48
4.4	Profile of NO_3^--N (mg/l) concentration with time in AD MFC and HD MFC in the last batch cycle.	49
4.5	Cyclic Voltammetry profile of AD MFC and HD MFC (Arrows indicate the position of oxidative and reductive peaks)	50
4.6	Nyquist plot obtained for AD MFC and MD MFC (No Warburg region was obtained)	51
4.7	Chronoamperometric analysis of AD MFC and HD MFC at constant applied voltage	51
4.8	Rarefraction plots for AD MFC and HD MFC	52
4.9	The relative abundance of microbial community in Autotrophic and Heterotrophic denitrification at (A) Phylum level, (B) class level, (C) Family Level	52
4.10	A heat map showing the taxonomy assignment for each OTU	55
4.11	Amplicons obtained for *narG* (a), *nirS* (b) and *nosZ* (c) genes	56
5.1	Schematic of MFC system used in the study	60
5.2	The mechanism of anodic and cathodic reactions in MFCs	60
5.3	Polarization curve obtained for Test 1 and Test 2 MFC	61
5.4	Profile of NO_3^--N (mg/l) concentration with time in Test 1 and control MFC	62
5.5	Phosphatase enzyme activity with time in cells amended with 10mM G3P in Test 1 and Test 2 MFC	63
5.6	Profile of U (VI) concentration with time in Test 1 and Test 2 MFC	63
5.7	XRD analysis of precipitate generated during uranium biomineralization process	64
5.8	SEM analysis of graphite electrode Biofilm	64
5.9	EDX analysis of precipitate formed after Uranium Biomineralization	65
5.10	Cyclic voltammetry profile of Test 1, Test 2, and Control MFC.	65
5.11	Rarefraction plot obtained for Test 1 MFC	66
5.12	Bacterial community analysis of Test 1 MFC at (A) Phylum level (B) Class Level (C) Family Level	67

5.13 A heat map showing the taxonomy assignment for each OTU 68
5.14 MFC reactors in the active lab (Process Development Division) 69
A.1 MFC system used in the study (a- Assembled View, b- Half cell and c- exploded view) 74
A.2 The MFC reactor with data acquisition unit used in the study 75

List of Tables

Table	*Title*	*Page*
2.1	Description of the different components of the MFC system	*8*
2.2	Summary of prominent denitrification studies in MFC	*23*
3.1	Characterization of cow manure, soil, and fruit waste used in the study	*33*
3.2	Summary of the results obtained during preliminary investigation of various inoculum sources for effective denitrification in MFC	*34*
3.3	Summary of the results obtained for experiments involving change in initial cow manure concentration at cathode (the anode is fixed in all the experiments)	*35*
3.4	Summary of the results obtained for experiments involving change in initial nitrate concentration at cathode (the anode is fixed in all the experiments)	*35*
3.5	Effect of COD/NO_3^--N ratio on columbic efficiency and total COD removal	*40*
4.1	Comparison between the performance of AD and HD MFC	*48*
4.2	Copy numbers of the 16SrDNA, *narG*, *nirS*, and *nosZ* genes in autotrophic and heterotrophic denitrification conditions	*57*
5.1	Characterization of low-level waste collected from BARC	*69*
5.2	Summary of the MFC performance	*69*
A.1	List of all the chemicals and reagents used in the study	*73*
A.2	List of primers used in the study	*79*

List of Symbols

Symbol	*Description*
A	Ampere
Bq	Becquerel
C	Celsius
E	Cell Potential
F	Faraday Constant
I	Current
M	Molar
P	Power
R	Gas Constant/Resistance
T	Temperature
V	Volt
W	Watt
Cm	Centimeter
d	Day
g	Gram
h	Hour
kg	Kilogram
l	Liter
m	Milli
m^2	Square meter
m^3	Cubic meter
ppm	Parts Per Million
pH	Hydrogen Ion Concentration
α	Alpha
β	Beta
γ	Gamma
ε	Epsilon
η	Eta
θ	Theta
μ	Micro
Ω	Ohm
ω	Omega
°	Degree
%	Percentage

List of Abbreviations

Abbreviation	*Full form*
AD	Autotrophic Denitrification
AEM	Anion Exchange Membrane
BES	Bioelectrochemical System
BTB	Bromothymol Blue
CA	Chronoamperometry
CEM	Cation Exchange Membrane
CFU	Colony Forming Unit
COD	Chemical Oxygen Demand
CV	Cyclic Voltammetry
DMP	2,6-Dimethyl Phenol
DO	Dissolved Oxygen
EDX	Energy Dispersive X- Ray Spectroscopy
EET	Extracellular Electron Transfer
EIS	Electrochemical Impedance Spectroscopy
EPA	Environmental Protection Agency
FISH	Fluorescence In Situ Hybridization
G-2-P	Glycerol 2 Phosphate
G-3-P	Glycerol 3 Phosphate
GAC	Granular Activated Carbon
HD	Heterotrophic Denitrification
HUP	Hydrogen Uranyl Phosphate
LCV	Liquid Cathodic Volume
LLW	Low Level Waste
MFC	Microbial Fuel Cell
NCC	Net Cathodic Compartment
NCV	Net Cathodic Volume
NGS	Next Generation Sequencing
NSAP	Non Specific Acid Phosphatase
OCP	Open Circuit Potential
OCV	Open Circuit Voltage
OTU	Operational Taxonomic Unit
PEM	Proton Exchange Membrane
*p*NPP	para- Nitro Phenyl Phosphate
QIIME	Quantitative Insight Into Microbial Ecology
RT-PCR	Real Time Polymerase Chain Reaction
SEM	Scanning Electron Microscope
SHE	Standard Hydrogen Electrode
SND	Simultaneous Nitrification and Denitrification
SRA	Sequence Read Archive
TBP	Tri Butyl Phosphate
TCV	Total Cathodic Volume
WHO	World health organization
XRD	X-ray Diffraction