

LIST OF SYMBOLS, ABBREVIATIONS AND NOMENCLATURE

Ag	-	Silver
AgNO ₃	-	Silver nitrate
Al ₂ O ₃	-	Aluminium oxide
Å	-	Armstrong
Ag/TiO ₂ /bent	-	Silver/titanium oxide/bentonite
Ag/CuO/bent	-	Silver/copper oxide/bentonite
Ag/ZnO/bent	-	Silver/copper oxide/bentonite
Ag/Mn ₃ O ₄ /bent	-	Silver/copper oxide/bentonite
<i>B. subtilis</i>	-	<i>Bacillus subtilis</i>
CuSO ₄ .5H ₂ O	-	Copper oxide pentahydrate
CuO	-	Copper oxide
<i>B. subtilis</i>	-	<i>Bacillus subtilis</i>
C ₈ H ₁₆ F ₆ N ₂ O ₄ S ₂	-	N-trimethyl-N-propylammonium bis(trifluoromethanesulfonyl)imide
CFU	-	Colony forming unit
Ca ²⁺	-	Calcium ions
CaO	-	Calcium oxide
C	-	Carbon
CEC	-	Cationic exchange capacity
CO ₂	-	Carbon-dioxide
C. albicans	-	Candida albicans
CDs	-	Cyclodextrins

cm	-	Centimeter
cm ³ /g	-	Centimeter cubic/gram
°C	-	Degree Celsius
DI	-	Deionized water
DMSO	-	Dimethyl sulfoxide
eV	-	Electron volt
E _g	-	Energy gap
EDTA	-	Ethylene diamine tetraacetic acid
<i>E. coli</i>	-	<i>Escherichia coli</i>
EDS	-	Energy Dispersive X-ray Spectroscopy
F(R)	-	Diffuse reflectance
FE-SEM	-	Field Emission Scanning Electron Microscope
FT-IR	-	Fourier Transform Infrared Spectroscopy
FBS	-	Fetal bovine serum
Fe ₂ O ₃	-	Ferric oxide
(G ⁺)	-	Gram-positive
(G ⁻)	-	Gram-negative
HR-TEM	-	High Resolution Transmission Electron Microscope
H ⁺	-	Hydrogen ion
H	-	Hour
HEK 293	-	Human embryonic kidney cell line
IL	-	Ionic liquid
JCPDS	-	Joint Committee on Powder Diffraction Standards

K^+	-	Potassium ion
K_2O	-	Potassium oxide
<i>K. pneumonia</i>	-	<i>Klebsiella pneumoniae</i>
k	-	Kelvin
KV	-	Kilovolt
K	-	Absorption
LB	-	Luria- Bertani
mL	-	Milli Liter
mm	-	Millimeter
MHA	-	Mueller Hinton Agar
MTT	-	Methyl Thiazolyl Tetrazolium
Mn_3O_4/MnO	-	Manganese oxide
μm	-	Micrometer
MMT	-	Montmorillonite
$Mn(CH_3COO)_2$	-	Manganese acetate
$C_{14}H_{10}MnO_4$	-	Manganese benzoate
$Mn(NO_3)_2$	-	Manganese nitrate
m	-	Meter
min	-	Minute
M	-	Molar
$m^2 g^{-1}$	-	Meter square per gram
Na-bent	-	Sodium bentonite
NaOH	-	Sodium hydroxide

NaBH ₄	-	Sodium borohydride
NCCS	-	National Centre for Cell Science
nm	-	Nanometer
Na ⁺	-	Sodium ion
N ₂	-	Nitrogen
Na ₂ O	-	Sodium oxide
O _h	-	Octahedral
PVP	-	Polyvinylpyrrolidone
p ^H	-	Potential of Hydrogen
PDB	-	Potato dextrose agar
%	-	Percentage
rpm	-	Rotation per minute
RTILs	-	Room temperature ionic liquids
SAED	-	Selected Area Electron Diffraction
S	-	Scattering coefficient
SiO ₂	-	Silicon oxide
<i>S. aureus</i>	-	<i>Staphylococcus aureus</i>
TiO ₂	-	Titanium oxide
Ti[(OC ₃ H ₇) ₄]	-	Titanium isopropoxide
TEM	-	Transmission electron microscopy
T _d	-	Tetrahedral
XRD	-	X- Ray Diffractometer
λ	-	Wavelength

ZnO - Zinc oxide
Zn(NO₃)₂ - Zinc nitrate