

List of Symbols

AuNP	Gold Nanoparticles
AgNP	Silver Nanoparticles
AgNO ₃	Silver Nitrate
BNP	Bimetallic Nanoparticle
C	Centigrade
CDB	Czapek Dox Broth
CuO	Copper oxide
CV	Cyclic Voltammetry
DNA	Deoxyribonucleic Acid
EDX	Energy Dispersive X-Ray
FET	Field Effect Transistor
FTIR	Fourier Transfer Infrared Spectroscopy
g/L	gram per Litre
HAuCl ₄	Chloroauric acid
IC	Integrated Circuit
KBr	Potassium Bromide
L	Liter
M	Molarity
NCIM	National Collection of Industrial Microorganism
MEM	Mechano-Electrical Machine
MRSA	Multi Drug Resistant Strain
NCL	National Chemical Laboratory
ml	milli litre
NOMFET	Nanoparticle aided organic transistor

PDA	Potato Dextrose Agar
RPM	Revolution Per Minute
SEM	Scanning Electron Microscope
SPR	surface Plasmon resonance
TEM	Transmission Electron Microscope
t	Time
TiO	Titanium oxide
UFP	ultrafine particle
UV	Ultra Violet
Vis.	Visible
V	Volume of the solution
XRD	X-Ray Diffraction
ZnO	Zinc oxide