

LIST OF ABBREVIATIONS

MNPs	- Metal nanoparticles
Ag NPs	- Silver nanoparticles
SCS	- Solution Combustion synthesis
CNPSA	-N-(1-(2-chlorophenyl)-2-(4-Nitrophenyl)ethyl)-4-methylbenzene sulfoamide)
CFSA	-N-(1-(4-fluorophenyl)-2-(4-Nitrophenyl)ethyl)-4-methylbenzene sulfoamide
BMANQ	- 2-bromo-3-methylamino-1,4-naphthoquinone
DBrN	- 1,4-dibromo naphthalene
DMNMAD	- 1,4-dimethoxy-2-nitro-3-methylanthranence-9,10-dione
DMBMAD	- 1,4-dimethoxy-3-bromomethyl-9,10-dione
XRD	- X-Ray diffractometer
UV-vis	- Ultraviolet Visible
FE-SEM	- Field Emission Scanning Electron Microscopy
HR-TEM	- Higher Resolution Transmission Electron Microscopy
RS	- Raman Spectrometer
EM	- Electromagnetic Enhancement
CM	- Chemical Enhancement
nRs	- normal Raman spectra
SERS	- Surface Enhanced Raman Spectra
DFT	- Density Functional Theory
HOMO	- Higher Occupied Molecular Orbital
LUMO	- Lower Unoccupied Molecular Orbital