

Abbreviations

ACN	Acetonitrile
B3LYP	Becke, 3-parameter, Lee-Yang-Parr
bipy	2,2'-bipyridine
BSA	Bovine Serum Albumin
CGC	Critical gelator concentration
CLSM	Confocal Laser Scanning Microscopy
ct-DNA	Calf Thymus DNA
DCM	dichloromethane
DFT	Density-functional theory
DMF	dimethylformamide
DMSO	dimethylsulfoxide
DNA	Deoxyribonucleic Acid
DSC	Differential Scanning Calorimetry
<i>E.coli</i>	<i>Escherichia coli</i>
EB / EtBr	Ethidium Bromide
ESI-MS	Electrospray Ionization Mass Spectrometry
ESR	Electron Spin/Paramagnetic Resonance
FT-IR	Fourier transform infrared spectroscopy
HOMO	Highest Occupied Molecular Orbital
HAS	Human Serum Albumin
HSP	Hansen solubility parameter
IC ₅₀	concentration of the complex that caused 50% inhibition of NBT reduction
H ₆ ins	Myo-inositol
H ₃ ins	Myo-inositol with 3 - OH deprotonated
K _b	intrinsic binding constant
K _{SV}	Stern-Volmer quenching constant
K _a	association binding constant
LANL2DZ	Los Alamos National Laboratory 2 Double-Zeta
LUMO	Lowest Unoccupied Molecular Orbital
MGC	Minumum gelator concentration
m/z	mass to charge ratio
MIC	Minimum inhibitory concentration
NADH	Nicotinamide Adenine Dinucleotide- Reduced
NBT	Nitroblue Tetrazolium

neo	Neocuproine
phen	1,10-phenanthroline
PMS	Phenazine Methosulfate
POM	Polarizing Optical Microscopy
SEM	Scanning Electron Microscope
SOD	Superoxide Dismutase
TBE	Tris.HCl-Boric acid-EDTA buffer
TFA	Trifluoroacetic Acid
TGA	Thermogravimetric Analysis
THF	Tetrahydrofuran
TEM	Transmission Electron Microscope
TMS	Tetramethyl Silane
TRIS-HCl	Tris (Hydroxymethyl)-Aminomethane-HCl
Trp	Tryptophan
Tyr	Tyrosine
UV-Vis	Ultra Violet – Visible Region
WHO	World Health Organization
w/w %	Weight by weight percentage
XRD	X-ray diffraction
1D	one dimensional
2D	two dimensional
3D	three dimensional