Abbreviations

ACN	acetonitrile
AIDS	Acquired Immuno Deficiency Syndrome
AFM	Atomic Force Microscopy
ALS	Anthryl-Linker-Steroid
API	Active Pharmaceutical Ingredient
B3LYP	Becke, 3-parameter, Lee-Yang-Parr
BSA	Bovine Serum Albumin
CASH	Catalytically Active Supramolecular Hydrogel
CD	Circular Dichroism
CLSM	Confocal Laser Scanning Microscopy
CR	controlled release
CSD	Cambridge Structural Database
CSP	Crystal Structure Prediction
ct-DNA	Calf Thymus DNA
d	doublet
DBS	Dibenzylidene Sorbitol
DCM	dichloromethane
DFT	Density-Functional Theory
DLS	Dynamic Light Scattering
DMF	dimethylformamide
DMSO	dimethylsulfoxide
DNA	Deoxyribonucleic Acid
DSC	Differential Scanning Calorimetry
E.coli	*Escherichia coli*
EB / EtBr	Ethidium Bromide
ESI-MS	Electrospray Ionization Mass Spectrometry
ESR/EPR	Electron Spin/Paramagnetic Resonance
FDA	Food and Drug Administration
FI	Fluorescence intensity
FT-IR	Fourier Transform InfraRed spectroscopy
GRAS	Generally Regarded as Safe
HIV	Human Immunodeficiency Virus
HOMO	Highest Occupied Molecular Orbital
HSA	12-Hydroxystearic Acid

HSA	Human Serum Albumin
HSP	Hansen solubility parameter
IC_{50}	concentration of the complex that caused 50% inhibition of NBT reduction
K_b	intrinsic binding constant
K_{SV}	Stern-Volmer quenching constant
K_a	association binding constant
LANL2DZ	Los Alamos National Laboratory 2 Double-Zeta
LED	Light Emitting Diode
LMOG	Low Molecular weight Organo-Gelator
LOD	Limit of detection
LUMO	Lowest Unoccupied Molecular Orbital
m	multiplet
M	molar
μM	micromolar
mM	millimolar
m/z	mass to charge ratio
MALDI-TOF-MS	Matrix Assisted Laser Desorption/Ionisation-Time Of Flight Mass Spectrometry
MBS	2,4-Monobenzylidene Sorbitol
MEM	Memantine
mgc	Minimum gelator concentration
NADH	Nicotinamide Adenine Dinucleotide- Reduced
NBT	Nitroblue Tetrazolium
NMDA	N-Methyl-D-Aspartate
NMDAR	N-Methyl-D-Aspartate Receptor
NMR	Nuclear Magnetic Resonance
NSAID	Non-Steroidal Anti-Inflammatory Drug
ORTEP	Oak Ridge Thermal Ellipsoid Plot
PAD	Primary Ammonium Monocarboxylate
PAM	Primary Ammonium Monocarboxylate
PMS	Phenazine Methosulphate
POM	Polarizing Optical Microscope
PSOG	Phase Selective Organo-Gelation
PXRD	Powder X-Ray Diffraction
QSAR	Quantitative Structure Activity Relationship
ROS	Reactive Oxygen Species

s	singlet
SAFiN	Self-Assembled Fibrilar Network
SANS	Small Angle Neutron Scattering
SAXS	Small Angle X-ray Scattering
SEM	Scanning Electron Microscope
SMFS	Single Molecule Force Spectroscopy
SOD	Superoxide Dismutase
SPM	Scanning Probe Microscope
SRM	Super Resolution Microscope
STED	Stimulated Emission Depletion Microscope
STORM	Stochastic Reconstruction Microscope
t	triplet
TBAA	*tert*-butylacetic acid
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	Ultraviolet - Visible Region
VT-NMR	Variable Temperature Nuclear Magnetic Resonance
WAXS	Wide Angle X-Ray Scattering
WHO	World Health Organization
XRD	X-ray diffraction
1D	one dimensional
2D	two dimensional
3D	three dimensional