

LIST OF SYMBOLS AND ABBREVIATIONS

acac	-	acetylacetone
bpy	-	2,2'-bipyridine
en	-	ethylenediamine
2-pic	-	2-picolyamine
8-hq	-	8-hydroxyquinoline
py	-	pyridine
prz	-	pyrazine-2-carboxylic acid
biim	-	biimidazole
dppe	-	1,2-bis(diphenylphosphino)ethane
NaN ₃	-	sodium azide
cpy	-	9-(pyridin-2-yl)-9H-carbazole
p-OMepq	-	6-chloro-2-(4-methoxyphenyl)-3-phenylquinoline
CT-DNA	-	calf thymus deoxyribonucleic acid
BSA	-	bovine serum albumin
Trp	-	tryptophans
DMF	-	dimethylformamide
DMSO	-	dimethyl sulfoxide
CHCl ₃	-	chloroform
CH ₂ Cl ₂ (DCM)	-	dichloromethane
Tris-HCl	-	tris(hydroxymethyl)aminomethane
HCl	-	hydrochloric acid
H ₂ SO ₄	-	sulphuric acid
EB	-	ethidium bromide

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ESI MS	-	electrospray ionization mass spectrometry
$^1\text{H-NMR}$	-	proton nuclear magnetic resonance
$^{13}\text{C NMR}$	-	carbon-13 NMR
m/z	-	mass-to-charge ratio
UV-Vis	-	ultraviolet-visible
CD	-	circular dichroic
I	-	intensity of emission
IR	-	infrared
ϵ	-	molar absorption coefficient
τ	-	emission lifetime
K_b	-	intrinsic DNA binding constant
k_q	-	quenching rate constant
K_{sv}	-	stern-volmer constant
LMCT	-	ligand to metal charge transfer
MLCT	-	metal to ligand charge transfer
HOMO	-	highest occupied molecular orbital
LUMO	-	lowest unoccupied molecular orbital
a.u.	-	arbitrary units
λ	-	wavelength
λ_{em}	-	emission wavelength
λ_{exc}	-	excitation wavelength
λ_{max}	-	wavelength of maximum emission or absorption
MCF-7	-	michigan cancer foundation-7