

LIST OF ABBREVIATIONS

acac	acetylacetonate anion (anion of 2,4-pentanedione)
ACN	acetonitrile
atc	3-acetylcamphor
biqu	2,2'-biquinoline
bisc	back intersystem crossing
bpy	2,2'-bipyridine
4-Br-py	4-bromopyridine
Bupy	butylpyridine
byim	2-(2-pyridyl)imidazole
bzn	benzonitrile
chin	chinolate anion
4-Cl-PhS	4-chlorobenzenethiolate anion
4-Cl-py	4-chloropyridine
4-COO-4'-CH ₃ -bpy	2,2'-bipyridine-4-methyl-4'-carboxylic acid anion
4,4'-(COO) ₂ bpy	2,2'-bipyridine-4,4'-dicarboxylate dianion
cp	cyclopentadienyl anion
CTTS	charge transfer from complex to solvent
cyclam	1,4,8,11-tetraazacyclotetradecane
das	1,2-phenylbis(dimethylarsine)
dien	diethylenetriamine
DIPS	3,5-diisopropylsalicylate anion
DMA	<i>N,N'</i> -dimethylamine
dmapy	4-(dimethylamino)pyridine
DMF	dimethylformamide
dmg	dimethylglyoxime
dmphen	5,6-dimethyl-1,10-phenanthroline
DMSO	dimethyl sulfoxide
diphos	1,2-bis(diphenylphosphine)ethane
dpm	2,2,6,6-tetramethyl-3,5-heptanedionate anion
dpp	1,3-bis(diphenylphosphine)propane
dpphen	4,7-diphenyl-1,10-phenanthroline

dppm	bis(diphenylphosphine)methane
DTP	diisopropyldithiophosphate anion
EDTA	ethylenediaminetetraacetate anion
EDTeP	ethylenediaminetetrapropionate
EDTrA	ethylenediaminetriacetate
EDTrP	ethylenediaminetripropionate
en	1,2-diaminoethane
ES	excited state
ESA	electronic absorption spectrum of electronically excited particle
Et ₄ dien	1,1',7,7'-tetraethyldiethylenetriamine
E_{th}	threshold energy
fl	fluorescence
GS	ground state
HAOX	2-hydroxyacetophenonoximate anion
Hb	haemoglobin
HB(pz) ₃	hydrogentris(1-pyrazolyl)
hfacac	hexafluoroacetylacetone
HGI	glucose
hist	histidine
HOMO	highest occupied molecular orbital
htc	bis(2-hydroxyethyl)dithiocarbamate anion
ic	internal conversion
IPCT	charge transfer between ion-pair components
i-Pr	isopropyl
IR	infrared
isc	intersystem crossing
IVCT	charge transfer between two central atoms through the ligand (intervalence charge transfer)
LF	ligand field
LLCT	charge transfer from the ligand through the central atom to the ligand
LMCT	charge transfer from the ligand to the central atom
LUMO	lowest unoccupied molecular orbital
Mb	myoglobin
4,4-Me ₂ bpy	4,4-dimethylbipyridine
Me ₂ (CN) ₂ hx	2,5-dimethyl-2,5-isocyanohehexane
4,7-Me ₂ phen	4,7-dimethylphenanthroline
MLCT	charge transfer from the central atom to the ligand
MO	molecular orbital
NBD	norbornadiene
NBS	<i>N</i> -(<i>n</i> -butyl)salicylaldiminate anion

ND	nitrosodurene
NH ₂ R	triethyltetraamine
oac	4,7,13,16,21-pentaoxo-1,10-diazabicyclo[8.8.5]tricosane
OEP	octaethylporphyrin
ox	oxalate dianion
PBN	phenyl- <i>N-tert</i> -butylnitrone
Pc	phthalocyanine
PEt ₃	triethylphosphine
ph	phosphorescence
phen	1,10-phenanthroline
phenmethoxa	3-(1,10-phenanthrol-2-yl)-5-methyl-1,2,4-oxadiazole
Phpy	2-phenylpyridine
2-pic	2-methylpyridine
pip	piperidine
PMe ₃	trimethylphosphine
PMe ₂ Ph	dimethylphenylphosphine
pn	propane
PPh ₃	triphenylphosphine
PPr ₃ ⁿ	tris(<i>n</i> -propyl)phosphine
PQ	paraquat(<i>N,N'</i> -dimethyl-4,4'-bipyridine dication)
ptz	1-propyltetrazole
py	pyridine
pz	pyrazine
Q	quencher
¹ Q	quinone
Q'	quadricyclene
R ₂ dtc	dialkyldithiocarbamate anion
salen	<i>N,N'</i> -ethylenebis(salicylideniminat) dianion
SCE	saturated calomel electrode
S ₂ CNEt ₂	diethyldithiocarbamate anion
SDT	stilbenedithiolate anion
sep	1,3,6,8,10,13,16,19-octaazabicyclo[6.6.6]eicosane
stpy	4-styrylpyridine
tdt	3,4-toluenedithiolate dianion
TEOA	triethanolamine
tet	1,4,8,11-tetraazaundecane
tfacac	1,1,1-trifluoro-2,4-pentadiene anion
THF	tetrahydrofuran
Thpy	2-(2-thionyl)pyridine
TMpyP	5,10,15,20-tetrakis(<i>N</i> -methyl-4-pyridyl)porphyrin cation
TPP	tetraphenylporphyrin
urea	urea
UV	ultraviolet