

## List of Abbreviations

<b>EtOH</b>	-	Ethanol
<b>MeOH</b>	-	Methanol
<b>Calc.</b>	-	Calculated
<b>dd (in NMR write-up)</b>	-	Doublet of doublet
<b>DFT</b>	-	Density Functional Theory
<b>B3LYP</b>		Becke, 3-parameter, Lee-Yang-Parr
<b>LANL2DZ</b>		Los Alamos National Laboratory 2 Double-Zeta
<b>DMF</b>	-	N, N-Dimethylformamide
<b>DMSO</b>	-	Dimethylsulphoxide
<b>Ele. Anal.</b>	-	Elemental Analysis
<b>EPR</b>	-	Electron Paramagnetic Resonance
<b>ESI-Mass</b>	-	Electrospray Ionization Mass Spectrometry
<b>NMR</b>	-	Nuclear Magnetic Resonance Spectroscopy
<b>FTIR</b>	-	Fourier-Transform Infrared Spectroscopy
<b>m (in NMR write up)</b>	-	Multiplets
<b>C.V.</b>	-	Cyclic Voltammetry
<b>DPV</b>	-	Differential Pulse Voltammetry
<b>M.P.</b>	-	Melting Point
<b>HOMO</b>	-	Highest Occupied Molecular Orbital
<b>LUMO</b>	-	Lowest Unoccupied Molecular Orbital
<b>B.M.</b>	-	Bohr magneton
<b>s (in NMR write up)</b>	-	Singlet
<b>t (in NMR write up)</b>	-	Triplet
<b>DPPH</b>	-	2,2-diphenyl-1-picrylhydrazyl
<b>SCXRD</b>	-	Single Crystal X-Ray Diffraction
<b>TGA</b>	-	Thermogravimetric Analysis
<b>ILCT</b>	-	Intra ligand charge transfer
<b>LMCT</b>	-	Ligand to metal charge transfer
<b>hrs</b>	-	Hours
<b>ImH</b>	-	Imadazole
<b>2-MeImH</b>	-	2-methylimidazole
<b>M-ImH</b>	-	1-methylimidazole
<b>2-EthImH</b>	-	2-ethylimidazole
<b>BenzImH</b>	-	Benzimidazole
<b>2-MeBenzImH</b>	-	2-methy benzimidazole
<b>DNS</b>	-	Dinitrosalicylic acid
<b>TD-DFT</b>	-	Time-dependent density functional theory
<b>TGA</b>	-	Thermogravimetric Analysis

\*Other abbreviations and symbols are explained in the text.