List of Abbreviations

AP	-	4-Acyl Pyrazolone
AHP	-	4-acylhydrzone-5-pyrazolone
bhz	-	Benzhydrazone
bpy	-	2,2′–Bipyridine
4,4′-bpy	-	4,4′-bipyridine
Calcd	-	Calculated
dd (in NMR write-up)	-	Doublet of doublet
DFT	-	Density Functional Theory
DMF	-	N,N-Dimethylformamide
DMSO	-	Dimethylsulphoxide
F.w.	-	Formula weight
Ele. Anal.	-	Elemental Analysis
Et	-	Ethyl
Me	-	Methyl
NMR	-	Nuclear Magnetic Resonance Spectroscopy
FTIR	-	Fourier-Transform Infrared Spectroscopy
m (in NMR write up)	-	Multiplets
M.F.	-	Molecular formula
M.P.	-	Melting Point
phen	-	1,10-phenanthroline
pyz	-	Pyrazolone
SC	-	Semicarbazide
s (in NMR write up)	-	Singlet
t (in NMR write up)	-	Triplet
TSC	-	Thiosemicarbazide
SCXRD	-	Single Crystal X-Ray Diffraction
TGA	-	Thermogravimetric Analysis
Temp	-	Temperature
UV-Vis	-	Ultraviolet-Visible

*Other abbreviations and symbols are explained in the text.