

NOTATIONS AND ABBREVIATIONS

1,2-H ₂ bdc	-	phthalic acid
H ₄ btec	-	1,2,4,5-benzenetetracarboxylic acid
bpy	-	4,4'-bipyridyl
FTIR	-	Fourier transform infrared spectra
TGA	-	Thermo gravimetric analysis
DTG	-	Differential thermogravimetric analysis
EPR	-	Electron paramagnetic resonance
SBU	-	Secondary building unit
CP	-	Coordination polymer
MOF	-	Metal organic framework
M	-	Metal
UV-vis	-	Ultraviolet-visible
mL	-	milli litre
mmol	-	milli mole
g	-	grams
K	-	Kelvin
PXRD	-	powder X-ray diffraction
SCXRD	-	Single crystal X-ray diffraction
R	-	Gas constant
T	-	Temperature in Kelvin
T _f	-	Final temperature

TGA	-	thermogravimetric analysis
T_i	-	initial temperature
ν	-	frequency
χ_A	-	corrected magnetic moment
χ_{dia}	-	Diamagnetic correction
χ_g	-	gram susceptibilty
χ_m	-	molar magnetic susceptibility
μ_{eff}	-	Effective magnetic moment
μ_B	-	Bohr magneton
χ^{VV}	-	Van-Vleck paramagnetism
N_A	-	Avogadro's number
CW	-	Curie- Weiss
O_h	-	Octahedral
T_d	-	Tetrahedral
k_B	-	Boltzmann constant
h	-	hour