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List of Schemes

List of Abbreviations

^{1}H	Proton NMR
^{13}C	Carbon-13 isotope
MWI	Microwave Irradiation
NMR	Nuclear Magnetic Resonance
PXRD	Powder X-ray Diffraction
BET	Brunauer-Emmett-Teller
BJH	Barrett-Joyner-Halenda
SEM	Scanning Electron Microscopy
EDX	Energy Dispersive X-Ray
TEM	Transmission Electron Microscope
FT-IR	Fourier Transform-Infrared
CHN	Carbon Hydrogen Nitrogen
ICP-OES	Inductively Coupled Plasma Atomic Emission Spectroscopy
TOC	Total Organic Carbon
JCPDS	Joint Committee on Powder Diffraction Standards
TLC	Thin Layer Chromatography
ILs	Ionic Liquids
[Dsim]	Di-sulfonic Imidazolium
[Mdsim]	Methyl-disulfoimidazoium
[TSPi]	Tetrasulfopiperazinium
PTA	Phosphotungstic acid
PMA	Phosphomolybdic acid
POMs	Polyoxometalates
BAILs	Brönsted Acidic Ionic Liquids
p-TSA	Para Toluene Sulfonic acid
$CDCl_3$	Deuterated chloroform (used as NMR solvent)
DMSO-d_6	Dimethyl sulfoxide (used as NMR solvent)
DCM	Dichloromethane
Me	Methyl
MeOH	Methanol
EtOH	Ethanol
m	Multiplet (NMR)

o	Ortho
m	Meta
i.e.	That is
J	Coupling constant (in NMR)
s	Singlet (NMR)
d	Doublet (NMR)
t	Triplet (NMR)
mg	Milligram
mL	Millilitre
mmol	Millimole
mol	Mole
Mp.	Melting Point
No.	Number
ppm	Parts per million (in NMR)
r.t.	Room Temperature
UV-Vis	Ultra Violet Visible
VOC	Volatile Organic Compound
W	Watt
°C	Degree Celsius
%	Percentage
<, >	Greater or smaller than
δ	chemical shift (in NMR)
Fig.	Figure
λ	Wavelength