

Abbreviations

Abbreviation Unabbreviated forms

acacH	acetylacetone	pentan-2,4-dione
atm	atmosphere	
bpy	2,2'-bipyridine	
cod	cycloocta-1,5-diene	
Cp	η^5 -cyclopentadienyl	
Cp*	η^5 -pentamethylcyclopentadienyl	
CT	charge transfer	
dba	dibenzylideneacetone	1,5-diphenylpenta-1,4-diene-3-one
DBU	1,8-diazabicyclo[5.4.0]undec-7-ene	
dmf	<i>N,N</i> -dimethylformamide	<i>N,N</i> -dimethylmethanamide
dmpe	1,2-bis(dimethylphosphino)ethane	
dmpm	1,2-bis(dimethylphosphino)methane	
dmsO	dimethylsulphoxide	
DNMR	dynamic nuclear magnetic resonance	
dppb	1,4-bis(diphenylphosphino)butane	
dppe	1,2-bis(diphenylphosphino)ethane	
dppf	1,1'-bis(diphenylphosphino)ferrocene	
dppm	1,1-bis(diphenylphosphino)methane	
dppp	1,3-bis(diphenylphosphino)propane	
dtc	dithiocarbamate	
edtaH ₄	ethylenediaminetetraacetic acid	<i>N,N,N',N'</i> -tetrakis(acetato)-1,2-diaminoethane
en	ethylenediamine	1,2-diaminoethane
ESR	electron spin resonance	
Et	ethyl	
FAB	fast atom bombardment	
hisH	histidine	
HOMO	highest occupied molecular orbital	
ⁱ Pr	<i>iso</i> -propyl (2-propyl)	
IR	infra red	
LUMO	lowest unoccupied molecular orbital	
MAS	magic angle spinning	
Me	methyl	

morph	morpholine	
nbd	norbornadiene	
NMR	nuclear magnetic resonance	
NOESY	nuclear Overhauser effect spectroscopy	
$n\text{Pr}$	<i>n</i> -propyl	
NQR	nuclear quadrupole resonance	
OEPH ₂	octaethylporphyrin	
PE	photoelectron	
phen	1,10-phenanthroline	
PPN	bis(triphenylphosphine)iminium(1+)	
proH	proline	
py	pyridine	
pyrr	pyrrolidine	
pz	pyrazine	
SacacH	thioacetylacetone	4-oxopentane-2-thione
SacSacH	dithioacetylacetate	pentane-2,4-dithione
salenH ₂	<i>N,N'</i> -ethylenbis(salicylideneimine)	
SCE	saturated calomel electrode	
^t Bu	<i>tert</i> -butyl (2-methyl-2-propyl)	
terpy	2,2':6',2''-terpyridine	
TGA	thermogravimetric analysis	
thf	tetrahydrofuran	
tht	tetrahydrothiophene	
tned	tetramethylethylenediamine	<i>N,N,N,N'</i> -tetramethyl-1,2-diaminoethane
TPPH ₂	tetraphenylporphyrin	
tren	<i>N,N,N</i> -tris(2-aminoethyl)amine	
trien	1,4,7,10-tetraazadecane	
triphos	1,1,1- <i>tris</i> (diphenylphosphinomethyl)ethane	
tu	thiourea	
UV	ultraviolet	
UV-VIS	ultraviolet-visible	
V	volt	
XPS	X-ray photoelectron spectroscopy	