
List of Abbreviations

POMs	Polyoxometalates
LPOMs	Lacunary polyoxometalates
HPAs	Heteropolyacids
PW ₁₂	12- Tungstophosphoric acid
PW ₁₁	Mono-lacunary phosphotungstate
PW ₁₀	Di-lacunary phosphotungstate
PW ₁₁ Cu	Mono-copper substituted phosphotungstate
PW ₁₀ Cu ₂	Di-copper substituted phosphotungstate
PW ₁₁ Cu/ZrO ₂	Zirconia supported mono-copper substituted phosphotungstate
PW ₁₁ Cu/Al ₂ O ₃	Alumina supported mono-copper substituted phosphotungstate
PW ₁₁ Cu-Im	Imidazole functionalized mono-copper substituted phosphotungstate
PW ₁₁ Cu + Im	Physical mixture
S-PEA	(S)-1-Phenylethylamine
PW ₁₁ Cu-S-PEA	S-PEA functionalized mono-copper substituted
Sty	Styrene
TBHP	Tert-butyl hydroperoxide
Ald	Aldehyde
Epo	Epoxide
Rec	Recycled
R ₁ , R ₂ , R ₃	First recycle, Second recycle, Third recycle
TON	Turn Over Number
