

List of Abbreviations

HPAs	Heteropolyacids
TPA	12 -tungstophosphoricacid
TSA	12-tungstosilicic acid
TPA/MCM-41	TPA anchored to MCM-41
TSA/MCM-41	TSA anchored to MCM-41
PE-MCM-41	Pore expanded MCM-41
TPA/PE-MCM-41	TPA anchored to PE-MCM-41
TPA/ SBA-15	TPA anchored to SBA-15
FFA	Free fatty acids
TGs	Triglycerides
JO	Jatropha oil
WCO	Waste cooking oil
TON	Turn over number
TOF	Turn over frequency
Total number of figures	133
Total number of tables	58