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Pyrolysis oil upgrading to transportation fuels by catalytic hydrotreatment

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Nomenclature*Abbreviations*

DCM	dichloromethane
HDO	hydrodeoxygenation
HDN	hydrodenitriification
HDS	hydrodesulphurization
HHV	higher heating value (MJ/kg)
HMF	hydroxymethylfurfural
HMM	high molecular mass
HPTT	high pressure temperature treatment
LA	levulinic acid
LMM	low molecular mass
LHSV	liquid hourly space velocity (vol. oil/vol. cat.h)
SEM	scanning electron microscopy
TEM	transmission electron microscopy
n.a.	not available

Nomenclature

D	dispersion (%)
V_m	mono layer coverage (cm^3/g)
S	stoichiometric factor
X_m	weight fraction of metal
γ	yield (%)
η	efficiency (%)

