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List of Abbreviations

Å	Angstrom
cps	Counts per second
eV	Electronvolt
F	Molar flow rate
FT-IR	Fourier transform infrared
g	Gram
GC	Gas Chromatography
GHG	Greenhouse Gases
h	Hour
IEA	International Energy Agency
JCPDS	Joint Committee on Powder Diffraction Standards
Kg	Kilogram
KJ/mol	Kilojoule per mole
kV	Kilovolt
M	Molar
mA	Milliamppere
mg	Milligram
min	Minute
MJ	Megajoule
mmol/g	Millimole per gram
N	Stoichiometric factor
nm	Nanometre
pH	Potential of hydrogen
rpm	Revolution per minute
SH ₂	Selectivity of hydrogen
SCO ₂	Selectivity of Carbon Dioxide
SCO	Selectivity of Carbon Monoxide

SCH ₄	Selectivity of Methane
SC ₂ H ₄	Selectivity of Ethylene
SCH ₃ CO	Selectivity of Acetone
SCH ₃ CHO	Selectivity of Acetaldehyde
SC ₂ H ₆	Selectivity of Ethane
SC ₄ H ₈ O ₂	Selectivity of Ethyl acetate
T	Temperature (K)
W _{cat}	Weight of catalyst
wt%	Weight percent
X	Conversion
°C	Degree Celsius
K	Kelvin
λ	Lambda
μm	Micrometre
%	Percent
θ	Theta