DEVELOPMENT OF TiO_2 LOADED $CuFe_2O_4$ PHOTOCATALYST FOR CO_2 CONVERSION INTO METHANOL UNDER VISIBLE LIGHT IRRADIATION

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LIST OF ABBREVIATIONS

BET	Brunauer–Emmett–Teller
CB	Conduction Band
C	Concentration
EDX	Energy dispersive X-ray spectrometer
FE-SEM	Field emission scanning electron microscopy
FWH	Full width at half-maximum
GC-FID	Agilent gas chromatography (GC); flame ionization detector (FID)
NHE	Normal Hydrogen Electrode
PL	Photoluminescence
TGA	Thermogravimetric analysis
TPES	Total Primary Energy Supply
UV	Ultra-Violet
UV-Vis	Ultra-violet visible
VB	Valence Band
VLR	Visible Light Responsive
WL	Weight loss
XRD	X-ray diffraction

LIST OF SYMBOLS

E_g	Band gap Energy
e^-	Electron
h^+	Holes
λ	Wavelength
ΔG0	Gibb's free energy
eV	Electron Volt
MPa	Mega pascal
V	Standard Potential
µg	Microgram
g	Gram
µm	Micrometer
W	Watt
M	Molarity
Nm	Nanometer
2θ	Scattering angle
D	Coherent scattering length
B	Width of peak
K	Constant related to crystallite shape
Å	Angstrom, m
Wt	Weight
%	Percentage

Cm	Centimeter
M	Meter
^{o}C	Degree Celcius (Temperature)
μmol	Micro-moles
g_{cat}	Gram catalysts
L	Litre
H	Hour
T	Treatment Time
P	Positive type juction
N	Negative type junction
B	FWHM (in radians)
ΔE	Redox potential
Θ	Diffraction angle
μg	Microgram
2θ	Scattering angle