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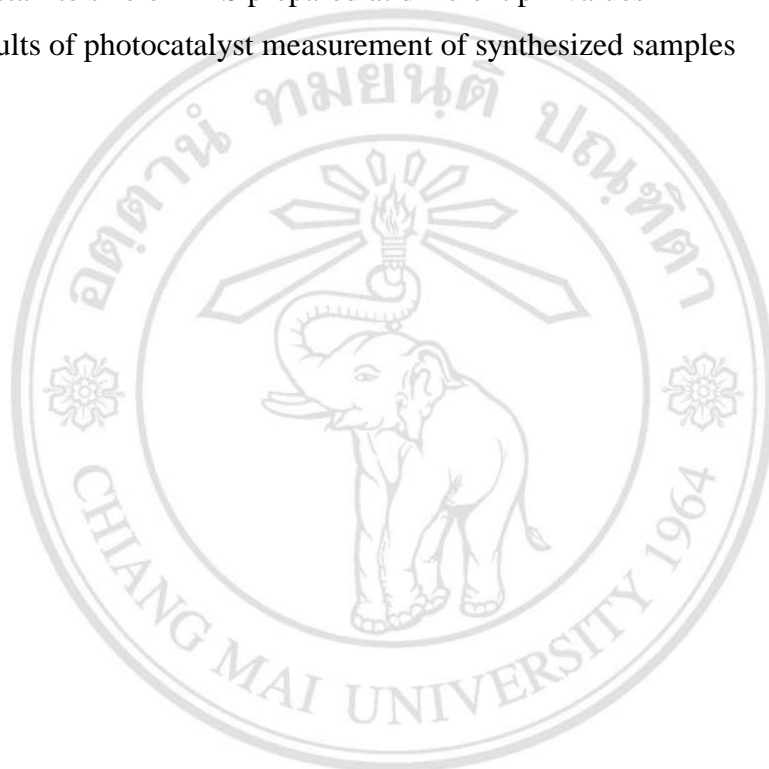
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## LIST OF ABBREVIATIONS

ZHS	Zinc hydroxystannate
OSHA	Occupational Safety and Health Administration
IARC	International Agency for Research on Cancer
NTP	Nation Toxicology Program
ACGIH	American Conference of Governmental Industrial Hygienists
XRD	X-ray diffraction
XPS	X-ray photoelectron spectroscopy
FTIR	Fourier transform infrared
SEM	Scanning electron microscopy
TEM	Transmission electron microscopy
SAED	Selected-area electron diffraction
EDX	Energy dispersive X-ray spectroscopy
BET	Brunauer Emmett Teller
PL	Photoluminescence spectroscopy
UV-Vis	UV-visible spectroscopy
JCPDS	Joint Committee for Powder Diffraction Standard
FWHM	Full width at half maximum
VB	Valence band
CB	Conduction band
SE	Secondary electron
BSE	Back-scattered electron
HOMO	Highest occupied molecular orbital
LUMO	Lowest unoccupied molecular orbital
MO	Methyl orange
pH	Potential of hydrogen ion

## LIST OF SYMBOLS

$E_g$	Energy gap
eV	Electron Volt
kV	Kilo Volt
m	Meter
$\mu\text{m}$	Micrometer
Nm	Nanometer
$\text{\AA}$	Angstrom
mA	Milliamp
$\text{cm}^{-1}$	Wavenumber
g	Gram
ml	Milliliter
mol	Mole
M	Molarity
°	Degree
°C	Degree Celsius
K	Kelvin
GHz	Gigahertz
W	Watt
$\alpha$	Alpha, Absorption coefficient
$\lambda$	Lambda, Wavelength
$\nu$	Nu, Frequency
$\theta$	Theta, Diffraction angle
$\beta$	Beta, Full width at half maximum
$\epsilon$	Epsilon, Molar absorption coefficient/Dielectric
$h\nu$	Photon energy
A	Absorbance



h	Hour
min	Minute
s	Second
t	Time
%	Percentage



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