LIST OF SYMBOLS AND ABBREVIATIONS

Atm	-	Standard atmosphere
°C	-	Temperature
Hυ	-	Photon energy
Hz	-	Hertz
kHz	-	Kilo hertz
λ	-	Wavelength of X-rays
β	-	Full-width at half-maximum (FWHM)
Au	-	Gold
Ag	-	Sliver
AgCl	-	Silver chloride
AgBr	-	Silver bromide
$BiVO_4$	-	Bismuth vanadate
β-$SnWO_4$	-	Tin tungsten oxide
CO_2	-	Carbon dioxide
CVD	-	Chemical Vapour Deposition
C_2H_5OH	-	Ethanol
C/O	-	Carbon-Oxygen ration
Cr	-	Chromium
C	-	Carbon
C-C	-	Carbon-carbon bond
C=O	-	Carbonyl group
C_t	-	Time depend concentration

C_0	-	Initial concentration
C_e	-	Equilibrium concentration
Cl	-	Chlorine
EDAX	-	Energy dispersive spectroscopy
eV	-	Electron Volte
E	-	Electron
EDTA	-	Ethylenediaminetetraacetic acid
GO	-	Graphene oxide
GR	-	Graphene
GD	-	Graphdiyne
G1, G2, G3&G4	-	Various oxidized graphene oxide
H	-	Hole
HCl	-	Hydrochloric acid
H_2SO_4	-	Sulphuric acid
H_2O_2	-	Hydrogen peroxide
H_2PO_4	-	Dihydrogen Phosphate
HR-TEM	-	High-Resolution Transmission Electron Microscopy
JCPDS	-	Joint Committee on Powder Diffraction Standards
$KMnO_4$	-	Potassium permanganate
KIO4	-	Potassium periodate
KOH	-	Potassium hydroxide
K	-	Rate constant
MI	-	Microwave irradiation

MB	-	Methylene Blue
ML	-	Mole per litter
M	-	Mass
mgL^{-1}	-	Milligram per litter
Nm	-	Nanometer
$NaBH_4$	-	Sodium borohydride
NaOH	-	Sodium hydroxide
Na_2SO_4	-	Sodium sulfate
O_2	-	Oxygen
PL	-	Photoluminescence
pH	-	Potential of hydrogen
PMS	-	Peroxymonosulfate
PDS	-	Peroxydisulfate
q_t	-	Adsorbed per unit weight of adsorbent
q_m	-	Maximum amount of dye adsorbed by constant amount adsorbent
RR120	-	Reactive red 120
RhB	-	Rhodamine B
rGO	-	Reduced graphene oxide
Rpm	-	Revolutions per minute
R	-	Universal gas constant
R^2	-	Linear regression
TiO_2	-	Titanium dioxide
TOC	-	Total organic carbon
T	-	Temperature

T	-	Time
UV spectroscopy	-	Ultraviolet–visible spectroscopy
V	-	Volume
V	-	Voltage
W	-	Weight
W	-	Watts
XRD	-	X-Ray diffraction pattern
Z	-	Zinc
ZnO	-	Zinc Oxide
ZnS	-	Zinc Sulphide