

LIST OF SYMBOLS AND ABBREVIATIONS

MONPs	Metal oxide nanoparticle
TiO₂	Titanium oxide/Titania
WO₃	Tungsten oxide
SiO₂	Silica
3-APTMS	3-aminopropyltrimethoxysilane
3-GPTMS	3-glycidoxypropyltrimethoxysilane
ECETMS	2-(3,4-epoxycyclohexyl) ethyltrimethoxysilane
Ormosil	Organically modified silicate
AA	Ascorbic acid
H₂O₂	Hydrogen peroxide
EDS	Energy dispersive spectroscopy
TEM	Transmission electron microscopy
SEM	Scanning electron microscopy
AFM	Atomic force microscopy
FTIR	Fourier transform infrared
CV	Cyclic voltammetry
GCE	Glassy carbon electrode
GPE	Graphite paste electrode
PB	Prussian blue
PBNPs	Prussian blue nanoparticles
Py	Pyrogallol
GOx	Glucose oxidase
HRP	Horseradish peroxidase
k_{cat}	Catalytic rate constant
K_m	Michaelis constant
V_{max}	Maximal reaction velocity