List of Schemes

Schemes	Captions	Page No
Scheme 3.1	The schematic representation of the fabrication and sensing process of AuNPs/PEDOT/GCE based Immunosensor for AFB ₁ detection	67
Scheme 3.2	Schematic representation of the formation of PEDOT and GO composite.	71
Scheme 3.3	The schematic diagram representing possible ways of immobilization in presence of AuNPs.	73
Scheme 3.4	The schematic representation of the fabrication process of BSA/anti-AFB1/AuNPs/PEDOT-GO/GCE based Immunosensor for AFB1 detection.	73
Scheme 3.5	The schematic representation of the fabrication process of AChE/PEDOT-PSS-fMWCNTs and the detection principle towards pesticide inhibition.	77
Scheme 4.1	The equivalent circuit representing the Randles Cell.	91
Scheme 5.1	The schematic representation of the electro-catalytic behavior of the modified electrode towards redox probe ($[Fe (CN)_6]^{3-/4}$ -).	130