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(72)**Name of Inventor :**
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**2)VERMA, Nishant**

(57) Abstract :
A non-enzymatic electrochemical screen-printed sensor for conjugated and unconjugated bilirubin analysis. The sensor comprises of a working electrode, a counter electrode and a reference electrode. The working electrode of the system is a nanocomposite wherein said nanocomposite consist of green synthesized tri-metallic (Au-Ag-MnO2) alloys nanoparticles anchored on carboxylic acid-functionalized single-walled carbon nanotubes. A unique dual-filter membrane system to reduce the interferants effect and to provide the ions during the electrochemical analysis of real samples has been further assembled. The process of fabricating the sensor has also been disclosed.

No. of Pages : 38 No. of Claims : 13

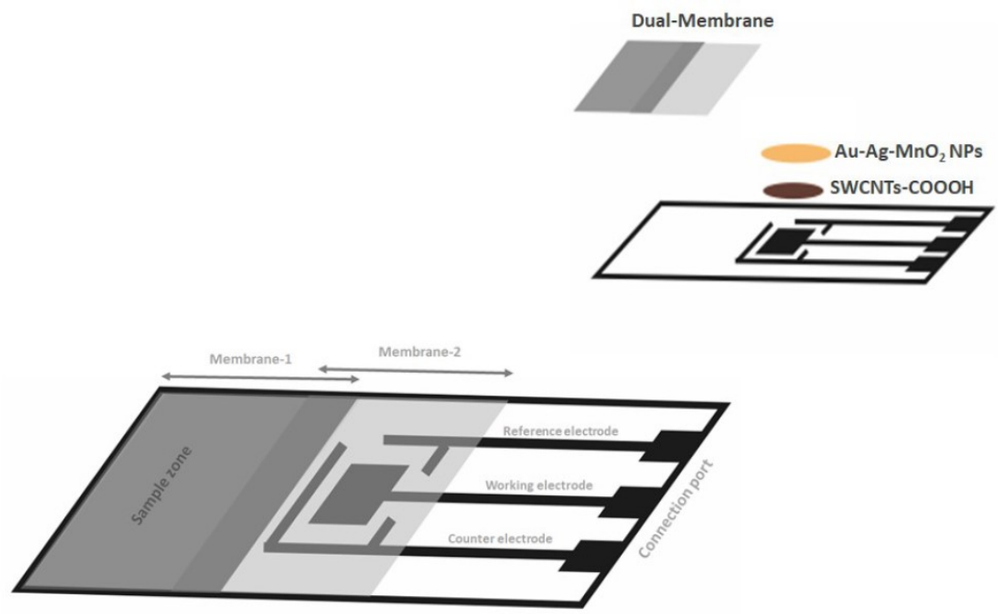



FIG. 1

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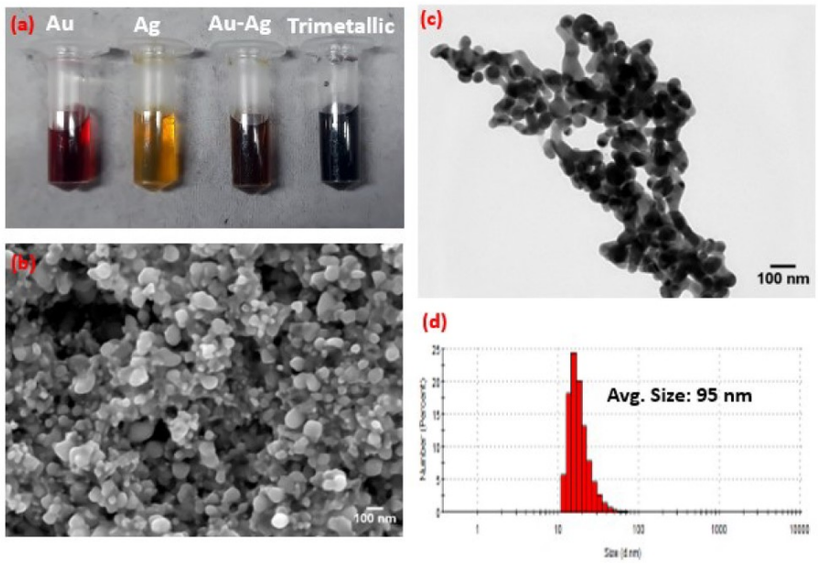



FIG. 2

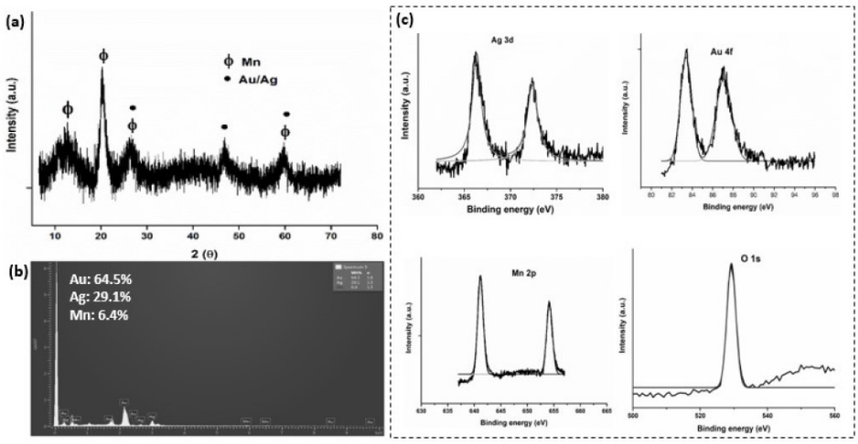



FIG. 3

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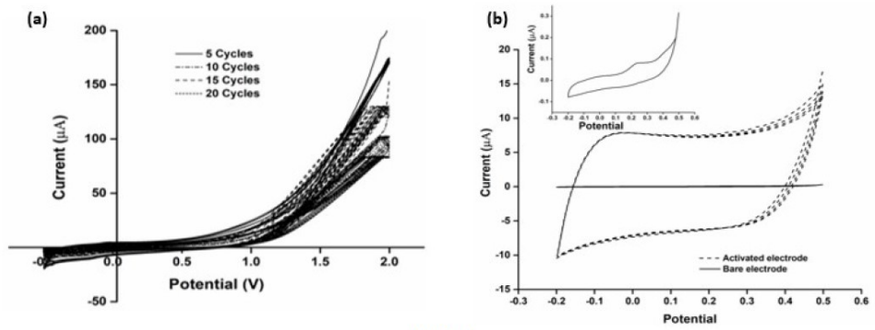



FIG. 4

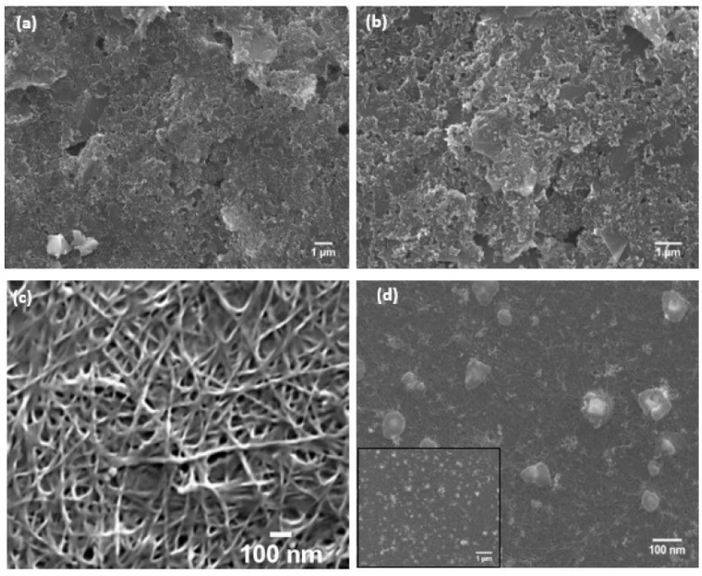



FIG. 5

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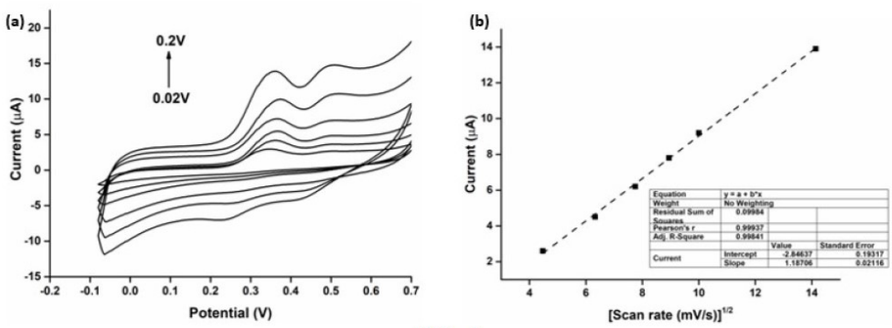



FIG. 6

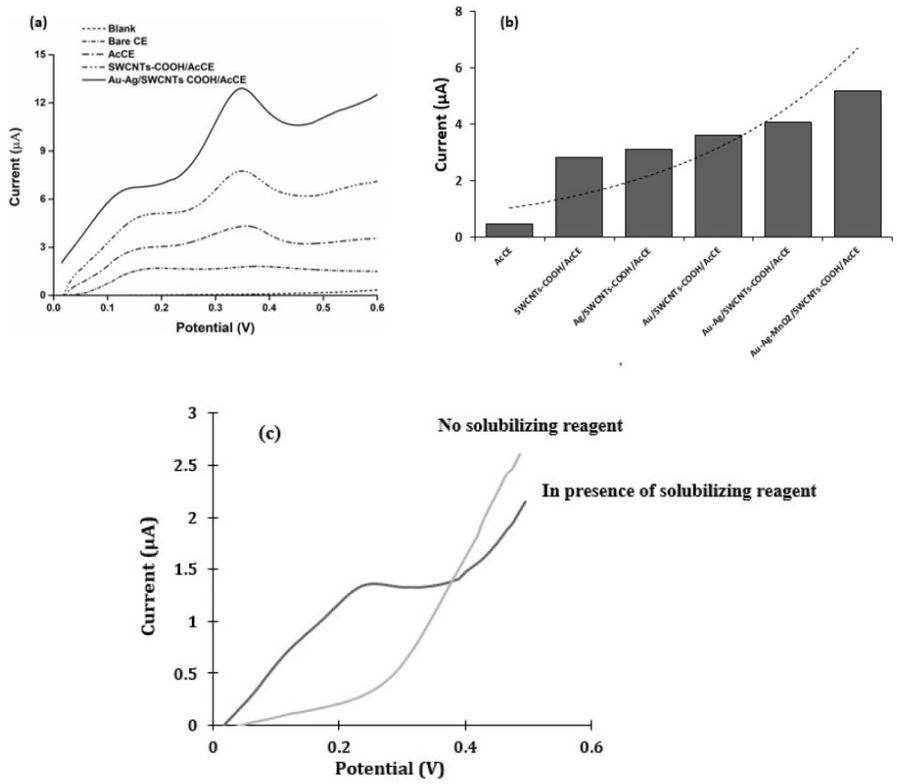



FIG. 7

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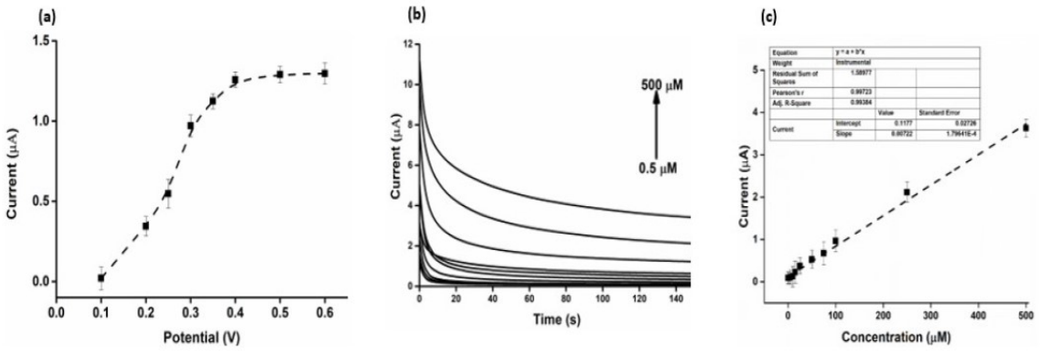



FIG. 8

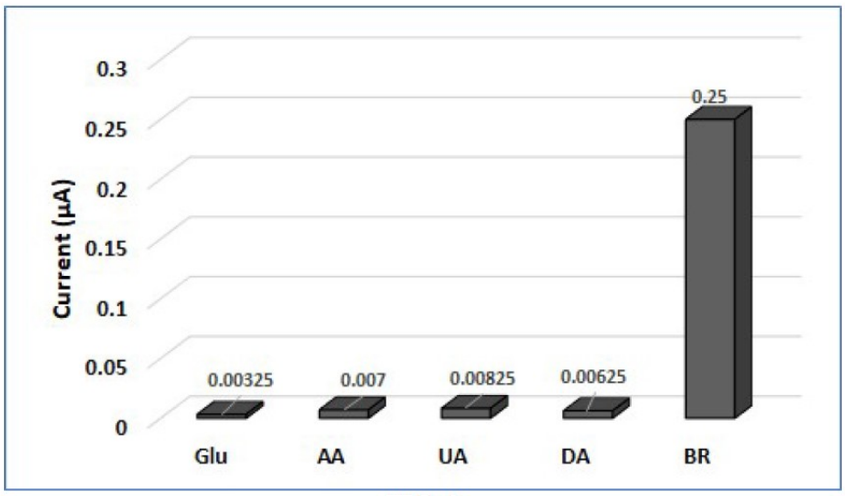



FIG. 9

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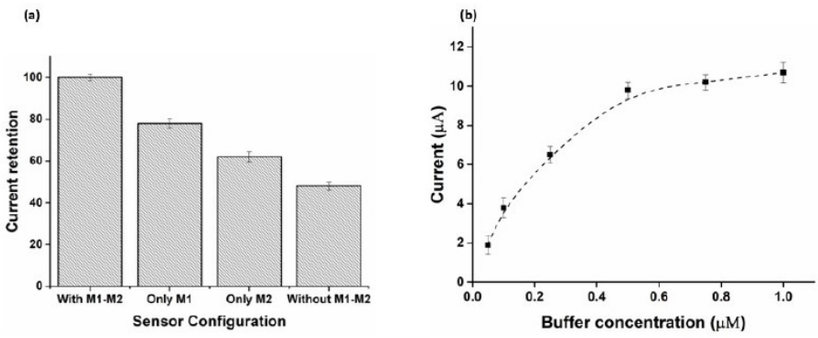



FIG. 10

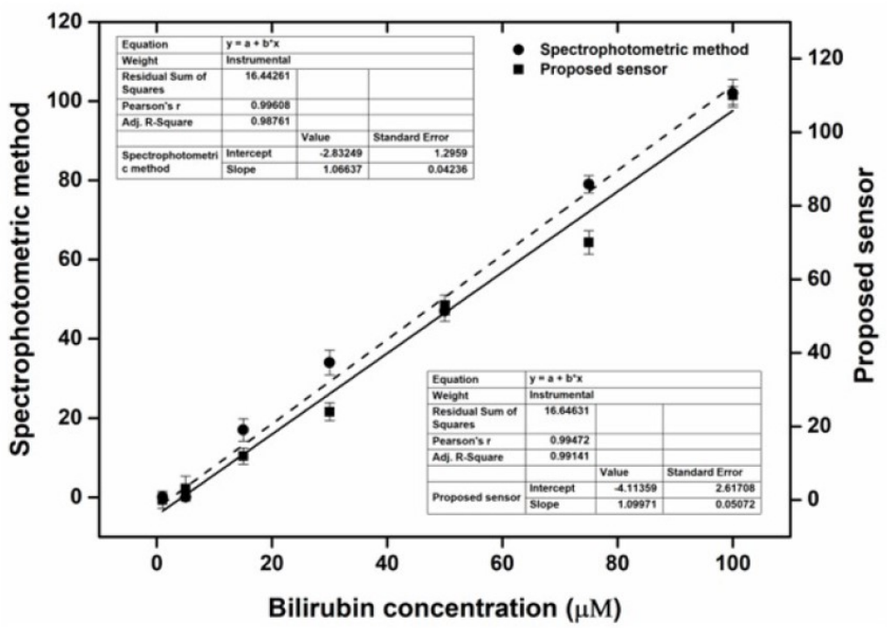



FIG. 11

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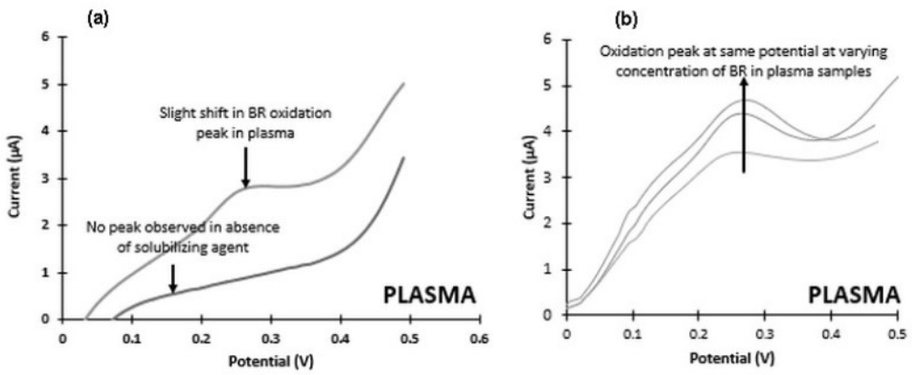



FIG. 12

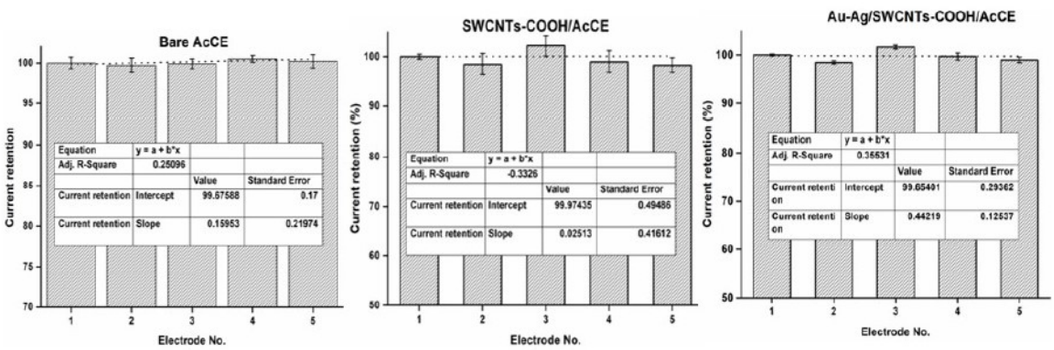



**FIG. 13**

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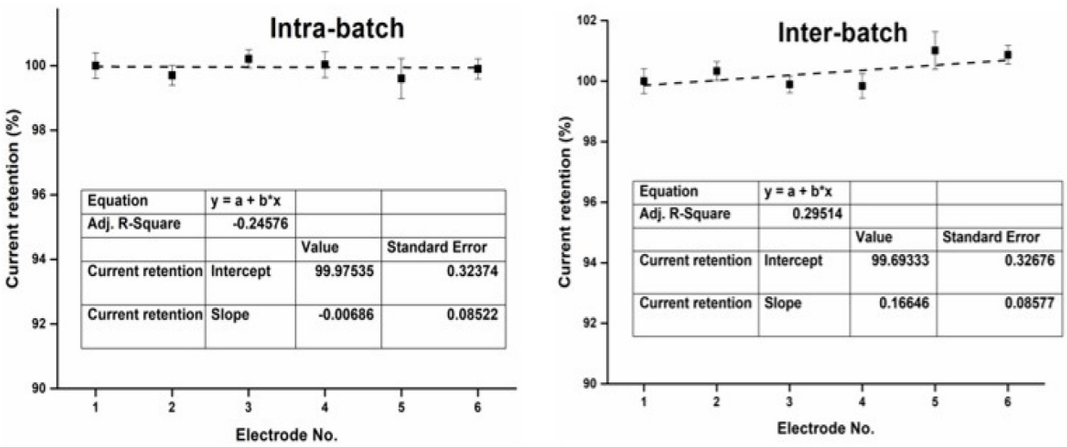



**FIG. 14**

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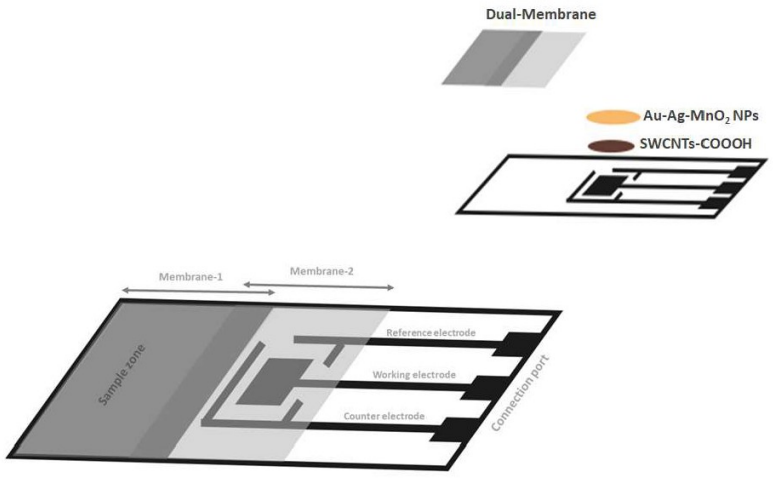



Fig. 1

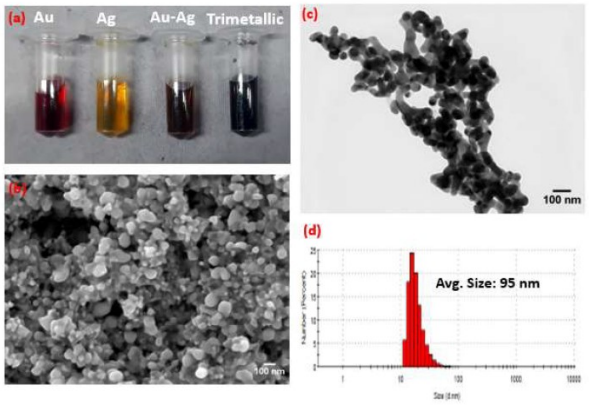



Fig. 2

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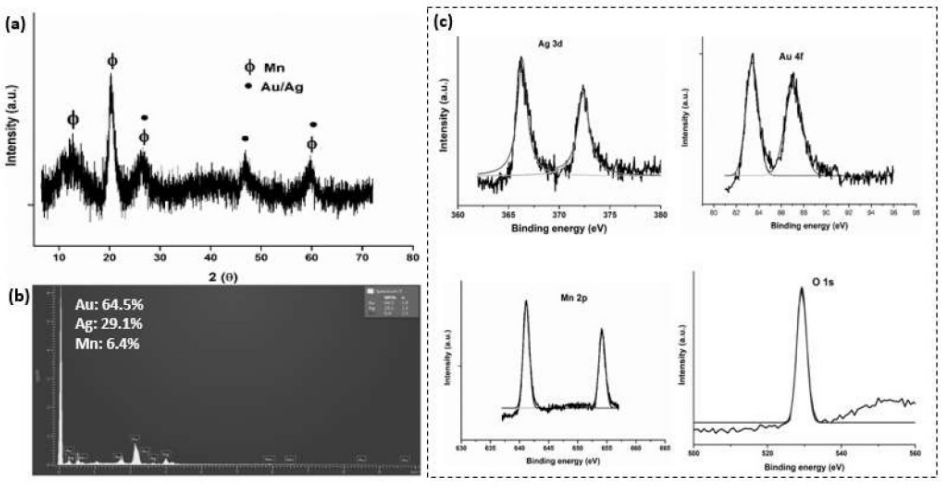



**Fig. 3**

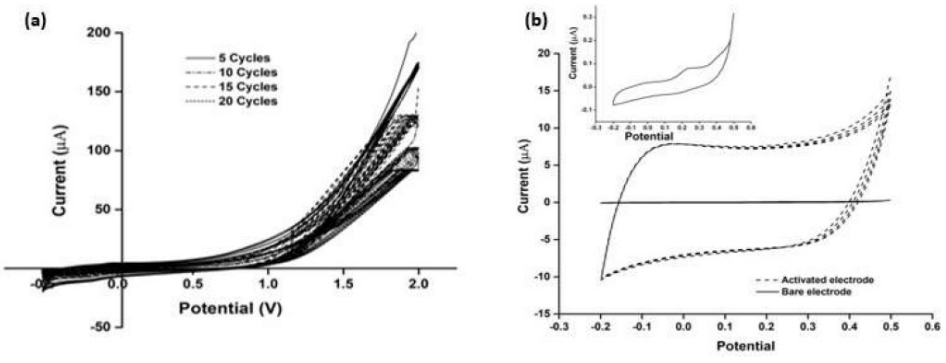



**Fig. 4**

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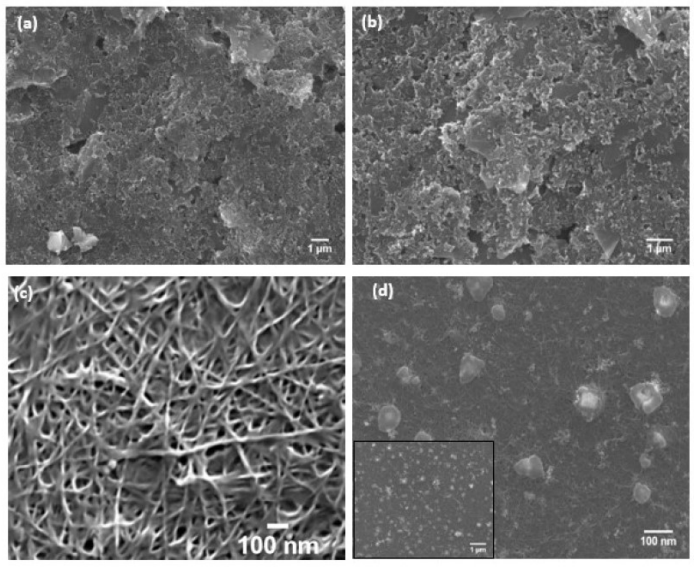



Fig. 5

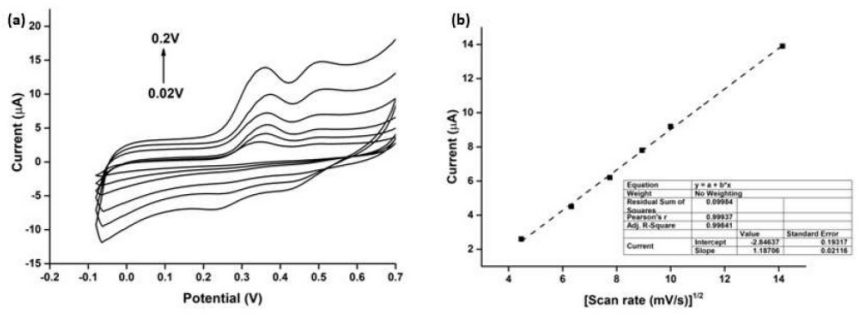



Fig. 6

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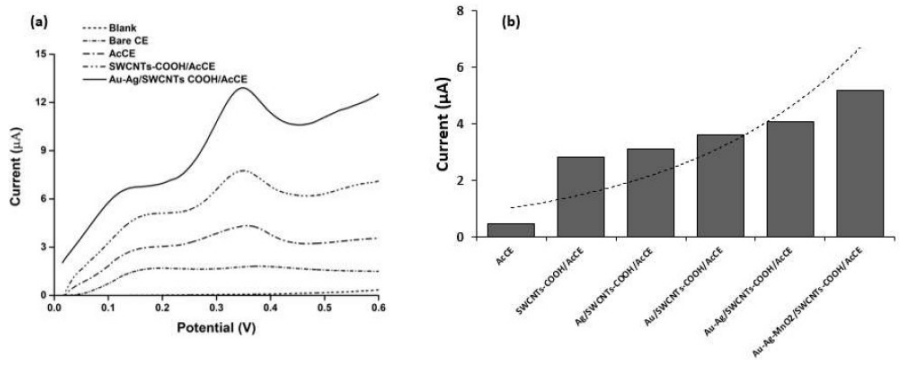



**Fig. 7**

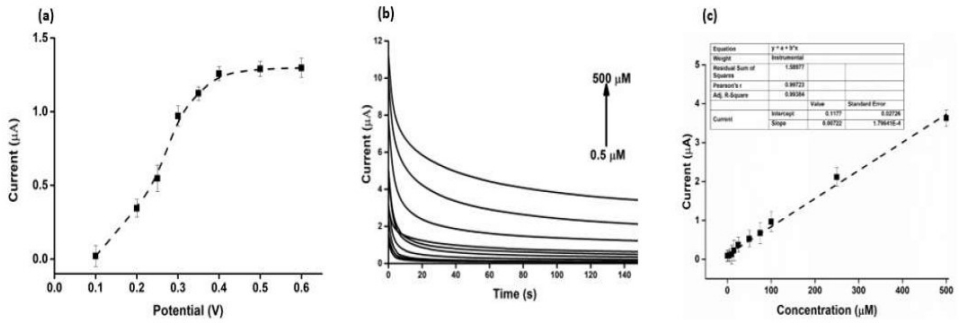



**Fig. 8**

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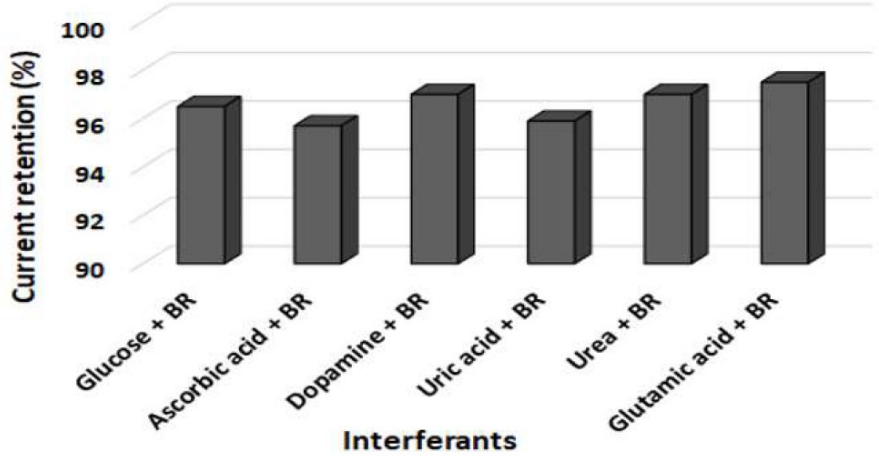



Fig. 9

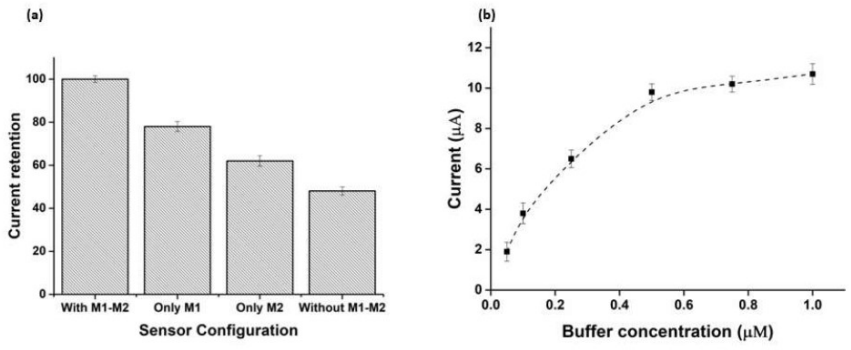



Fig. 10

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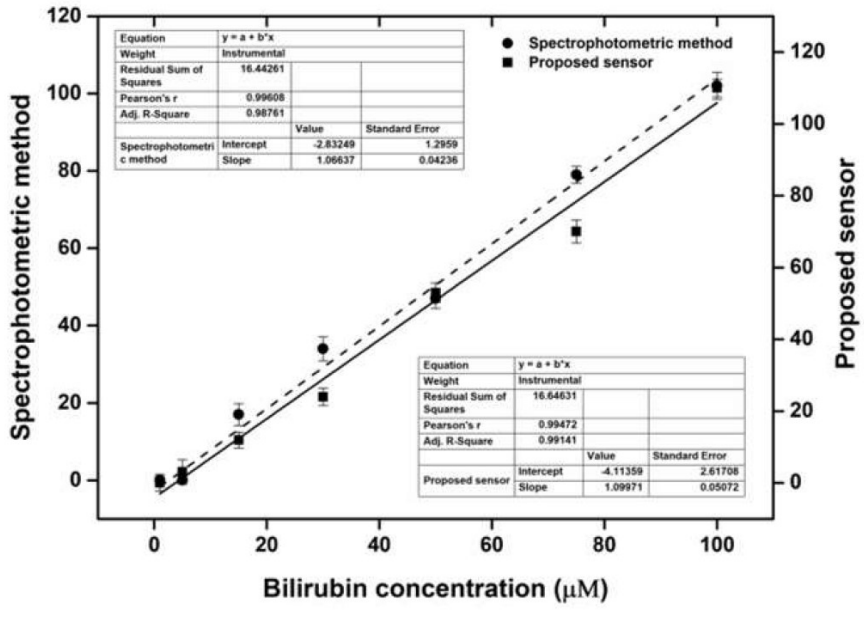



Fig. 11

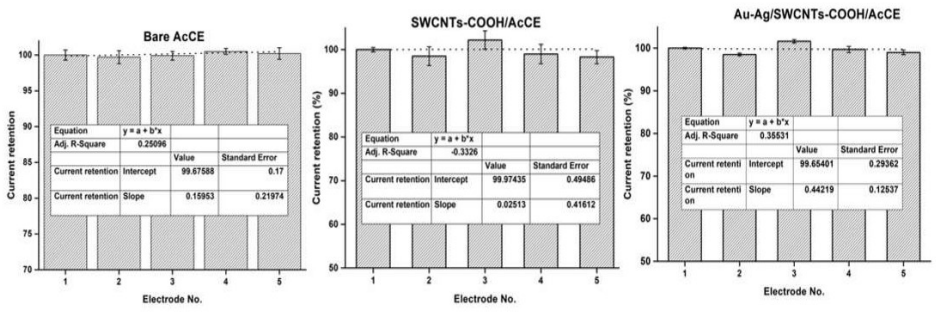



Fig. 12

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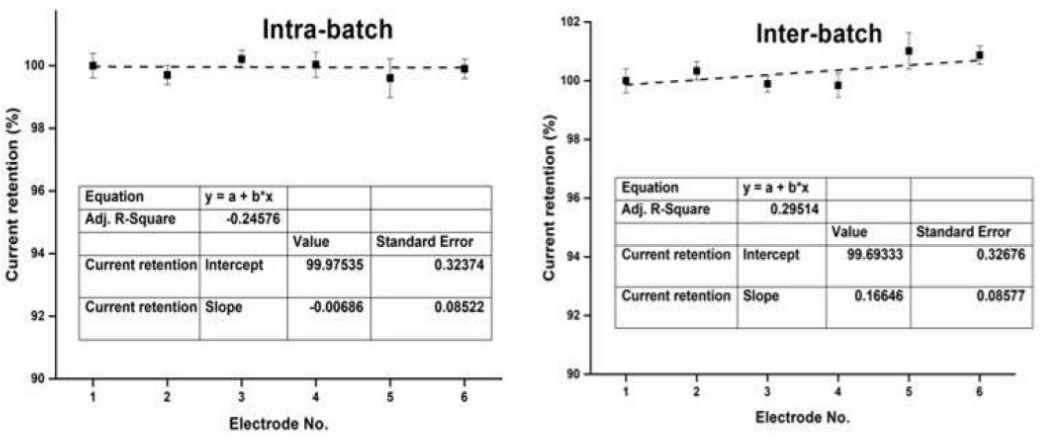



**Fig. 13**

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