

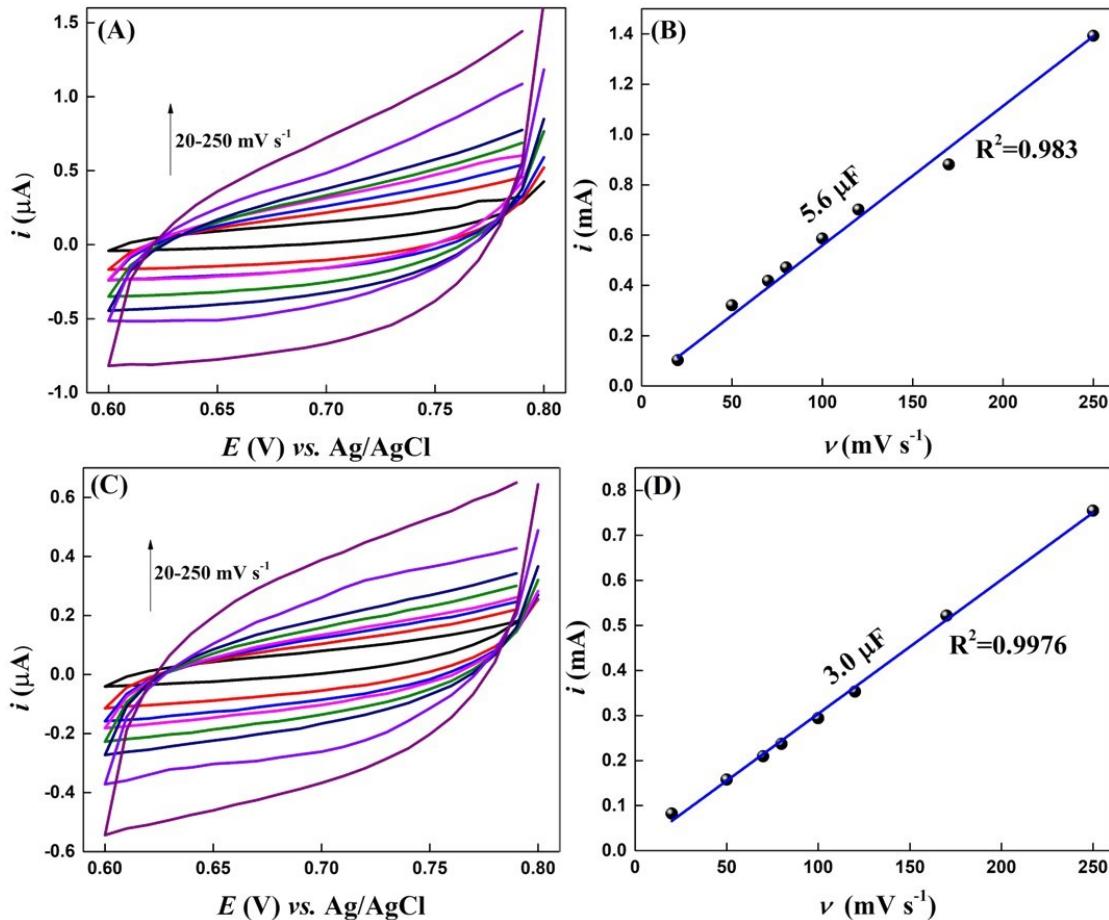
### Supporting information

**Table S1.** Various modes of vibrations extracted from the FT-IR spectra of MWCNT, BIM-H, (BIM-Cu<sup>2+</sup>)<sub>n</sub> and MWCNT/(BIM-Cu<sup>2+</sup>)<sub>n</sub>

MWCNT	BIM-H	(BIM-Cu <sup>2+</sup> ) <sub>n</sub>	MWCNT/(BIM-Cu <sup>2+</sup> ) <sub>n</sub>	Peak assignment
3126	3117	3128	3133	C-H stretching
1642			1637	-C=C- stretching
1392			1399	-C-H bending
	3350-2400			N-H stretching
	1774			N-H bending
	1609	1609		Imidazole (IM) in-plane N-H bending
1466		1468		Ring stretching
1407		1399		Ring stretching
1238		1238		C-N stretching
1248				N-H in plane bending
1129		1211	1129	BIM in-plane C-H bending
998				BIM in-plane ring bending
954				IM C-H in-plane bending
886				IM in-plane ring bending
742		747		BIM C-H out-of-plane bending
		300.6	295.6	Cu <sup>2+</sup> -N stretching and g
		323.1	306.8	N-Cu <sup>2+</sup> -N bending

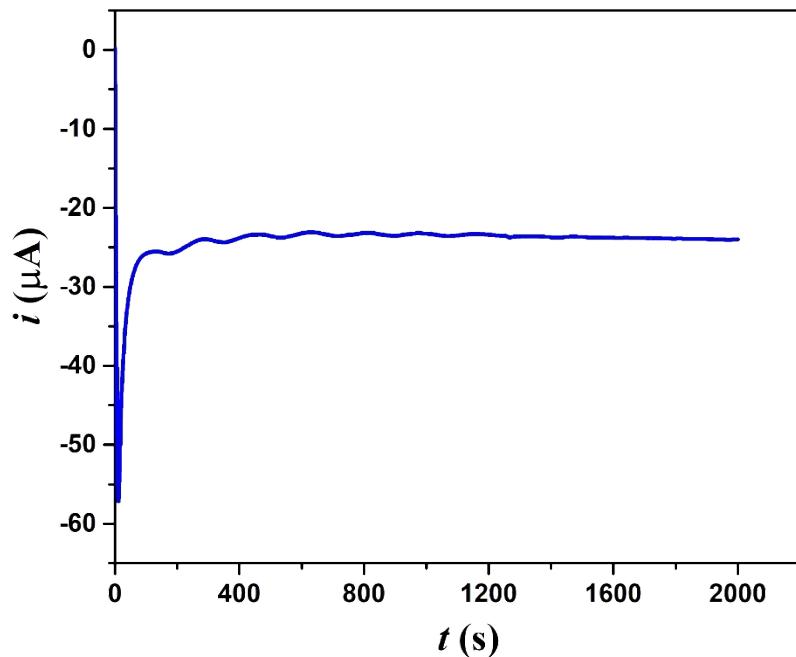
## **Supporting information**

## Supporting information



**Fig. S1** (A and C) MWCNT/(BIM- $\text{Cu}^{2+}$ )<sub>n</sub> and MWCNT cyclic voltammetry analysis at various scan rates ( $20-250 \text{ mV s}^{-1}$ ) (B and D) capacitive current densities as a function of scan rate

## Supporting information



**Fig. S2** Chronoamperometry of MWCNT/(BIM-Cu<sup>2+</sup>)<sub>n</sub>@GCE in 5 mM H<sub>2</sub>O<sub>2</sub> containing PBS at -0.2 V for 2000 s