

Supplementary Information

Nitrogen-Doped Carbon Foam as an Efficient Enzymatic Biosensing Platform for Glucose Sensing

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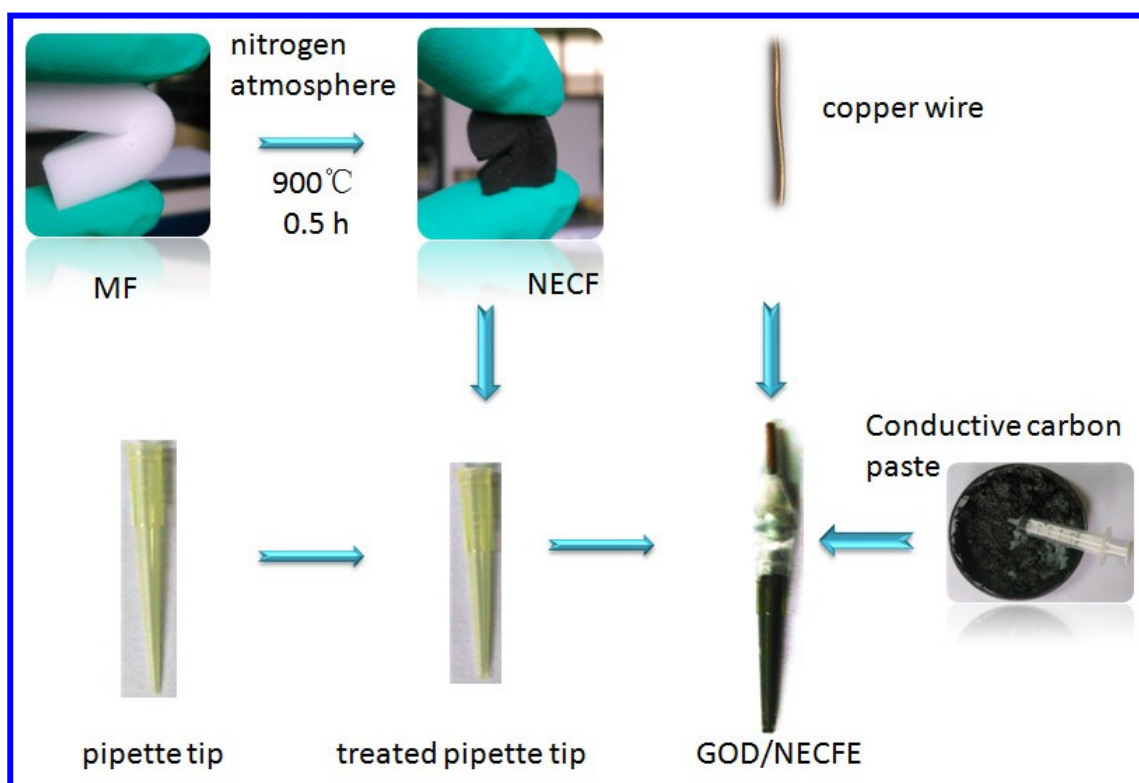


Fig. S1. Schematic illustration of the fabrication of the integrated GOD/NECFE.

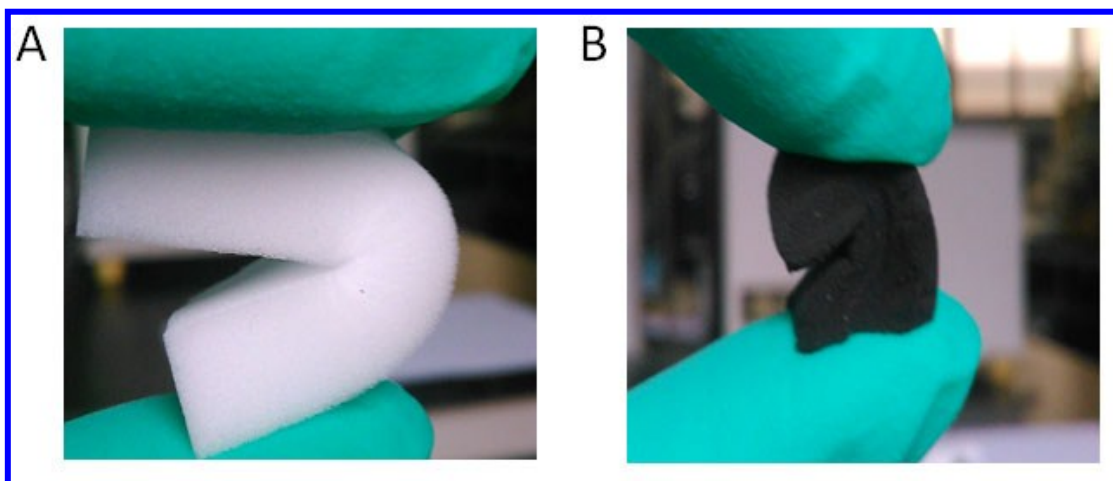


Fig. S2. Melamine foam and NECF bent by finger tips.

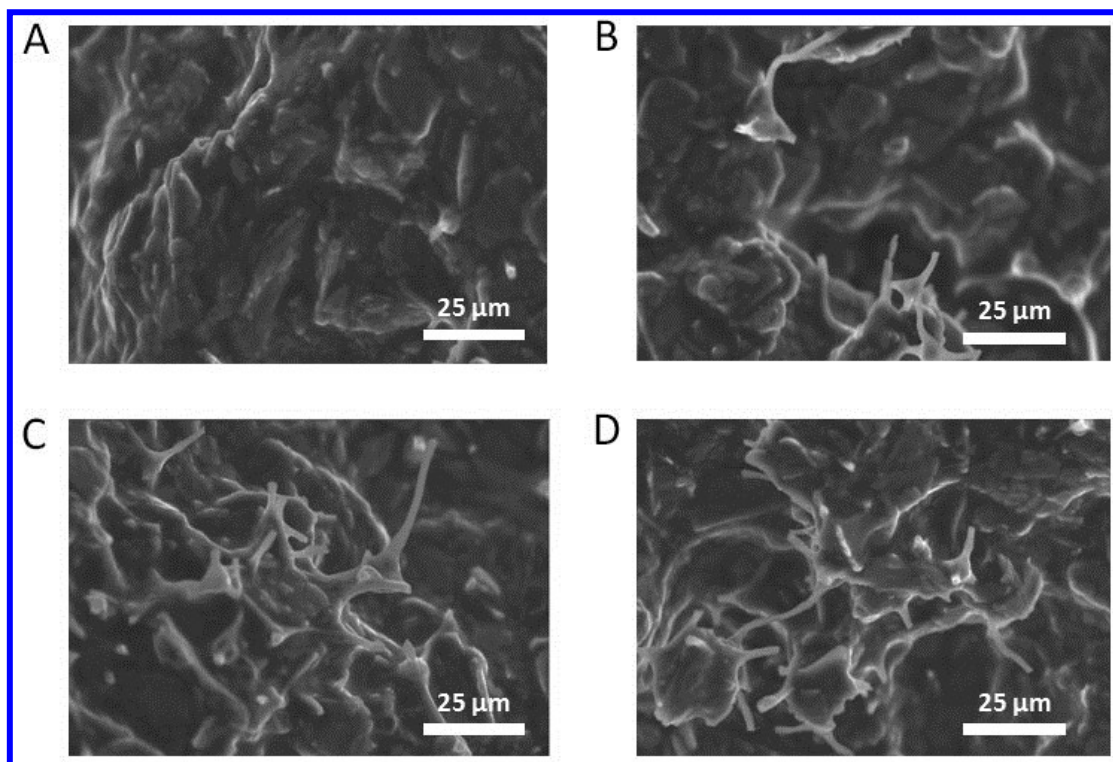


Fig. S3. SEM images of the GOD/NECFE prepared by different concentration of GOD solution used to construct the biosensor (A) 15 mg mL⁻¹ GOD solution (B) 12.5 mg mL⁻¹ GOD solution (C) 10 mg mL⁻¹ GOD solution (D) 7.5 mg mL⁻¹ GOD solution.

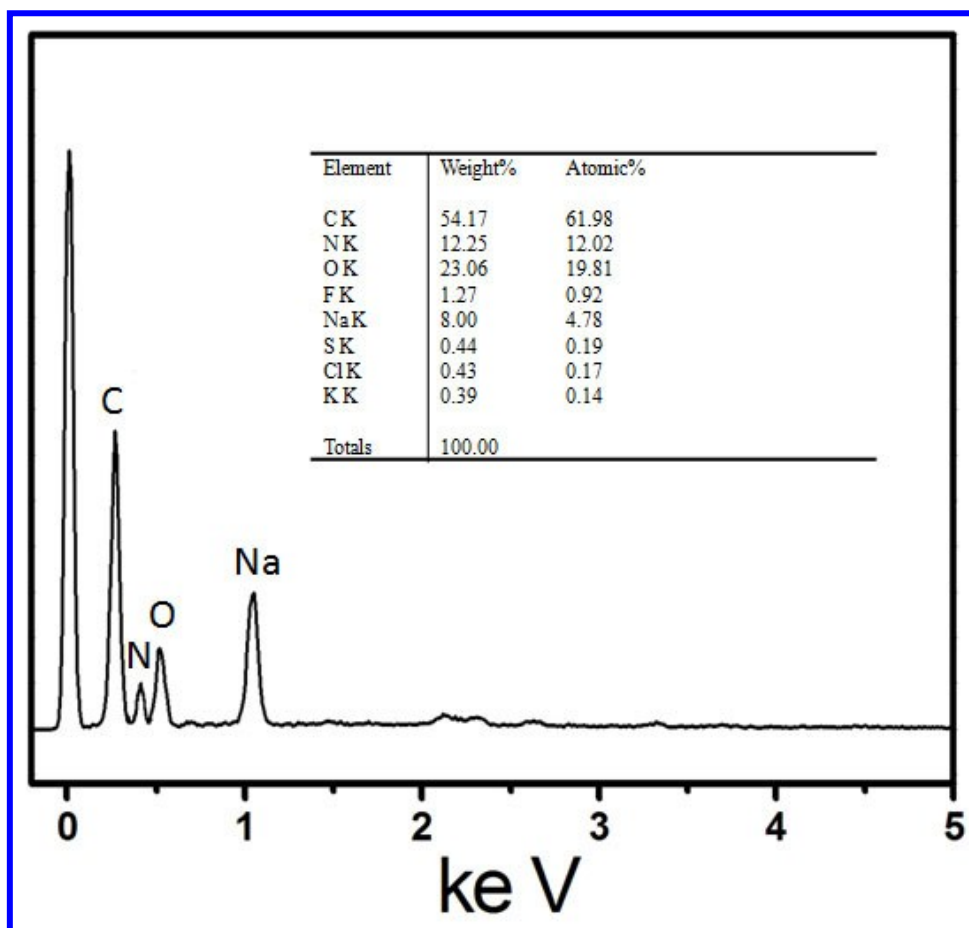


Fig. S4. EDS curve of NECFs.

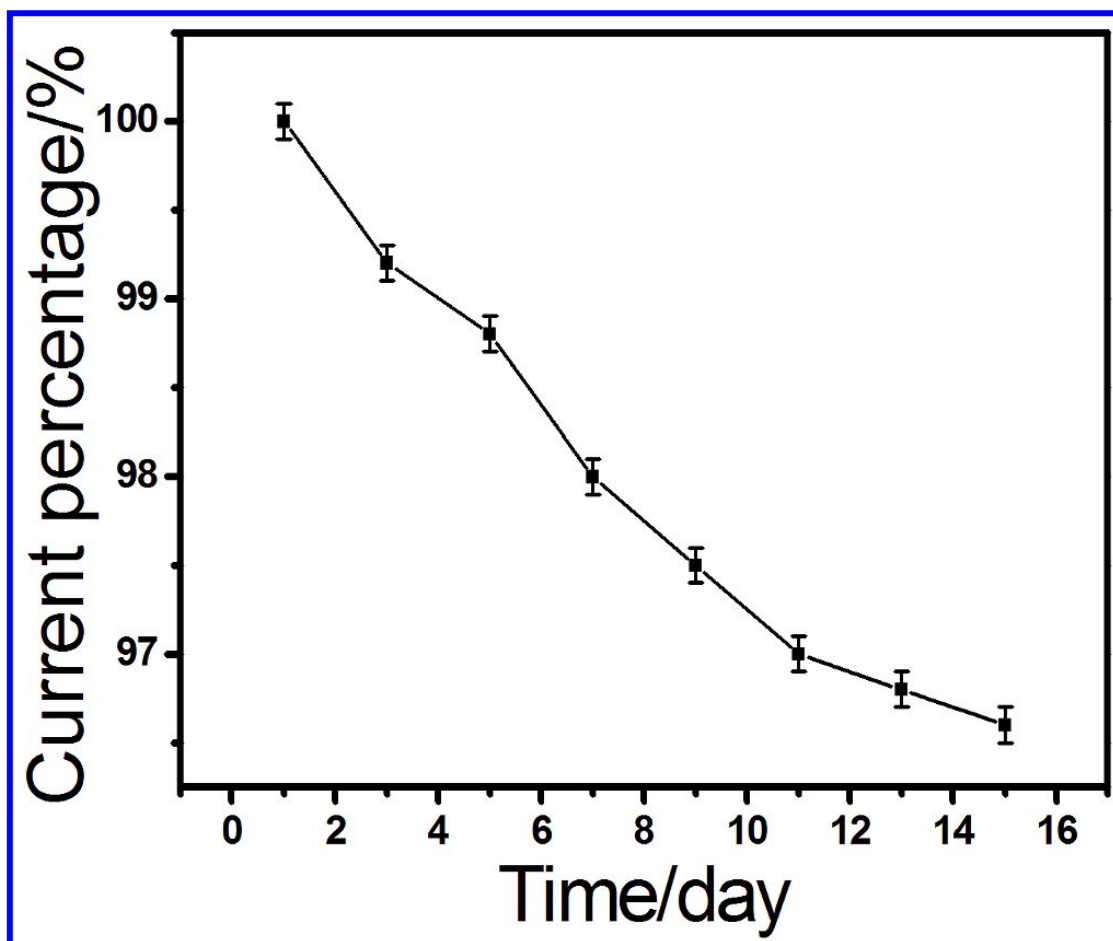


Fig. S5. Stability test of the GOD/NECFE in determination of 2.0 mM glucose in 15 days.

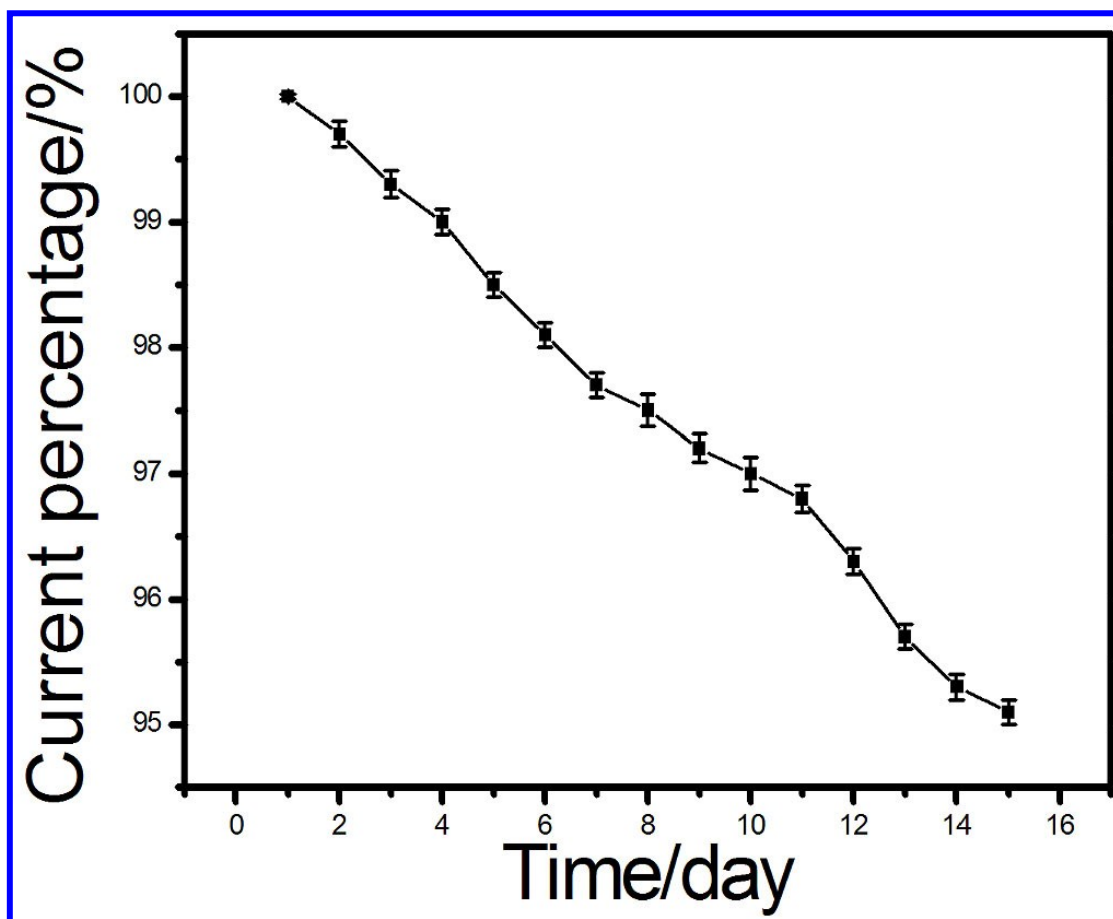


Fig. S6. Stability test of the GOD/NECFE in the determination of glucose in blood.

Table S1. Determination of glucose in blood serum sample.

Blood serum sample (mM)	Diluted samples (mM)	Added (mM)	Determined by colorimetric enzymatic method (mM)	Determined by GOD/NECF biosensor (mM)	Recovery (%)	RSD (% ,n=5)
	1.91	1.00	2.88	2.93	100.69	3.02
9.18	4.65	1.00	5.62	5.71	101.06	3.17
	9.29	1.00	10.33	10.21	99.22	3.19