Supporting Information

Metal anchoring strategy: electrochemical sensor with excellent performance in gastrointestinal secretions

Juanjuan Ji[a], Baohong Shen[b], Fang Yang[a], Sujuan Li[c], Hao Lin[d], Yuyu Wang[a] and Lu Yang[a]*

a. Department of Gastroenterology, The First Affiliated Hospital of Xinxiang Medical University, , Henan 453100, China

b. Department of Oral and maxillofacial surgery, The First Affiliated Hospital of Xinxiang Medical University, , Henan 453100, China

c. Department of Integrated Traditional Chinese and Western Medicine, The First Affiliated Hospital of Xinxiang Medical University, , Henan 453100, China

* Corresponding author.

E-mail address: juanjuanSCI@126.com

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Results and Discussion

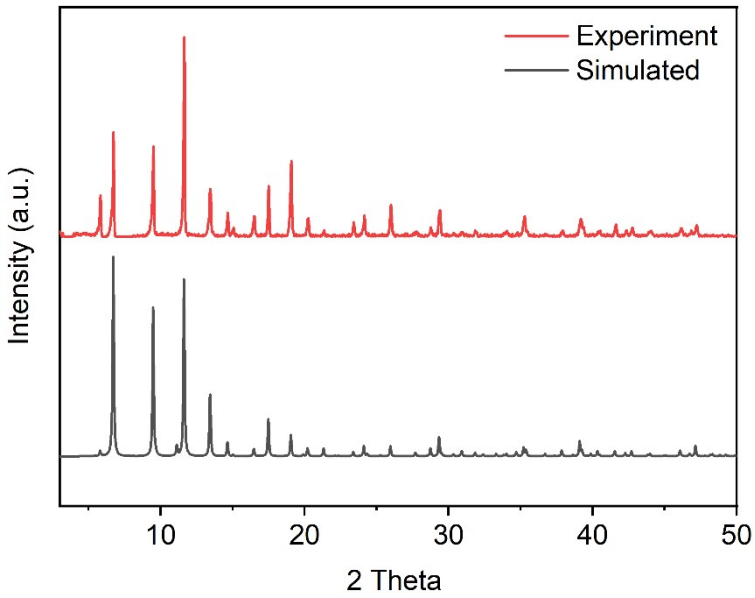

Fig. S1. PXRD patterns of HKUST-1. The synthesized (red line) and simulated one of HKUST-1 (black line).

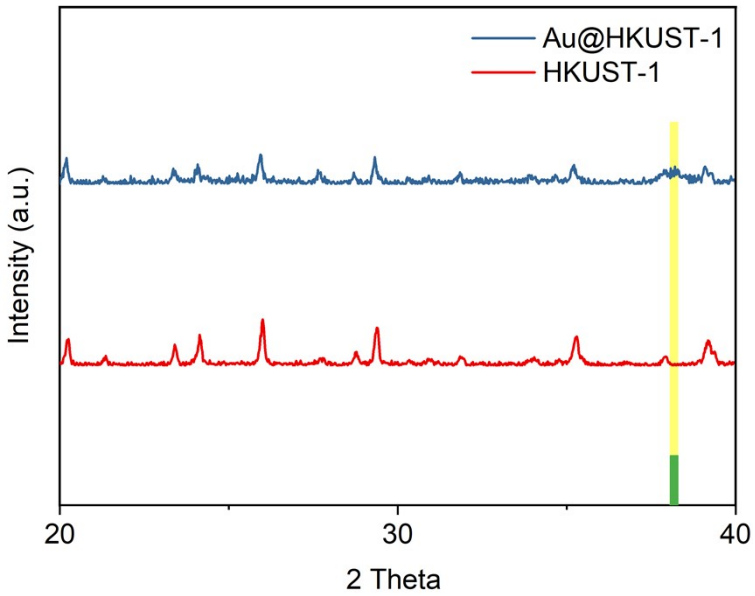

Fig. S2. Partial enlarged view of XRD patterns of HKUST-1, Au@HKUST-1 and Au.

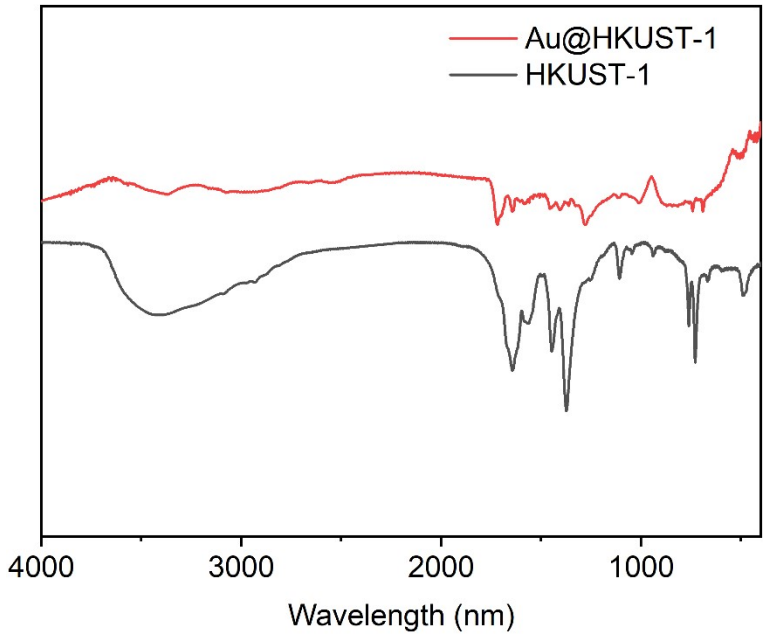

Fig. S3. FTIR spectrum of HKUST-1 and Au@HKUST-1.

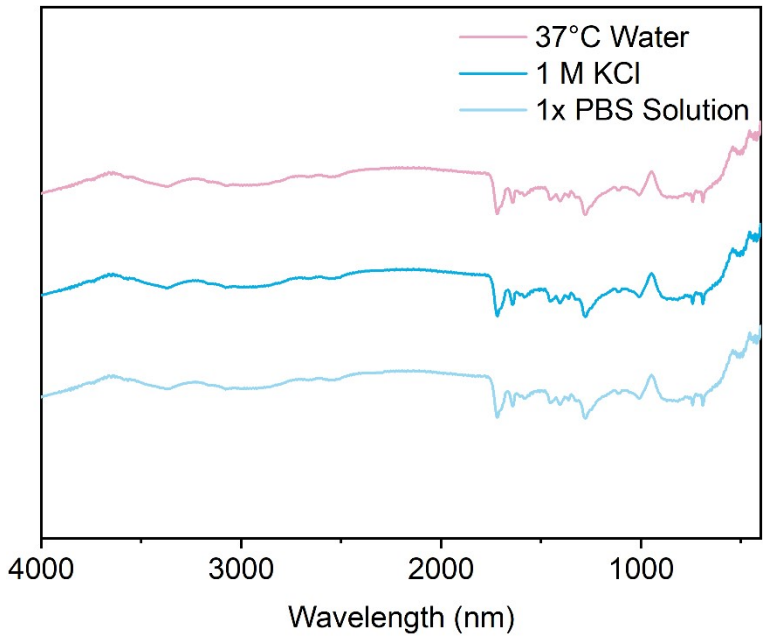

Fig. S4. FTIR spectrum of Au@HKUST-1 after soaking under different conditions.

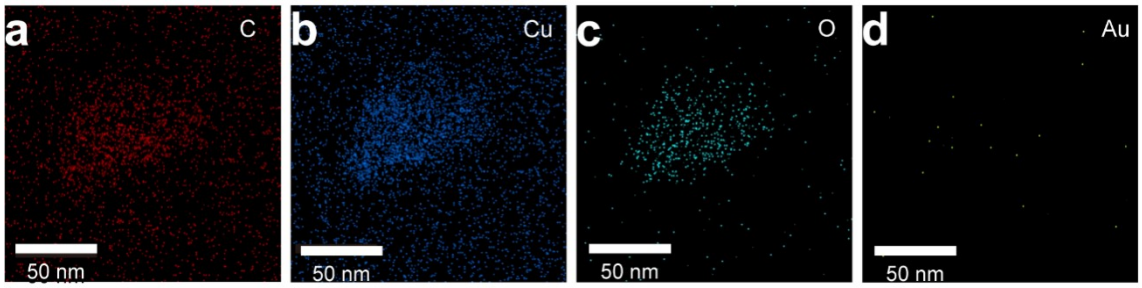

Fig. S5. The corresponding elemental mapping of HKUST-1.

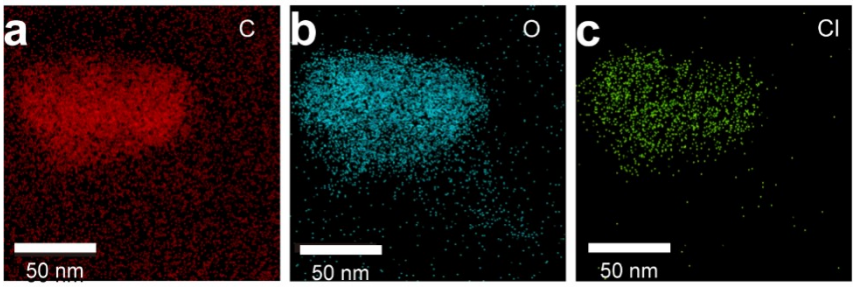

Fig. S6. The corresponding elemental mapping of Au@HKUST-1.

Supplementary Table 1. Analytical performance comparison of electrochemical sweat sensors.

Modifier	LOD(μM)	Ref.
PEDOT:PSShydrogel/CPE	1.2	[1]
BGQDs/CNTs/SPCE	0.99	[2]
LEG-CS	0.74	[3]
uricase@MAF-7/SPE	0.34	[4]
3DpCE	0.03	[5]
ZIF-8/GO@enzyme/SPCE	0.28	[6]
Tyr@ZIF-8/GO/Au	0.45	[7]
AuNR/PEDOT:PSS/C/Pt	0.85	[8]
Au@HKUST-1/GCE	DA/UA 0.10 0.15	This work

Supplementary Table 2. Determination of DA and UA in artificial saliva samples (n = 3).

Analyte	Initial(μM)	Added (μM)	Founded (μM)	Recovery	RSD
DA	10	20	29.09	95.45%	1.71
		40	51.32	103.30%	2.43
		80	88.17	98.71%	3.54
UA	10	20	32.37	102.11%	2.64
		40	49.99	99.98%	1.20
		80	88.82	98.53%	2.51

Supplementary References

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