

Supporting information

Cu(II)-Loaded Polydopamine-Coated Urchin-Like Titanate Microspheres as a High-Performance IMAC Adsorbent for Hemoglobin Separation

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Figure S1. TEM element mapping of Cu-PDA-UTMS.

Figure S2. SEM images of Na-TNT (a, b), Na-UTMS (c, d) and H-UTMS (e, f).

Figure S3. Photographs of H-UTMS (a), PDA-UTMS(b) and Cu-PDA-UTMS(c).

Figure S4. The circular dichroism (CD) of standard hemoglobin and hemoglobin solution after adsorption by the Cu-PDA-UTMS and recovery in 0.1% CTAB solution (The final hemoglobin solution is required to remove the CTAB molecule through dialysis).

Table S1. Elements content of H-UTMS, PDA-UTMS and Cu-PDA-UTMS by SEM/EDS

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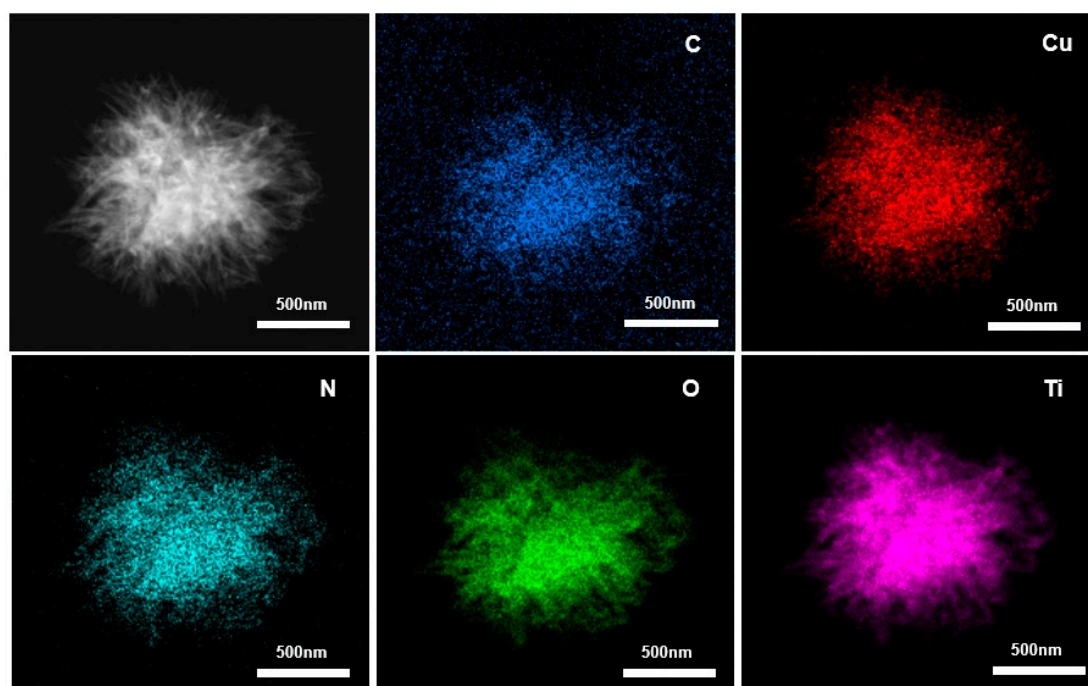


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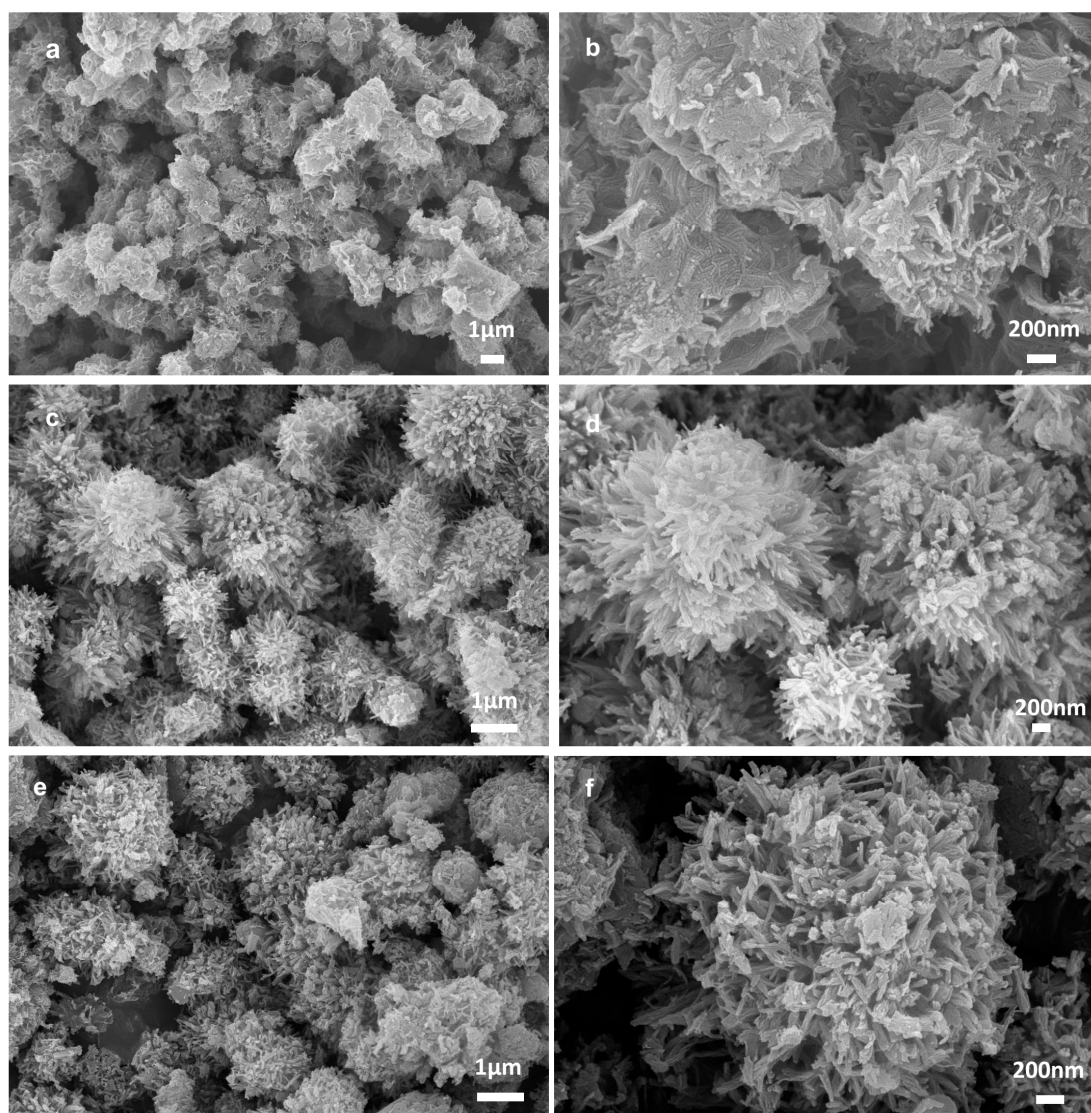


Figure S2. SEM images of Na-TNT (a, b), Na-UTMS (c, d) and H-UTMS (e, f).

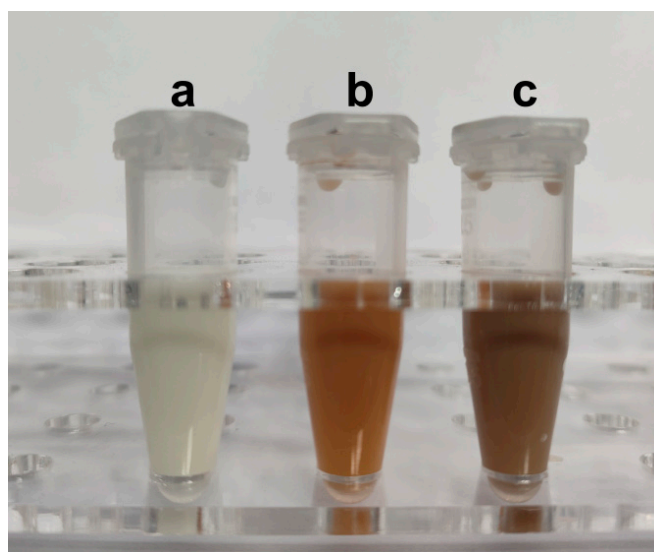


Figure S3. Photographs of H-UTMS (a), PDA-UTMS(b) and Cu-PDA-UTMS(c).

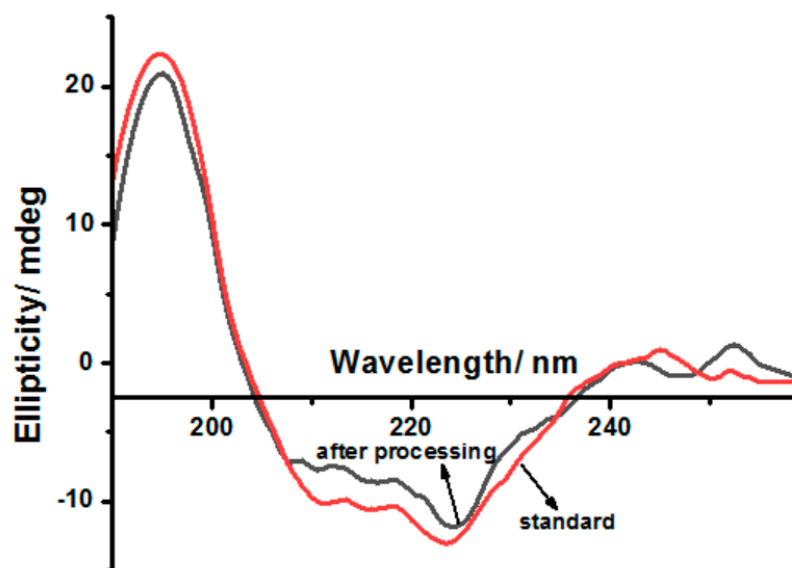


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Element	H-UTMS(Wt%)	PDA-UTMS(Wt%)	Cu-PDA-UTMS(Wt%)
Ti	35.04	19.98	11.70
C	-	31.83	41.53
N	-	0.00	0.00
O	64.96	48.19	45.26
Cu	-	-	1.51
Total	100.00	100.00	100.00