

Reusable Surface-Modified Bacterial Cellulose Based on Atom Transfer Radical Polymerization Technology with Excellent Catalytic Properties

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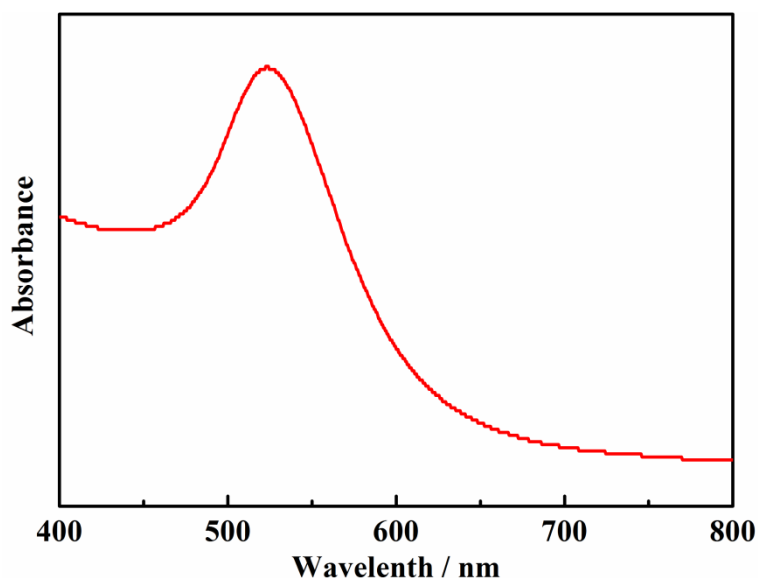


Figure S1. UV-vis spectra of synthesized AuNPs.

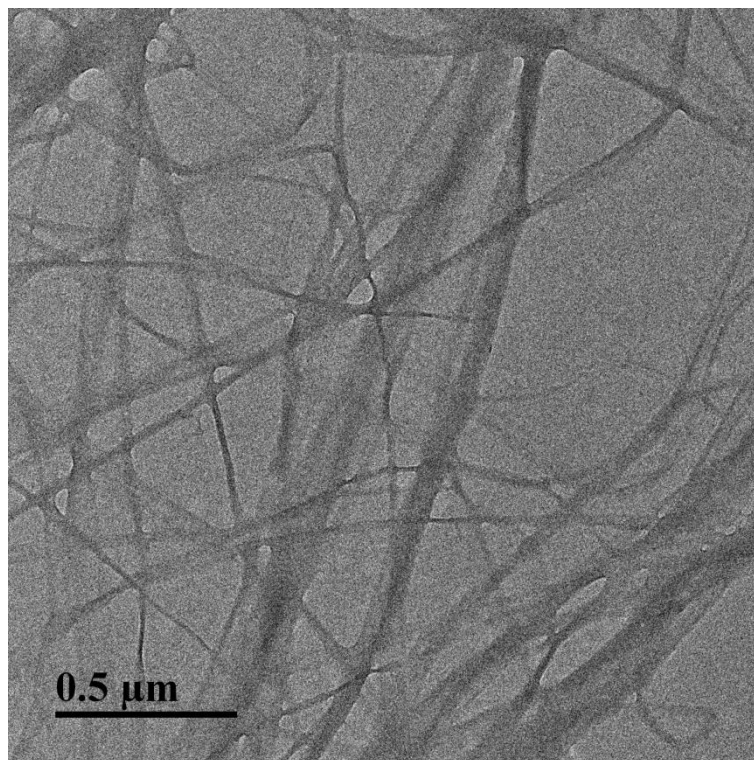


Figure S2 TEM image of pure BC

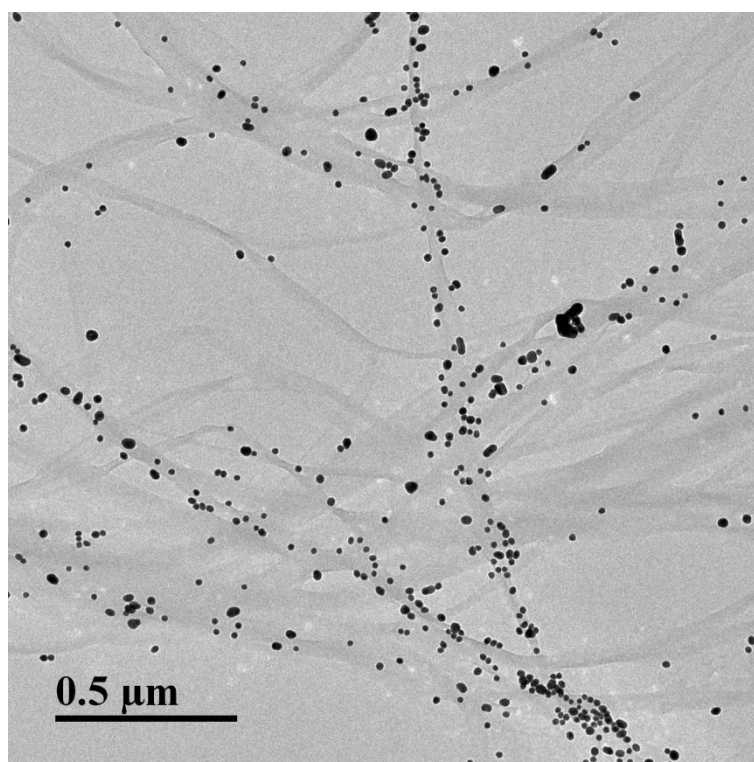


Figure S3 TEM image of AuNPs/BC

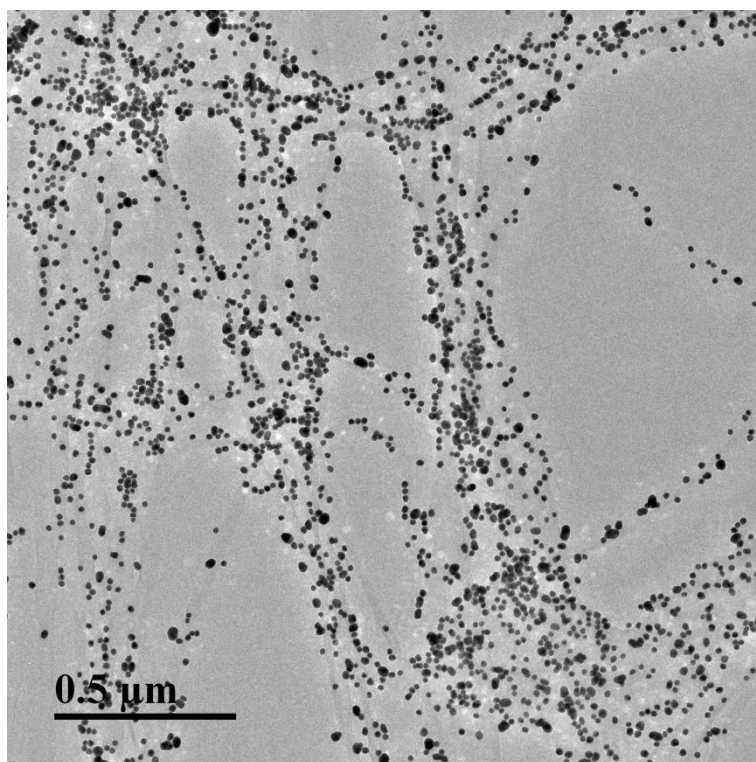


Figure S4 TEM image of Au NPs / BC-poly(HEMA) after 10 reuses

Table S1 Comparison of catalytic activity by Au based nanocatalysts for the reduction of 4-NP

Catalyst	4-NP (mM)	Size of Au (nm)	K (min ⁻¹)	Reusable time (batches)	Reference
Au/graphene hydrogel	0.093	15	1.9×10^{-1}	N/A	[1]
Polydopamine-Au	50	2.8	5.7×10^{-2}	10	[2]
Fe ₃ O ₄ @SiO ₂ -LBL-Au	0.16	4	3.4×10^{-1}	8	[3]
graphene/PDA-Au NPs	0.03	16	2.3×10^{-1}	N/A	[4]
AuNPs / BC-poly(HEMA)	50	8	9.14×10^{-2}	10	This work

Reference

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