Supporting information

Rapid Bacterial Elimination Achieved by Sonodynamic Au@Cu₂O Hybrid Nanocubes

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Figure S1. Electronic equivalent circuit used in the fitting procedure of EIS data.



Figure S2. Cell viability was measured by MTT after culturing with Cu₂O, Au(0.625)@ Cu₂O, Au(2.5)@ Cu₂O and Au(25)@ Cu₂O for 1 day. n = 3 independent experiments per group; *P < 0.05 and **P < 0.01.



Figure S3. Spread plates of RBC-Au(25)@Cu₂O and the control group under ultrasound stimulation.

Samples	$R_s(\Omega \ cm^2)$	$CPE(\mu\Omega^{-1}s^ncm^{-2})$	n	$Z_w(k\Omega \ cm^2)$
Cu ₂ O	20.57	6.12	0.86	74.41
Au(0.625)@Cu ₂ O	20.04	33.4	0.82	17.93
Au(2.5)@Cu ₂ O	32.67	534	0.65	22.8
Au(25)@Cu ₂ O	40.77	991	0.72	11.29

Table S1. Electrochemical parameters derived from EIS fitting for different samples.