Supporting Information

Synthesis and growth mechanism of Au@Cu core-shell nanorods having a high antioxidative property

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**Fig. S1.** Traditional crystal structures of Au NR prepared using CTAB.
Fig. S2. TEM image of (a) Au Nd and (b) standing Au NR in Au@Cu.
Fig. S3. (a)-(c) TEM images of Au-Cu products obtained using Cu(OAc)$_2$·H$_2$O/NaCl at 3, 6, and 9 h, respectively. (d) EDS image obtained at 3 h.
Fig. S4. SPR band of Au@Cu NRs obtained just after synthesis and after 170 days.