

supporting information

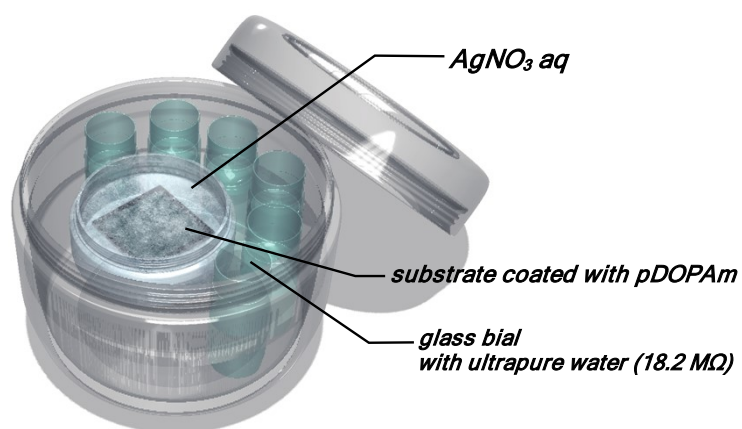


Figure S1. Method of thermally annealing in AgNO_3 .

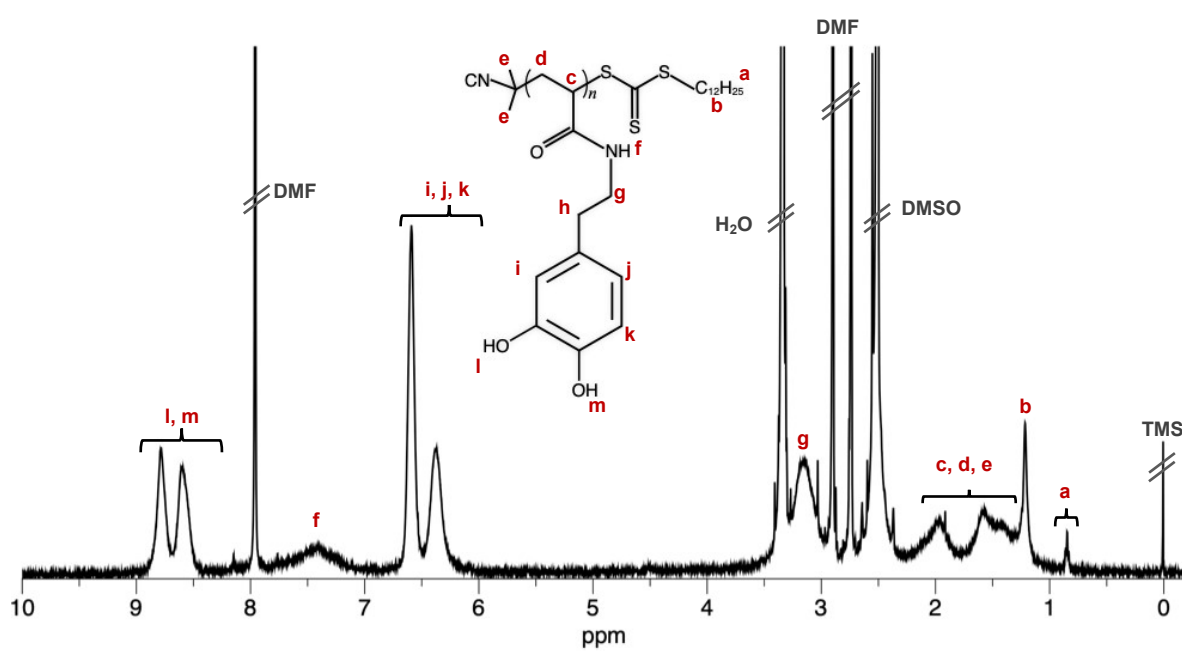


Figure S2. ^1H NMR spectra of pDOPAm in $\text{DMSO-}d_6$.

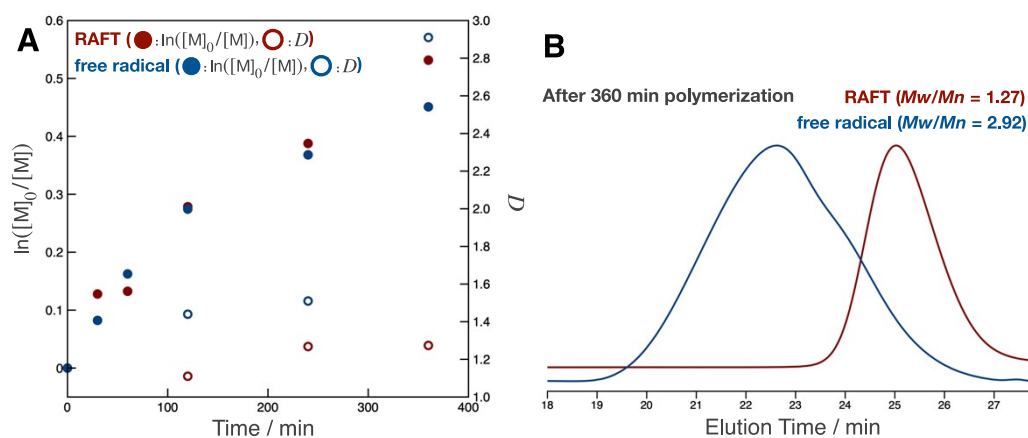


Figure S3. A: Conversion and molecular weight dispersity (M_w/M_n) of dopamine acrylamide via free radical polymerization and reversible addition-fragmentation chain transfer polymerization vs. polymerization time. **B:** GPC traces of pDOPAm free radical polymerization and RAFT polymerization after 360 min.

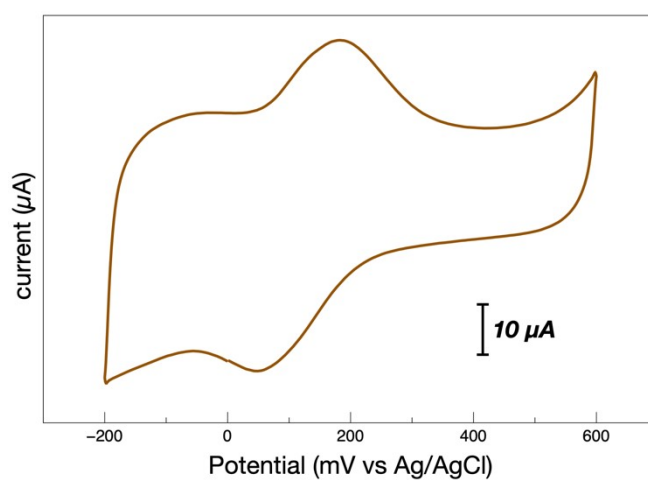


Figure S4. The cyclic voltammogram of pDOPAm in 0.1 M phosphate buffer at pH = 8 with a scan rate of 100 mV.

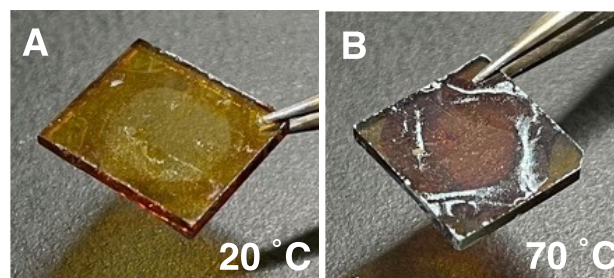


Figure S5. Images of pDOPAm thin films after 24 h of electroless deposition of silver at 20 °C (A) and 70 °C (B).

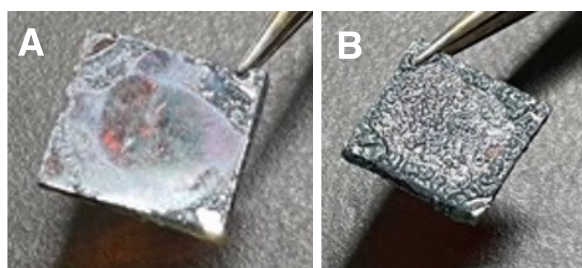


Figure S6. Images of pDOPAm thin films after 24 h of electroless deposition of silver. The film thickness 200 nm (A) and 300 nm (B).