

Supporting Information

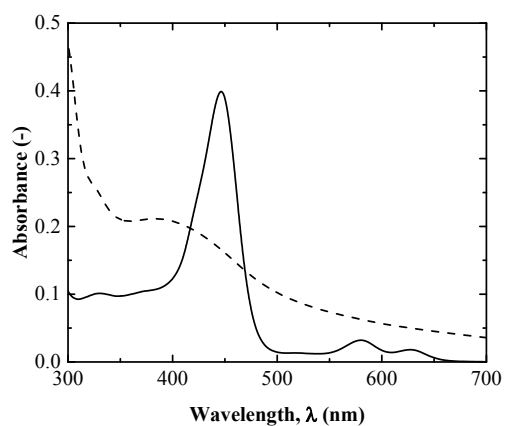


Fig. S1. UV-Vis absorption spectra of CoNS colloidal aqueous suspension (broken line) and TMPyP aqueous solution (solid line).

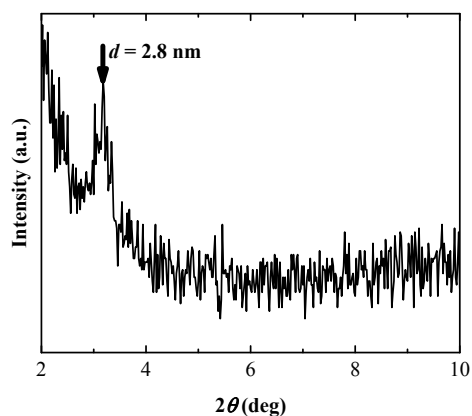


Fig. S2. XRD pattern of the LbL thin solid film with CoNS/TMPyP/CoNS sequence.

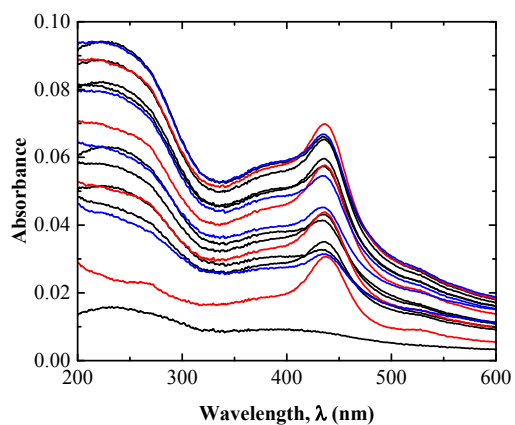


Fig. S3. UV-Vis absorption spectra of LbL thin solid film obtained after each operation (black lines: CoNS, red lines: TMPyP, and blue lines: MV).

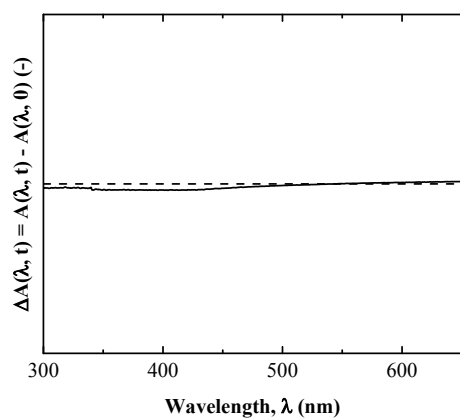


Fig. S4. UV-Vis differential spectrum after keeping irradiated LbL thin solid film in dark for 1 h under ambient atmosphere.