**Synthesis of Lignin-based covalent organic frameworks bio-composites: Quantitative evaluation of adsorption-photoreduction of hexavalent chromium**

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 Fig. S1 DMPO-e- (a), DMPO-▪OH (b), TEMP-1O2 (c), and DMPO-▪O2- (d) spectra of TpPa-SO3H and TpPa-SO3H/Lignin under illumination for 10 min.



Fig. S2 High resolution XPS spectra of O1s peak of TpPa-SO3H (a) and TpPa-SO3H/lignin (b) and high resolution XPS spectra of N1s peak of TpPa-SO3H (c) and TpPa-SO3H/lignin (d).