

Fig. S1 Valence-band XPS spectra of Pd/BOC and Pd/3PEI/BOC.

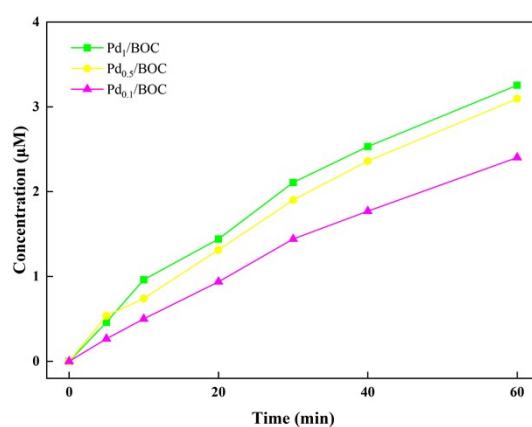


Fig. S2 Photocatalytic activity for Pd_{0.1}/BOC, Pd_{0.5}/BOC and Pd_{1.0}/BOC.

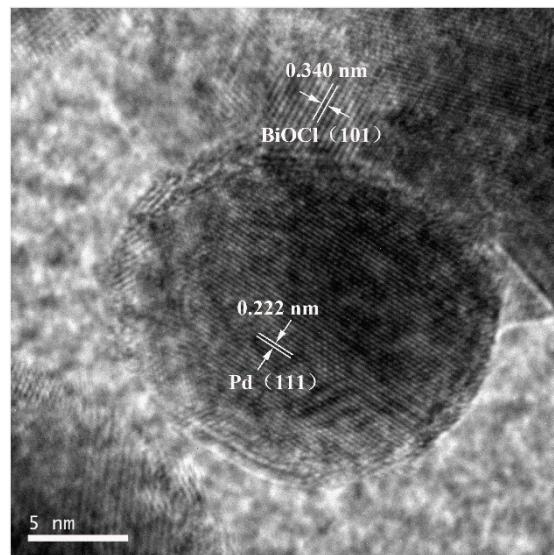


Fig. S3 HRTEM image of Pd/BOC.

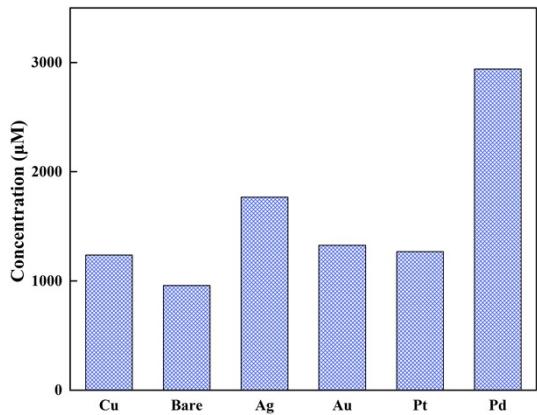


Fig. S4 Photocatalytic activity of metal species (0.5 wt%) loaded on BiOCl.

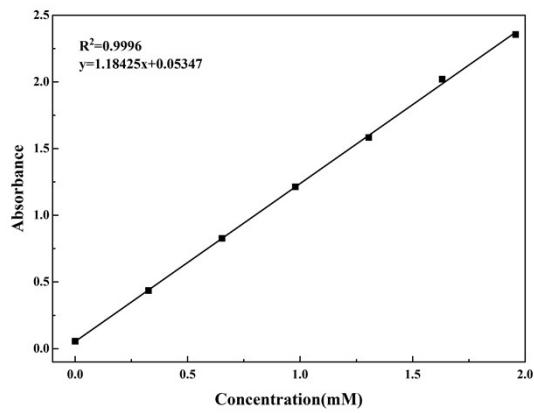


Fig. S5 The linear fitting formula of standard H_2O_2 concentration.

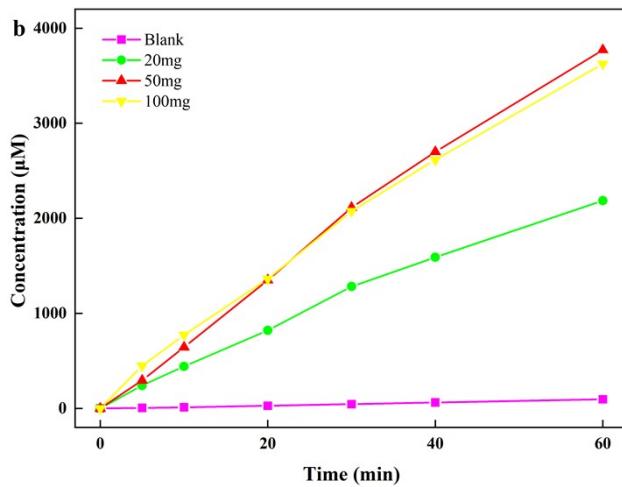


Fig. S6 Photocatalytic H_2O_2 production with different masses of Pd/3PEI/BOC.