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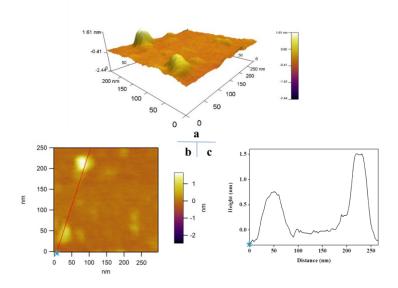


Fig. S1 AFM images and corresponding height profiles of G-h-BN

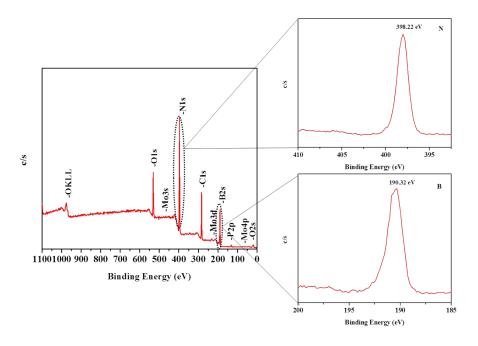


Fig.S2 XPS spectra of 20% PMo IL/G-h-BN

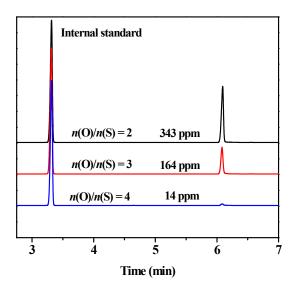


Fig. S3 Effects of the amount of  $H_2O_2$  on sulfur removal

Reaction condition:  $T = 60^{\circ}$ C; V(oil) = 5 mL; m(catalyst) = 0.05 g; t = 80 min