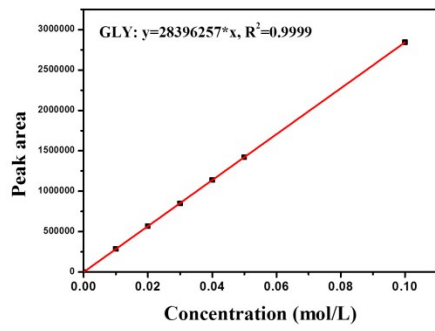


## Supplementary information

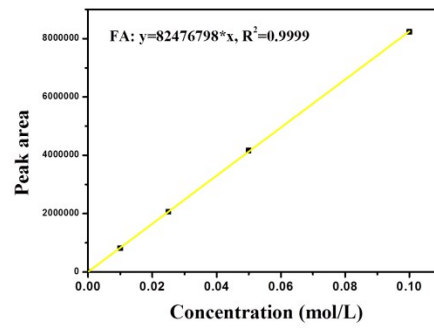
### **Efficiently selective oxidation of glycerol by Bi<sub>QDs</sub>/BiOBr- O<sub>v</sub>: Promotion of molecular oxygen activation by Bi quantum dot and oxygen vacancy**

Chengguang Yue, Chenhao Li, Pingbo Zhang,\* Mingming Fan,\* Agus Haryono, Yan Leng,  
Yuming Dong and Pingping Jiang

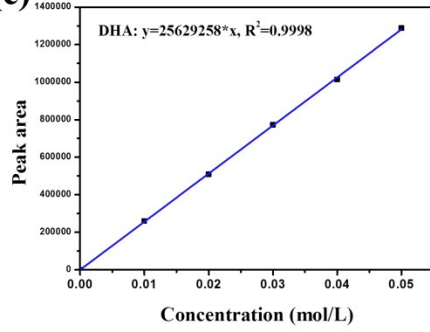
(a)



(b)



(c)



(d)

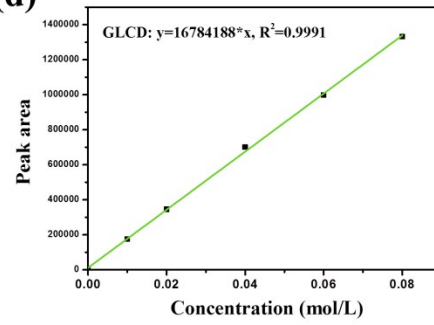


Fig. S1 Standard curves of glycerol and oxidation products

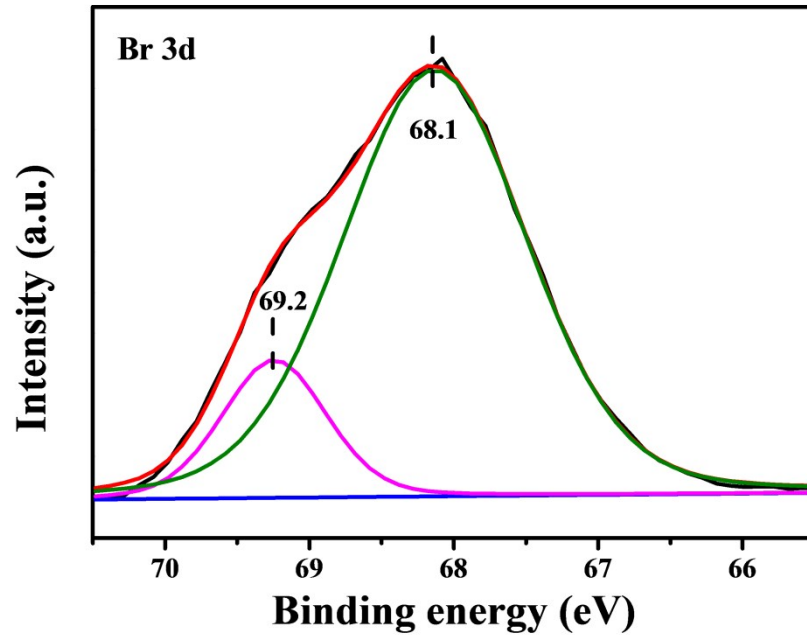


Fig. S2 XPS spectrum of Br in Bi<sub>QDs</sub>/BiOBr-O<sub>v</sub>