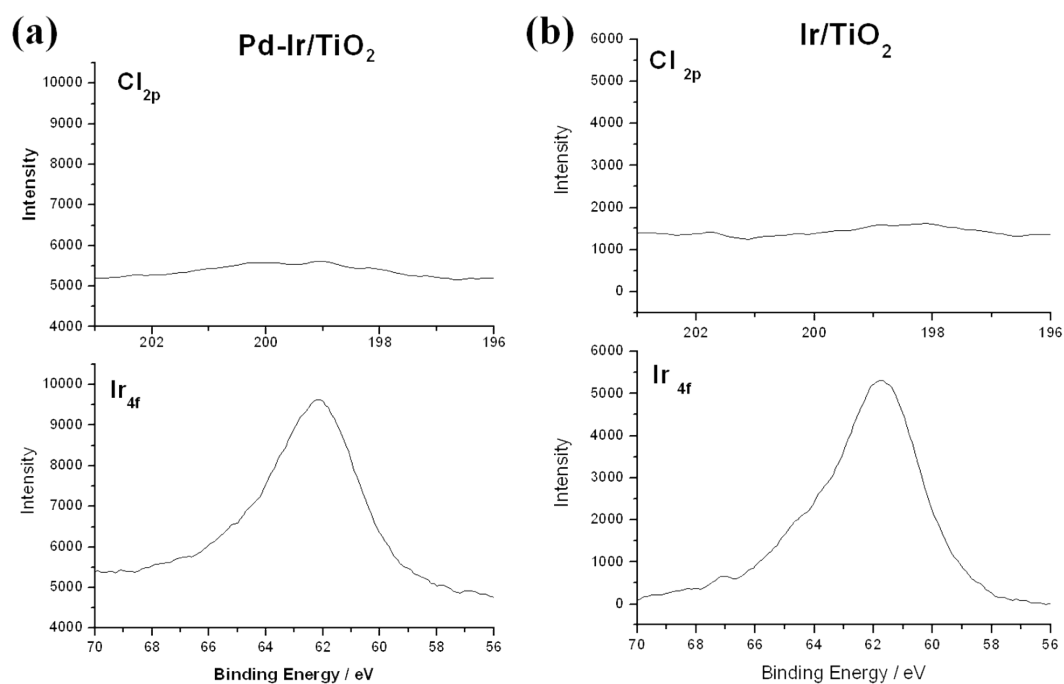


## Supporting Information for

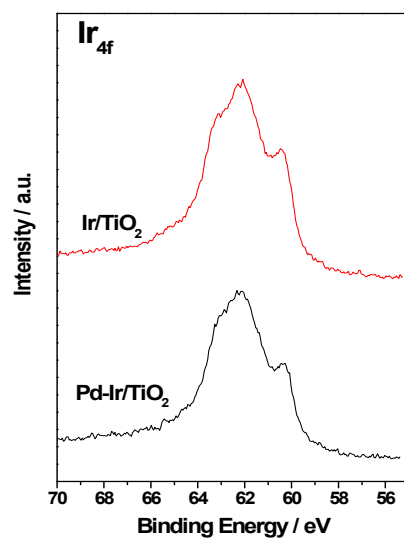
Synergetic effect of dual cocatalysts in photocatalytic H<sub>2</sub> production on

Pd-IrO<sub>x</sub>/TiO<sub>2</sub>: a new insight into dual cocatalyst location

Yi Ma, Ruifeng Chong, Fuxiang Zhang, Qian Xu, Shuai Shen, Hongxian Han and Can Li



**Fig. S1** Cl<sub>2p</sub> XPS of (a) Pd-Ir/TiO<sub>2</sub> and (b) Ir/TiO<sub>2</sub> with Ir<sub>4f</sub> XPS as comparison.



**Fig. S2** Ir<sub>4f</sub> XPS of Ir/TiO<sub>2</sub> and Pd-Ir/TiO<sub>2</sub> after the reactions.