

## Electronic Supplementary Information

### Enhanced photocatalytic hydrogen evolution performance based on

### Ru-tris(dicarboxybipyridine)-reduced graphene oxide hybrid

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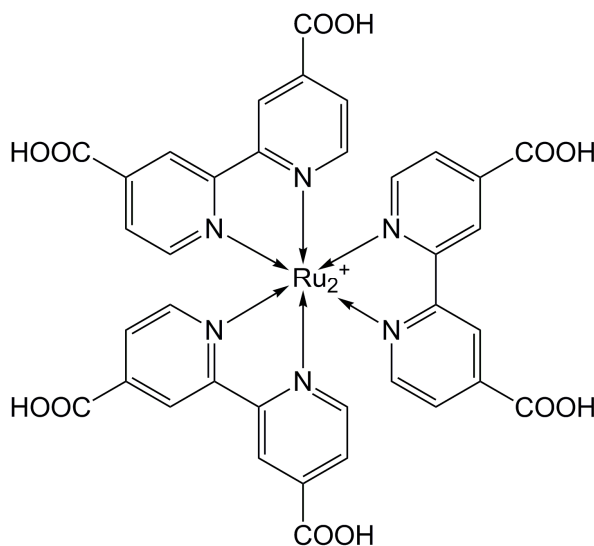


Fig. S1 The molecular structure of the Ru(dcbpy)<sub>3</sub>.

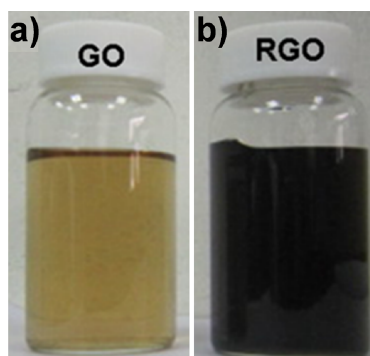
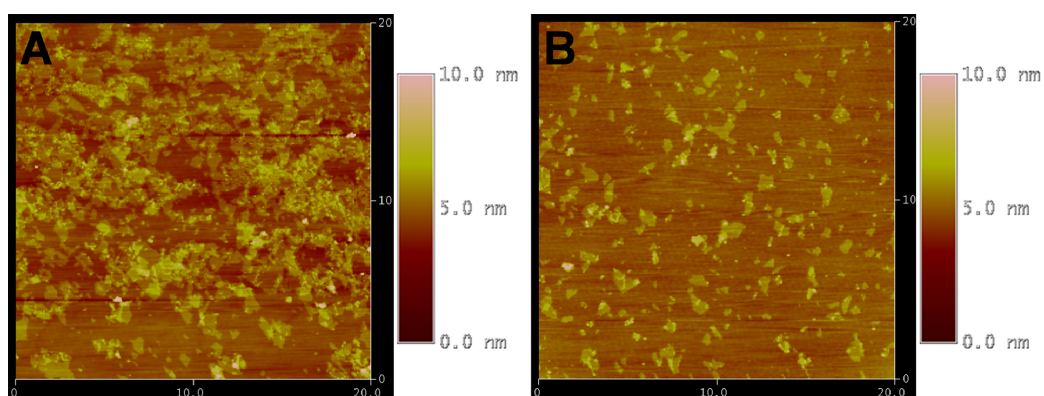
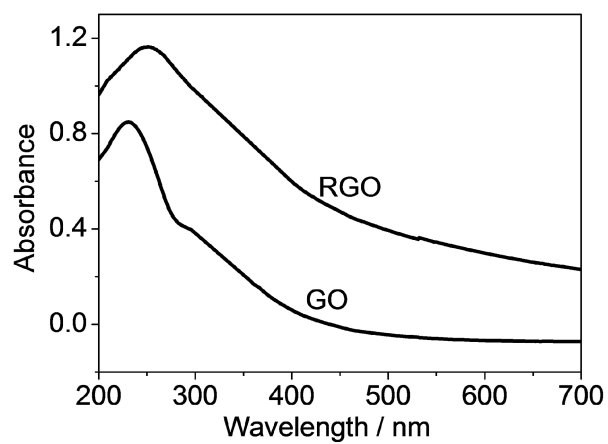


Fig. S2 The photographs of GO (a) and RGO (b) nanosheets suspensions.



**Fig. S3** AFM images of the RGO nanosheets with different concentration. A: 1 mg mL<sup>-1</sup>; B: 0.2 mg mL<sup>-1</sup>, images area: 20 μm.



**Fig. S4** The UV-vis spectra of GO and RGO nanosheets in the aqueous solutions.