Facile synthesis of visible-light-driven Cu2O/BiVO4 composites for the photomineralization of recalcitrant pesticides

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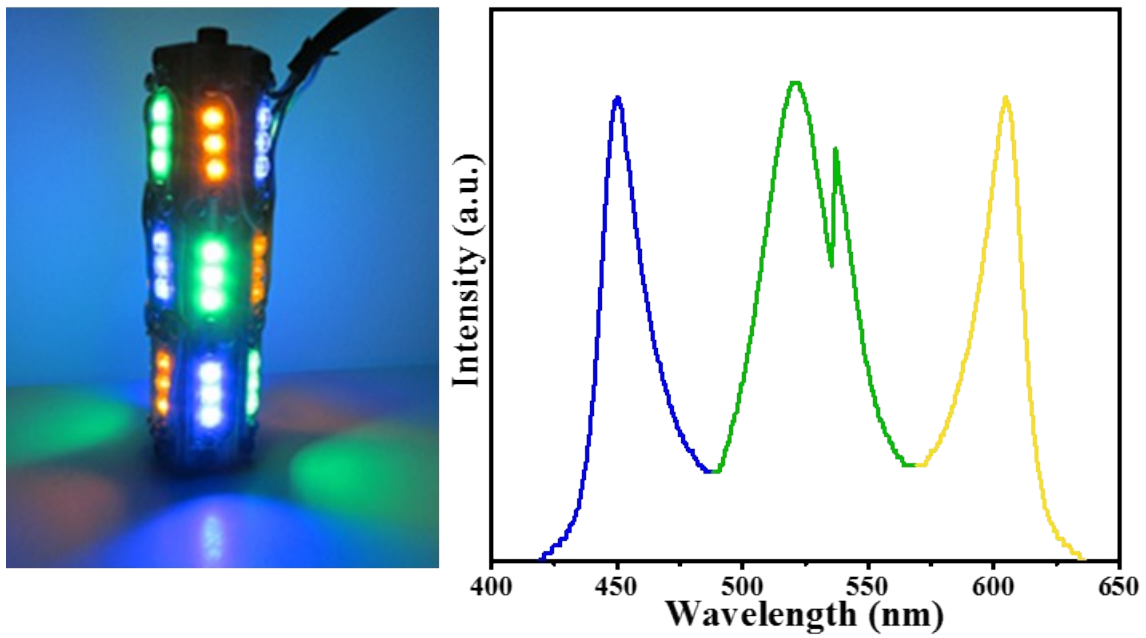**[4]Universitat Autònoma de Barcelona, Department de Química, 08193 Cerdanyola del Vallès, SPAIN.**

Fig. S1. LED lamp used for the photocatalytic experiments and emission spectrum of the LED source.
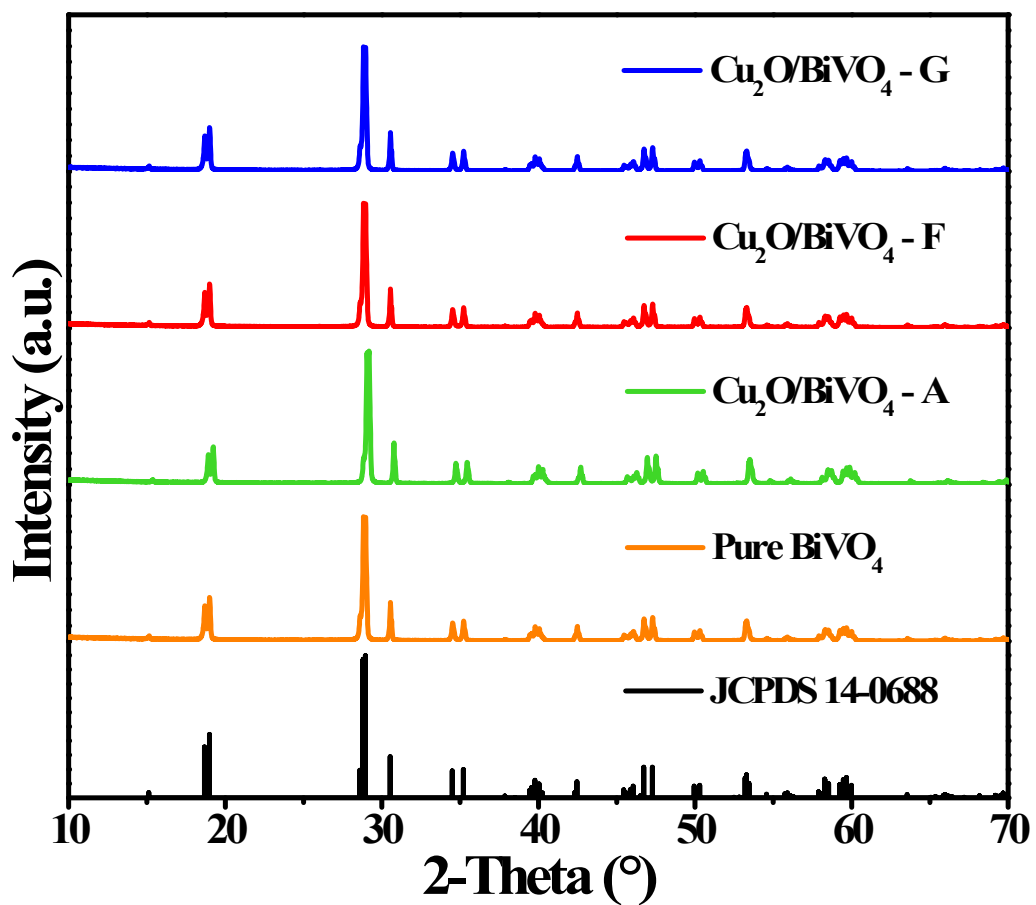
Fig. S2. XRD patterns of the $Cu_2O/BiVO_4$ composites synthetized by an impregnation method.
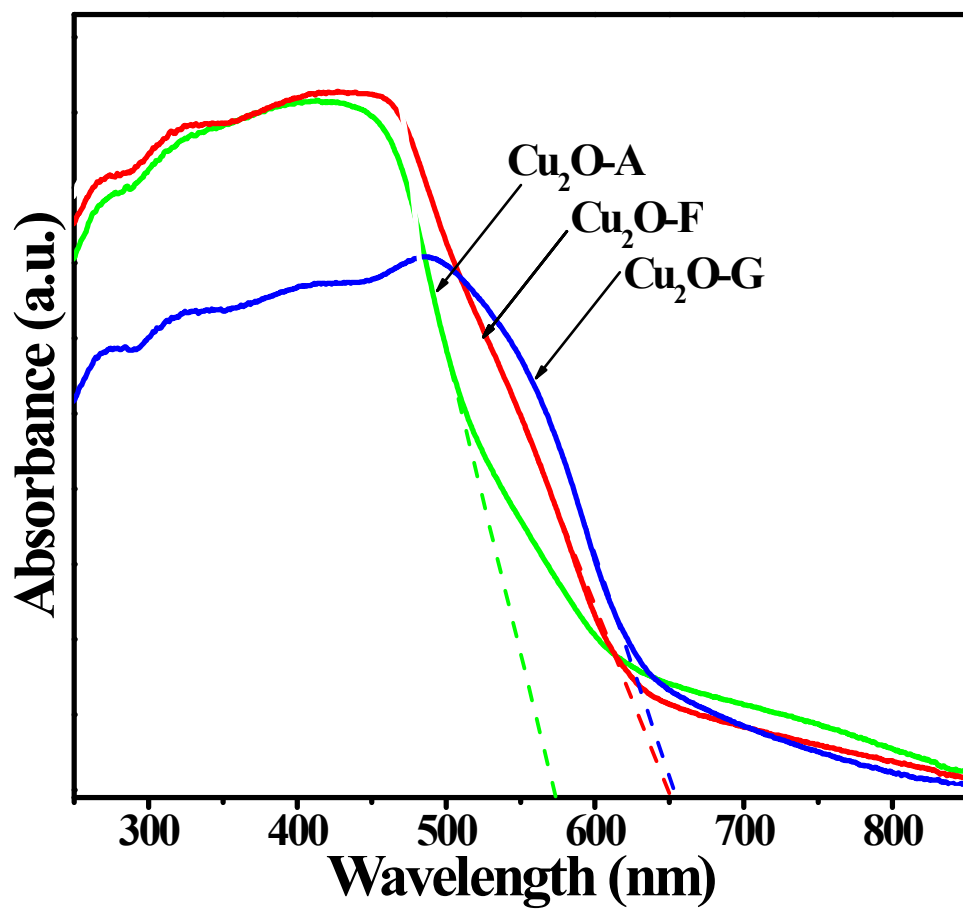
Fig. S3. DRS UV-Vis spectra of the as-synthesized Cu_2O powders using different reducing reagents.
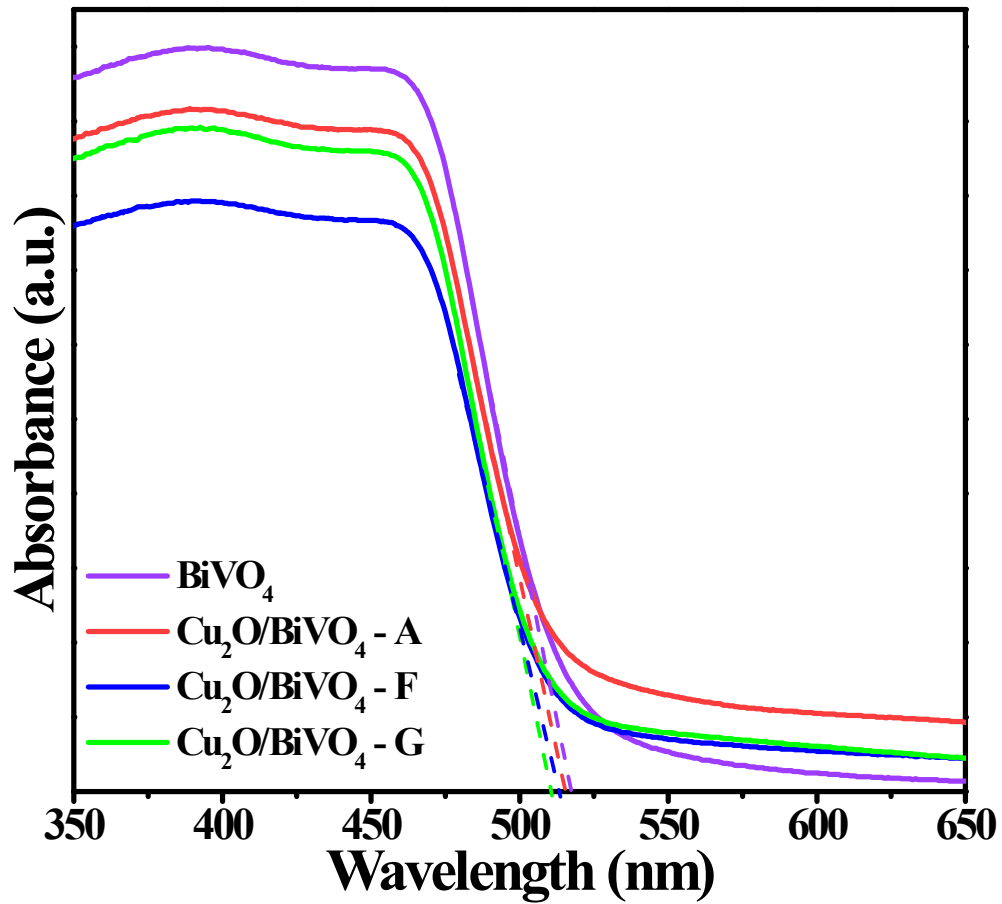
Fig. S4. DRS UV-Vis spectra of the of the $Cu_2O/BiVO_4$ composites synthetized by an impregnation method.
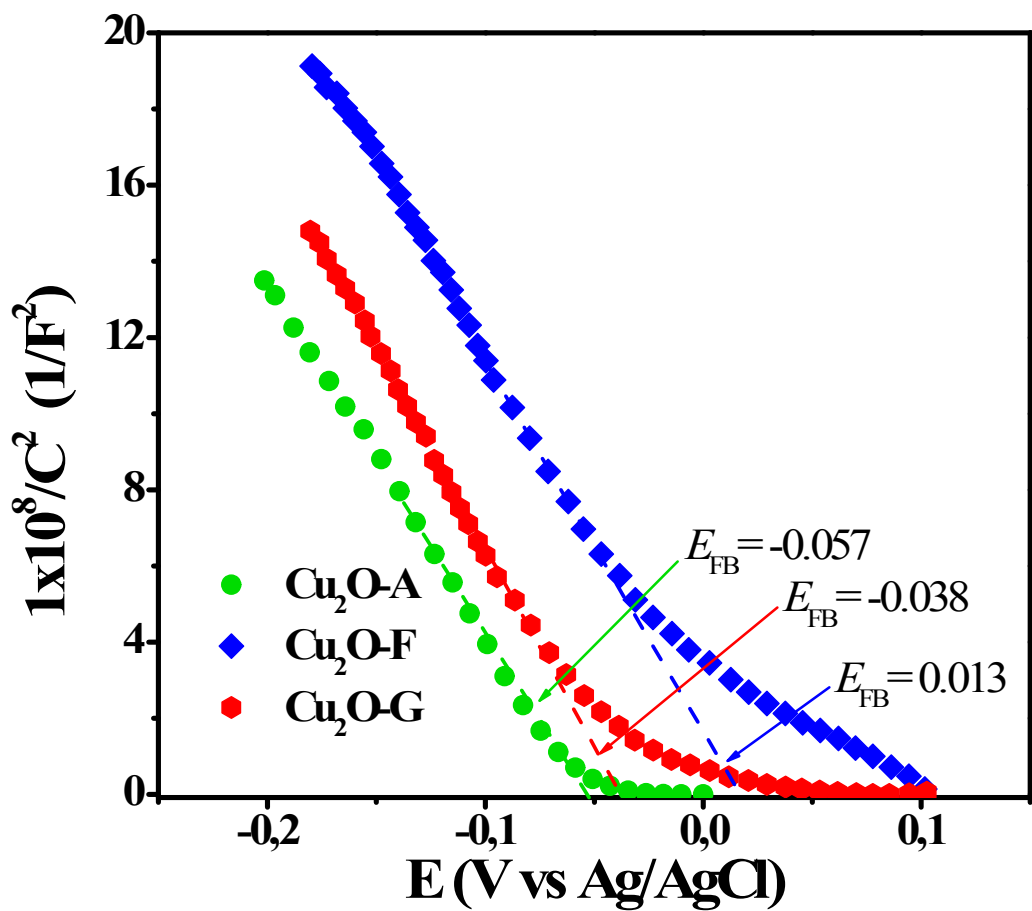
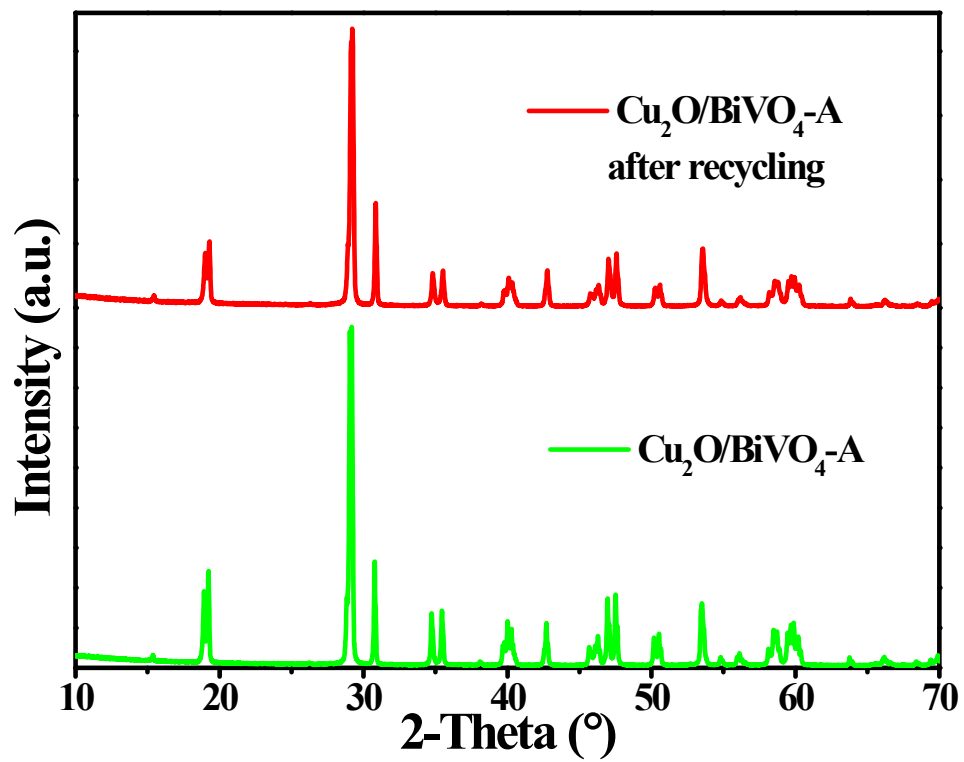**Fig. S5.** Mott-Schottky plots of the pure as-synthetized Cu_2O samples.

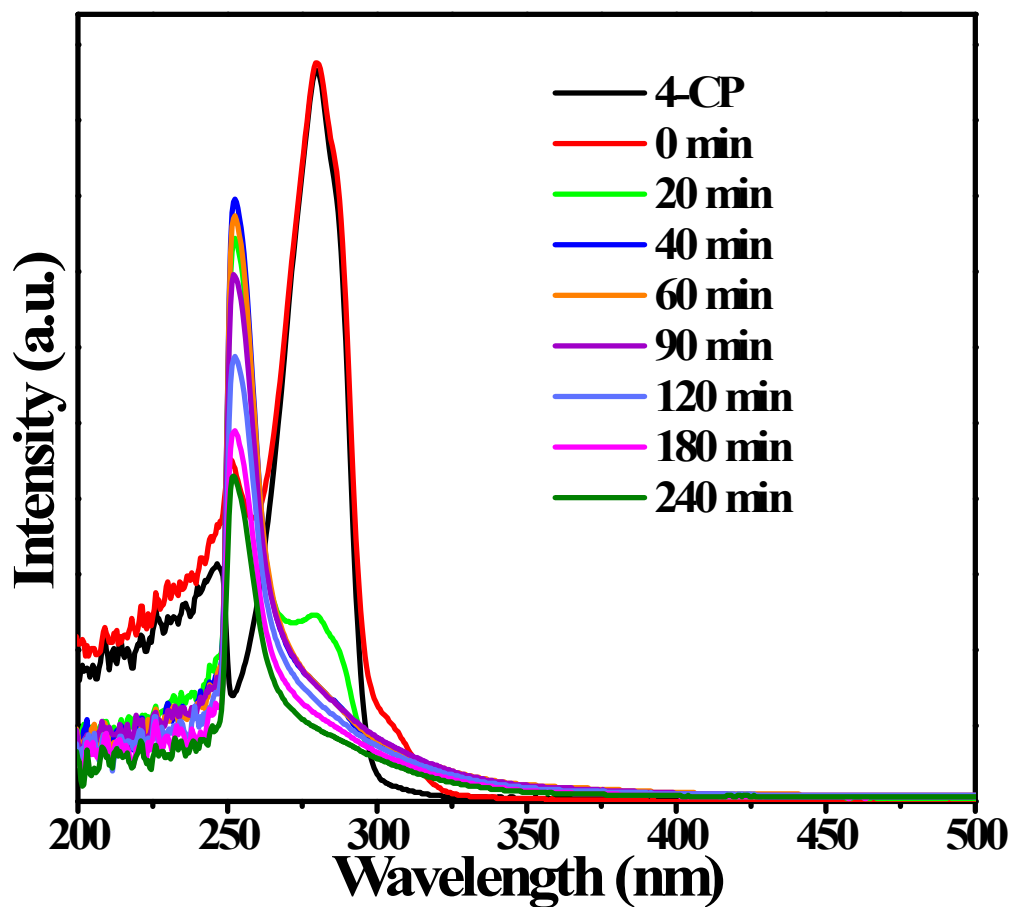**Fig. S6.** XRD patterns of the $Cu_2O/BiVO_4$ composites before and after three continuous cycles of photocatalytic tests.

Fig. S7. Experimental UV-Vis spectra collected during the course of 4-CP degradation during 240 min. 25 mg·L^{-1} of 4-CP initial concentration and 5 g·L^{-1} of Cu$_2$O/BiVO$_4$-A as photocatalyst were used in the experiments. The system was initially maintained in the dark during 60 min (t = 0).