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Fig. S1. The CEL-SPH2N system for photocatalytic performance tests

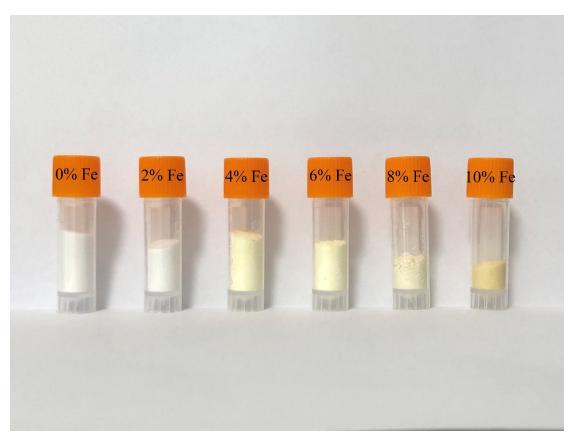


Fig. S2. The photograph of bare Ga-PKU-1 and Ga-PKU-1: $xFe^{3+}$  (x =

 $0.02 \sim 0.10$ ) samples taken with a digital camera

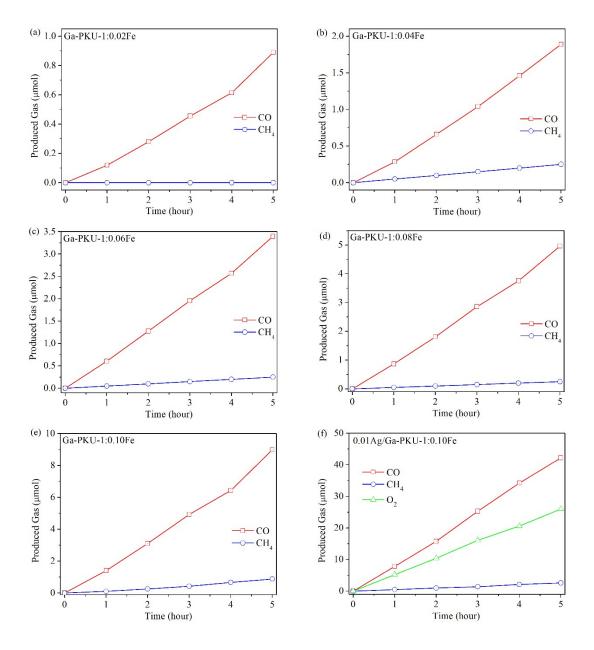


Fig. S3. (a)-(e) The yields of reduction and oxidation products over Ga-PKU-1:xFe<sup>3+</sup> samples ( $x = 0.02 \sim 0.10$ ); (f) The yields of reduction and oxidation products over 0.01Ag/Ga-PKU-1:0.10Fe<sup>3+</sup> sample.