

CuO, Co₃O₄, BiVO₄ CO₂ Photocatalytic conversion of carbon dioxide using CuO, Co₃O₄, BiVO₄ nanoparticles

_____, _____, _____, _____, _____

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CuO, Co₃O₄, BiVO₄

CO₂

media

hole scavenger

NaH₂PO₂

blank test

, blank test

460~ 490nm

LED

150W

solar simulator(K101 LAB20, K401 CW150)

sample

GC(Model

HP -5890, HEWLETT PACKARD)

CH₄

, HPLC(AT -3000,

NS2001P,

FUTECS, Lambda 1010, BISCHOFF)

HCOOH HCHO