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High-efficient and low-cost H₂ production by solar-driven photo-thermo-reforming of methanol with CuO catalyst

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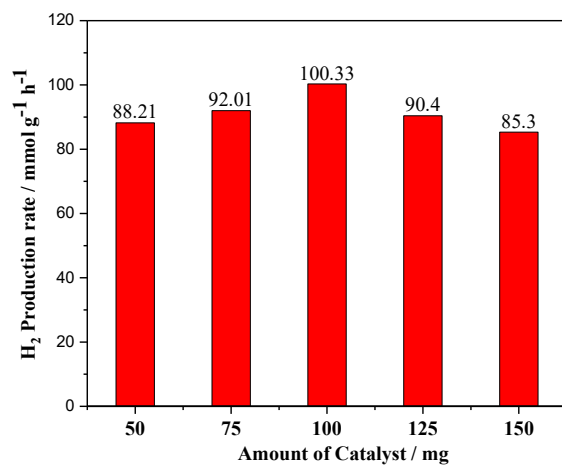


Fig. S1 Influence of amount of catalyst on hydrogen production rate.

Table S1. Activities over the representative catalytic systems for methanol-reforming reaction.

Catalysts	Reaction System	H ₂ Production Rate / mmol g ⁻¹ h ⁻¹	Temperature/°C
Cu-Zn-Ti ^[1]	Photo-assistance thermal catalytic	50	200
SnOx-TiO ₂ ^[2]	Photo-reforming	1.34	room
Pt/SrTiO ₃ ^[3]	Photothermo catalytic	2	150

Table S2. Activities over the representative different Catalyst for methanol-reforming reaction.

Catalysts	H ₂ Production Rate / mmol g ⁻¹ h ⁻¹	Temperature / °C
C ₃ N ₄ ^[4]	2.1	room
Pt/SrTiO ₃ ^[3]	2.0	150
PtOx-SnOx-TiO ₂ ^[5]	2.0	room
CuO/this article	100.33	220

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