

Electronic Supplementary Information (ESI):

Facile Microwave-assisted Synthesis and Effective Photocatalytic Hydrogen Generation of Zn_2GeO_4 with different morphology

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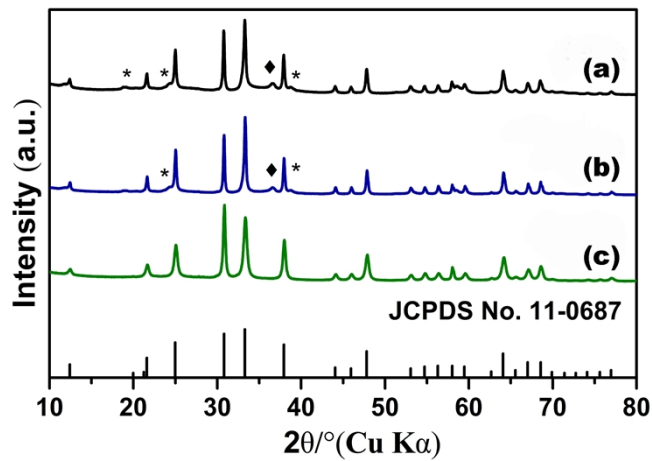


Fig.S1 XRD pattern of Zn₂GeO₄ nanorods at different reaction temperatures: (a) 100 °C, (b) 120 °C and (c) 140 °C, *:Zn(OH)₂; ◆:GeO₂.

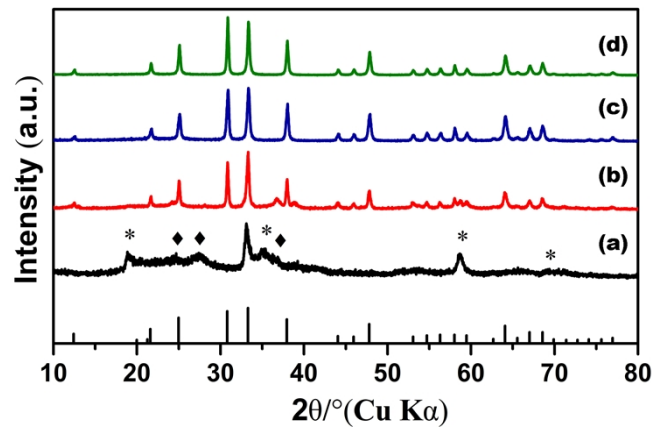


Fig.S2 XRD pattern of Zn₂GeO₄ microspheres at different reaction temperatures: (a) 100 °C, (b) 120 °C, (c) 140 °C and (d) 170 °C.

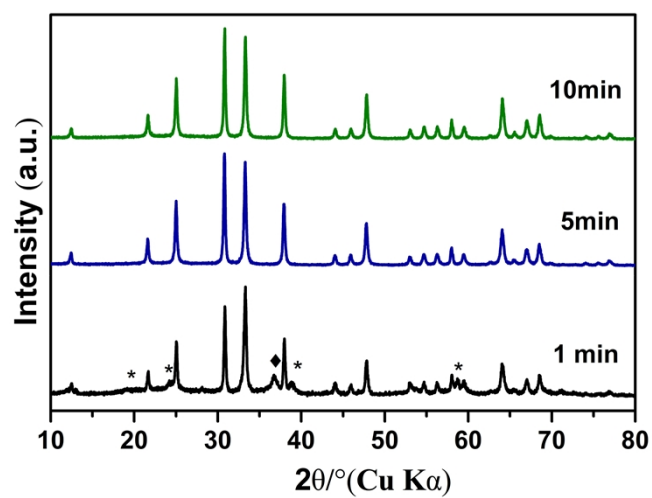


Fig.S3 XRD pattern of Zn₂GeO₄ microspheres 170 °C with different reaction times.

Table S1 Hydrogen evolution rate of some recently-reported a methanol-water solution under exposure to UV light

Catalyst	H ₂ evolution rate (mmol g ⁻¹ h ⁻¹)	ref
Zn ₂ GeO ₄ nanorods	6.24	This work
Zn ₂ GeO ₄ microspheres	3.76	This work
Zn ₂ GeO ₄ bundles	4.90	<i>J. Mater. Chem. A</i> , 2013, 1, 7798
Hexagonal Zn ₂ GeO ₄ nanorods	6.00	<i>Inorg. Chem.</i> 2013, 52, 6916
Zn ₂ GeO ₄ hollow spheres	6.23	<i>J. Mater. Chem. A</i> , 2013, 1, 10622