

**Electronic Supplementary Information**

**Foaming-assisted Electrospinning of Large-pore Mesoporous ZnO Nanofibers  
with Tailored Structures and Enhanced Photocatalytic Activity**

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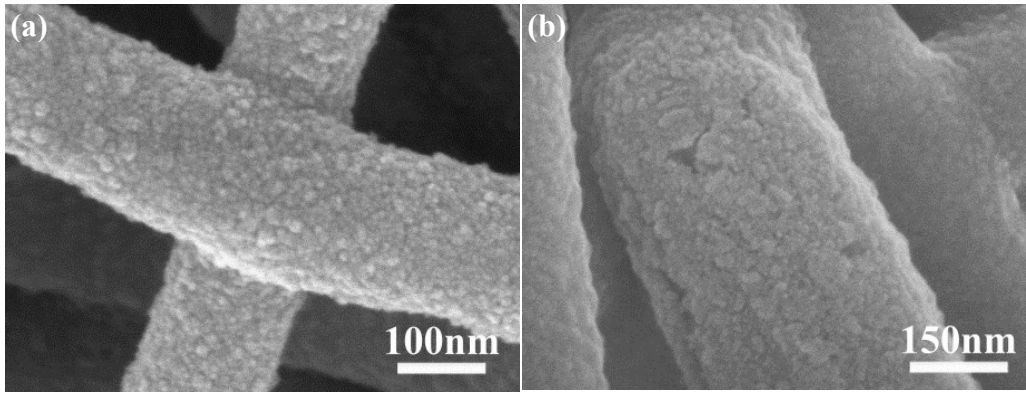
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**Table S1** Physical properties of the as-obtained samples.

<i>Samples</i>	<i>Average pore size</i> <i>(nm)</i>	<i>Pore volume</i> <i>(cm<sup>3</sup>/g)</i>	<i>S<sub>BET</sub></i> <i>(m<sup>2</sup>/g)</i>
A	32.9	0.068	8.23
B	35.6	0.089	9.99
C	33.9	0.098	11.6
D	34.6	0.107	12.6
E	28.1	0.066	9.44



**Fig. S1** High magnification SEM images of the large-pore mesoporous precursor ZnO nanofibers calcined at 300 °C for 0.5 h.

**Table S2** Comparison of the related works for photocatalytic H<sub>2</sub> production

<i>Material</i>	<i>Preparation</i>	<i>Morphology</i>	<i>Irradiation conditions</i>	<i>Reaction solution</i>	<i>Activity (μmol g<sup>-1</sup>h<sup>-1</sup>)</i>	<i>Reference (year)</i>
<b>ZnO</b>	hydrothermal	nanorods	10.8 mW/cm <sup>2</sup> Hg	Water+MeOH	120	1
<b>ZnO/B</b>	thermal	nanoparticles	500 W Xe	Na <sub>2</sub> S+Na <sub>2</sub> SO <sub>3</sub>	577	2
<b>ZnO/CuS</b>	—	nanoparticles	500 W Xe	Na <sub>2</sub> S+Na <sub>2</sub> SO <sub>3</sub>	727	3
<b>ZnO/ZnS</b>	thermal	nanoparticles	150W Xe	Na <sub>2</sub> S	495	4
<b>ZnO/SnO<sub>2-x</sub></b>	hydrothermal	nanoparticles	300 W Xe	Na <sub>2</sub> S+Na <sub>2</sub> SO <sub>3</sub>	183	5
<b>(ZnO)<sub>1</sub>/(CdS)<sub>1</sub></b>	electrospinning	nanofibers	500 W Xe (visible)	Na <sub>2</sub> S+Na <sub>2</sub> SO <sub>3</sub>	354	6
<b>ZnO</b>	electrospinning	nanofibers	300 W Xe	Na <sub>2</sub> S+Na <sub>2</sub> SO <sub>3</sub>	644	Current work
<b>ZnO</b>	electrospinning	mesoporous nanofibers	300 W Xe	Na <sub>2</sub> S+Na <sub>2</sub> SO <sub>3</sub>	791	Current work

### References

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