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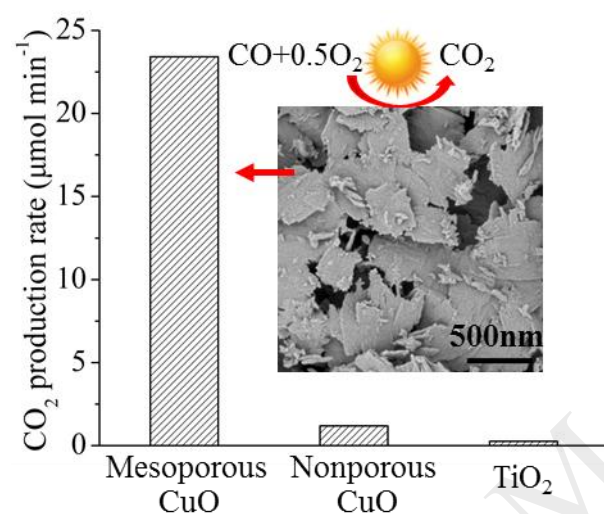
# Novel photoactivation promotes catalytic abatement of CO on CuO mesoporous nanosheets with full solar spectrum illumination

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Graphical abstract:



## Highlights

- Novel CuO mesoporous nanosheets (CuO-MNS) are prepared by facile method
- CuO-MNS exhibits much higher thermocatalytic activity than nonporous CuO
- CuO-MNS has highly effective catalytic activity under UV-Vis-IR or IR illumination
- We find a novel photoactivation to improve the solar-light-driven thermocatalytic activity
- We reveal the origin of the enhanced thermocatalytic activity and the novel photoactivation

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