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### ACCEPTED MANUSCRIPT

## Al<sub>2</sub>O<sub>3</sub> support triggering highly efficient photoreduction of CO<sub>2</sub> with H<sub>2</sub>O on noblemetal-free CdS/Ni<sub>9</sub>S<sub>8</sub>/Al<sub>2</sub>O<sub>3</sub>

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#### **Graphical Abstract**

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