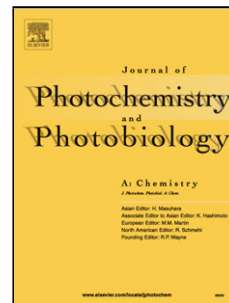


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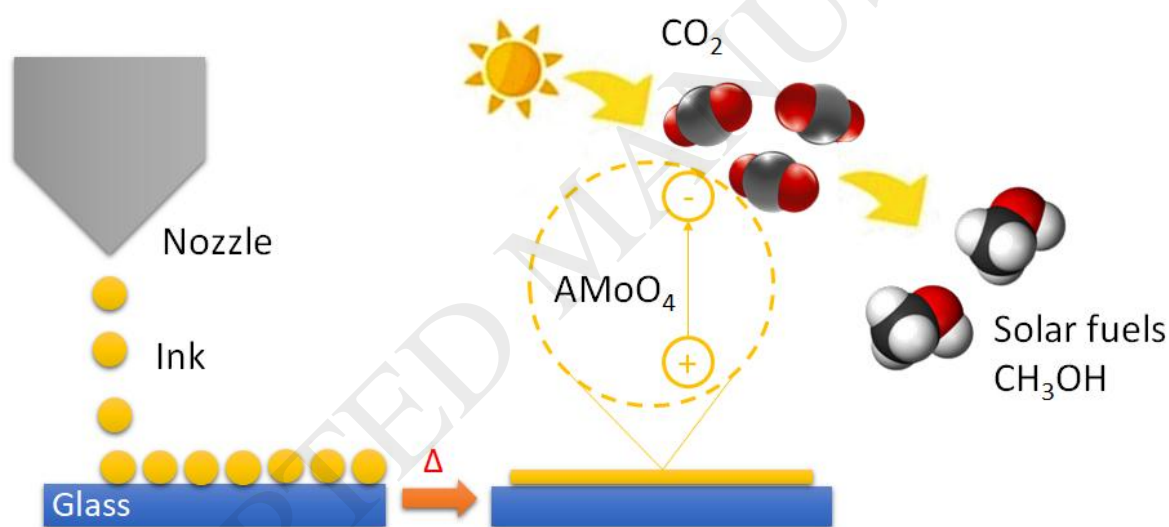
Ink-jet printing films of molybdates of alkaline earth metals with scheelite structure applied in the photocatalytic CO₂ reduction

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Graphical abstract



Highlights

- Ink jet films of molybdates of alkaline earth were deposited on glass substrates.
- The films were used as catalyst for CO₂ photoconversion to methanol.
- The CH₃OH yields was higher than previous reports.
- CO₂ adsorption was the rate-limiting step of the reaction.
- The tendency of the gas adsorption in the films was CaMoO₄ > SrMoO₄ > BaMoO₄.
- It was also detected H₂ as by-product of the photocatalytic reaction.

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