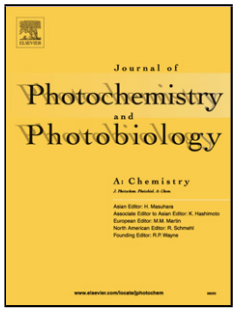

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Ink-jet printing films of molybdates of alkaline earth metals with scheelite structure applied in the photocatalytic CO_2 reduction

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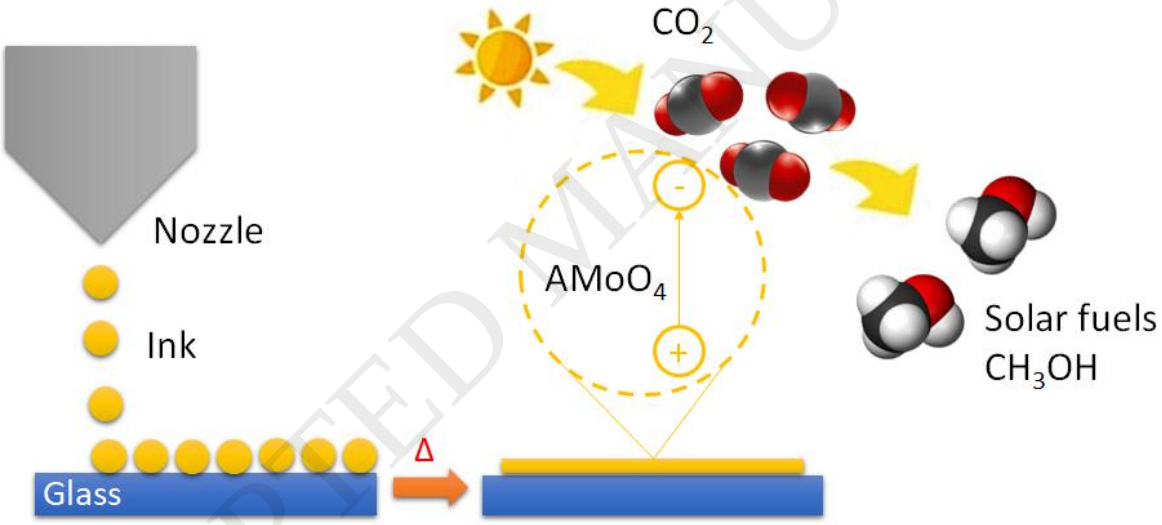
Graphical abstract



Highlights

- Ink jet films of molybdates of alkaline earth were deposited on glass substrates.
- The films were used as catalyst for CO_2 photoconversion to methanol.
- The CH_3OH yields was higher than previous reports.
- CO_2 adsorption was the rate-limiting step of the reaction.
- The tendency of the gas adsorption in the films was $CaMoO_4 > SrMoO_4 > BaMoO_4$.
- It was also detected H_2 as by-product of the photocatalytic reaction.