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A Modified Heteropoly Acid Catalyst with Cetyltrimethylammonium Bromide for Methacrolein to Methacrylic Acid

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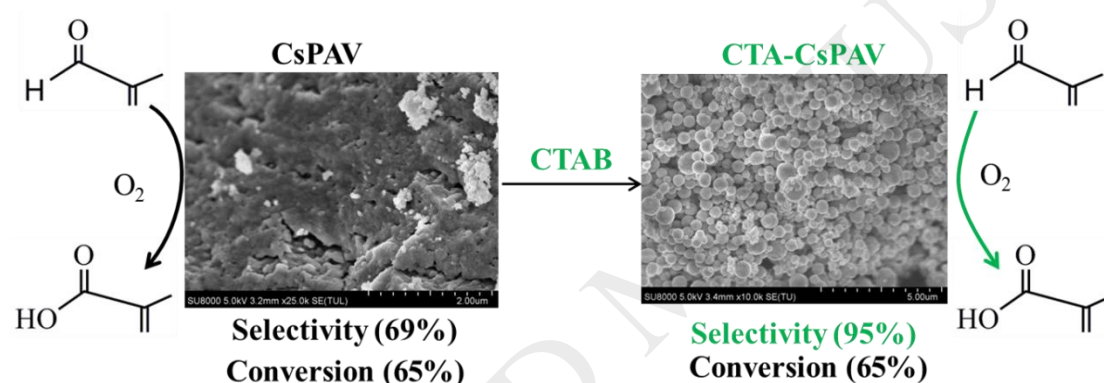
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Graphical abstract



Highlights

- The CTAB-CsH₃PMo₁₁VO₄₀ catalyst for oxidation of methacrolein to methacrylic acid was prepared by the emulsion method.
- The effect of CTAB on CTAB-CsH₃PMo₁₁VO₄₀ catalyst was studied.
- The selectivity to MAA over CTAB-CsH₃PMo₁₁VO₄₀ was up to 95%, which was higher than that of CsH₃PMo₁₁VO₄₀ (69%) at the same MAL conversion level (65%).

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