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# A Facile Preparation of Hydroxylated Magnesium Fluorides as An Active Catalyst for Biodiesel Production: The Effect of Different Aging Times

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## Highlights

- The  $\text{MgF}_{2-x}(\text{OH})_x$  samples with various aging times are prepared by sol-gel method
- The aging time greatly affects the crystallinity and porosity of samples
- The solids are applied as a heterogeneous catalyst to yield biodiesel
- The  $\text{MgF}_{2-x}(\text{OH})_x$  catalyst aged for 1 h shows excellent catalytic evaluation

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