Supporting information

**Amino acid/KI as multi-functional synergistic catalysts for cyclic carbonate synthesis from CO₂ under mild reaction conditions: A DFT corroborated study**

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**DFT figures**

*# Gauss view was applied to visualize the structures*

**Path A: KI catalyzed cycloaddition of CO₂ with Propylene oxide forming Propylene carbonate**
**S2**

*Path B:* KI-Glycine catalyzed cycloaddition of CO$_2$ with Propylene oxide forming Propylene carbonate

![Diagram of the KI-Glycine catalyzed cycloaddition of CO$_2$ with Propylene oxide forming Propylene carbonate](image)