## **Supporting Information**

## The activity and stability of CeO<sub>2</sub>@CaO catalysts for the production of

## biodiesel

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## TABLE CAPTIONS

Table S1. XPS results of O 1s for the  $CeO_2@CaO$  catalysts

| Table S1 XPS results of O 1s for the CeO <sub>2</sub> @CaO catalysts |                     |                 |                  |                        |                 |                  |
|--|---------------------|-----------------|------------------|------------------------|-----------------|------------------|
| Catalyst   | Binding energy (eV) |                 |                  | Surface percentage (%) |                 |                  |
|  | Ο Ι                 | 0 <sub>11</sub> | O <sub>III</sub> | Ο Ι                    | O <sub>II</sub> | O <sub>III</sub> |
| CeO <sub>2</sub>   | 528.5               | 531.6           | 533.2            | 53.03                  | 37.05           | 9.92             |
| CeO <sub>2</sub> @CaO-20   | 528.6               | 531.2           | 534.2            | 35.87                  | 57.1            | 7.03             |
| CeO <sub>2</sub> @CaO-40   | 528.6               | 531.3           | 533.6            | 38.6                   | 56.57           | 4.83             |
| CeO <sub>2</sub> @CaO-60   | 528.7               | 531.7           | 533.3            | 39.66                  | 46              | 14.34            |
| CaO  | 529.6               | 531.3           | 533.6            | 24.56                  | 71.12           | 4.32             |