Supplementary Materials: Waste Seashells as a Highly Active Catalyst for Cyclopentanone Self-Aldol Condensation

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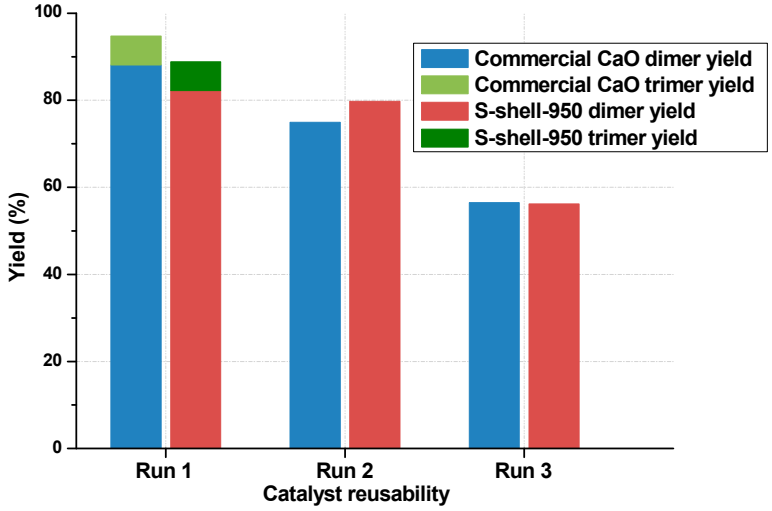

Figure S1. Catalyst reusability of commercial CaO and S-shell-950 catalysts. Reaction conditions: 4.0 g cyclopentanone; 1.0 g catalyst; 180 °C; 2h. Catalysts were regenerated by calcination at 950 °C for 4 h.

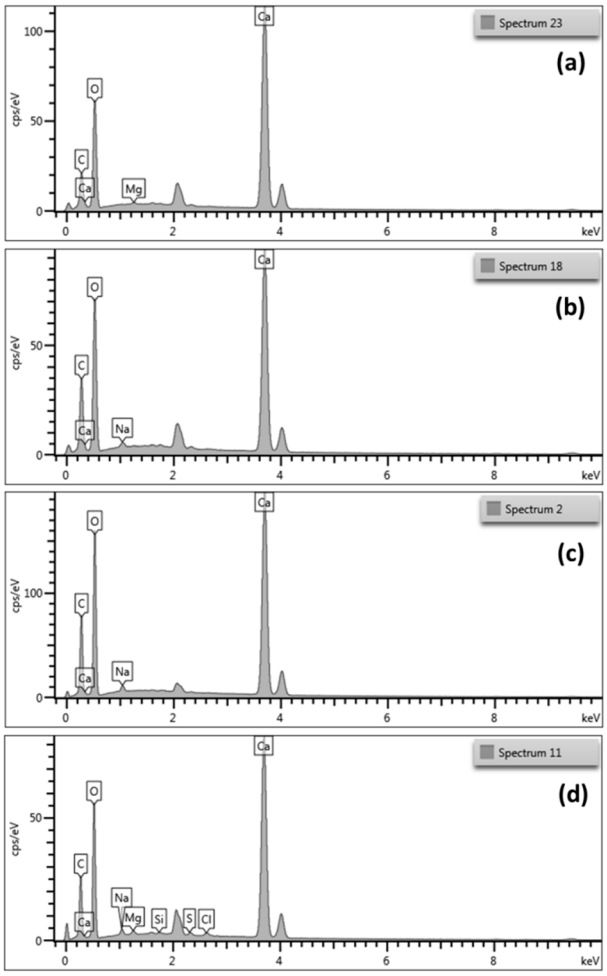

Figure S2. SEM-EDS data of catalysts before calcination. (**a**) commercial CaO; (**b**) S-shell; (**c**) C-shell; (**d**) O-shell.

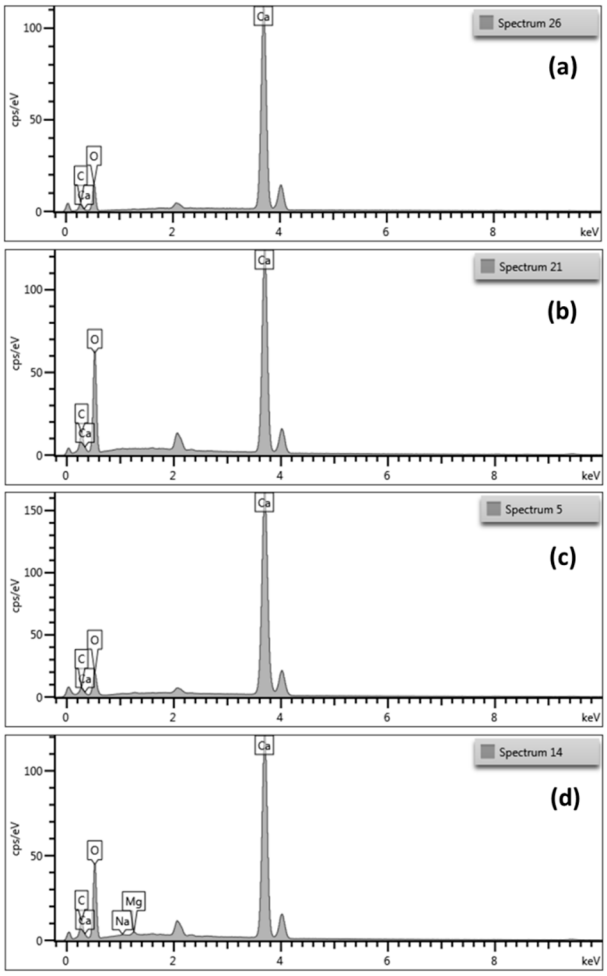

Figure S3. SEM-EDS data of catalysts after calcination at 950 °C. (**a**) commercial CaO; (**b**) S-shell-950; (**c**) C-shell-950; (**d**) O-shell-950.