Synergistic H_2 Activation and Structural Stabilization by Ag Doping in CoO Catalysts for Enhanced Dicyclopentadiene Hydroformylation

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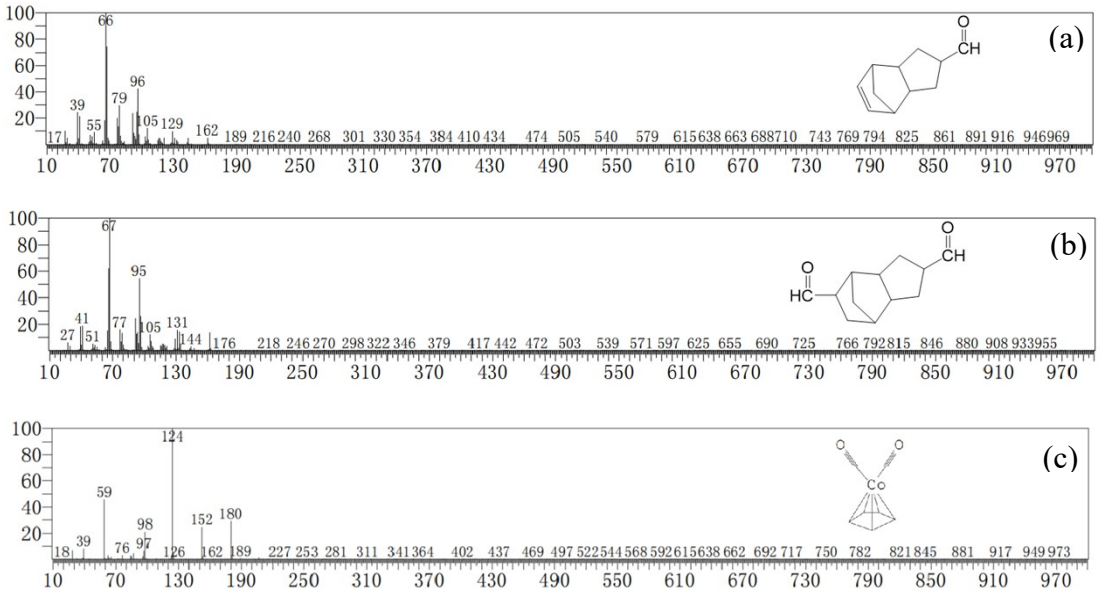

Fig. S1. Mass Spectrometry of Products: TCDMA Mass Spectrometry (a), TCDDA mass spectrometry (b) and mass apectrometry of reduced Co catalyst intermediate (c).

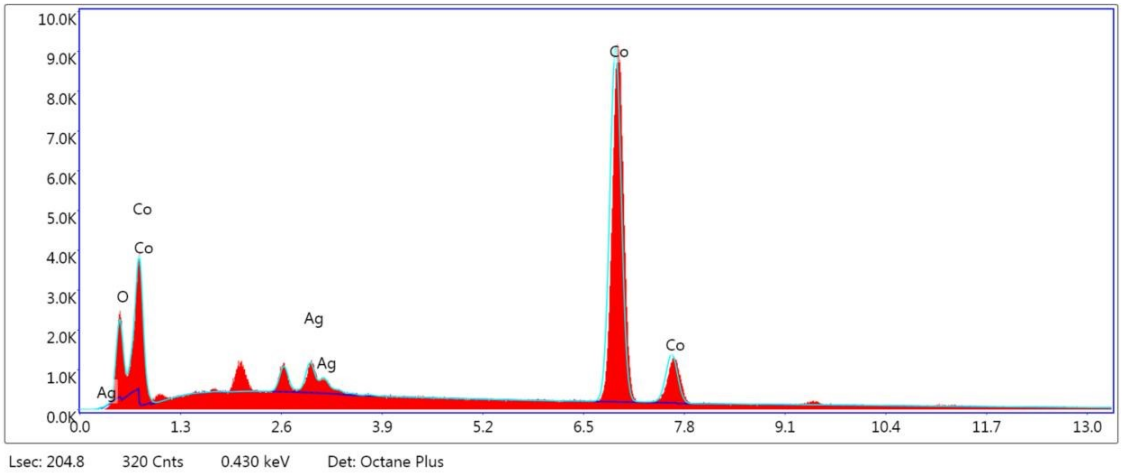

Fig. S2. EDS spectrum of Ag/CoO

Table S1. Ratio results of different elements in Ag/CoO.

Eleme	Weight	Atomic %	Net Int.	Error %	Kratio	Z	A	F
O K	8.98	27.07	109.80	7.91	0.0473	1.2660	0.4158	1.0000
AgL	4.08	1.82	53.60	3.96	0.0356	0.8777	0.9904	1.0044
CoK	86.94	71.11	786.70	1.77	0.8474	0.9751	0.9976	1.0019

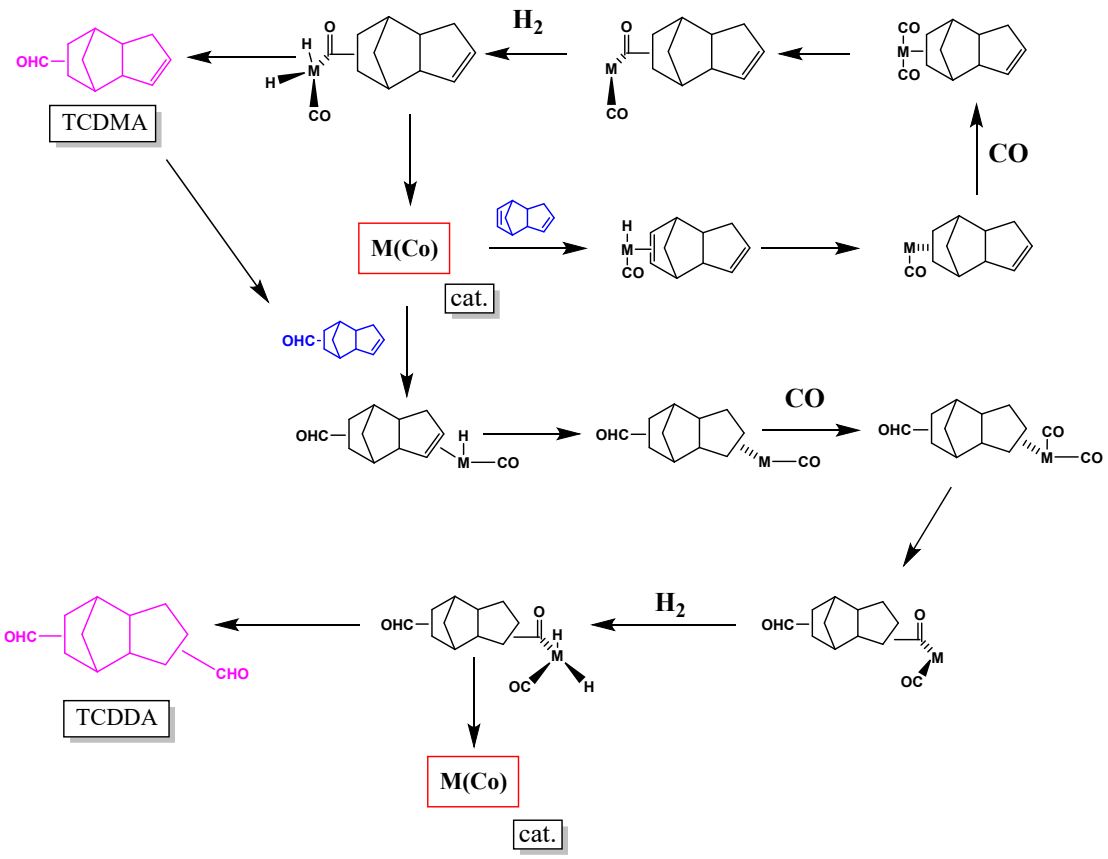

Fig. S3. Schematic Diagram of the Potential Mechanism for Co-Catalyzed Hydroformylation of DCPD.

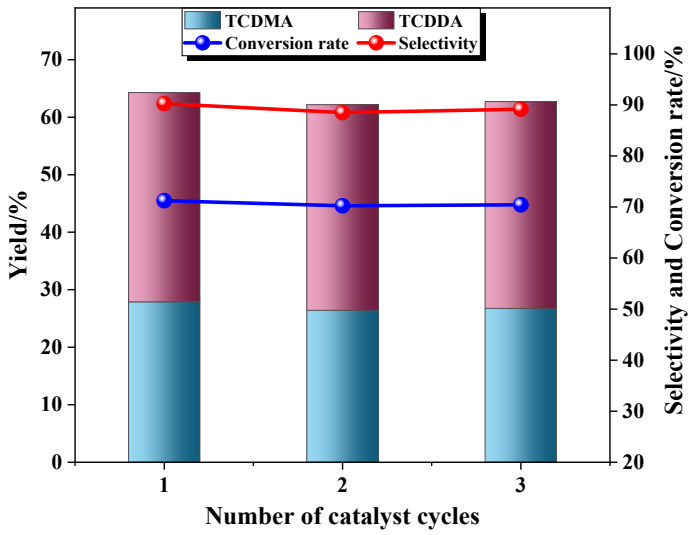

Fig. S4. Analysis of the Reusability of Ag/CoO Catalysts.