Supporting Information

Catalytic oxidation of ethyl acetate over LaBO₃ (B=Co, Mn, Ni, Fe) perovskites supported silver catalysts

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Table S1 Specific surface areas of Ag/LaBO$_3$ (B = Co, Mn, Ni, Fe).

| Sample         | $S_{\text{BET}}$ (m$^2$/g) |
|----------------|-----------------------------|
| Ag/LaCoO$_3$   | 14.5                        |
| Ag/LaMnO$_3$   | 19.3                        |
| Ag/LaNiO$_3$   | 12.5                        |
| Ag/LaFeO$_3$   | 14.0                        |

Table S2 $\text{H}_2$ consumption of LaBO$_3$ and Ag/LaBO$_3$ (B = Co, Mn, Ni, Fe) from $\text{H}_2$-TPR results.

| Sample         | $\text{H}_2$ consumption (mol/g) |
|----------------|----------------------------------|
| Ag/LaCoO$_3$   | 2.04                            |
| LaCoO$_3$      | 1.98                            |
| Ag/LaMnO$_3$   | 0.61                            |
| LaMnO$_3$      | 0.45                            |
| Ag/LaNiO$_3$   | 1.80                            |
| LaNiO$_3$      | 1.70                            |
| Ag/LaFeO$_3$   | 0.05                            |
| LaFeO$_3$      | 0.05                            |

**Fig. S1** Evolution of ethyl acetate conversion, CO$_2$ selectivity, CO$_2$ yields, distributions of the organic byproduct in function of temperature on Ag/LaMnO$_3$ (a, b), LaMnO$_3$ (c, d). Ethyl acetate concentration: 500 ppm; ethyl acetate/O$_2$ molar ratio: 1/400; WHSV: 60,000 mL/(g h).
Fig. S2 Evolution of ethyl acetate conversion, CO$_2$ selectivity, CO$_x$ yields, distributions of the organic byproduct in function of temperature on Ag/LaNiO$_3$ (a, b), LaNiO$_3$ (c, d). Ethyl acetate concentration: 500 ppm; ethyl acetate/O$_2$ molar ratio: 1/400; WHSV: 60,000 mL/(g h).

Fig. S3 Evolution of ethyl acetate conversion, CO$_2$ selectivity, CO$_x$ yields, distributions of the organic byproduct in function of temperature on Ag/LaFeO$_3$ (a, b), LaFeO$_3$ (c, d). Ethyl acetate concentration: 500 ppm; ethyl acetate/O$_2$ molar ratio: 1/400; WHSV: 60,000 mL/(g h).