

Supplementary Materials: Novel Fe-W-Ce Mixed Oxide for the Selective Catalytic Reduction of NO_x with NH₃ at Low Temperatures

Anna Stahl, Zhong Wang, Tobias Schwämmle, Jun Ke and Xuebing Li

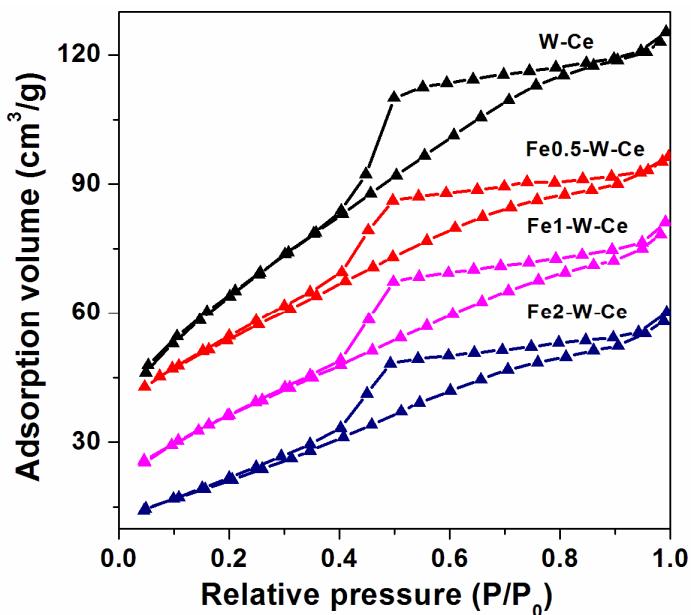


Figure S1. The N₂ adsorption-desorption isotherms of Fe-W-Ce catalysts.

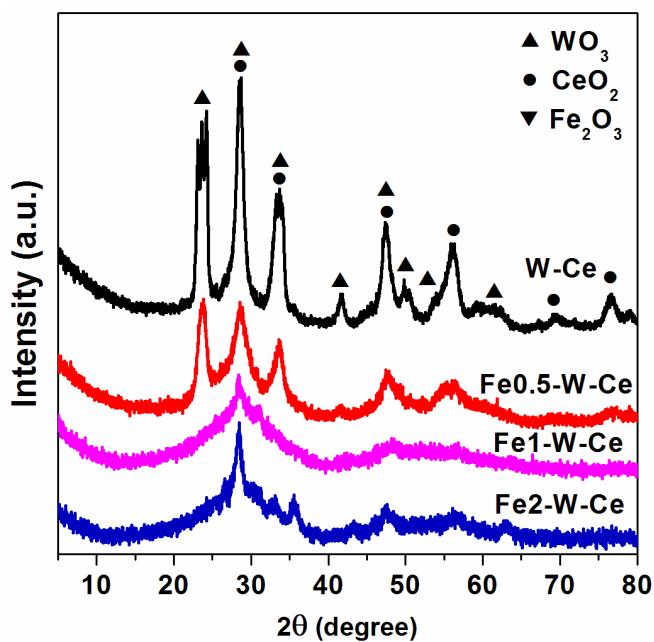


Figure S2. XRD patterns of Fe-W-Ce catalysts after reaction.

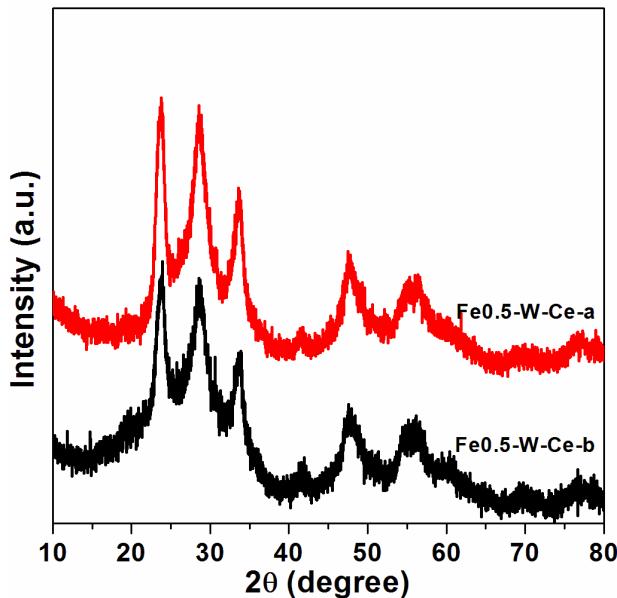


Figure S3. XRD patterns of Fe0.5-W-Ce catalysts after reaction (a: $\text{SO}_2 + \text{NO}_x + \text{NH}_3 + \text{O}_2$, b: $\text{SO}_2 + \text{NO}_x + \text{NH}_3 + \text{H}_2\text{O} + \text{O}_2$).

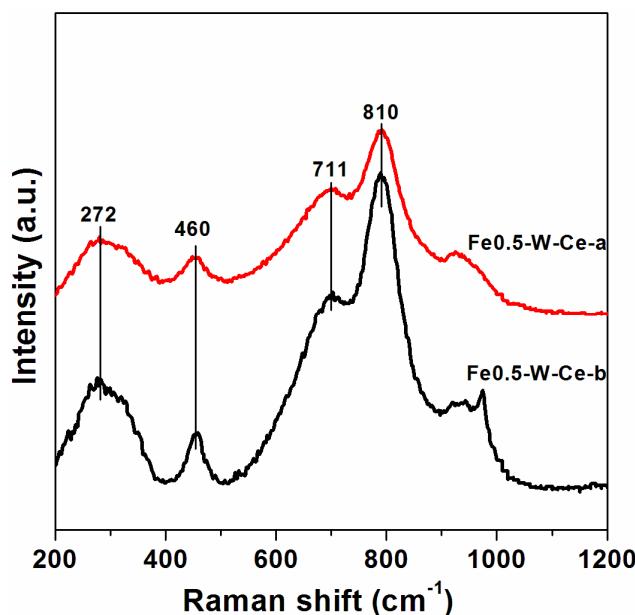


Figure S4. Raman patterns of Fe0.5-W-Ce catalysts after reaction (a: $\text{SO}_2 + \text{NO}_x + \text{NH}_3 + \text{O}_2$, b: $\text{SO}_2 + \text{NO}_x + \text{NH}_3 + \text{H}_2\text{O} + \text{O}_2$).

Table S1. Specific surface area and crystallite size of Fe0.5-W-Ce catalysts after reaction.

Samples	BET Surface Area (m ² /g)	Crystallite Size (nm)
Fe0.5-W-Ce ^a	33.9	5.6
Fe0.5-W-Ce ^b	34.7	-
Fe0.5-W-Ce ^c	35.2	6.1

^a $\text{SO}_2 + \text{NO}_x + \text{NH}_3 + \text{O}_2$; ^b $\text{SO}_2 + \text{NO}_x + \text{NH}_3 + \text{H}_2\text{O} + \text{O}_2$; ^c $\text{NO}_x + \text{NH}_3 + \text{H}_2\text{O} + \text{O}_2$.