

**Promotional effect of niobium substitution on the low-temperature activity of  
WO<sub>3</sub>/CeZrO<sub>x</sub> monolithic catalyst for the selective catalytic reduction of NO<sub>x</sub> with  
NH<sub>3</sub>**

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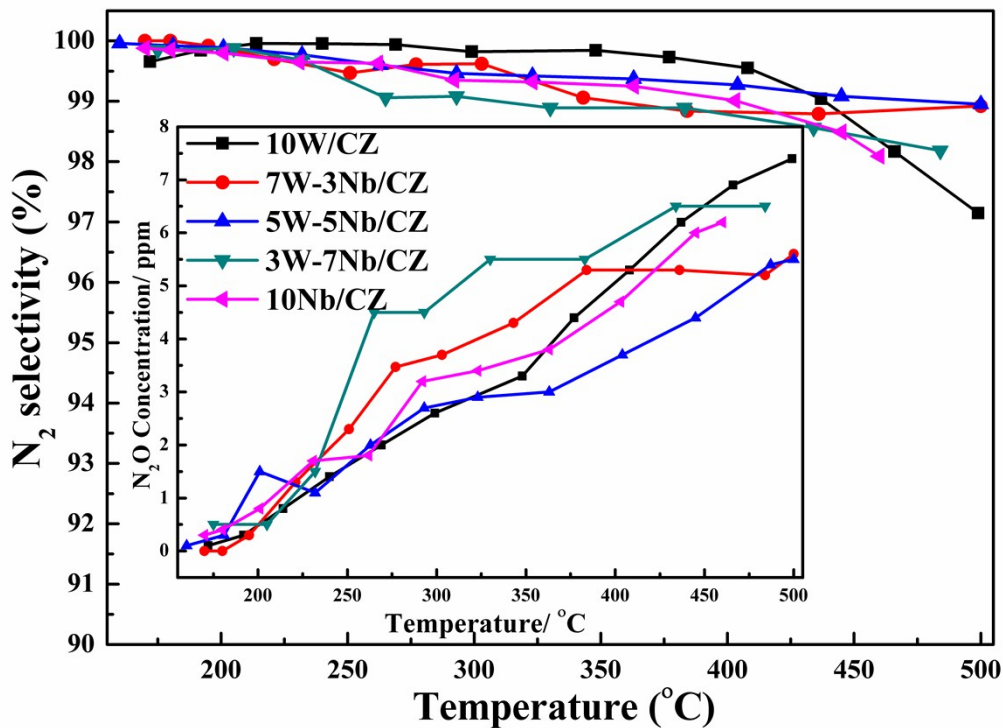


Fig. S1. N<sub>2</sub> selectivity of 10W/CZ, Nb-substituted W/CZ and 10Nb/CZ catalysts in NH<sub>3</sub>-SCR reaction. Reaction conditions: 500 ppm NO, 500 ppm NH<sub>3</sub>, 5% O<sub>2</sub> and N<sub>2</sub> as balance gas, the total gas rate: 1.25 L·min<sup>-1</sup>, GHSV: 30000 h<sup>-1</sup>.

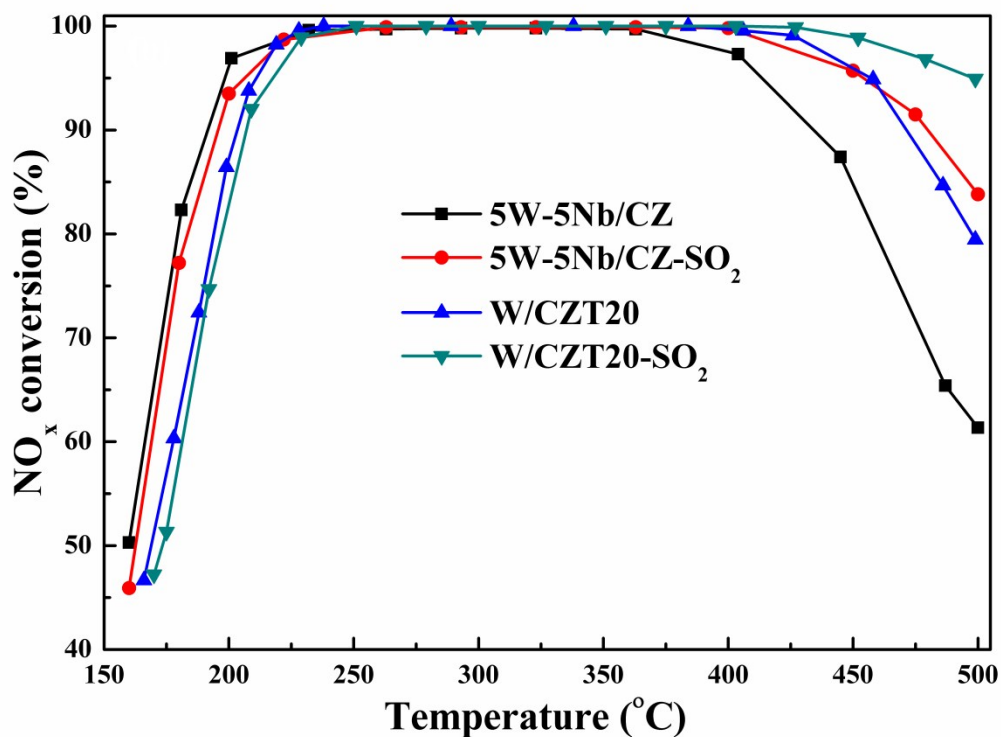


Fig.S2. Comparison of NO<sub>x</sub> conversion before and after introducing SO<sub>2</sub> over 5W-5Nb/CZ and W/CZT20 catalysts (b). Reaction conditions: 500 ppm NO, 500 ppm NH<sub>3</sub>, 5% O<sub>2</sub>, 100 ppm SO<sub>2</sub> (when used) and N<sub>2</sub> as balance gas, the total gas rate: 1.25 L·min<sup>-1</sup>, GHSV: 30000 h<sup>-1</sup>.

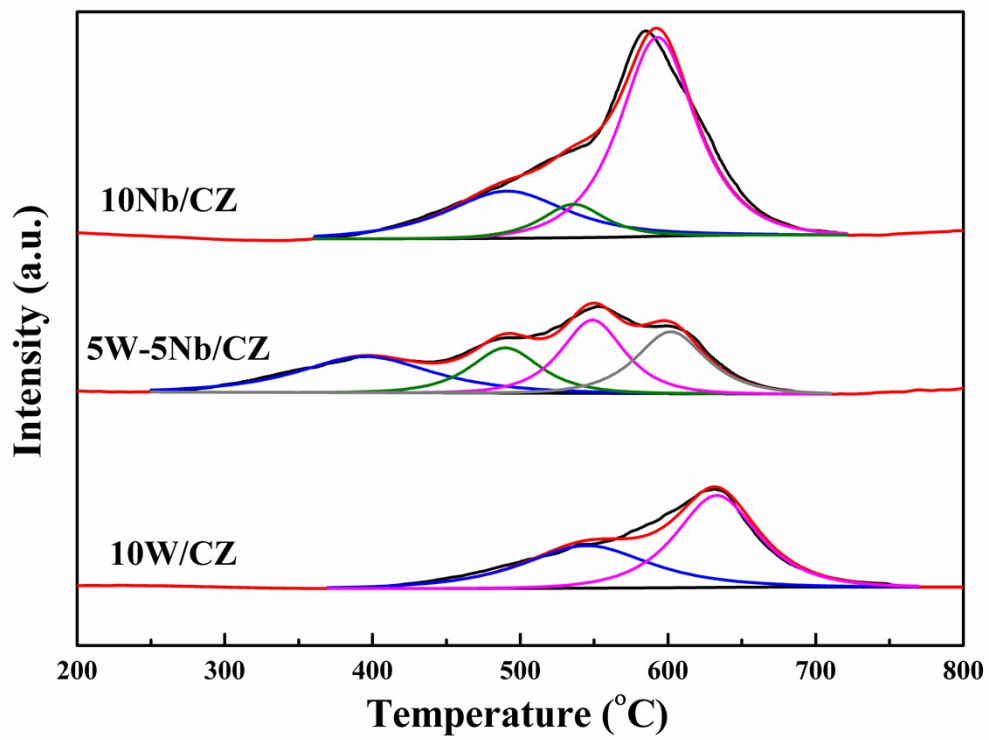


Fig. S3. H<sub>2</sub>-TPR profiles after deconvolution of 10W/CZ, 5W-5Nb/CZ and 10Nb/CZ.