

**Supporting Information for**  
**Insight into interactions among P, Zn and ZSM-5 during bi-**  
**component modification on ZSM-5**

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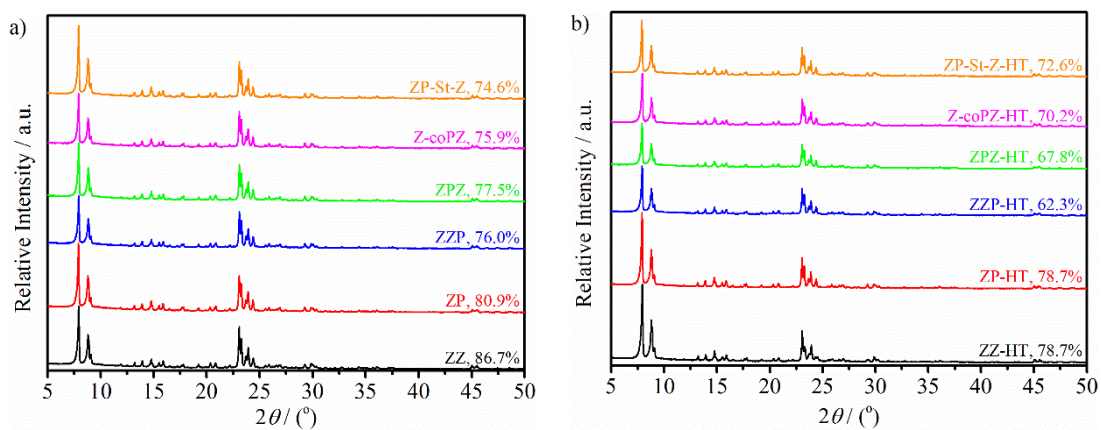
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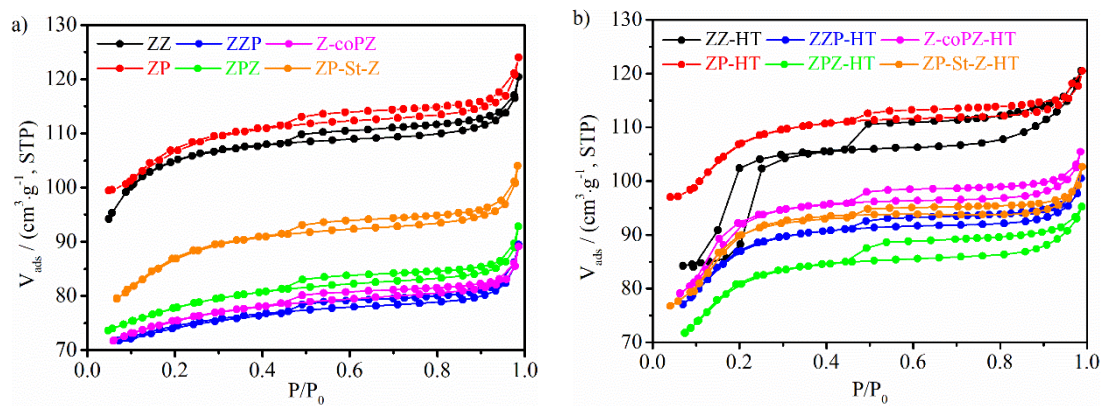
Figure S2 N<sub>2</sub> adsorption and desorption isotherms at 77 K of Zn/P/ZSM-5 prepared via different modification sequences (a) before and (b) after hydrothermal treatment.

Figure S3. <sup>29</sup>Si MAS NMR spectra of Zn/P/ZSM-5 prepared via different modification sequences (a) before and (b) after hydrothermal treatment.

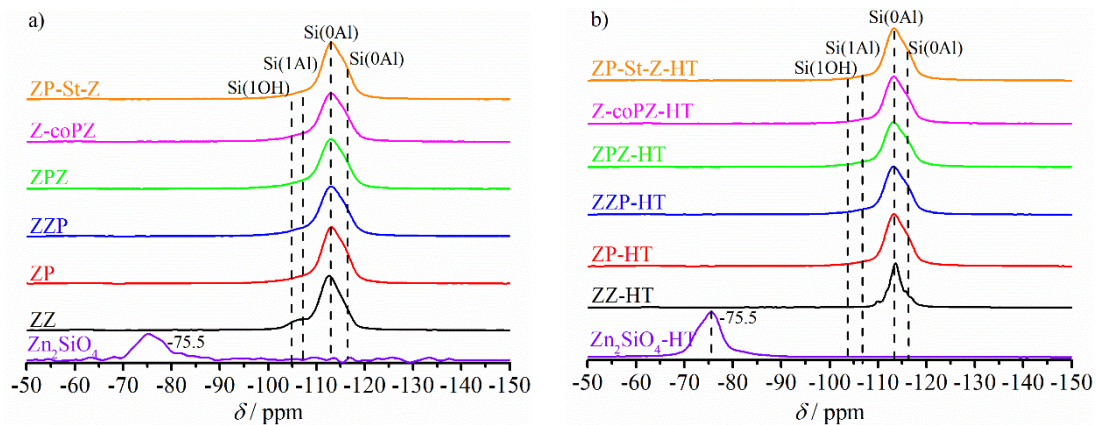
Figure S4. NH<sub>3</sub>-TPD spectra of Zn/P/ZSM-5 prepared via different modification sequences after hydrothermal treatment.



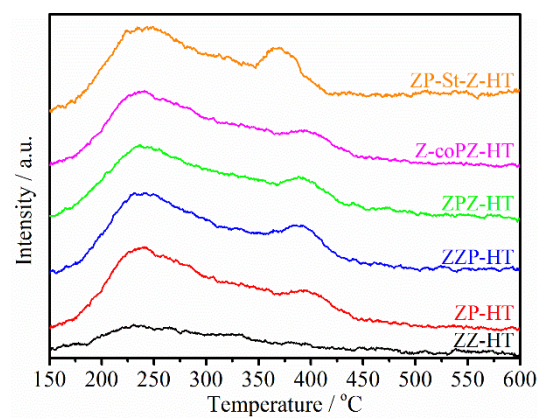
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**Figure S2** N<sub>2</sub> adsorption and desorption isotherms at 77 K of Zn/P/ZSM-5 prepared via different modification sequences (a) before and (b) after hydrothermal treatment.



**Figure S3**  $^{29}\text{Si}$  MAS NMR spectra of Zn/P/ZSM-5 prepared via different modification sequences (a) before and (b) after hydrothermal treatment.



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