

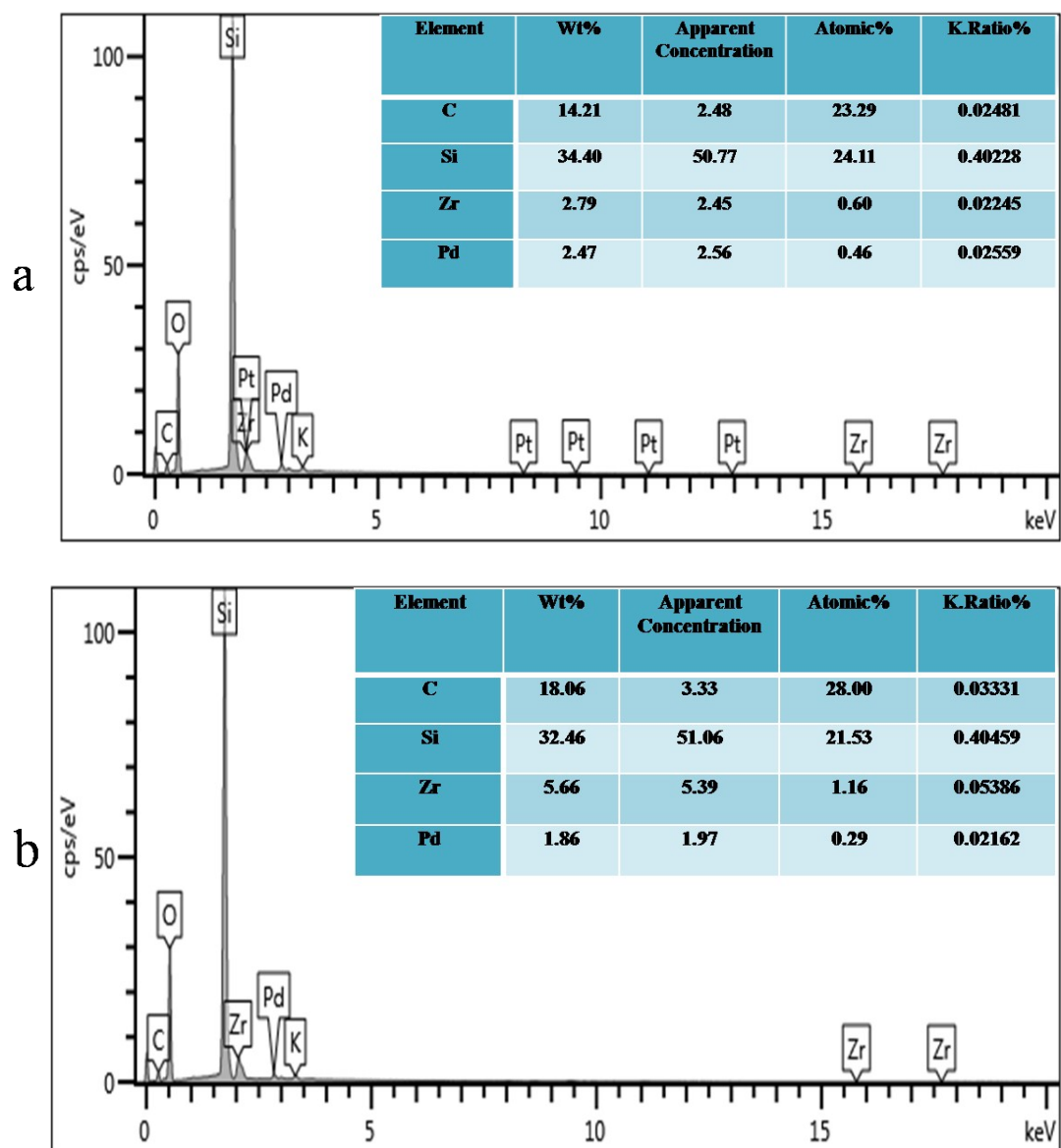
**Supplementary Information:**

**Enhanced metal-support interactions between Pd NPs and ZrSBA-15  
for efficient aerobic benzyl alcohol oxidation**

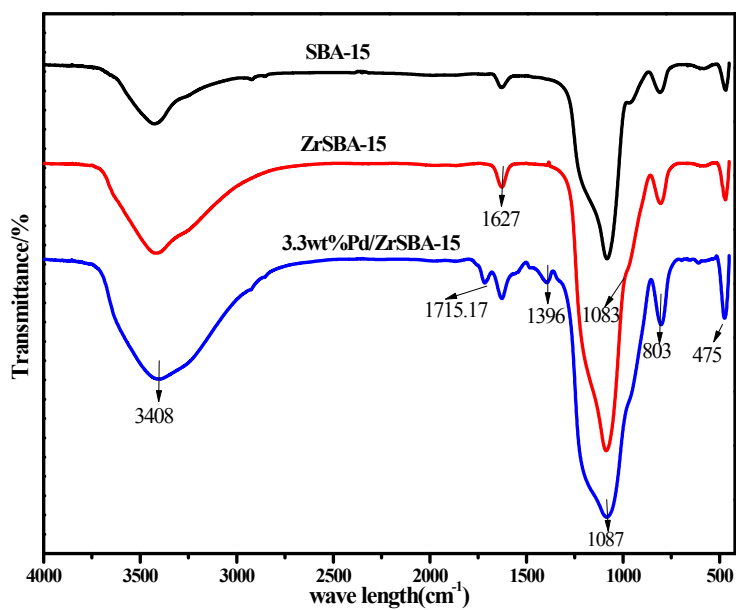
Ran Ji, Shangru Zhai\*, Wei Zheng, Zuoyi Xiao\*, Qingda An, Feng Zhang\*

Faculty of Light Industry and Chemical Engineering, Dalian Polytechnic University,

Dalian 116034, China



**Fig. S1.** The EDX results of 3.3wt% Pd/ZrSBA-15 and 3.3wt% Pd/ZrSBA-15/5t catalyst.



**Fig. S2.** FT-IR spectra of SBA-15, ZrSBA-15, 3.3wt%Pd/ZrSBA-15/5t.

**Table S1.** Textural properties of studied samples.

Sample	S <sub>BET</sub> (m <sup>2</sup> ·g <sup>-1</sup> )	V <sub>total</sub> (m <sup>3</sup> ·g <sup>-1</sup> )	PSD (nm)
Zr/SBA-15	617.74	1.13	8.52
3.3wt%Zr/SBA-15	483.26	1.02	6.99
3.3wt%ZrSBA-15/5t	510.33	1.04	7.99