Selective catalytic reduction of nitric oxide with propylene over Fe/Beta catalysts under lean-burn conditions

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Support information
**Fig. S1.** XPS spectra of Fe 2p of Fe/Beta catalysts prepared by different methods.

**Fig. S2.** UV-vis spectra of Fe$_2$O$_3$. 
Fig. S3. UV-vis spectra with deconvolution method of Fe/Bate catalysts.
Fig. S4. Apparent TOF with total Fe at 200 °C on Fe/Ba catalysts.
Fig. S5. XRD diffractograms of the fresh and aged Fe/Bate catalysts.

Fig. S6. UV-vis spectra with deconvolution method of the fresh and aged Fe/Bate catalysts.
<table>
<thead>
<tr>
<th>Catalyst</th>
<th>$Fe_a$ (%)</th>
<th>$Fe_b$ (%)</th>
<th>$Fe_c$ (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fe/Bate(LIE)-Fresh</td>
<td>65.2</td>
<td>13.5</td>
<td>21.3</td>
</tr>
<tr>
<td>Fe/Bate(LIE)-Aged</td>
<td>51.3</td>
<td>20.7</td>
<td>28.0</td>
</tr>
</tbody>
</table>

(a) Isolated Fe$^{3+}$ in tetrahedral and octahedral coordination, (b) Oligomeric Fe$_x$O$_y$ clusters, (c) Fe$_2$O$_3$ nanoparticles.