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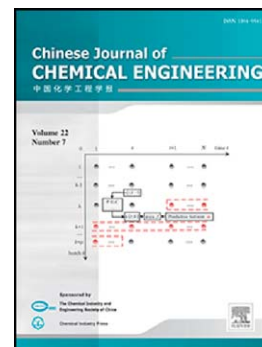
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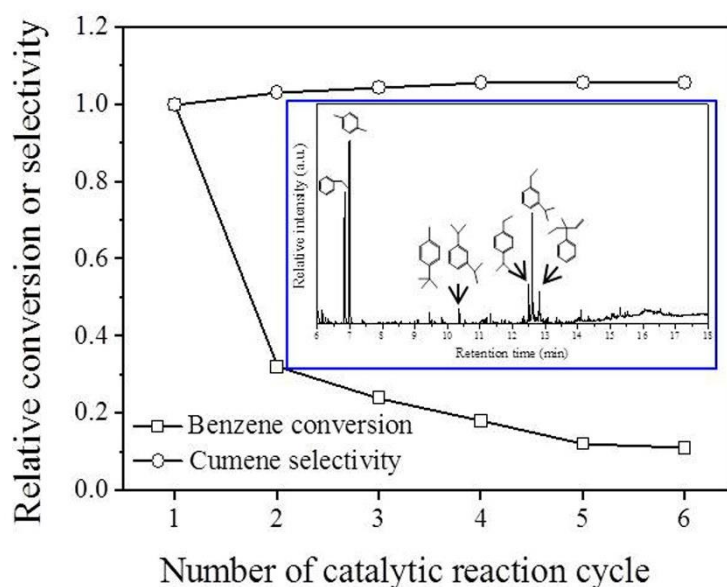
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## Catalysis, kinetics and reaction engineering

### Graphical abstract

Some organic matters including 1-ethyl-3-(1-methyl) benzene could be produced during the benzene alkylation with isopropanol over beta-zeolite and deposit in the catalyst, resulting the deactivation of beta-zeolite.



## Deactivation mechanism of beta-zeolite catalyst for synthesis of cumene by benzene alkylation with isopropanol<sup>☆</sup>

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