

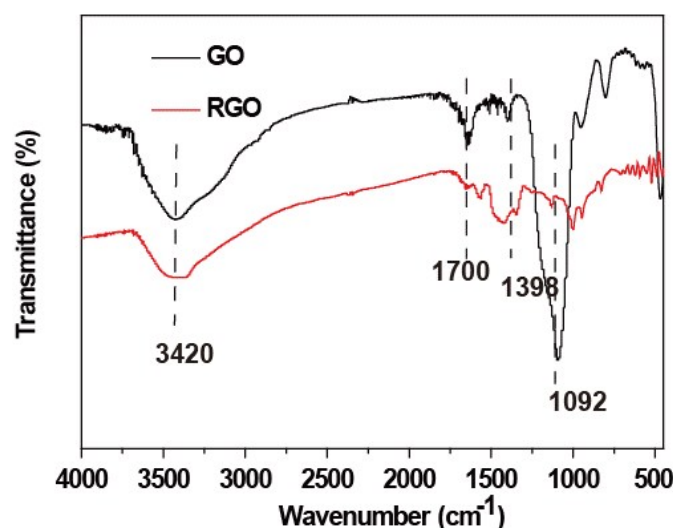
# Core-shell structured ZSM-5 zeolites: GO-assisted synthesis and catalyst texture effect on the catalytic performance in the acid-catalyzed o-methylation of cyclohexanone with methanol

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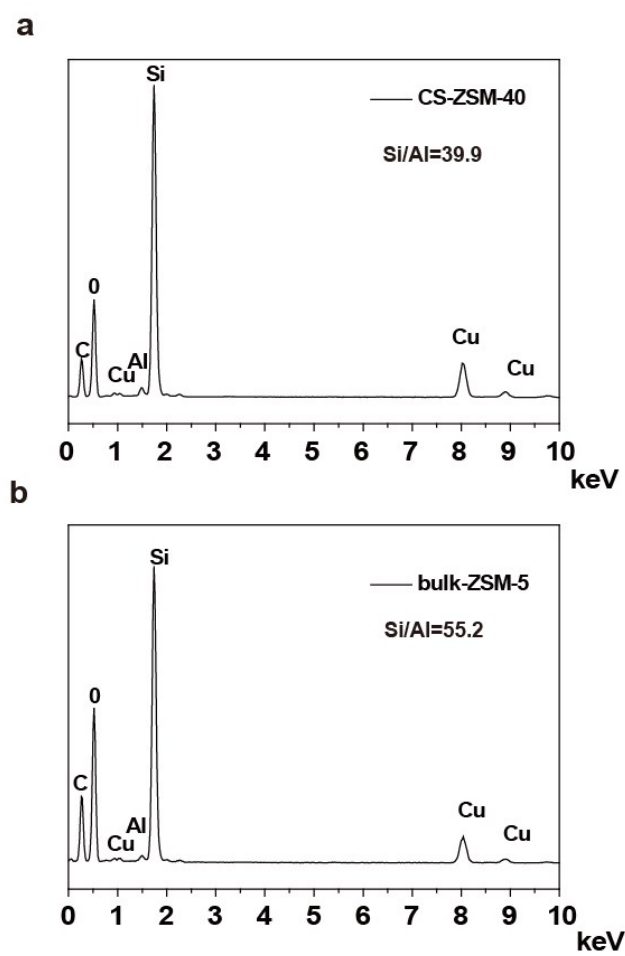
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FT-IR spectra of GO and RGO as shown in Figure S1. The decrease in peak intensity indicates that most oxygen-containing functional groups on GO sheets were removed after a  $\text{NaBH}_4$  chemical reduction process,



**Figure S1.** FT-IR spectra of GO and RGO sheets.



**Figure S2.** EDS patterns of (a) CS-ZSM-5-40 and (b) bulk-ZSM-5 zeolites.