Electronic Supplementary Material (ESI) for RSC Advances

Graphene oxide as a carbocatalyst: the first example of a one-pot sequential dehydration–hydrothiolation of secondary aryl alcohols

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Supporting Information

Comparison of FT-IR Spectral data and Scanned ^{1}H and ^{13}C NMR Spectra

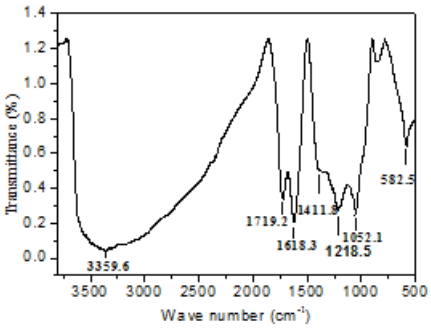
1. FT-IR spectra of GO
2. ^{1}H and ^{13}C-NMR Spectra (**3a – 3p**)

Characterization:

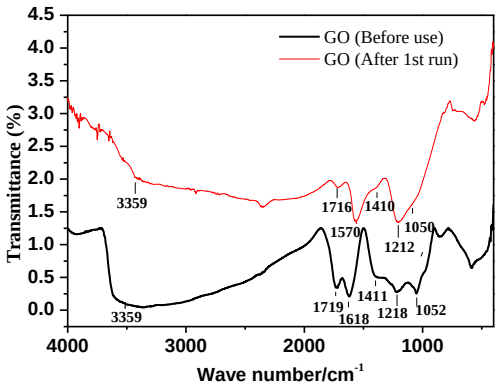
1. **Characterization of GO** Prepared GO was characterized by IR spectroscopy in KBr, which was comparable with literature data.[1]

Sl. No.	Functional group	Wave number (cm^{-1})	
		Observe	Literature[2]
1	O−H	3359	3368
2	COOH	1719	1718
3	C=C	1618	1620
4	C−OH	1411	1413
5	C−O−C	1218	1227
6	C−O−C	1052	1060

Fig.1 The FT-IR Spectra of GO



FT-IR spectra of GO before and after use in the reaction (First run)



4. References

1. D. Han, L. Yan, W. Chen, W. Li, P.R. Bangal, *Carbohydr. Polym.*, 2011, **83**, 966.

2. ^{1}H and ^{13}C NMR Spectra (scanned copies)