

Supporting Information

A Functionalized Graphene Oxide and Nano Zeolitic Imidazolate Frameworks Composite as Highly Active and Reusable Catalyst for [3+3] Formal Cycloaddition Reactions

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Table S1. Elemental analysis of different samples.

Sample	N (wt.%)	C (wt.%)	S (wt.%)	H (wt.%)
GO	/	50.1	0.105	2.86
SO ₃ H-GO	/	63.6	1.75	1.85
ZIF-8@ SO ₃ H-GO-1	17.4	51.4	1.05	3.83
ZIF-8@ SO ₃ H-GO-2	13.7	56.8	0.845	3.41
ZIF-8@ SO ₃ H-GO-3	9.32	62.7	0.507	2.67
used ZIF-8@SO ₃ H-GO-2	13.2	57.0	0.836	3.39

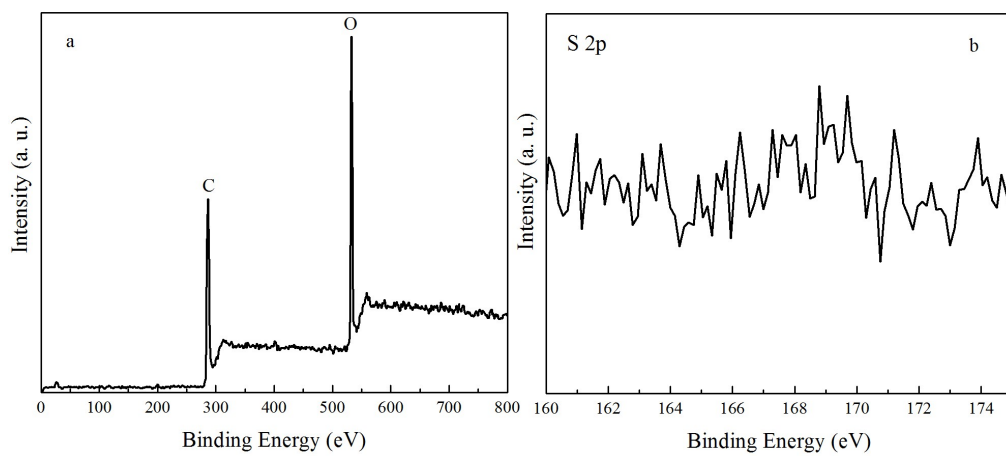


Figure S1. XPS spectrum of GO (a) and S 2p XPS spectrum of GO (b).

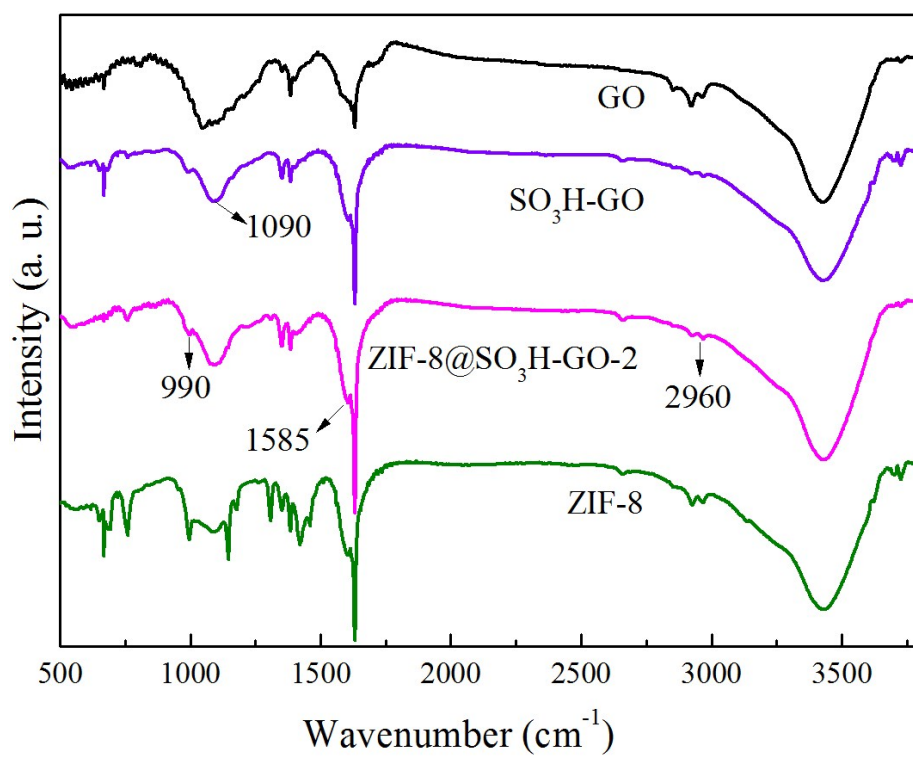


Figure S2. FTIR spectra of GO, SO₃H-GO, ZIF-8@SO₃H-GO-2 and ZIF-8 samples.

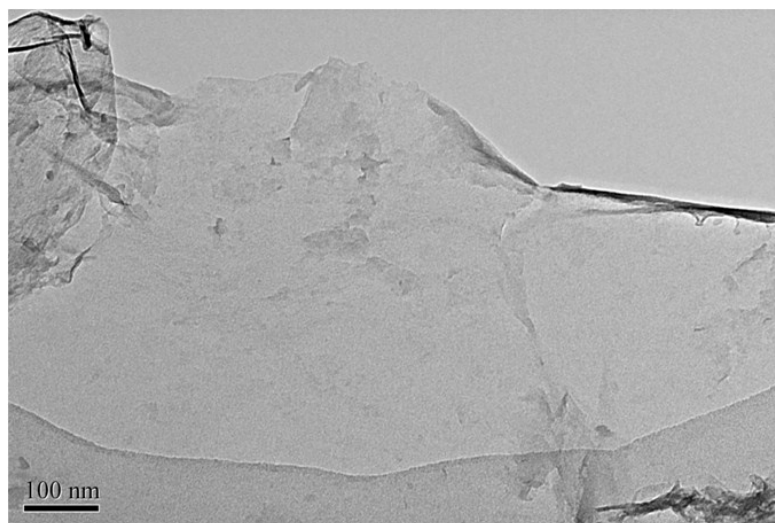


Figure S3. TEM image of SO₃H-GO sample.

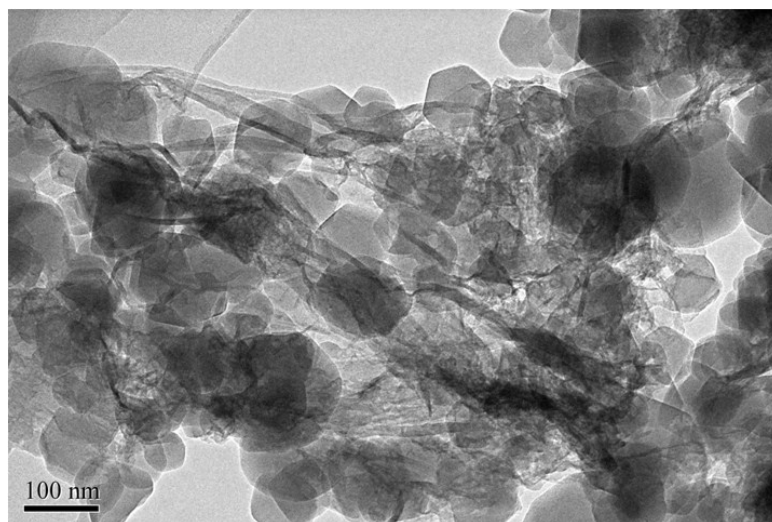


Figure S4. TEM image of ZIF-8@SO₃H-GO-2 catalyst after being reused for 10 times.