

Supporting information

Fluorocarbon templated mesoporous material IBN-4²² was synthesized and its N₂ adsorption isotherm is displayed below,

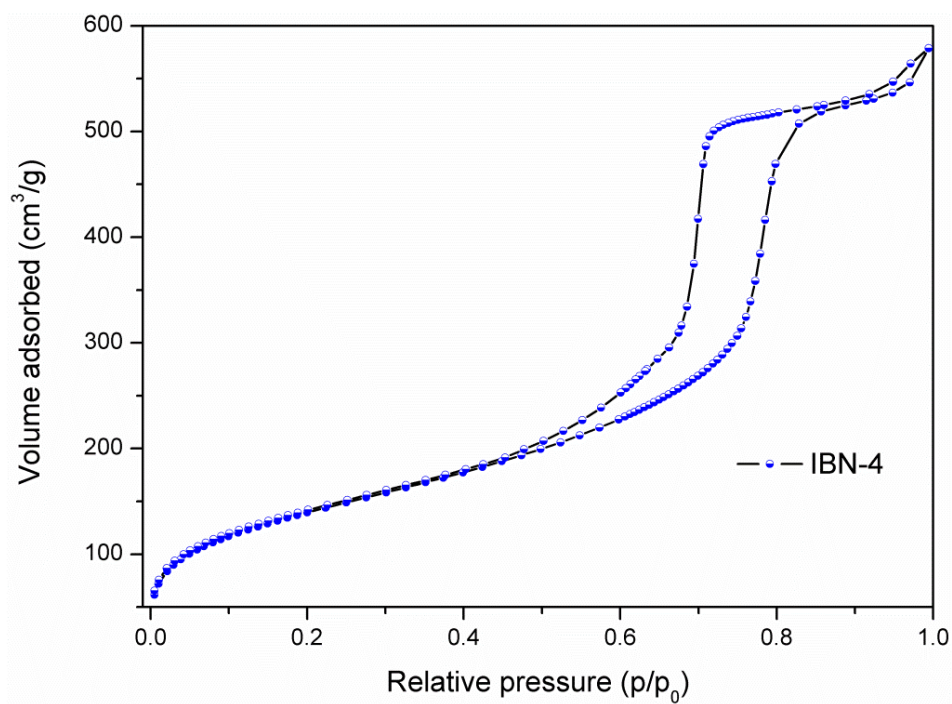


Figure S1: N₂ adsorption desorption isotherm of IBN-4.

FT-IR spectra were measured for the IBN-4 and ICMS materials. The methylene stretching frequencies were observed near the region of 2930 cm^{-1} was found to increase with increasing amount of thiol groups.

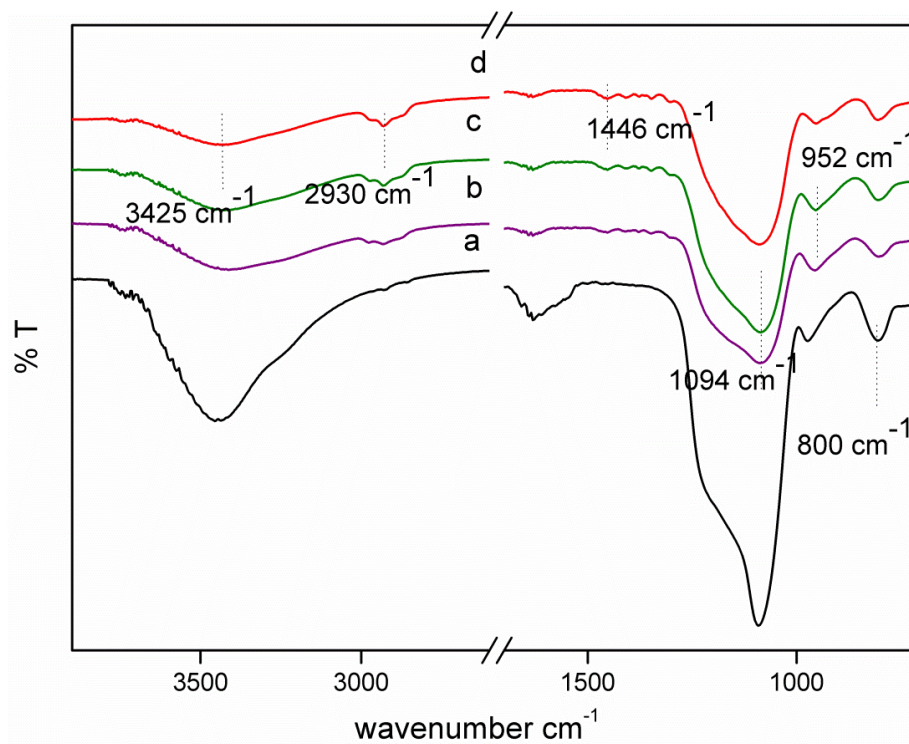


Figure S2: FTIR spectra of IBN-4 and ICMS materials, (a) IBN, (b) ICMS-10, (c) ICMS-20 and (d) ICMS-30.

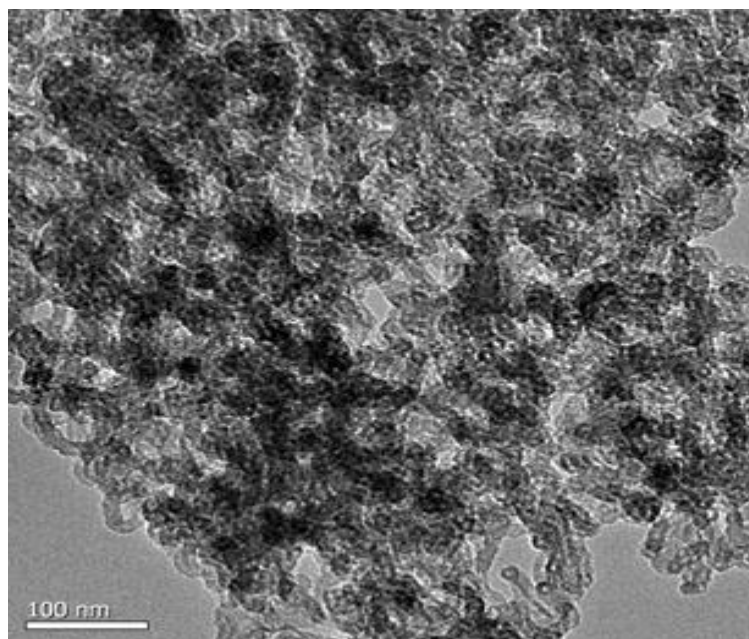


Figure S3: TEM image of ICMS-40 materials showing highly clustered with blocked pore channels.

Table S1: Elemental analysis

	C %	H %	S %
ICMS-10	14.01	2.75	4.09
ICMS-20	16.11	3.06	6.27
ICMS-30	20.28	3.78	9.22

The weight percentages of Carbon, Hydrogen and Sulphur elements in the ICMS materials are given in the table.