

Supporting Information

Efficient Removal of Siloxane from Biogas by Using β -Cyclodextrin-Modified Reduced Graphene Oxide Aerogels

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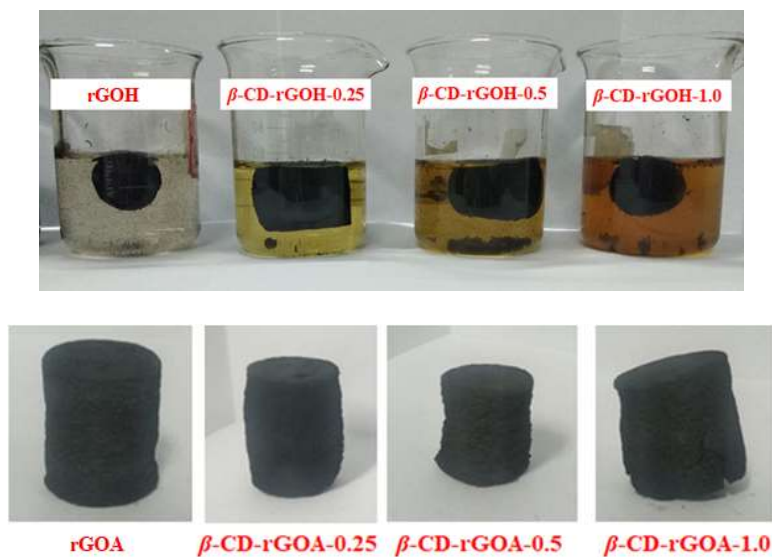


Figure S1. Photographs of the rGOHs and rGOAs.

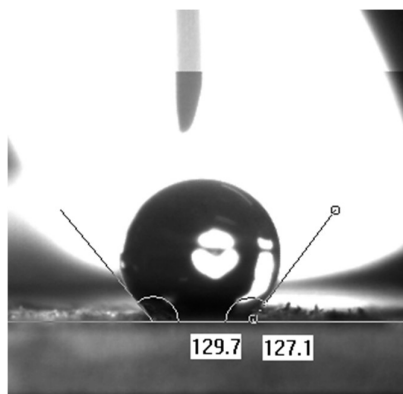


Figure S2. Image showing a water droplet on the surface of β -CD-rGOA-0.5 film.

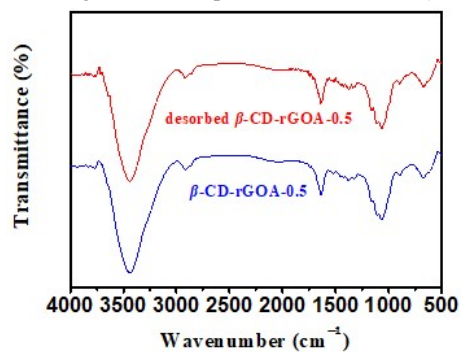


Figure S3. FTIR spectra of β -CD-rGOA-0.5 and desorbed β -CD-rGOA-0.5 after cycling.

Table S1. Properties of aerogels with different sizes.

samples	Weight (g)	Diameter (cm)	Height(cm)	Volume(cm ³)	Density (mg cm ⁻³)
rGOA	0.5681	3.52	4.57	44.44994	12.78
β -CD-rGOA-0.25	0.4032	3.19	4.18	33.39084	12.08
β -CD-rGOA-0.5	0.4012	3.23	4.21	34.47917	11.64
β -CD-rGOA-1	0.4019	3.50	4.14	39.81128	10.10

Table S2. The statistical parameters of curves between Q_B and S_{BET} , Q_B and V_{tot} , Q_B and θ for the rGOAs.

Statistical parameters		Q_B and S_{BET}	Q_B and V_{tot}	Q_B and θ
Number of Points		5	5	5
Equation		$y = a + bx$		
Residual Sum of Squares		34.9524	337.5752	1118.2794
standard deviation		2.9560	9.1866	16.7203
R-Square		0.9872	0.8760	0.5893
Intercept	Value	6.5455	-23.4917	-84.7256
	Standard Error	2.8039	14.0177	51.8007
Slope	Value	0.5067	151.1688	1.1511
	Standard Error	0.0288	27.9462	0.4435