

Supplementary Material

Carbon Dioxide Sensing with Langmuir–Blodgett Graphene Films

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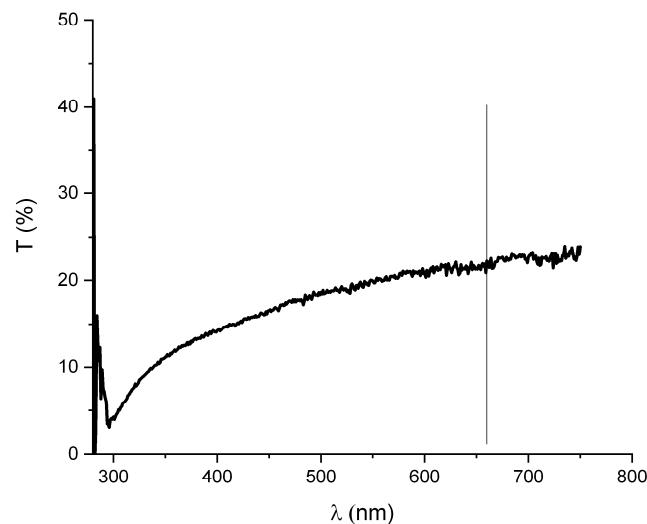


Figure S1. Optical transmittance spectrum of one of our graphene films. The transmittance of ~22% at a wavelength of 660 nm indicates average film thickness of ~11.5 nm.

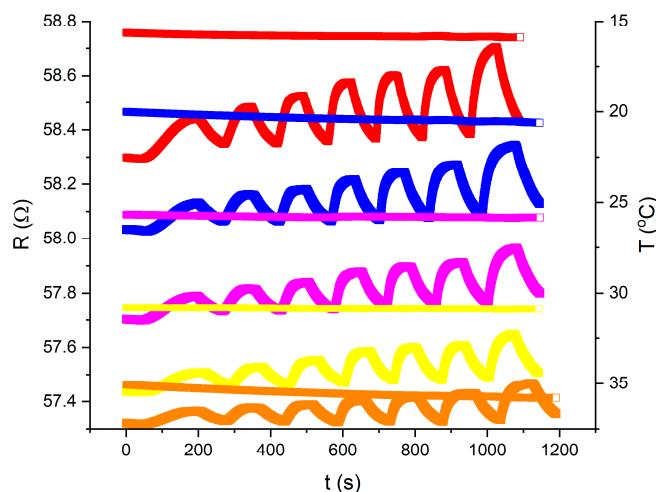


Figure S2. Temperature stability during the measurements. The nearly horizontal lines are measurements of temperature and should be referenced to the right vertical axis. The curves are measurements of resistance, also shown in Figure 4 of the main text, and correspond to values shown on the left vertical axis.

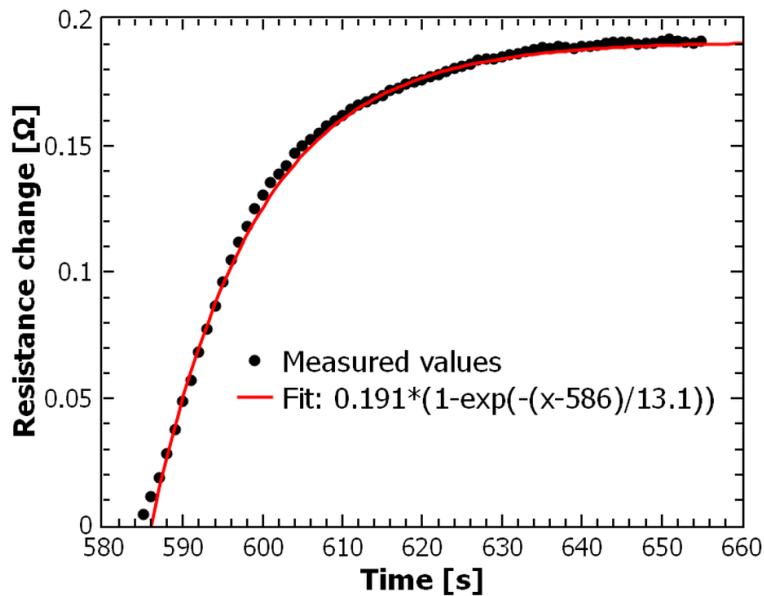


Figure S3. Exponential fit to experimental data.

Table S1. Original data for ΔR_{\max} , measured from data shown in Figure 4 and plotted in Figures 5 and 8 of the main text.

Temperature (°C)	150 ppm	300 ppm	600 ppm	1200 ppm	2500 ppm	5000 ppm	10,000 ppm
15	0.14604	0.1355	0.17639	0.21742	0.23408	0.24768	0.3199
20	0.10367	0.0943	0.11506	0.15033	0.17289	0.19344	0.25571
25	0.08914	0.08279	0.10424	0.13838	0.14271	0.15283	0.19908
30	0.07137	0.06654	0.08926	0.1153	0.11987	0.12718	0.15955
35	0.04688	0.04731	0.06055	0.07661	0.08822	0.10187	0.13386