

1 *Supplementary Information*

2 **Copper-Embedded Reduced Graphene Oxide Fiber**
3 **for Multi-sensor**

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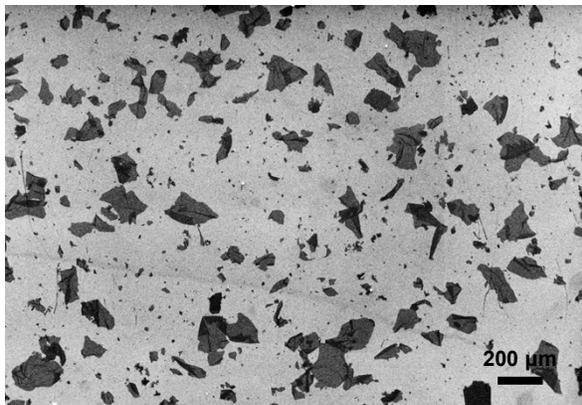
14 [‡]These authors contributed equally to this work.

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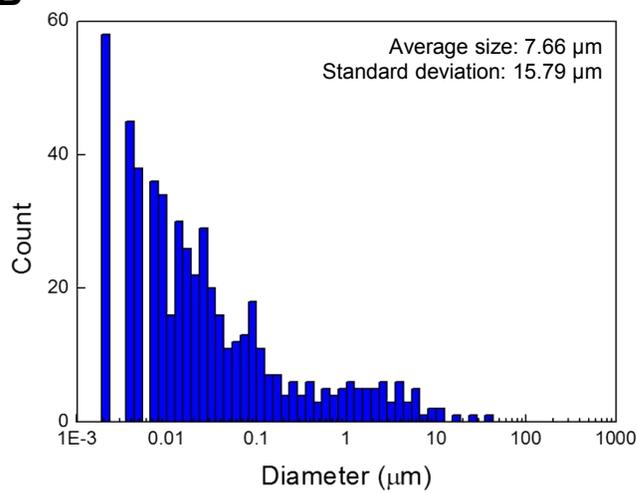
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17 1. Size information of GO

A



B



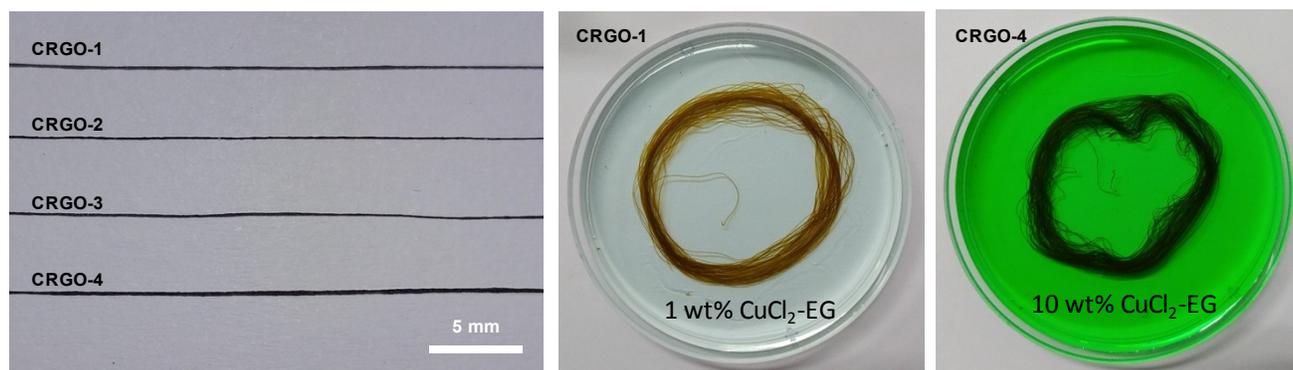
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Figure S1. (A) Photo image and (B) size distribution of the prepared GO.

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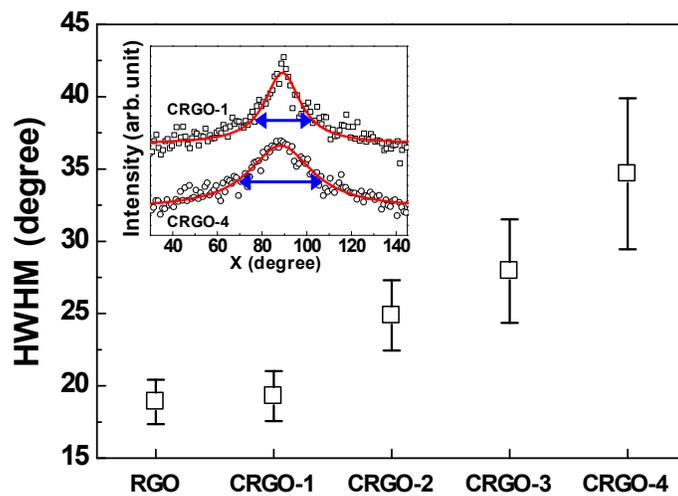
21 **2. Fabricated CROG fibers**



23 **Figure S2.** Photo image of a CRGO fiber longer than 30 cm fabricated in a co-flow wet-spinning
24 machine with different concentrations of CuCl_2 in EG (CRGO-1, CRGO-2, CRGO-3, and CRGO-4).

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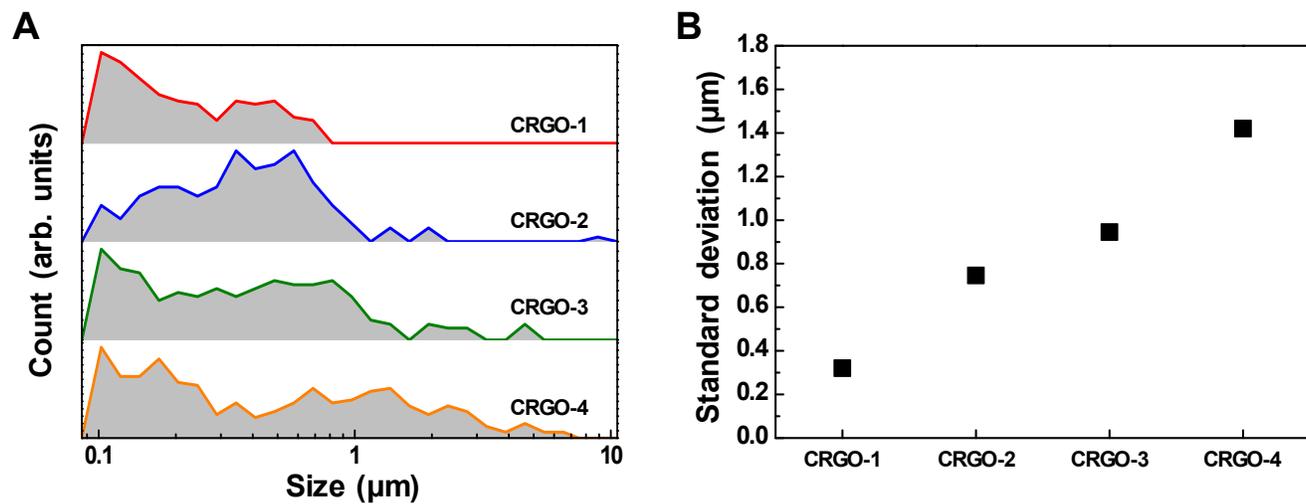
26 3. Line profiles of FFT frequency domain images of CRGO fibers
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29 **Figure S3.** Line profiles of FFT frequency domain images of CRGO fibers

30 4. Size distribution of CuI and Cu particles

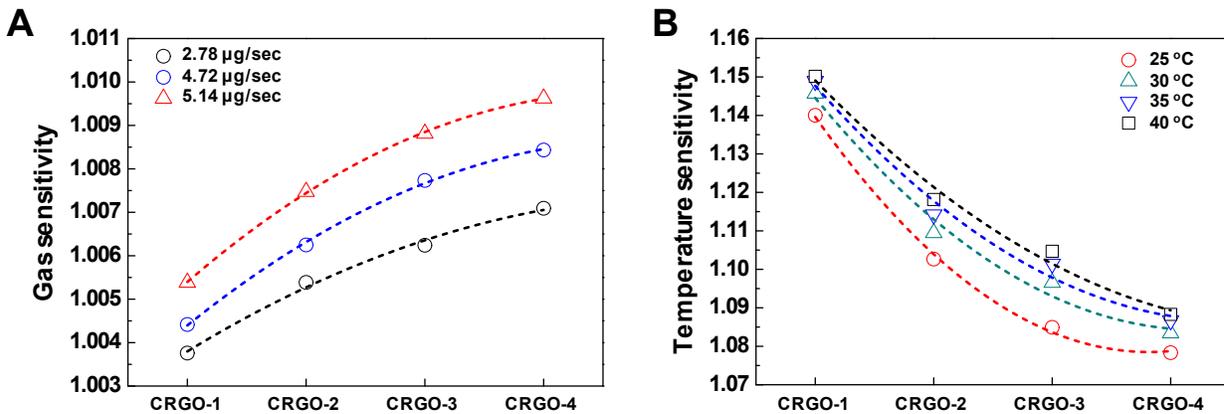


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32 **Figure S4.** Size distribution of CuI and Cu particles calculated from the SEM images (A), and standard
33 deviation of the particle size (B)

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35 5. Sensitivity of CRGO fibers to chlorobenzene and temperature.



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37 **Figure S5.** (A) Gas sensitivity of CRGO fibers for three different evaporation rates (2.78 μg/s, 4.72 μg/s,
38 and 5.14 μg/s). (B) Temperature sensitivity of CRGO fibers for four different temperature (25 °C, 30 °C,
39 35 °C, and 40 °C).

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