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Supplementary Material: Fabrication and Characterization of Humidity Sensors based on Graphene Oxide–PEDOT:PSS Composites on a Flexible Substrate

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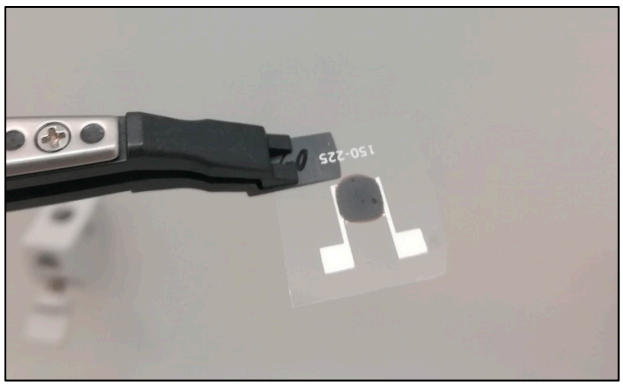

Figure S1. Actual view of one of the flexible RH sensors presented in this work.

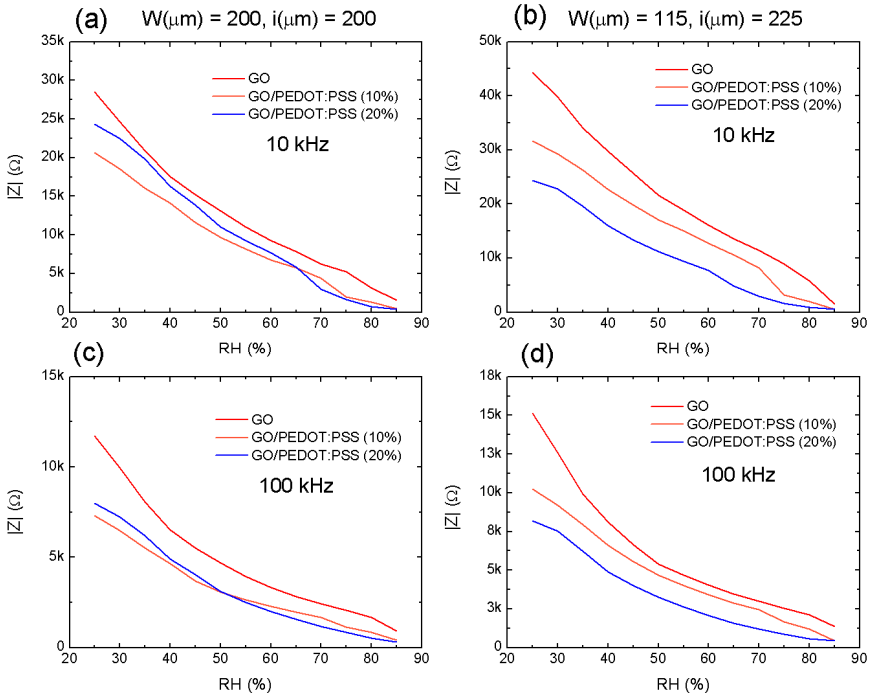

Figure S2. Absolute value of the impedance as a function of the relative humidity measured at different frequencies for both layout 1 (10 kHz (**a**) and 100 kHz (**c**)) and layout 2 (10 kHz (**b**) and 100 kHz (**d**)) using GO and the hybrid GO/PEDOT:PSS composites as sensitive layers.

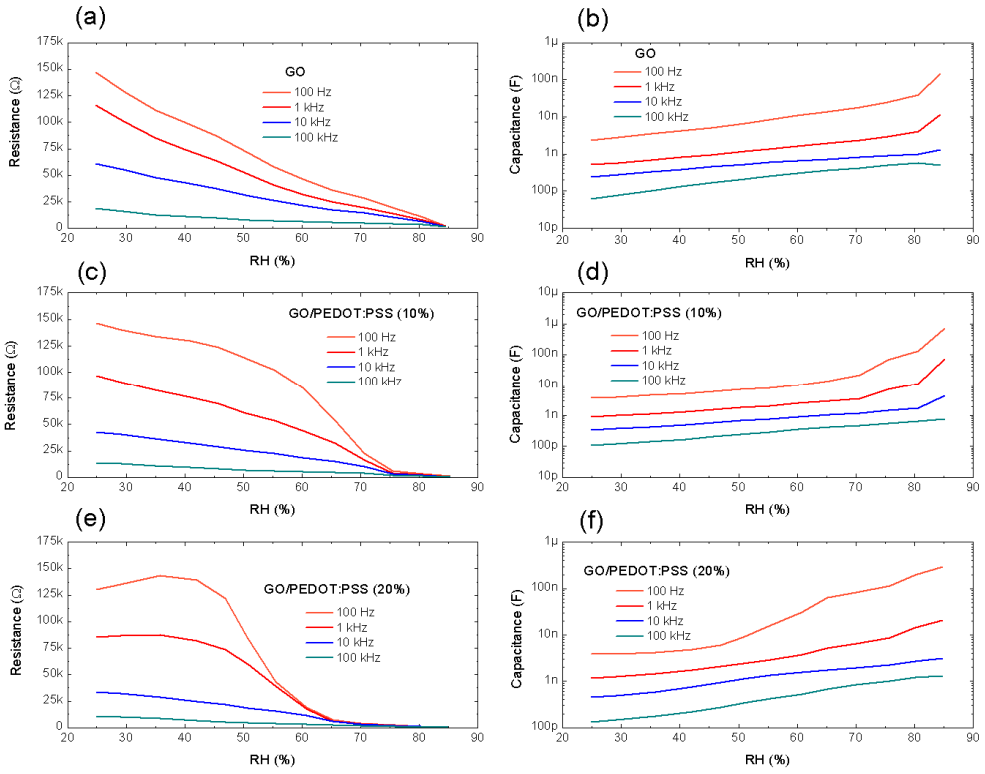

Figure S3. Equivalent parallel resistance and capacitance for layout 2 (W = 115 μm, i = 225 μm) at different frequencies using GO and the hybrid GO/PEDOT:PSS composites as sensitive layers; being (**a**) and (**b**) the results obtained for the GO layer, while (**c**)-(**d**) and (**e**)-(**f**) are the results associated to the GO/PEDOT:PSS (10%) and GO/PEDOT:PSS (20%) layers, respectively.

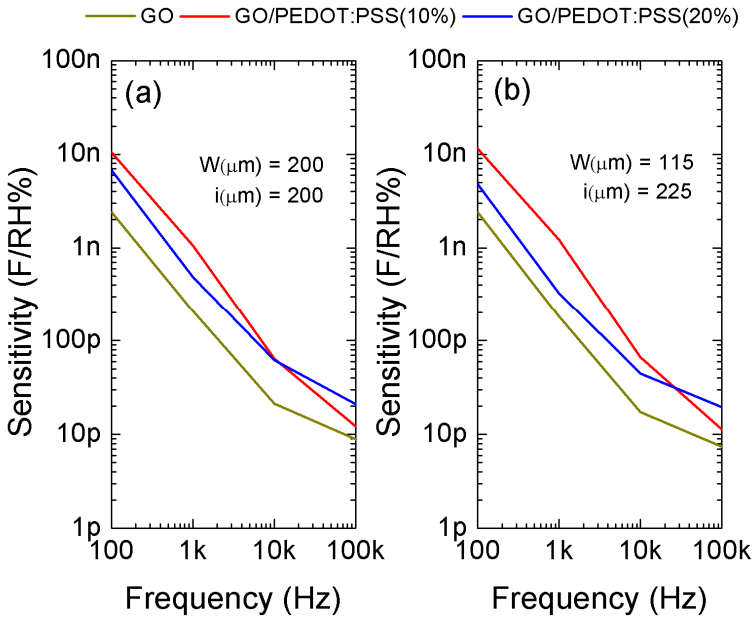

Figure S4. Sensitivity as a function of the frequency for the two layouts considered in this work ((**a**) layout 1, (**b**) layout 2), as well as the three different sensitive layer.