

# Hydrophobization of reduced graphene oxide aerogel using soy wax to improve sorption properties

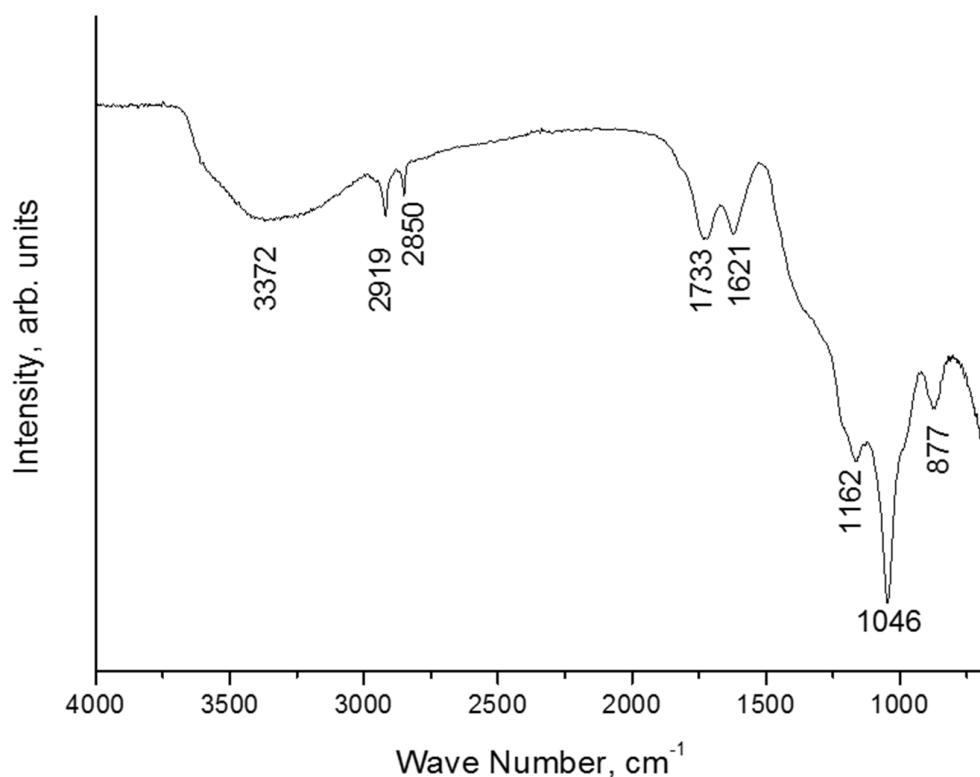
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**Video S1:** Change in aerogel shape (swelling effect) upon solvent adsorption.



**Figure S1.** The IR spectrum of GO.

**Table S1.** Positions of the main peaks in the IR spectrum of soy wax.

| <b>Peak</b> | <b>X (cm<sup>-1</sup>)</b> | <b>Y (%T)</b> |
|-------------|----------------------------|---------------|
| 1           | 3307.55                    | 95.34         |
| 2           | 2954.98                    | 81.64         |
| 3           | 2915.08                    | 41.01         |
| 4           | 2849.66                    | 56.18         |
| 5           | 1736.99                    | 53.13         |
| 6           | 1729.21                    | 53.94         |
| 7           | 1470.89                    | 71.50         |
| 8           | 1416.63                    | 87.42         |
| 9           | 1391.26                    | 79.48         |
| 10          | 1331.82                    | 88.00         |
| 11          | 1286.40                    | 81.95         |
| 12          | 1267.99                    | 77.18         |
| 13          | 1255.42                    | 76.36         |
| 14          | 1215.00                    | 77.58         |
| 15          | 1194.84                    | 70.65         |
| 16          | 1174.28                    | 49.04         |
| 17          | 1105.97                    | 74.73         |
| 18          | 1061.48                    | 82.59         |
| 19          | 1047.55                    | 82.76         |
| 20          | 1015.44                    | 88.60         |
| 21          | 992.30                     | 86.94         |
| 22          | 963.85                     | 78.36         |
| 23          | 891.54                     | 90.98         |
| 24          | 717.93                     | 69.61         |
| 25          | 629.42                     | 91.72         |
| 26          | 464.38                     | 92.62         |