

### Supporting Information

#### **Graphene-Like Carbon Fibres Derived from Cotton Waste for High-Performance Supercapacitors: Computational and Experimental Investigation**

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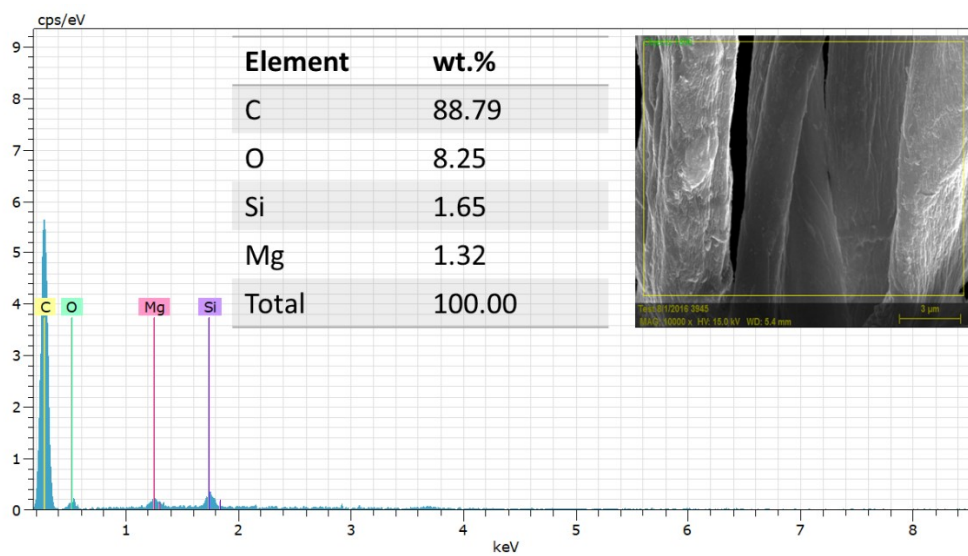
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**Table S1.** XRD analysis of the GLCFs.

Peak assignment	2θ (°)	FWHM (°)	d-spacing (nm)	Crystallite size (nm)	Microstrain	Dislocation density (nm <sup>-2</sup> )
Low-angle disordered/expanded carbon feature	12.886	1.074	0.686	7.446	0.0415	0.0180
(002) turbostratic graphitic carbon	26.023	2.452	0.342	3.326	0.0463	0.0904
Sharp minor crystalline/impurity peak	32.608	1.086	0.274	7.619	0.0162	0.0172

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(100/101) in-plane graphitic carbon	41.878	1.152	0.216	15.102	0.0131	0.00438
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**Figure SI 1.** EDX of GLCFs