Unlocking the Full Potential of Citric Acid-Synthesized Carbon Dots as Supercapacitor Electrode Material via Surface Functionalization

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Table S1: Calculation of Energy Band Gap, TEM size, and Hydrodynamic Radius for CD and CD-bis.

<table>
<thead>
<tr>
<th>Sample name</th>
<th>Calculation band gap energy (eV)</th>
<th>Size by TEM (d.nm)</th>
<th>Hydrodynamic radius (d.nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>2.58</td>
<td>2.53</td>
<td>24.72 ± 2.34</td>
</tr>
<tr>
<td>CD-bis16</td>
<td>2.61</td>
<td>2.70</td>
<td>19.17 ± 3.13</td>
</tr>
<tr>
<td>CD-bis64</td>
<td>2.63</td>
<td>2.64</td>
<td>23.58 ± 2.70</td>
</tr>
</tbody>
</table>
Figure S1. Tauc plot graphs which calculated from UV/Vis data of CDs.

Figure S2. Determination of Band Gap Energy from the Photoluminescence of CDs.