Facile synthesis of high-surface-area nanoporous carbon from biomass resource and their application in supercapacitors

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Fig. S1 The introduction of Root Of Multibract Raspberry.

Title: Root Of Multibract Raspberry
Latin plant animal Mineral name: Rubus Multibracteatus Lévl.Et Vant.
The original form of Root Of Multibract Raspberry shrubs, 2-3m high. Flowering from April to June, fruit period from August to September. Habitat distribution of the ecological environment: born at an altitude of 700-2500 m hillside and valley shade shrub or forest edge and roadside. Distribution of resources: distributed in China's Guangdong, Guangxi, Yunnan, Guizhou province. Link information: http://www.xjishu.com/yiyao/zy/28344.html.

Table S1 the various element content of Root Of Multibract Raspberry.

<table>
<thead>
<tr>
<th>Element</th>
<th>Ray-type</th>
<th>Apparent concentration</th>
<th>k ratio</th>
<th>wt%</th>
<th>wt% Sigma</th>
<th>Standard sample label</th>
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</thead>
<tbody>
<tr>
<td>C</td>
<td>K</td>
<td>20.55</td>
<td>0.20549</td>
<td>58.23</td>
<td>0.18</td>
<td>C Vit</td>
</tr>
<tr>
<td>O</td>
<td>K</td>
<td>14.77</td>
<td>0.04969</td>
<td>39.86</td>
<td>0.18</td>
<td>SiO2</td>
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<tr>
<td>Al</td>
<td>K</td>
<td>0.08</td>
<td>0.00061</td>
<td>0.16</td>
<td>0.02</td>
<td>Al2O3</td>
</tr>
<tr>
<td>Cl</td>
<td>K</td>
<td>0.21</td>
<td>0.00181</td>
<td>0.39</td>
<td>0.02</td>
<td>NaCl</td>
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</tbody>
</table>
Fig. S2. The XRD patterns of NPC for different calcination temperatures.

Fig. S3. The XPS spectrum of NPC-800,900 and 1000.

Fig. S4. The IR drops curves of NPC800, 900 and 1000.

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<tbody>
<tr>
<td>K</td>
<td>K</td>
<td>0.48</td>
<td>0.00410</td>
<td>0.87</td>
<td>0.03</td>
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<td>Ca</td>
<td>K</td>
<td>0.26</td>
<td>0.00235</td>
<td>0.49</td>
<td>0.03</td>
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<td></td>
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<td></td>
<td>Total: 100.00</td>
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</table>
Fig. S5 (a) CV curves of NPC-900 (8 mg cm$^{-2}$) at different scan rates. (b) GCD curves of NPC-900 (8 mg cm$^{-2}$) at the different current densities. (c) The specific capacity of NPC-900 (8.3 mg cm$^{-2}$) and at various current densities. (d) Nyquist plots of NPC-900 (8 mg cm$^{-2}$).