Supplementary Materials

Ultrafast fabrication of H2SO4, LiCl, and Li2SO4 gel electrolyte supercapacitors with reduced graphene oxide (rGO)-LiMnOx electrodes processed using atmospheric-pressure-plasma jet

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**Supplementary Information**

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| **一張含有 螢幕擷取畫面, 行, 黑暗 的圖片  自動產生的描述** | **一張含有 螢幕擷取畫面, 行 的圖片  自動產生的描述** | **一張含有 螢幕擷取畫面, 黑暗, 行, space 的圖片  自動產生的描述** |
| (**a-1**) | (**a-2**) | (b-1) |
| 一張含有 螢幕擷取畫面, 行, 黑暗 的圖片  自動產生的描述 | 一張含有 螢幕擷取畫面, space, 行 的圖片  自動產生的描述 | 一張含有 螢幕擷取畫面, 文字, 行 的圖片  自動產生的描述 |
| (**b-2**) | (**c-1**) | (**c-2**) |
| 一張含有 文字, 螢幕擷取畫面, 字型, 時鐘 的圖片  自動產生的描述 |  |  |
| (**d**) |  |  |

**Figure S1.** Trasatti plots generated for HSCs using 1 M (a) H2SO4, (b) LiCl, and (c) Li2SO4 gel electrolytes. Plots of (a-1, b-1, c-1) vs. and (a-2, b-2, c-2) vs. . (d) Capacitance contributions ratio of PC/EDLC.

**Table S1.** Capacitance contributions of HSCs.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Ctotal  (mF/cm2) | Cout (mF/cm2) | Cin (mF/cm2) | Capacitive Contribution (EDLC:PC) (%) |
|  | APPJ - 180 s | 90.74 | 26.32 | 64.42 | 29.0:71.0 |
| APPJ - 300 s | 100.70 | 37.82 | 62.88 | 37.6:62.4 |
|  | APPJ - 180 s | 111.48 | 22.65 | 88.83 | 20.3:79.7 |
| APPJ - 300 s | 149.03 | 28.64 | 120.39 | 19.2:80.8 |
|  | APPJ - 180 s | 144.51 | 22.03 | 122.48 | 15.2:84.8 |
| APPJ - 300 s | 169.20 | 22.62 | 146.58 | 13.4:86.6 |