Supporting information

Nitrogen-doped micro-nano carbon sphere with multi-scale pore structure obtained from interpenetrating polymer networks for electrochemical capacitor

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This supporting information includes:
Scheme S1, Scheme S2, Figure S1, Figure S2, and Table S1
Scheme S1. Formation mechanism of (I) polymer network of IPN.

Scheme S2. Formation mechanism of (II) polymer network of IPN.
Figure S1. TGA curves of the PMMA.

Table S1 Parameters determined by Raman spectrum of N-CS-IPN-2, N-CS-IPN-3 and N-CS-IPN-4.

| Sample    | Peak position (cm⁻¹) | Peak area         | I_D/I_G | L_a (nm) |
|-----------|----------------------|-------------------|---------|----------|
|           | D  | G  | D    | G    |         |         |
| N-CS-IPN-2| 1353 | 1583 | 149685 | 96273 | 1.55    | 2.79    |
| N-CS-IPN-3| 1353 | 1589 | 1018031| 635152| 1.60    | 2.71    |
| N-CS-IPN-4| 1353 | 1593 | 896210 | 527683| 1.69    | 2.56    |

Figure S2. HRTEM image of (a) N-CS-IPN-2, (b) N-CS-IPN-3, and (c) N-CS-IPN-4, and the electron diffraction pattern (shown as an inset).