

Supporting Information for:

**Silica Microspheres Templated Self-Assembly of Three-dimensional Carbon Network
with Stable Radio-Frequency Negative Permittivity and Low Dielectric Loss**

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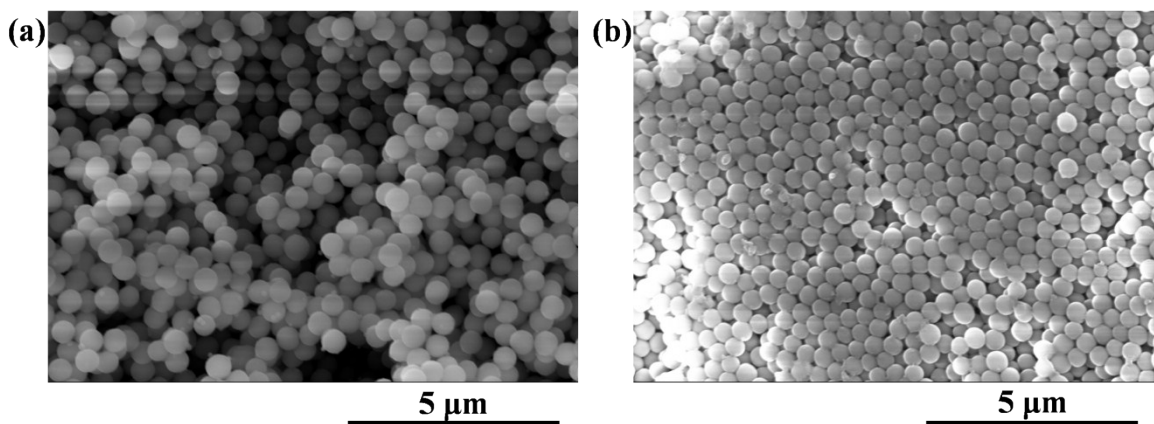


Fig. S1 SEM images of (a) SiO₂ powder and (b) neat SiO₂ bulk sintered at 800 °C for one hour.

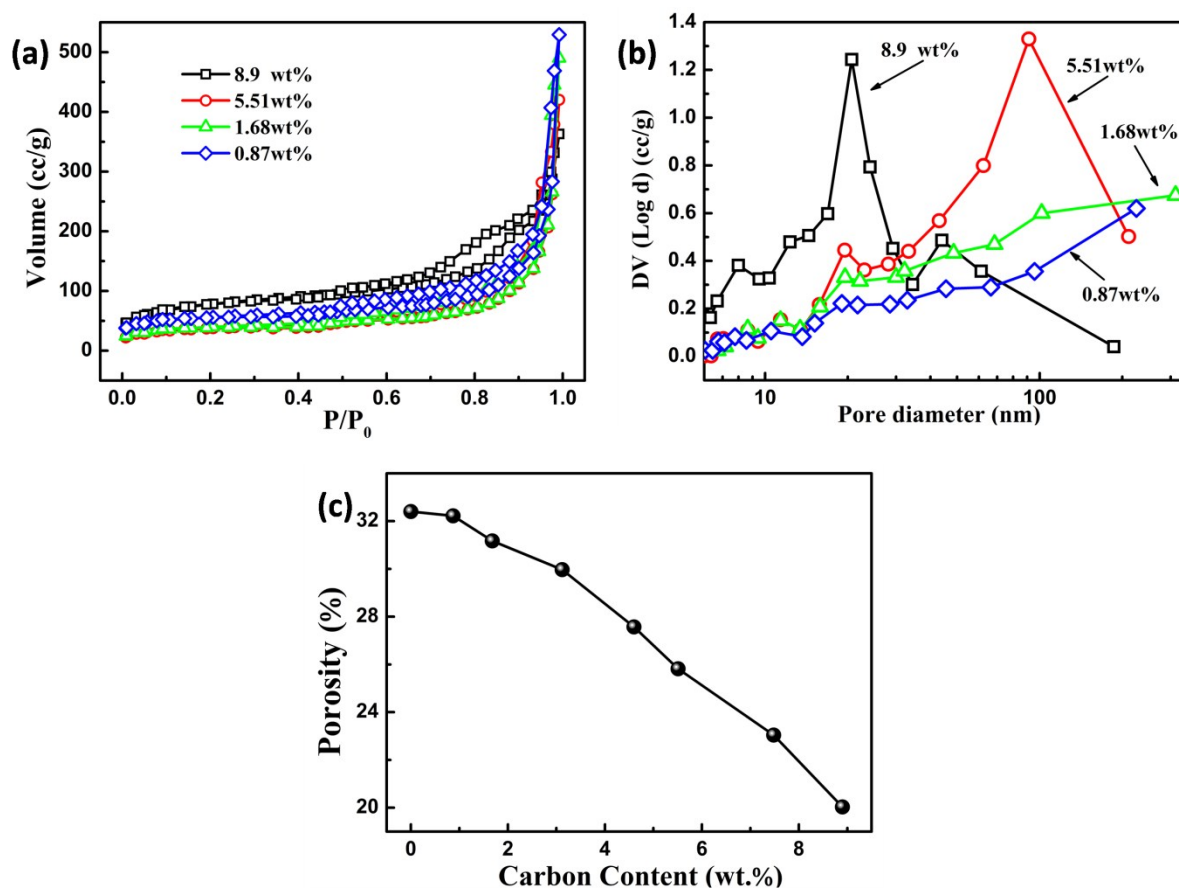


Fig. S2 (a) Nitrogen adsorption-desorption isotherm, (b) pore-size distribution and (c) open porosity of metacomposites with different carbon contents.