Supporting information

Evolution of optimal porosity for improved hydrogen storage in templated zeolite-like carbons

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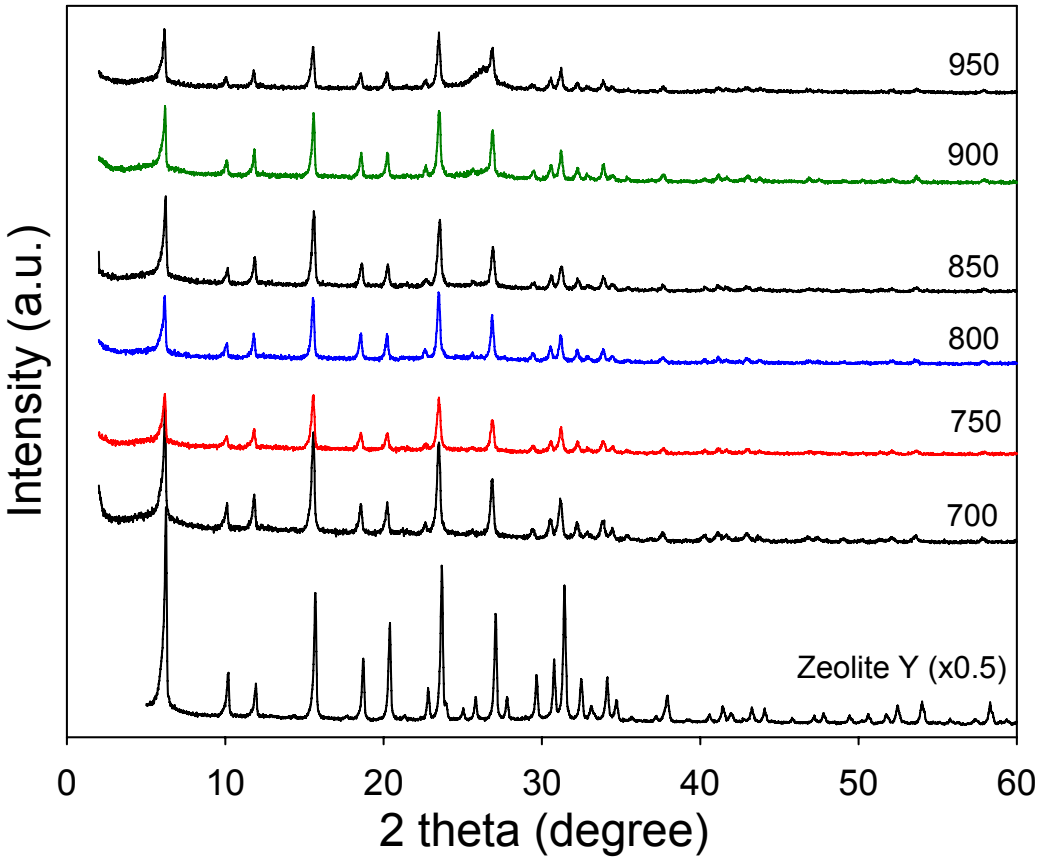
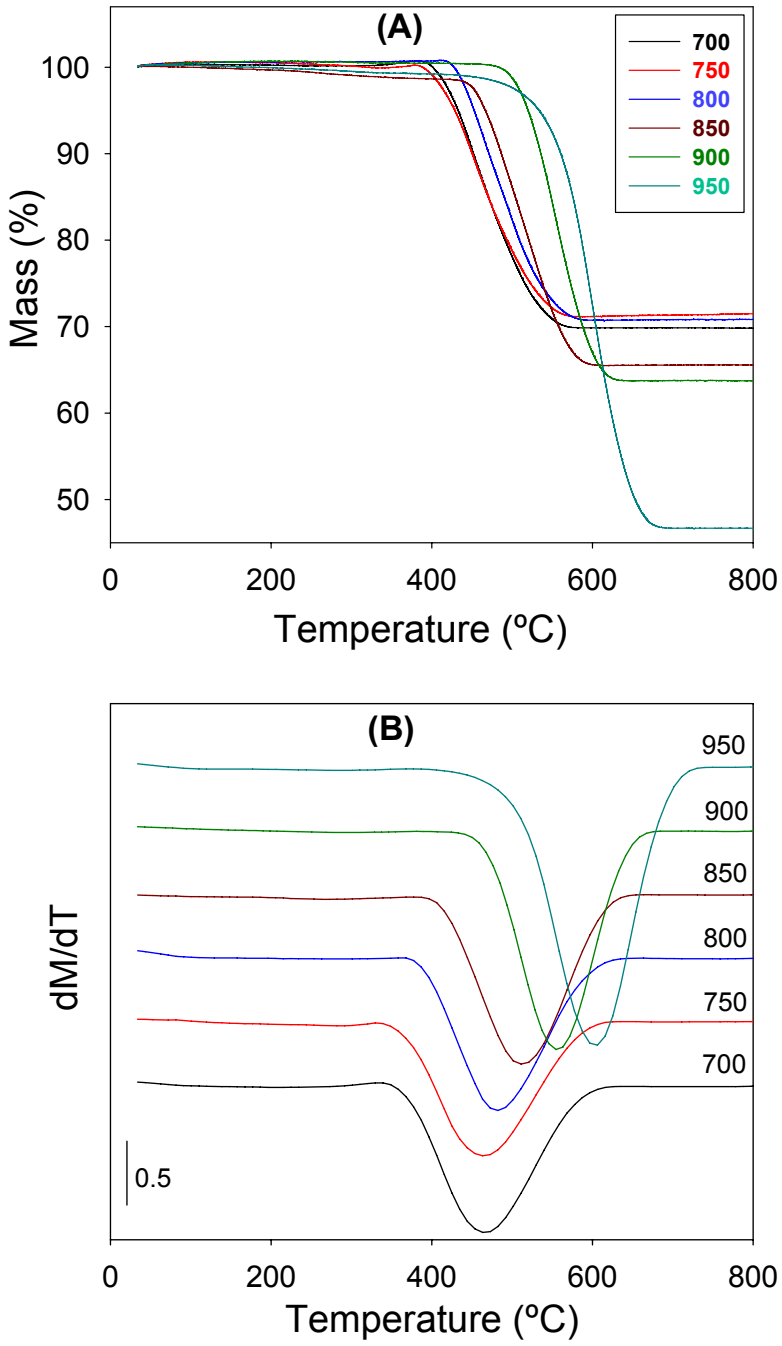
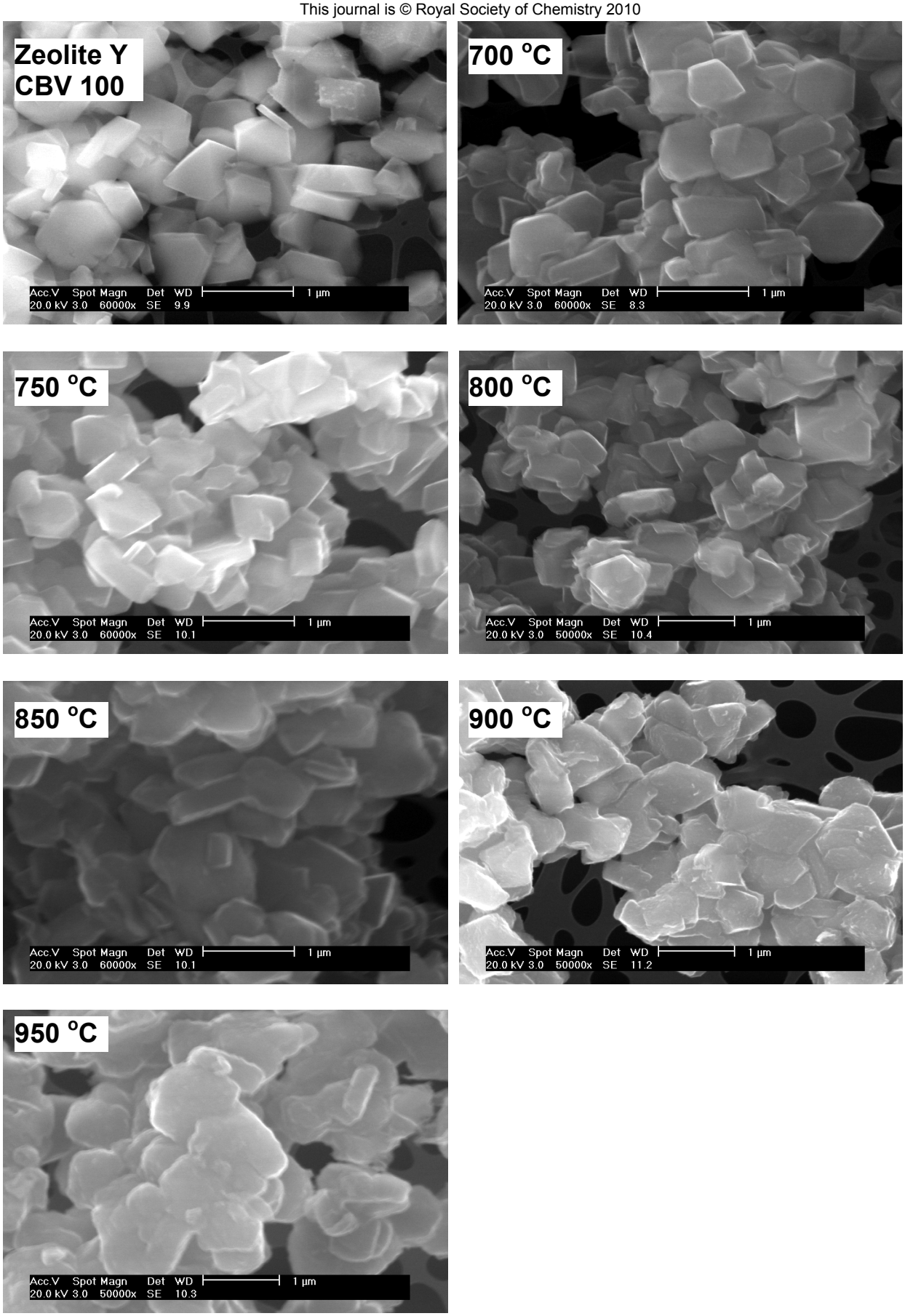


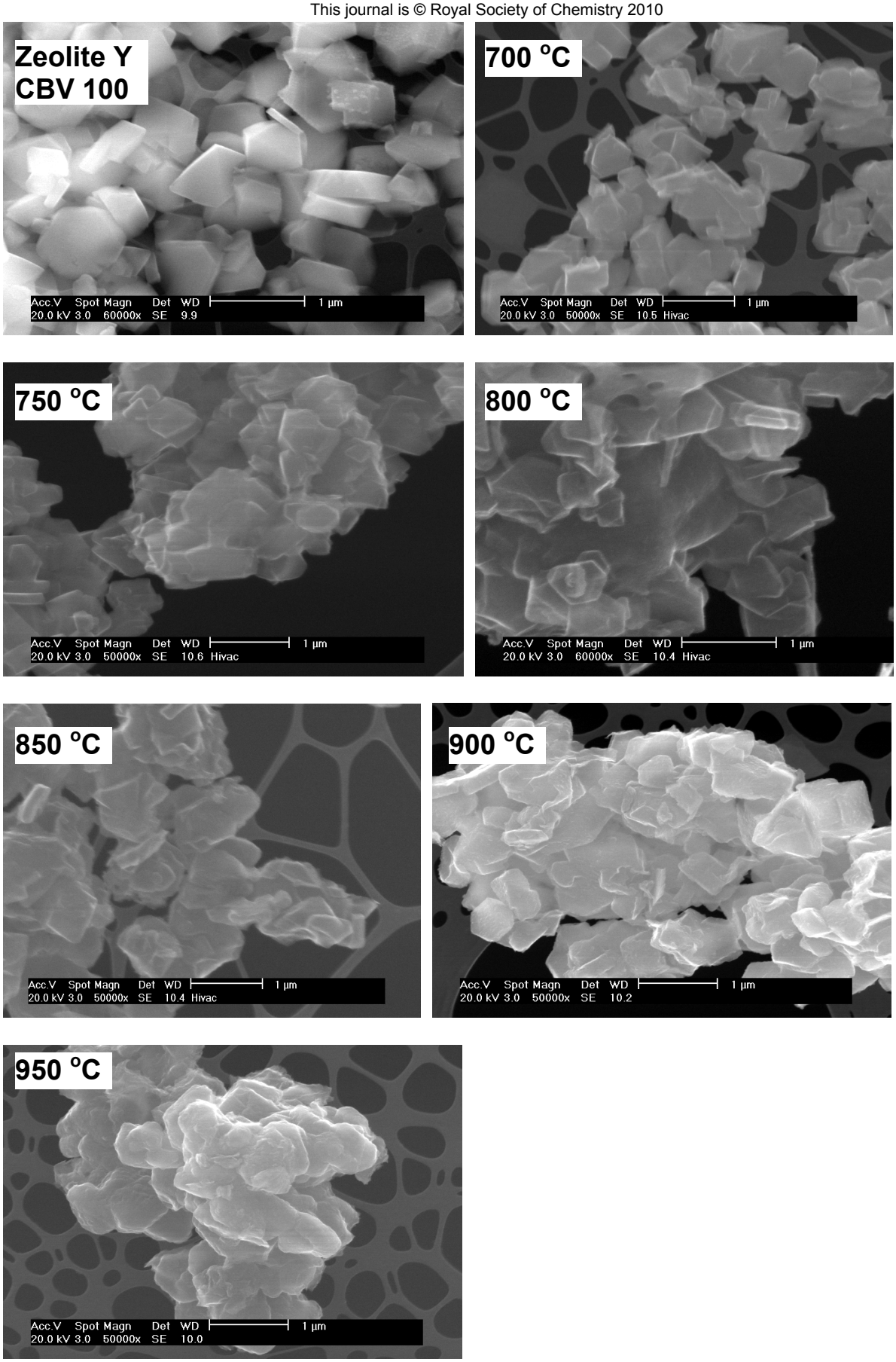
Supporting Figure S1. Powder XRD patterns of zeolite-Y template and the corresponding carbon/zeolite composites prepared at various CVD temperatures between 700 and 950°C. The numbers indicate the CVD temperature.



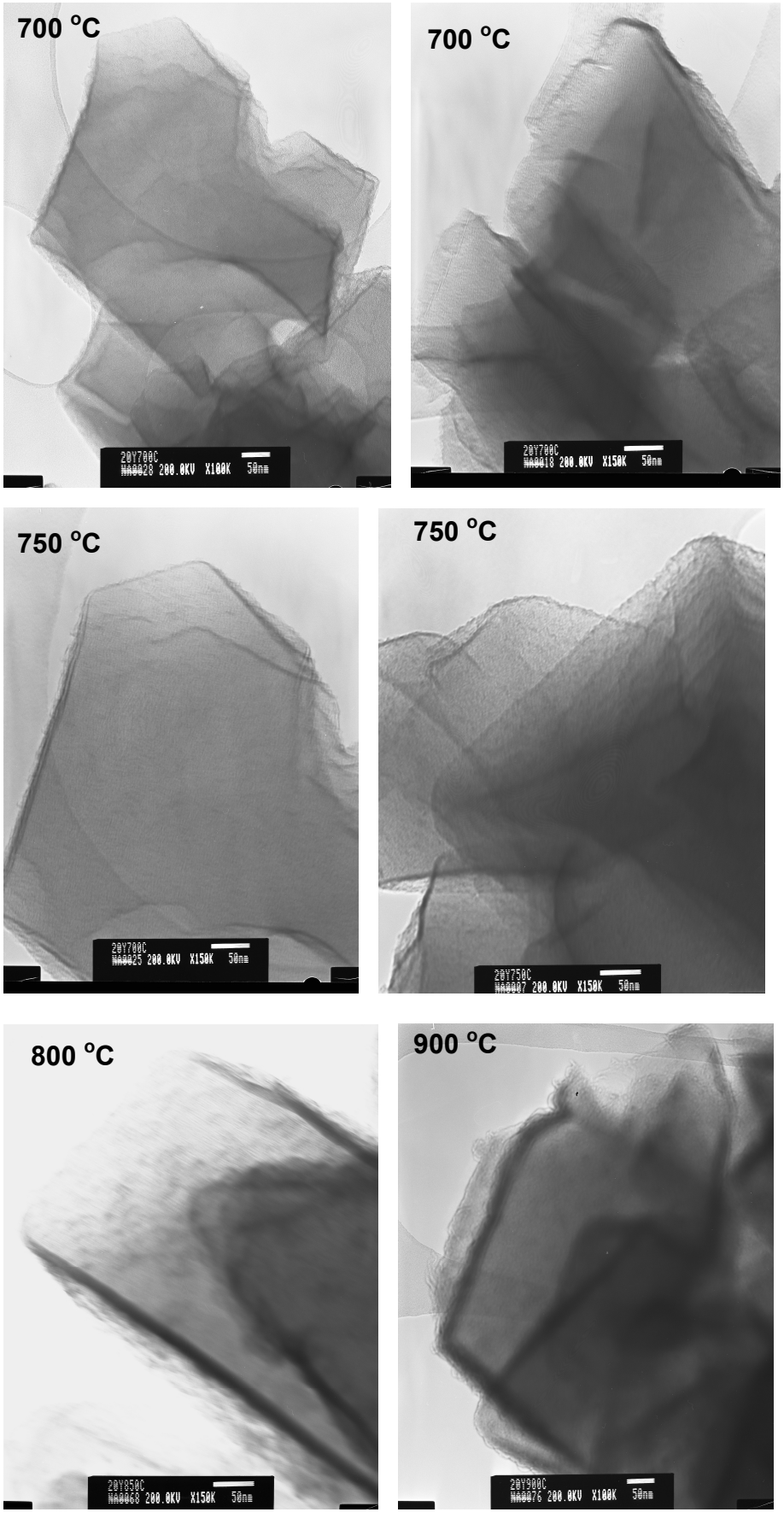
Supporting Figure S2. Thermogravimetric analysis (TGA) curves (A) and differential thermogravimetric (DTG) profiles (B) of carbon/zeolite composites prepared at various CVD temperatures between 700 and 950°C. The numbers indicate the CVD temperature.



Supporting Figure S3. Scanning electron microscopy (SEM) of carbon/zeolite composites prepared at various CVD temperatures between 700 and 950°C.



Supporting Figure S4. Scanning electron microscopy (SEM) of template carbons prepared at various CVD temperatures between 700 and 950°C.



Supporting Figure S5. Transmission electron microscopy (TEM) images of zeolite-templated carbons prepared at various CVD temperatures.