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煤基碳泡沫/聚氨酯相变复合材料的制备及储热性能

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Synthesis and Properties of Polyurethane/Coal-Derived Carbon Foam Phase Change Composites for Thermal Energy Storage

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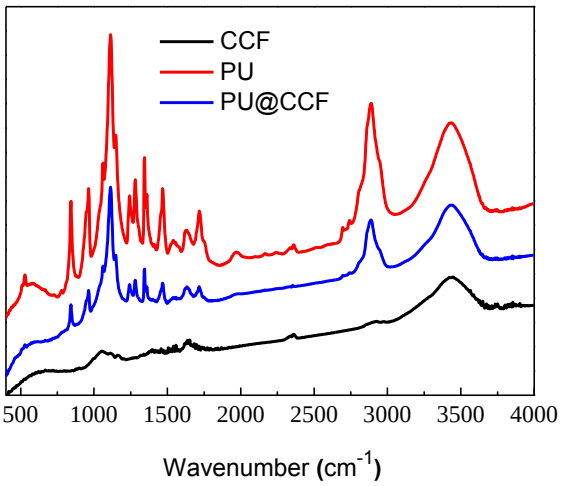

图 S1　碳炭泡沫、聚氨酯和 PU@CCF 复合材料的傅里叶变换红外光谱
Fig.S1　FT-IR spectra of carbon foam, PU and PU@CCF composite

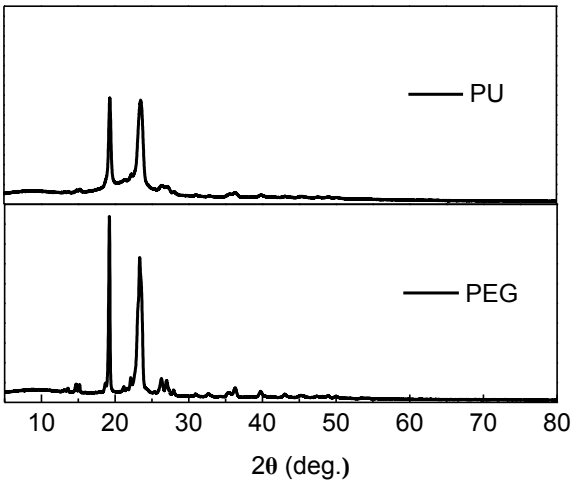

图 S2　聚氨酯和 PEG-6000 的粉末 XRD 图
Fig.S2　Powder XRD patterns of PU and PEG-6000

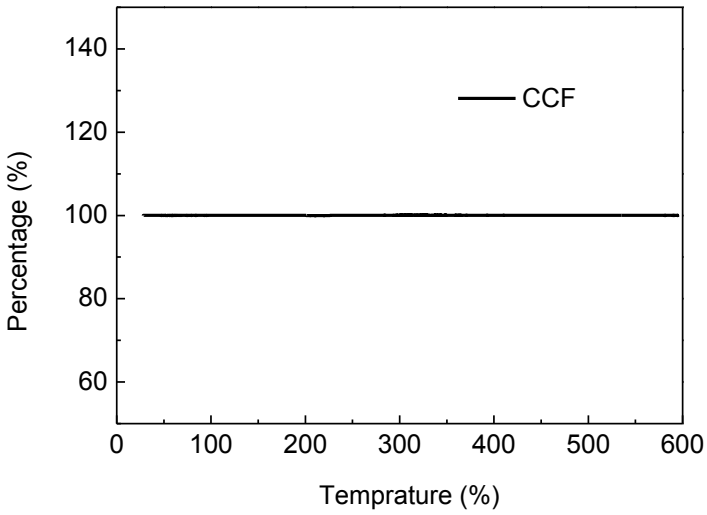

图 S3　煤基炭泡沫热重分析
Fig.S3　TGA curve of CCF

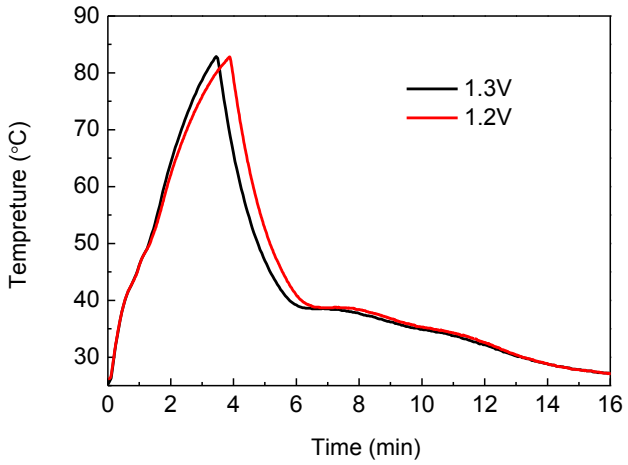

图 S4　PU@CCF 在负载电压为 1.2 和 1.3 V 时的电热转换性能
Fig.S4　Electro-heat conversation of PU@CCF under 1.2 and 1.3 V