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Interconnected sheet-like porous carbons from coal tar by a confined soft-template strategy for supercapacitors

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Abstract

Three-dimensional (3D) porous carbon materials made of two-dimensional carbon sheets possess great potential as high-performance electrode materials for supercapacitors. In this work, 3D interconnected sheet-like porous carbons (ISPCs) are constructed from cheap coal tar for the first time by a confined ionic liquid soft-template strategy coupled with *in-situ* KOH activation. The as-made 3D ISPCs are composed of thin carbon nanosheets with abundant short pores, possessing a high

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