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# Alginate-based hierarchical porous carbon aerogel for high-performance supercapacitors

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## Abstract

Hierarchical porous carbon materials belong to the potential candidate materials for advanced supercapacitors (SCs). The macro-meso-microporous structure of carbon materials is effective for improving electrochemical performance. We demonstrate a sustainable biomass conversion process and non-templated strategy to fabricate the macro-meso-microporous carbon aerogel (CA) through carbonization of the

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