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(57) Abstract :

The present disclosure relates to a process of preparing three-dimensional carbon from Prosopis Juliflora comprising the steps of hydroxylation, carbonization, activation, and deposition. The three-dimensional carbon may be used to fabricate a flow field plate that may be employed in a fuel cell, specifically a direct ethanol fuel cell (DEFC). The three-dimensional carbon of the present invention possesses high electrical and thermal conductivity.

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