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Efficient treatment of rice byproducts for preparing high-performance activated carbons

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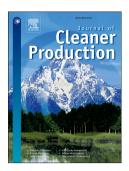
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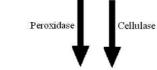
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by alkali



Biological One step process  $\mathrm{H_3PO_4}$ Chemical treatment

Better AC /S<sub>BET</sub> and yield Application in water treatment purposes

Rice by-products -based precursors

Cellulase pretreated Rice husks

Precursor	Total Surface area (m <sup>2</sup> g <sup>-1</sup> )	Surface area X yield	Methylene blue adsorption mg/g
Untreated RS	543	329	214
Untreated RH	426	299	145
Cellulase treated RH	1000	777	214

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