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Kinetic and equilibrium studies of hydrophilic and hydrophobic rice husk cellulosic fibers used as oil spill sorbents

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Keywords: delignification, oil sorption, cellulose, acetylation, kinetics, isotherm

HIGHLIGHTS:

Both chemical and biological methods are used to pretreat the rice husks.

Kinetic and equilibrium models have been applied to study the oil sorption kinetics.

Oil uptake capacities of different sorbents are tested in a water-oil mixed system.

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