

Potency of lignocellulose utilization from coir dust as an oil spill sorbent in water.

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Abstrak

Oil spill can contaminate the environment as a consequence of activities related to crude oil exploration, oil refinery, transportation, pipeline leaking, and industrial processes. This research related with the characteristics of coir dust as oil sorbent material to remove oil from water. Hydrophobicity is an important parameter that determines the effectiveness of the oil sorbent. Some treatment were done in this research to increase the hydrophobicity of coir dust. Moreover, these treatments were expected to improve oil sorption capacity of coir dust. They are heating and acetylation process. The results showed both of heating and acetylation could increase hydrophobicity and oil sorption capacity onto coir dust.