

The scarcity of water is a major problem in many countries. In addition, contaminated water sources will have to be taken into account more and more in the future. This will increase the cost of treatment. The utilization of by-products and waste materials as a raw material for water treatment chemicals has been suggested as a way to reduce costs. Lignocellulosic materials, like sawdust, are excellent raw materials since they are abundant, renewable, and cheap. The main uses of sawdust are mainly in particle-board, as an energy source, and as cattle bedding material. Sawdust has been studied as a water treatment material both