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Lignocellulosic Residues for Physical Removal of Harmful Dyes from Industrial Waste Water- Availability, Utilization and Scope

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Abstract: Tonnes of ligno-cellulosic waste are produced worldwide, which is not used any further except, some of it being used for fuel generation and certain other small-scale applications. The need for sustainable methods for preserving the environmental quality that is under immense threat from conventional chemical based industries urgently needs to be investigated and put it into place. Dyes form one of the major industrial pollutants and possible alternatives to minimize/remove the environmental threat posed by such industrial dye wastewaters in the best economical way possible are seriously required. Reutilization of ligno-cellulosic waste for dye removal from industrial wastewaters offers a feasible, environment friendly and economical solution to this problem. The current review highlights the importance of major ligno-cellulosic waste available worldwide for removal of dyes from industrial wastewaters and reports the worldwide availability of various types of such residues for dye removal, possible mechanisms involved in such applications and future scope of agri-residues for improving the environmental quality.

Key Words: Lignocellulosic waste, Environmental pollution, Industrial dyes.

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