Removal of some pollutants from simulated waste water

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The aim of the thesis is to study the possibility of using activated carbon , prepared from agricultural waste, to remove pollutants from simulated waste water, to avoid environmental hazards to human health, animal and plant. The study involved the disposal of agricultural waste in safe and useful way to product yields that have economic value such as activated carbon. This starts with dry the wastes, treat it by using phosphoric acid as a catalyst, handle heat to activate it and using it in different studies.Divided this study to the follwing chapters1 - Chapter I: IntroductionIt contains a definition of active carbon and methods of preparation, methods of preparation , applicability of it in gas, liquid phase and scientific survey of the various research on the subject of the search until the latest research on patrol operation.1 - Chapter II: ExperimentalThe experimental, comprise: detailed information concerning the preparation of activated carbon by chemical activation with phosphoric acidInstrumentation as well as different experimental techniques and procedures used are also included.3 - Chapter III (the results and discussion)This chapter contains the results and discussion, includes the experimental results obtained and their interpretation.The following parts are covered in this chapter:Determination of point of zero charge of activated carbonBoehm’s titrationIRspectra of activated carbonKinetic study of Mg+ on A.C.Kinitic study of Cu+2 on A.C.Kinitic study of Pb+2 on A.C.4-Chapter FourSummary and contains what has been interpreted for results5-Chapter V (references)It contains the references that were relied upon in this study arranged Ascending digitally as it exists within the message