



Proposition of a new adsorption refrigeration system using activated carbon prepared from olive stones[#]

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Abstract: The aim of the current paper is to propose a new solar adsorption refrigerator using a compound adsorbent fabricated from activated carbon issued from olive stones. High efficiency activated carbon (AC) with different chemical characteristic was prepared. It was established that activated carbon is obtained from carbonized olive stones in presence of argon in the temperature range from 700 to 800 °C and activated by ZnCl₂ and KOH. The characterization of the activated carbon samples was studied by SEM (scanning electron microscope) technique.

Keywords: *Activated carbon, olive stones, SEM, adsorption, refrigeration system*

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