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Preparation of High performance Activated Carbon from Cocoon with Potassium Carbonate

Akira KOJIMA¹⁾, Teruaki OGAWA¹⁾, Masao FUJISHIGE¹⁾ and Youichi KAMIISHI²⁾

1) Department of Chemistry and Material Science, Institute of Gunma National College of Technology

2) Science and Technology Promotion Division, Gunma Prefecture

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Abstract

New usage of cocoon was investigated for applying activated carbon. The largest specific surface area of activated cocoon plate carbon was obtained by a treatment with K_2CO_3 in the former paper. In order to obtain more large specific surface area, various condition of activation were examined. In this study, the largest value of specific surface area was $5571m^2/g$, which was obtained under the condition of heating at $800^\circ C$ for 1h after immersed in an aqueous solution of K_2CO_3 . Mean value of micro hole diameter was about 0.5 nm.

Keywords

activated carbon, activation, cocoon, surface area, pore size distribution

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