

研究論文

ペレット化したリンゴ剪定枝を原料とした活性炭の物性

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Physical Properties of Activated Carbon from Pelletized Pruned Apple Branches

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Properties of activated carbon made from pruned apple branches by pelletization were investigated by comparison with those of commercial activated carbon. The results disclosed that the specific surface area and micropore volume were inversely proportional to the yield in both two cases. Besides, although there is an increasing tendency of mesopore volume with the drop of field in both cases, the statistic result shows that activated carbon made from pruned apple branches have a significantly higher coefficient of determination than that of commercial activated carbon. Furthermore, for both two kinds of activated carbons, the peak positions of differential micro- and meso- pore volume vary with the yield.

Keywords : pruned apple branches, activated carbon, specific surface area, micropore volume, mesopore volume