Characteristics of Fluorinated Ni-doped Activated Carbon Fibers

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In order to examine the relation between surface property and metal doping, the surfaces of activated carbon fibers (ACFs) were modified by fluorination and/or metal doping. The fluorinated ACFs were impregnated with Ni(NO₃)₂.6H₂O dissolved with acetone. The properties of fluorinated Ni-dispersed ACFs were investigated by BET surface area analysis, scanning electron microscopy (SEM), energy dispersive spectroscopy (EDS) and X-ray diffraction (XRD). X-ray photoelectron spectroscopy (XPS). Also, BET surface area of fluorinated ACFs with/without nickel was decreased as the partial pressure of fluorine.