



Wastewater Treatment using Carbon Nanotubes

By Ahmed Kamil

LAP Lambert Academic Publishing Mai 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - This book is focused on the preparation of a MWCNTs/P25 composite, and analyzing the prepared composite using different techniques. The adsorption capability of the MWCNTs and the photocatalytic activity of the synthesized MWCNTs/P25 samples were quantified in terms of their adsorption capacity and the photocatalytic degradation of organic dye. This research consists of three main parts. In the first part, the MWCNTs/P25 composite was synthesized using simple evaporation and a drying process. In the second part, the structural, morphological and chemical properties of the synthesized MWCNTs/P25 composite were investigated by different analytical techniques such as Raman spectroscopy, X-ray diffraction (XRD), Fourier transform infrared spectroscopy (FTIR), UV-visible diffuse reflectance spectroscopy and a scanning electron microscope (SEM). In the third part, two models of applications were performed: The adsorption capacity of an aqueous solution of Bismarck brown R (BBR) was used as a model of wastewater to study the treatment activity of MWCNTs and MWCNTs/P25. 96 pp. Englisch.



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