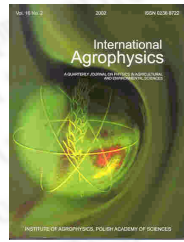




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Influence of humic acid on the structural properties of kaolin mercury porosimetry studies

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abstract The influence of the coverage of the kaolin surface with humic structural properties has been investigated. Humic acid (HA) was extracted from Ah horizon of an acid forest soil. The particle size of kaolin <math>< 2 \mu\text{m}</math> by suspension centrifugation, and kaolin consisted of 70% kaolinite. All powdered forms and, in addition, some selected samples were used as analyses were performed by Carlo Erba Mercury Porosimeter Series 200 cumulative pore size distribution and the pore size distribution (PSD) curves and kaolin with HA were analysed. Bulk density, surface area, average pore size and the total porosity were calculated using cylindrical pore model. The study shows that humic acids play an important role in the structure formation of kaolin. In the analysed samples, the cumulative pore size distributions curves split into three groups.