

Sol–Gel Synthesis of Mesoporous Mixed Oxides in the ZrO_2 – SiO_2 System

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Abstract—Simple and convenient method was proposed for synthesis of mixed oxides in the system ZrO_2 – SiO_2 (10–60 mol% zirconium dioxide). Starting substances were tetraethylorthosilicate and zirconium chloride octahydrate. The surface properties of the synthesized samples were studied and the degree of their homogeneity and the strength of acid centers were determined.

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