The influence of mixed nano Al_2O_3+Cuo catalysts-that are initial radiation in air environment on the surface impact in the oxidation processes

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In this paper the oxidation/conversion process of carbon-monoxide has been investigated under various temperatures and on the surface of three types of catalysts (T-Al_2O_3, T-Al_2O_3+CuO ve RT-Al_2O_3+CuO). The researching of oxidation processes going on the surface of Nano- heterogenic catalyst modified with the Gamma radiation in air condition where the emerged anion centers, the influence of hole centers in radiolysis-catalytic transitions and the working mechanism of these process is today's actual challenge. Adsorption and desorption processes on the surface of the dielectric oxide catalyst, emerging of O-- centers, transmission of CO to CO_2 is depending on amount of atomic oxygen. As a result, it is found out that the mixed catalysts which have been modified by the impact of surface radiation have higher activity and the conversion occurs 7-10% more on its surface compared to others.

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