

عنوان مقاله:

Application of Gold Nanoparticles as a Catalyst for Automotive Pollution Control

محل انتشار:

نخستین کنگره بین المللی نانوفناوری و کاربردهای آن در صنایع نفت، گاز و پتروشیمی (سال: 1385)

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خلاصه مقاله:

Bulk gold is chemically inert and is generally regarded as a poor catalyst. However, when gold is in very small particles with diameters below 10nm and is deposited on metal oxides or activated carbon, it becomes surprisingly active, especially at low temperatures, for many reactions in chemical processing, environmental and automotive pollution control. Of the many important reactions that are known to be catalysed by gold particles supported on transition metal oxides, the oxidation of carbon monoxide is of outstanding significance

کلمات کلیدی:

gold nanoparticles, catalyst, pollution control, CO oxidation

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