

Institute of Chemical Engineering

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Gold nanoparticles as active catalyst of glucose oxidation

Publication date:	30.12.2013
Publication title:	Gold nanoparticles as active catalyst of glucose oxidation
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Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk

Abstract: Our research work was focused on selective, catalytic oxidation of glucose to gluconic acid with hydrogen peroxide as oxidant. Proposed catalysts consist of gold nanoparticles supported on alumina and titania functionalized mesoporous SBA-15 material. The catalytic activity and structural properties of obtained materials were investigated.

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Published at:	18.09.2025 14:50

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