

Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/gold-nanoparticles-as-active-catalyst-of-glucose-oxidation>

Gold nanoparticles as active catalyst of glucose oxidation

Publication date:	30.12.2013
Publication title:	Gold nanoparticles as active catalyst of glucose oxidation
Authors:	Klaudia Odrozek , Katarzyna Maresz , Agnieszka Koreniuk , Julita Mrowiec-Białoń
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.

Attachments:

[Zeszyt-17-2013](#) pdf, 6.23 MB

Created at:	04.08.2025
Published by:	Artur Wojdyła
Published at:	04.08.2025 11:44
Number of downloads:	79

Metryczka

Published by:	Artur Wojdyła
Published at:	18.09.2025 14:50

Number of views:

37