

# Institute of Chemical Engineering

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## Gold nanoparticles as active catalyst of glucose oxidation

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**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

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