

# Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/mesoporous-magnesium-oxide-xerogels-synthesis-and-structural-characteristics>

## Mesoporous magnesium oxide xerogels - synthesis and structural characteristics

<b>Publication date:</b>	30.12.2021
<b>Publication title:</b>	<a href="https://iich.gliwice.pl/en/article/mesoporous-magnesium-oxide-xerogels-synthesis-and-structural-characteristics">Mesoporous magnesium oxide xerogels - synthesis and structural characteristics</a>
<b>Authors:</b>	<a href="#">Janusz J. Malinowski</a> , <a href="#">Wojciech Pudło</a>
<b>Journal information:</b>	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
<b>Tags:</b>	<a href="#">magnesium oxide</a> , <a href="#">xerogel</a> , <a href="#">sol-gel</a> , <a href="#">nanomaterials</a> , <a href="#">mgo crystallite</a>

**Abstract:** The paper presents the results of a study on the synthesis of magnesium oxide xerogels. In the synthesis, the sol-gel method was used, in which magnesium methoxide was applied as a magnesium precursor. The obtained magnesium hydroxide was subjected to the thermal dehydration process to obtain magnesium oxide particles. The influence of xylene addition during magnesium methoxide hydrolysis on the structure of the magnesium hydroxide and oxide was investigated.

## Attachments:

[Zeszyt-25-2021](#) pdf, 6.38 MB

<b>Created at:</b>	05.08.2025
<b>Published by:</b>	Artur Wojdyła
<b>Published at:</b>	05.08.2025 12:16
<b>Number of downloads:</b>	123

Tagi: magnesium oxide, xerogel, sol-gel, nanomaterials, mgo crystallite

## Metryczka

<b>Published by:</b>	Artur Wojdyła
<b>Published at:</b>	06.08.2025 08:43
<b>Number of views:</b>	115