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- Možnost hledání článků i časopisů.
- Bezplatný přístup asi k 10 milionům článků v plném textu.

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## Vyhledávací možnosti

Dle stručné nápovědy v databázi

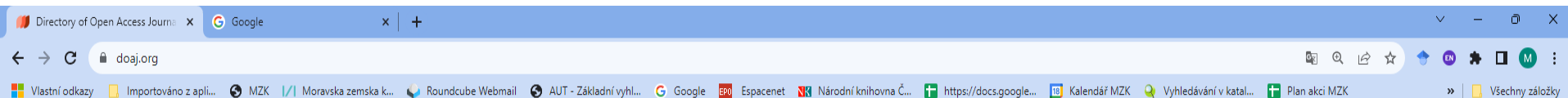
- lze používat oboustranné horní uvozovky pro frázi v názvech časopisů a článků.

Dle zkušeností lze používat

- booleovské operátory AND a OR, které je nutné psát velkými písmeny,
- hvězdičku pro pravostranné rozšíření jako náhradu za neomezený počet znaků,
- otazník jako náhradu za žádný či jeden znak.

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## Výsledky – nastavení

The screenshot shows the DOAJ search results page. At the top, there is a search bar with the query "nano\* AND health\* AND risk\*" and a dropdown menu set to "Abstract". Below the search bar, there is a "SHARE OR EMBED" button. The main content area shows "633 indexed articles". On the left side, there is a "Refine search results" section with "SUBJECTS" and "JOURNALS" filters. The "SUBJECTS" filter is currently empty. The "JOURNALS" filter is partially visible. In the center, there is a "Sort by" dropdown menu set to "Relevance" and a "Results per page" dropdown menu set to "200". Below these filters, there is a list of articles. The first article is titled "The Impact of Engineered Silver Nanomaterials on the Immune System" from the journal "NANOMATERIALS (MAY 2020)". The authors are Neethu Ninan, Nirmal Goswami, and Krasimir Vasilev. The article keywords are "silver nanomaterials, immune cells, pro-inflammatory, anti-inflammatory, implants". There is an "Abstract +" link below the keywords. On the right side of the article, there are links for "Read online", "About the journal", and "Published by MDPI AG".

Articles – Directory of Open Access Journals

doaj.org/search/articles?ref=homepage-box&source=%7B"query"%3A%7B"query\_string"%3A%7B"query"%3A"nano\* AND health\* AND risk\*"

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Articles ?

nano\* AND health\* AND risk\* Abstract

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Refine search results

SUBJECTS

Search 497 subjects

Agriculture

Fine Arts

Education

Technology

Naval Science

General Works

Geography, Anthropology.

JOURNALS

Sort by

Relevance

Results per page

200

50

100

200

NANOMATERIALS (MAY 2020)

**The Impact of Engineered Silver Nanomaterials on the Immune System**

Neethu Ninan, Nirmal Goswami, Krasimir Vasilev

**Article keywords**

silver nanomaterials, immune cells, pro-inflammatory, anti-inflammatory, implants

**Abstract +**

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Search 497 subjects

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Fine Arts

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Naval Science

General Works

Geography. Anthropology.

JOURNALS

YEAR OF PUBLICATION

JOURNAL HAS THE SEAL

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**NANOMATERIALS (MAY 2020)**

**The Impact of Engineered Silver Nanomaterials on the Immune System**

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**Article keywords**

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**Abstract +**

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**PLOS ONE (JAN 2015)**

**Comparative proteomic analysis of the molecular responses of mouse macrophages to titanium dioxide and copper oxide nanoparticles unravels some toxic mechanisms for copper oxide nanoparticles in macrophages.**

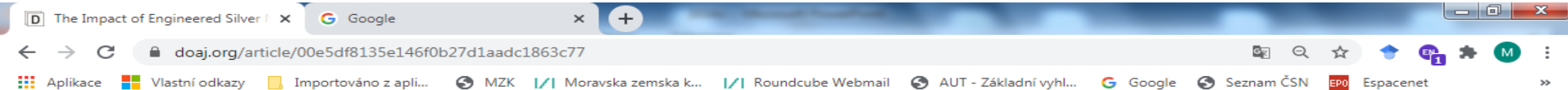
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# DOAJ

## Záznam



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NANOMATERIALS (2020-05-01)

## The Impact of Engineered Silver Nanomaterials on the Immune System

Neethu Ninan, Nirmal Goswami, Krasimir Vasilev

AFFILIATIONS +

DOI

<https://doi.org/10.3390/nano10050967>

Journal volume & issue

Vol. 10, no. 967

p. 967

### Abstract

Over the last decades there has been a tremendous volume of research efforts focused on engineering silver-based (nano)materials. The interest in silver has been mostly driven by the element capacity to kill pathogenic bacteria. In this context, the main area of application has been medical devices that are at significant risk of becoming colonized by bacteria and subsequently infected. However, silver nanomaterials have been incorporated in a number of other commercial products which may or may not benefit from antibacterial protection. The rapid expansion of such products raises important questions about a possible adverse influence on human health. This review focuses on examining currently available literature and summarizing the current state of knowledge of the impact of silver (nano)materials on the immune system. The review also looks at various surface modification strategies used to generate silver-based nanomaterials and the immunomodulatory potential of these materials. It also highlights the immune response triggered by various silver-coated implantable devices and provides guidance and perspective towards engineering silver nanomaterials for modulating immunological consequences.

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Publisher

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Science: Chemistry

Website

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materials

immune cells

pro-inflammatory

anti-inflammatory

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