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Martina Machátová

Aktualizace: 28. května 2021

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The screenshot displays the Fraunhofer-Publica website in a web browser. The browser's address bar shows the URL `publica.fraunhofer.de/starweb/pub09/en/index.htm`. The website's header includes the Fraunhofer logo and the word "Publica". A sidebar on the left contains a menu with items like "Search Form" and "Current Publications", with "Search Form" highlighted by a red dashed box. The main content area features a large image of a computer mouse on a desk. Below the image, there is a search bar containing the text "nano* toxi*" and a "Search" button, both enclosed in a red solid box. Below the search bar, the text "use the asterisk (*) as a truncation symbol" is visible. The page also includes a section titled "Publication Database of the Fraunhofer-Gesellschaft" with a brief description of the database's content. At the bottom of the page, there is a footer with copyright information and links for "Contact", "Imprint", and "Data Protection".

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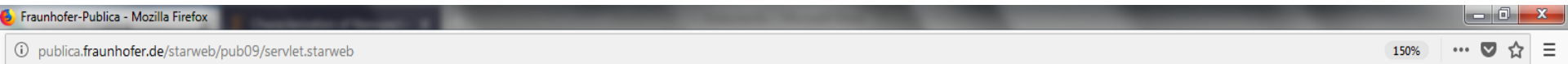
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☒	2017	Characterization of nanoparticles in biological environments Maskos, Michael; Stauber, Roland H.	Book Article
☒	2017	Critical review of the migration potential of nanoparticles in food contact plastics Störmer, Angela; Bott, Johannes; Kemmer, Diana; Franz, Roland	Journal Article
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Angezeigte Dokumente ausgeben

Long-term effects of sulfidized silver nanoparticles in sewage sludge on soil microflora

Autor(en): [Kraas, Marco](#) (Fraunhofer Institute for Molecular Biology and Applied Ecology - IME - Schmallenberg - Germany); [Schlich, Karsten](#) (Fraunhofer Institute for Molecular Biology and Applied Ecology - IME - Schmallenberg - Germany); [Knopf, Burkhard](#) (Fraunhofer Institute for Molecular Biology and Applied Ecology - IME - Schmallenberg - Germany); [Wege, Franziska](#) (Fraunhofer Institute for Molecular Biology and Applied Ecology - IME - Schmallenberg - Germany); [Kägi, Ralf](#) (EAWAG Swiss Federal Institute of Aquatic Science and Technology - Dübendorf - Switzerland); [Tertytze, Konstantin](#) (Institute of Geological Sciences, Freie Universität Berlin - Berlin - Germany); [Hund-Rinke, Kerstin](#) (Fraunhofer Institute for Molecular Biology and Applied Ecology - IME - Schmallenberg - Germany)

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Quelle Environmental toxicology (2017), Online First, 9 S.
ISSN: 1520-4081

Sprache Englisch

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Schlagwörter nanoeotoxicology; soil ecotoxicology; [nanoparticle](#); sulfidized Ag nanoparticle; [sewage sludge](#); [transmission electron microscopy](#)

Abstract
The use of silver nanoparticles (AgNPs) in consumer products such as textiles leads to their discharge into wastewater and consequently to a transfer of the AgNPs to soil ecosystems via biosolids used as fertilizer. In urban wastewater systems (e.g., sewer, wastewater treatment plant [WWTP], anaerobic digesters) AgNPs are efficiently converted into sparingly soluble silver sulfides (Ag₂S), mitigating the toxicity of the AgNPs. However, long-term studies on the bioavailability and effects of sulfidized AgNPs on soil microorganisms are lacking. Thus we investigated the bioavailability and long-term effects of AgNPs (spiked in a laboratory WWTP) on soil microorganisms. Before mixing the biosolids into soil, the sludge was either anaerobically digested or directly dewatered.

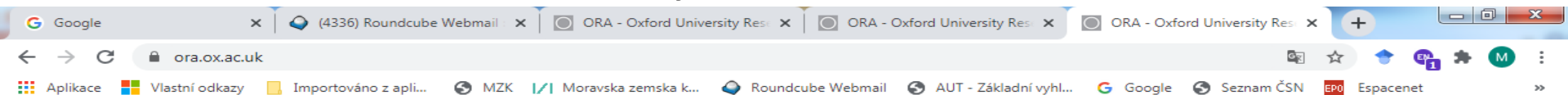
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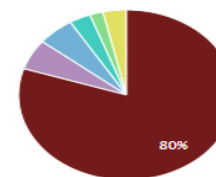
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Quirmbach, D, Cornelsen, L, Jebb, SA, et al. | 2018-03-08

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European Code against Cancer 4th Edition: Alcohol drinking and cancer.

Abstract: Alcohol consumption is the third leading risk factor for disease and mortality in Europe. As established by the International Agency for Research on Cancer (IARC) Monographs, a causal relationship is established for consumption of alcoholic beverages and cancers of the oral cavity, pharynx, larynx, oesophagus, liver, colorectum and female breast, even at low and moderate alcohol intakes. The higher the amount of alcohol consumed, the higher the risk of developing cancer. In Europe, an estimated...

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The linear and nonlinear rheology of multiscale complex fluids
Jaishankar, Aditya (Massachusetts Institute of Technology, 2014)
The microstructures of many complex fluids are typically characterized by a broad distribution of internal length scales. Examples of such multiscale materials include physically and chemically cross-linked gels, emulsions, ...



Electric field based fabrication methods for multi-scale structured surfaces
Joung, Young Soo (Massachusetts Institute of Technology, 2014)
Control of micro/nano scale surface structures and properties is crucial to developing novel functional materials. From an engineering point of view, the development of scalable and economical micro/nano-fabrication methods ...

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Allison, Jordan Lloyd Norman (Massachusetts Institute of Technology)
is manifested in adaptive architectural typologies that reinforce the wall through the re-appropriation of **critical infrastructure**, forced with barrier lines....



Cybersecurity for urban critical infrastructure
Falco, Gregory J (Massachusetts Institute of Technology, 2018)
Our cities are under attack. Urban **critical infrastructure** which includes water networks, transportation systems and public health and safety are being targeted by cyberattacks. Urban **critical infrastructure**...



A methodology for the identification of critical locations in infrastructures
Lemon, Douglas M. (Douglas Michael), 1967- (Massachusetts Institute of Technology, 2004)
The extreme importance of **critical infrastructures** to modern society is widely recognized.

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Author(s)
Lemon, Douglas M.



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Abstract
The extreme importance of critical infrastructures to modern society is widely recognized. These infrastructures are complex, interdependent, and ubiquitous; they are sensitive to disruptions that can lead to cascading failures with serious consequences. Protecting the critical infrastructures from terrorism, human generated malevolent attack directed toward maximum social disruption, presents an enormous challenge. Recognizing that society cannot afford the costs associated with absolute protection, it is necessary to identify the critical locations in these infrastructures. By protecting the critical locations society achieves the greatest benefit for the protection investment. This paper presents a methodology for the identification of critical locations in infrastructures. The framework models the infrastructures as interconnected digraphs and employs graph theory and reliability theory to identify the vulnerable points. The vulnerable points are screened for their susceptibility to a terrorist attack, and a prioritized list of critical locations is produced. The prioritization methodology is based on multi-attribute utility theory. The methodology is illustrated through the presentation of a portion on the analysis conducted on the campus of the Massachusetts Institute of Technology.

Date issued
2004-06

URI
<http://hdl.handle.net/1721.1/102756>

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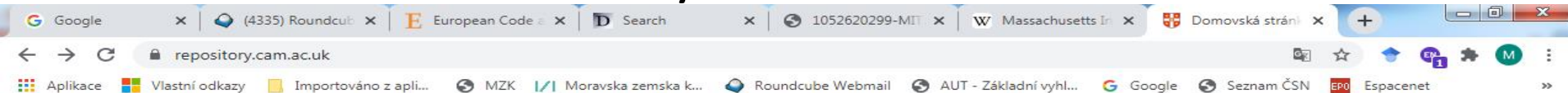
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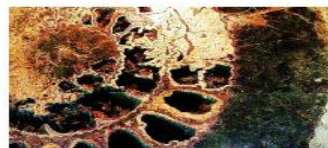
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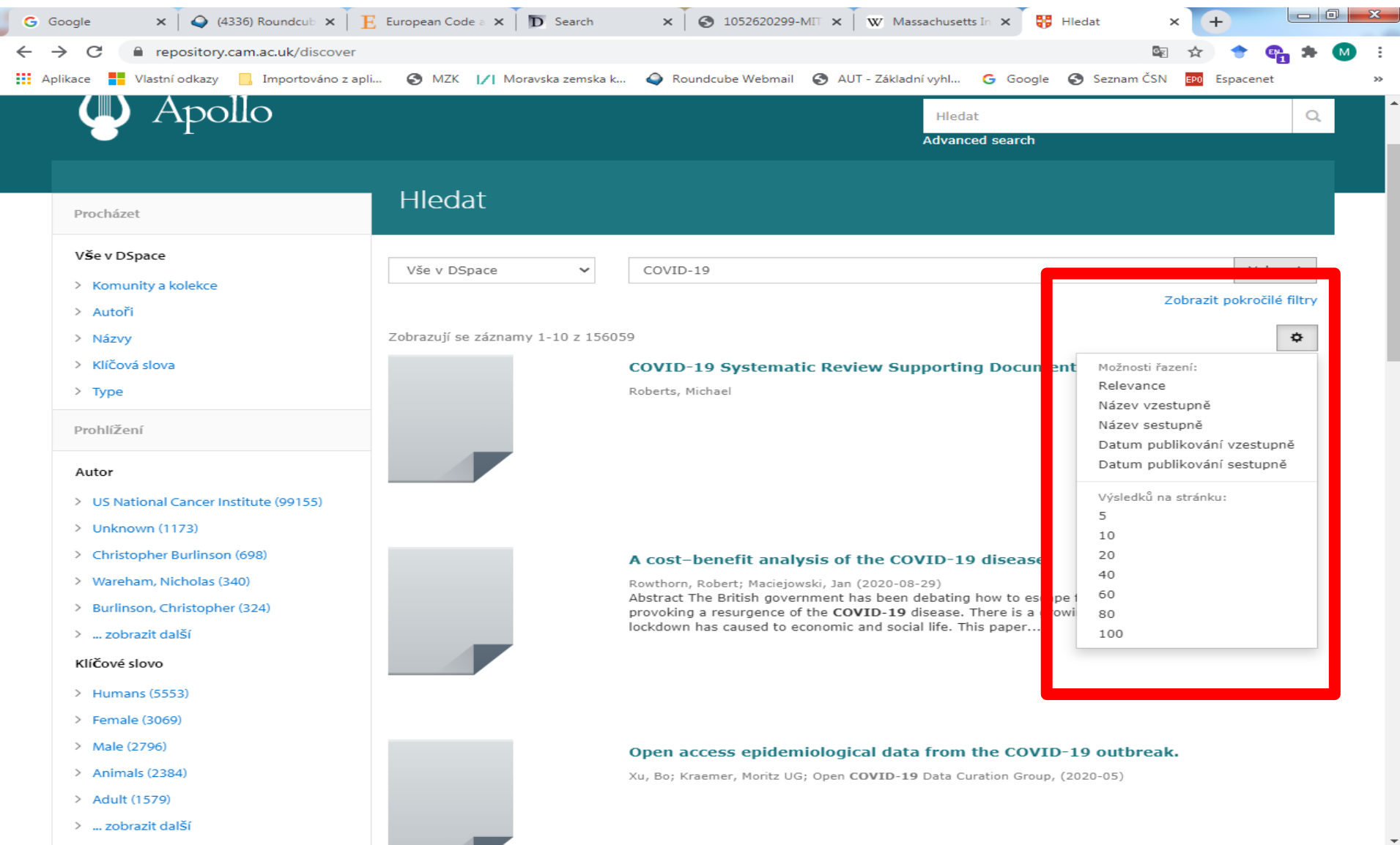


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Zobrazují se záznamy 1-10 z 156059

COVID-19 Systematic Review Supporting Document
Roberts, Michael

A cost-benefit analysis of the COVID-19 disease
Rowthorn, Robert; Maciejowski, Jan (2020-08-29)
Abstract The British government has been debating how to escape the economic and social costs of the COVID-19 lockdown while avoiding a resurgence of the COVID-19 disease. There is a growing concern that the lockdown has caused to economic and social life. This paper...

Open access epidemiological data from the COVID-19 outbreak.
Xu, Bo; Kraemer, Moritz UG; Open COVID-19 Data Curation Group, (2020-05)

Zobrazit pokročilé filtry

Možnosti řazení:
Relevance
Název vzestupně
Název sestupně
Datum publikování vzestupně
Datum publikování sestupně

Výsledků na stránku:
5
10
20
40
60
80
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Apollo

Záznam

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Retrospective cohort study of admission timing and mortality following COVID-19 infection in England



Zobrazit/otevřít

- [bmjopen-2020-042712.pdf \(PDF, 898Kb\)](#)
- [bmjopen-2020-042712.xml \(XML, 42Kb\)](#)

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Datum

2020-11-23

Journal Title

BMJ Open

Publisher

BMJ Publishing Group

Volume

10

Citation

Alaa, A., Qian, Z., Rashbass, J., Benger, J., & van der Schaar, M. (2020). Retrospective cohort study of admission timing and mortality following COVID-19 infection in England. *BMJ Open*, 10 (11)<https://doi.org/10.1136/bmjopen-2020-042712>

Abstrakt

Objectives: We investigated whether the timing of hospital admission is associated with the risk of mortality for patients with COVID-19 in England, and the factors associated with a longer interval between symptom onset and hospital admission. **Design:** Retrospective observational cohort study of data collected by the COVID-19 Hospitalisation in England Surveillance System (CHESS). Data were analysed using multivariate regression analysis. **Setting:** Acute hospital trusts in England that submit data to CHESS routinely. **Participants:** Of 14 150 patients included in CHESS until 13 May 2020, 401 lacked a confirmed diagnosis of COVID-19 and 7666 lacked a recorded date of symptom onset. This left 6083 individuals, of whom 15 were excluded because the time between symptom onset and hospital admission exceeded 3 months. The study cohort therefore comprised 6068 unique individuals. **Main outcome measures:** All-cause mortality during the study period. **Results:** Timing of hospital admission was an independent predictor of mortality following adjustment for age, sex, comorbidities, ethnicity and obesity. Each additional day between symptom onset and hospital admission was associated with a 1% increase in mortality risk (HR 1.01; $p < 0.005$). Healthcare workers were most likely to have an increased interval between symptom onset and hospital admission, as were people from Black, Asian and minority ethnic (BAME) backgrounds, and patients with obesity. **Conclusion:** The timing of hospital admission is associated with mortality in patients with COVID-19. Healthcare workers and individuals from a BAME background are at greater risk of later admission, which may contribute to reports of poorer outcomes in these groups. Strategies to identify and admit patients with high-risk and those showing signs of deterioration in a timely way may reduce the consequent mortality from COVID-19, and should be explored.

Keywords

Infectious diseases, 1506, 2474, 1706, infectious diseases, health policy, public health

Identifiers

[bmjopen-2020-042712](#)

External DOI:
<https://doi.org/10.1136/bmjopen-2020-042712>

This record's URL:
<https://www.repository.cam.ac.uk/handle/1810/313383>

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