

OpenAIRE EXPLORE: zinātnisku publikāciju un citu rezultātu meklētājprogramma

Gita Rozenberga

Latvijas Universitātes bibliotēka

OpenAIRE Nacionālais atvērtais piekļuves dienests



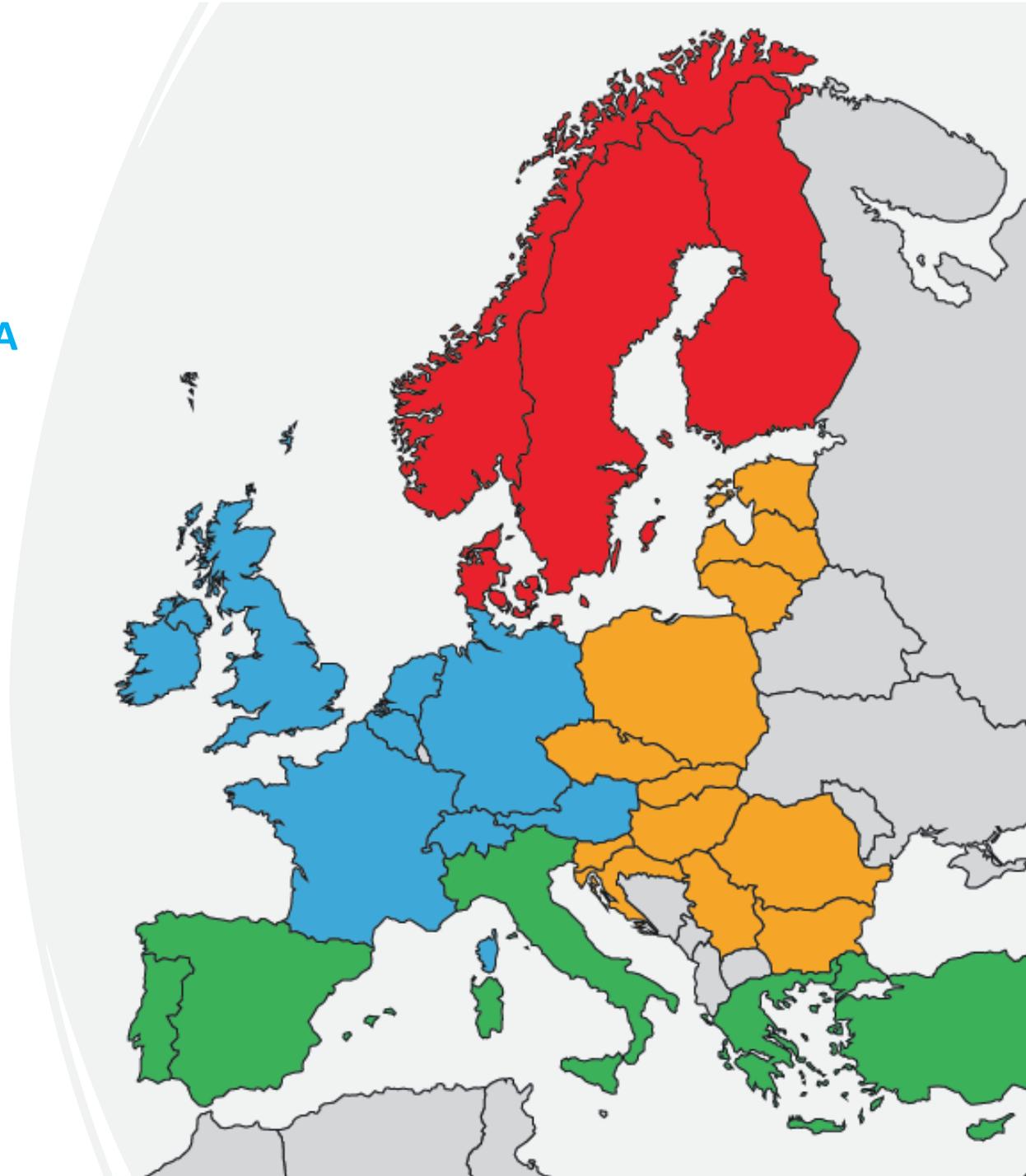
LATVIJAS UNIVERSITĀTE
BIBLIOTĒKA



Atvērtais piekļuves nedēļa 2023

KAS IR OpenAIRE?

- Starptautisks projekts => **ORGANIZĀCIJA**
- Ilgtermiņa projekts
 - OpenAIRE (2009-2012)
 - OpenAIRE plus (2012-2014)
 - OpenAIRE (2015-2018)
 - OpenAIRE-Advance (2018-2021.febr.)
- OpenAIRE pamatbalsti
 - Cilvēkresursi
 - Infrastruktūra
 - Politika



OpenAIRE PORTALS



Services

Support

Open Science In Europe

About



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We are an open Scholarly Communication Infrastructure.
We create and operate services for Open Science.

OpenAIRE subscribes to the [Principles of Open Scholarly Infrastructure](#)

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A one-stop-shop service for repositories / journals / CRIS to share content to the world.



A metadata validation service, customisable to different schemata.



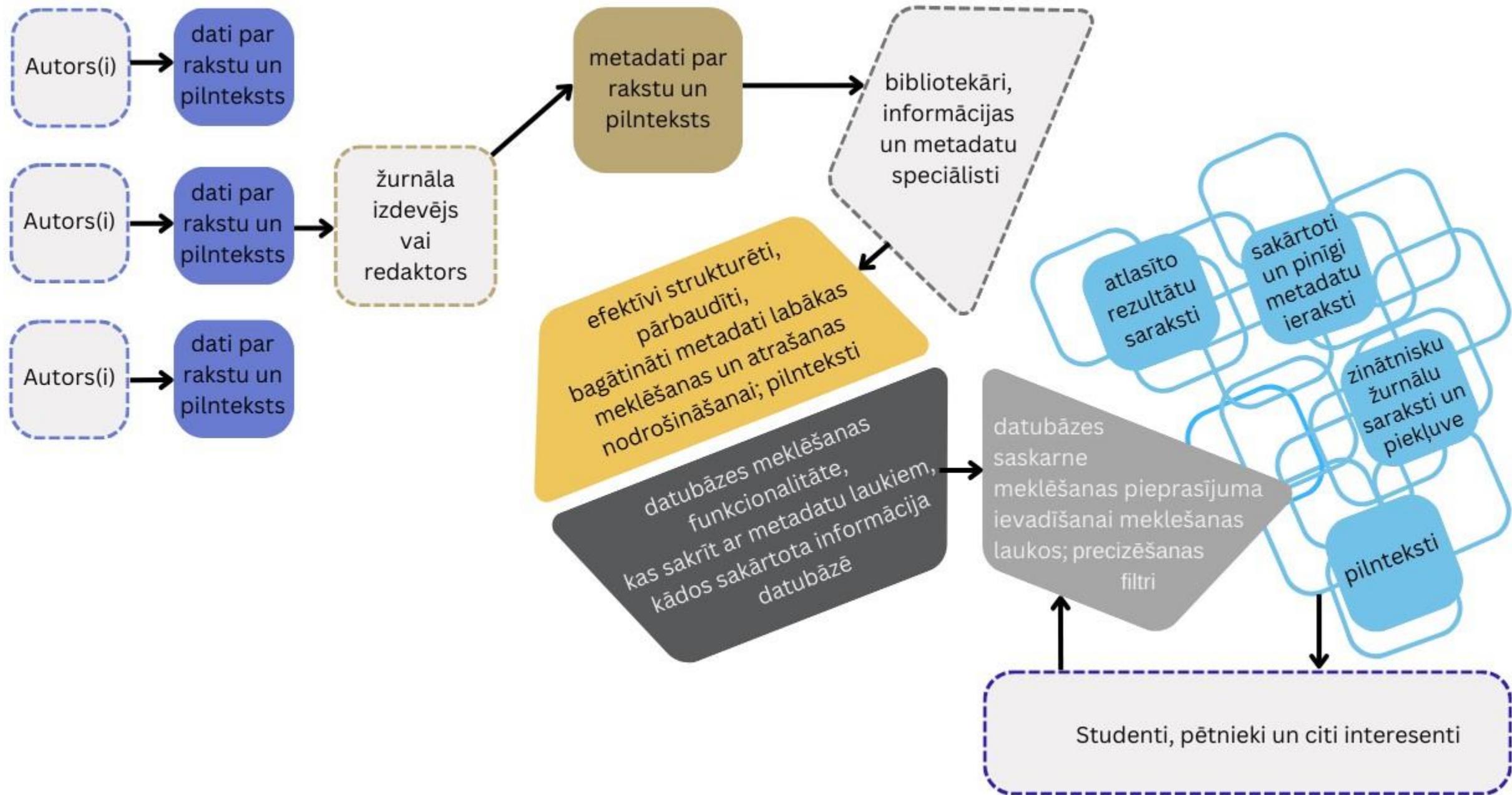
A notification & brokering service to help content providers enrich their records.



A COUNTER compliant aggregator and report generator of usage data.

KAS IR DATUBĀZE?





DATUBĀZU VEIDI

- Bibliogrāfiskās datubāzes, katalogi (piem., [PubMed](#))
- Pilntekstu datubāzes un e-grāmatu platformas (piem., [SAGE Journals](#), [VLeBooks](#))
- Citējamības un kvalitātes novērtējuma datubāzes/reģistri (piem., [Web of Science](#), [Scopus](#), [ERIH PLUS](#), [SCImago Journal & Country Rank](#), [DOAJ](#), [Ulrich`s WEB: Global Serials Directory](#))
- Digitālie arhīvi, e-repozitoriji, manuskriptu serveri (*preprint server*) (piem., [Zenodo](#))
- Meklētājprogrammas un informācijas resursu agregatori* (piem., [PRIMO](#), [GoogleScholar](#), [OpenAIRE EXPLORE](#), [EBSCO](#))

**Informācijas resursu agregatori – datubāzes, kas saturu veido apkopojot informāciju no globālajā tīmeklī pieejamām datubāzēm un citiem informācijas avotiem, lai atkārtoti izmantotu vai pārdotu.*

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OpenAIRE PAKALPOJUMU KATALOGS

 Search OpenAIRE Catalogue...

Filters

17 Services, Page 2 of 2

< 1 **2**

Life Cycle Status [Clear](#)

Production (17)

Portfolios [Clear](#)

- Manage Data (2)
- Publish (2)
- Discover (5)
- Interoperability (5)
- Outreach (5)
- Assess (8)

TRL [Clear](#)

- 8 - system complete and qualified (2)
- 9 - actual system proven in operational environment (15)

Discover, Outreach, Assess

OpenAIRE CONNECT

"Custom, on-demand, scientific gateways"

The CONNECT Dashboard is a platform as a service that enables institutions, universities, or lead teams on a scientific domain, to easily create, configure and manage, their own customised web portal that collects and shares research outcomes of their interest to their...

Users: **Researchers, Research Performing Organisations, Research Infrastructures**

Pricing: **Free**



Outreach

OpenAIRE EXPLORE

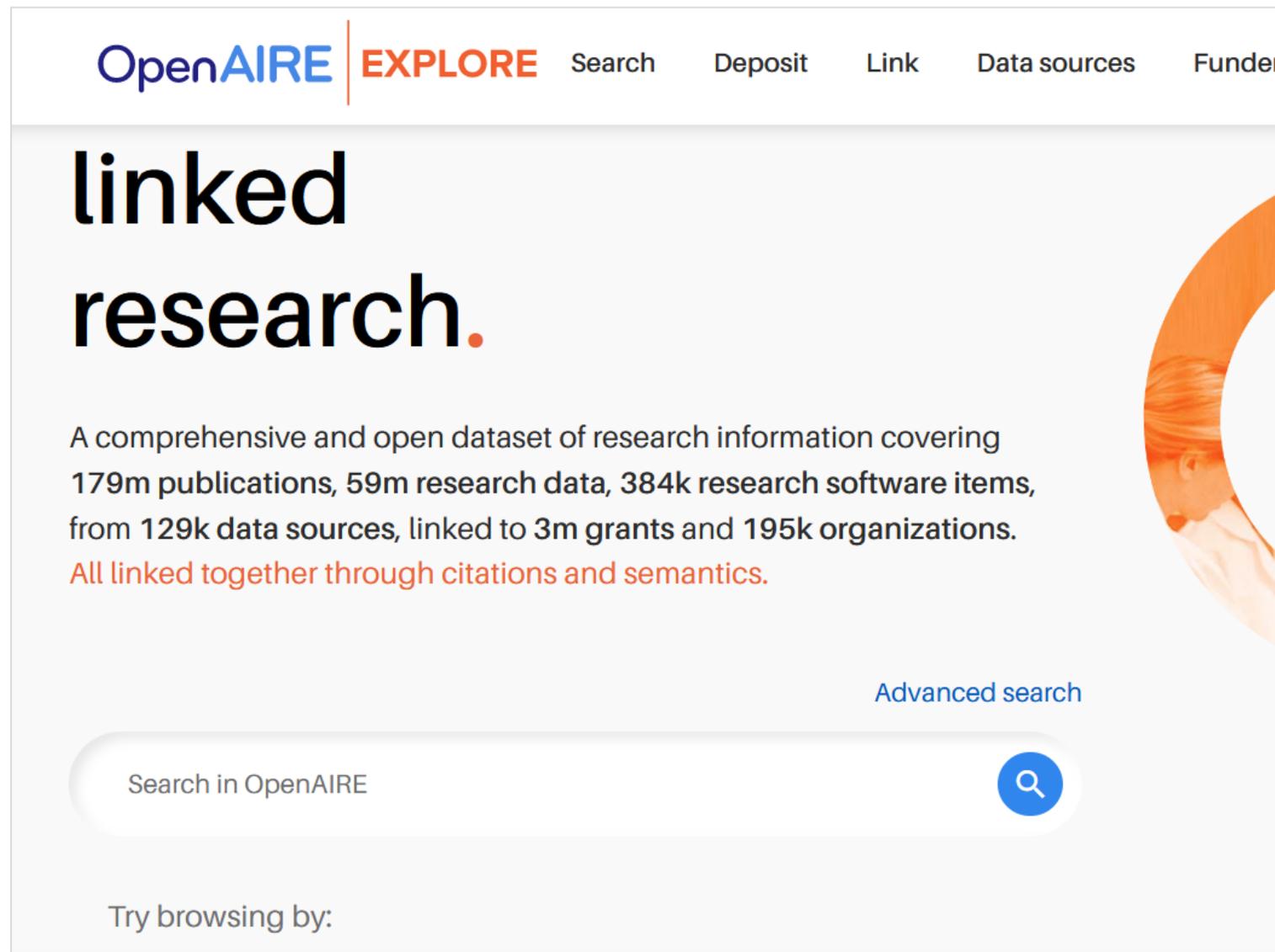
"Discover Open Research"

An open research search portal providing access to millions of interlinked scholarly works (publications, data, software), their citations and contextual information such as



KAS IR OpenAIRE EXPLORE?

- OpenAIRE piedāvā infrastruktūru (savienots repozitoriju un citu pētniecisko infrastruktūru tīkls), rīkus, informācijas un atbalsta sistēmu.
- Tā ir sistēma, kur savā starpā savienota informācija par projektiem, publikācijām, datu kopām, autoriem, datu sniedzējiem, organizācijām.
- Nodrošina piekļuvi miljoniem metadatu ierakstu par zinātniskām publikācijām, datiem un citiem rezultātiem



The screenshot shows the OpenAIRE EXPLORE website. At the top, the logo 'OpenAIRE | EXPLORE' is displayed in blue and orange. To the right of the logo are navigation links: 'Search', 'Deposit', 'Link', 'Data sources', and 'Funder'. Below the navigation bar, the main heading reads 'linked research.' in a large, bold, black font. Underneath the heading, a paragraph of text describes the dataset: 'A comprehensive and open dataset of research information covering 179m publications, 59m research data, 384k research software items, from 129k data sources, linked to 3m grants and 195k organizations. All linked together through citations and semantics.' The text 'All linked together through citations and semantics.' is highlighted in orange. To the right of the text, there is a blue link labeled 'Advanced search'. Below the text and link, there is a search bar with the placeholder text 'Search in OpenAIRE' and a blue magnifying glass icon. At the bottom of the page, the text 'Try browsing by:' is visible.

Materializing the Open Science Graph

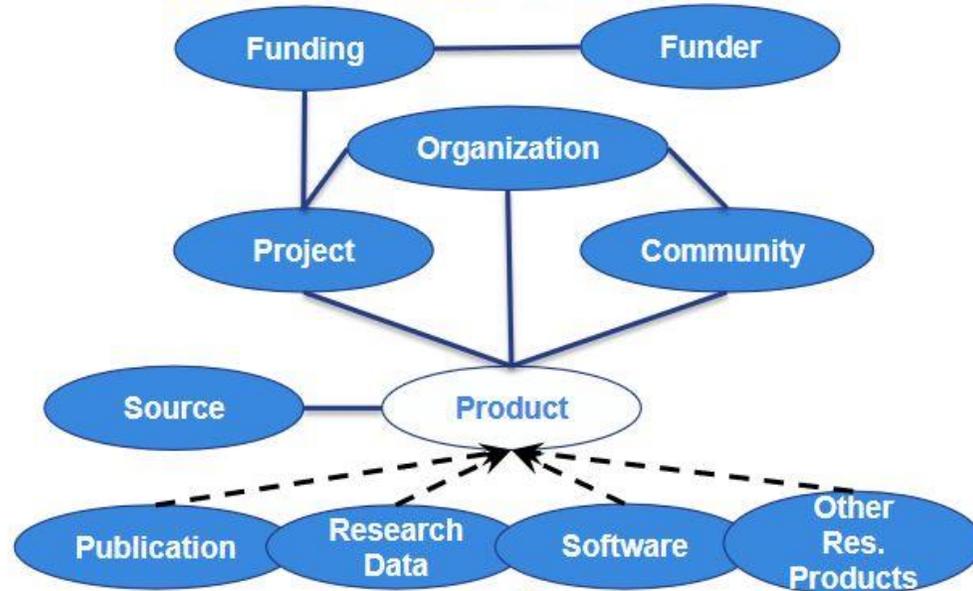
CONNECT PROVIDE EXPLORE



EUROPEAN OPEN SCIENCE CLOUD

Scientific product catalogue

MONITOR DEVELOP



Harvesting / Transformation

Deduplication

Mining

End-user feedback



AVOTS: Schirrwagen, J., & Bardi, A. (2020, February 19). Data Sources and Persistent Identifiers in the Open Science Research Graph of OpenAIRE. 15th International Digital Curation Conference, Dublin, Ireland. Zenodo. <https://doi.org/10.5281/zenodo.3674011>

OpenAIRE EXPLORE – MEKLĒŠANAS VEIDI (1)



Discover open linked research.

A comprehensive and open dataset of research information covering 179m publications, 59m research data, 384k research software items, from 129k data sources, linked to 3m grants and 195k organizations.

All linked together through citations and semantics.

Search in OpenAIRE [Advanced search](#) 

Try browsing by:

 [SUSTAINABLE DEVELOPMENT GOALS \(SDGs\)](#) →

 [FIELDS OF SCIENCE \(FOS\)](#) →



OpenAIRE EXPLORE – MEKLĒŠANAS VEIDI (2)

Advanced search in

Research products

[Simple Search](#)

SEARCHING FIELDS		TERMS	
Any field	includes	<input type="text" value=" Type keywords..."/>	and
Any field	includes	<input type="text" value="Type keywords..."/>	

SEARCH →

OpenAIRE EXPLORE – MEKLĒŠANAS VEIDI (3)

Advanced search in

Research products

[Simple Search](#)

SEARCHING FIELDS

TERMS

_____ includes _____

Type keywords... and _____

Type keywords... _____

Any field

Abstract

Access

Author

Author ORCID

Collected from Data source

SEARCH →

MEKLĚŠANA

OpenAIRE

EXPLORE

Search

Deposit

Link

Data sources

Funders

Sign in

A comprehensive and open dataset of research information covering 179m publications, 59m research data, 384k research software items, from 129k data sources, linked to 3m grants and 195k organizations.

All linked together through citations and semantics.

Advanced search

water|



Try browsing by:

 SUSTAINABLE DEVELOPMENT GOALS (SDGs) →

 FIELDS OF SCIENCE (FOS) →



REZULTĀTU SARAKSTA PIELĀGOŠANA

water



RESEARCH PRODUCTS (2,502,459)

PROJECTS (12,667)

DATA SOURCES (405)

ORGANIZATIONS (6,781)

Filters

[Clear All](#)

2,502,459 Research Products for water

[DOWNLOAD RESULTS](#)

Access (1)

[Clear](#)

OPEN ACCESS

Open Access (2,502,459)

Results per page

10



Sort by

Relevance



1

2

3

4

5

>

Type (4)

- Publications
- Research data
- Research software
- Other research products

Water Quality (pH, TDS) Data - Collected from three different water sources namely "Packaged drinking water", "Pipeline drinking water" and "Pond water" by a water quality monitoring device.

[Research Data](#) >> Dataset • 2019 • Mendeley

[HELP](#)

REZULTĀTU SARAKSTA PIELĀGOŠANA - SATURS

water



RESEARCH PRODUCTS (2,502,459)

PROJECTS (12,667)

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ORGANIZATIONS (6,781)

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2,502,459 Research Products for water

[DOWNLOAD RESULTS](#)

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OPEN ACCESS [×](#)

Open Access (2,502,459)

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Research Data >> Dataset • 2019 • Mendeley

HELP

REZULTĀTU SARAKSTA PIELĀGOŠANA - SATURS

RESEARCH PRODUCTS (2,502,459)

PROJECTS (12,667)

DATA SOURCES (405)

ORGANIZATIONS (6,781)

Field of Science [B... (100)

- 01 natural sciences (268,456)
- 02 engineering and tec... (166,121)
- 0105 earth and related... (142,867)
- 03 medical and health s... (97,525)
- 010504 meteorology & at... (83,340)
- 0210 nano-technology (77,097)

[View less >](#)

Top 100 values are shown in the filters

Search

Sort by
Name

- 01 natural sciences (268,456)
- 0101 mathematics (2,874)
- 010101 applied mathematics (1,425)
- 010102 general mathematics (1,110)
- 0103 physical sciences (27,051)
- 010302 applied physics (4,521)
- 010303 astronomy & astro... (3,481)
- 010304 chemical physics (4,086)

Funder (25)

Data for: Water, Energy and Food Nexus of Indus Water Treaty: Water Governance

Research Data >> Dataset • 2019 • Mendeley

Authors: *Khan, Nasrullah;*

DOI: [10.17632/2yr5gg4z3m](https://doi.org/10.17632/2yr5gg4z3m) [↗], [10.17632/2yr5gg4z3m.1](https://doi.org/10.17632/2yr5gg4z3m.1) [↗]

Supplementary Data THIS DATASET IS ARCHIVED AT DANS/EASY, BUT NOT ACCESSIBLE HERE. TO VIEW A LIST OF FILES AND ACCESS THE FILES IN THIS DATASET CLICK ON THE DOI-LINK ABOVE

Mendeley Data ▾ | [Link to](#) | [Share](#) | [Cite](#) | [Claim](#)

0

Water nexus : saline water when possible, fresh water when needed

Publication >> Report • 2021 • Netherlands • Wageningen University & Research

Authors: *Huub H.M. Rijnaarts; Thomas V. Wagner;*

DOI: [10.18174/553702](https://doi.org/10.18174/553702) [↗]

The ambition of the Water Nexus program was to develop integral solutions for problems with water scarcity in delta areas worldwide. The central paradigm shift was to consider saline water as a resource, and not as a threat: saline water where possible, freshwater where needed. Water Nexus focused on large fresh water...

NARCIS; Research@WUR ▾ | [Link to](#) | [Share](#) | [Cite](#) | [Claim](#)

0

Water from (waste)water - the dependable water resource (The 2001 Stockholm Water Prize Laureate Lecture)

Publication >> Article • 2002 • IWA Publishing

Authors: *Takashi Asano;*

HELP

REZULTĀTU SARAKSTA PIELĀGOŠANA - SDG



UNITED NATIONS

ANO definētie
17 Ilgtspējīgas
attīstības
mērķi

*(Sustainable
Development
Goals)*

REZULTĀTU SARAKSTA PIELĀGOŠANA - SATURS

RESEARCH PRODUCTS (2,502,459)

PROJECTS (12,667)

DATA SOURCES (405)

ORGANIZATIONS (6,781)

SDG [Beta] (16)

- 13. Climate action (37,122)
- 14. Life underwater (17,724)
- 6. Clean water (17,402)
- 15. Life on land (16,546)
- 2. Zero hunger (8,272)
- 3. Good health (7,430)

[View less >](#)

Top 100 values are shown in the filters

Search

Sort by
Name

- 1. No poverty (734)
- 2. Zero hunger (8,272)
- 3. Good health (7,430)
- 4. Education (128)
- 5. Gender equality (20)
- 6. Clean water (17,402)
- 7. Clean energy (6,698)
- 8. Economic growth (170)

Country (100)

- US (263,565)

DOI: [10.1039/c004970k](https://doi.org/10.1039/c004970k)

PMID: [2](https://pubmed.ncbi.nlm.nih.gov/2/)

HANDLE: [10297/6161](https://doi.org/10.2977/6161)

We review recent developments and applications of aldolase-type organocatalytic direct transformations in aqueous media without addition of organic solvent.

[Organic & Biomolecul...](#)

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[Share](#)

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185

Water Availability Footprint Addressing Water Quality

[Publication](#) >> Article • 2019 • SDEWES Centre

Authors: [Xuexiu Jia](#); [Petar Sabev Varbanov](#); [Jiří Jaromír Klemes](#); [Sharifah Rafidah Wan Alwi](#);

DOI: [10.13044/j.sdewes.d6.0223](https://doi.org/10.13044/j.sdewes.d6.0223)

The increasing issue of water quality degradation has affected the availability of water. The consideration of water quality is becoming more important for water minimisation. There is a need to integrate water quality into the current water assessment framework. This study tries to involve the water quality into the widely...

[Journal of Sustainab...](#)

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11

Lithium content in potable water, surface water, ground water, and mineral water on the territory of Republic of Macedonia

[Publication](#) >> Article • 2014 • Former Yugoslav Republic of Macedonia • EManuscript Technologies

Authors: [Vesna Kostik](#); [Biljana Bauer](#); [Zoran Kavrakovski](#);

DOI: [10.4103/2230-8598.137700](https://doi.org/10.4103/2230-8598.137700)

The aim of this study was to determine lithium concentration in potable water, surface water, ground, and mineral water on the territory of the Republic of Macedonia. Water samples were collected from water bodies such as multiple public water supply systems located in 13 cities, wells boreholes located...

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RESEARCH PRODUCTS (2,502,460)

PROJECTS (12,667)

DATA SOURCES (405)

ORGANIZATIONS (6,781)

Research community (39)

- Energy Research (140,040)
- NEANIAS Atmospheric Re... (110,142)
- Knowmad Institut (89,682)
- Rural Digital Europe (78,139)
- Netherlands (76,371)
- European Marine Science (31,603)

[View less >](#)

Top 100 values are shown in the filters

Search

Sort by

Name

- Argo France (68)
- Aurora Universities Net... (15,596)
- COVID-19 (7,691)
- DARIAH EU (35)
- Digital Humanities and ... (29,947)
- Digital Twins in Health (1)
- EBRAINS (6,669)
- EGI Federation (321)

Journal of Sustainab... ▼

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[Share](#)

[Cite](#)

0

Impact of water quality on municipal water price and residential water demand and implications for water supply benefits

Publication » Article • 2003 • American Geophysical Union (AGU)

Authors: *Steven Piper*;

DOI: [10.1029/2002wr001592](https://doi.org/10.1029/2002wr001592)

[1] This analysis evaluates the extent to which water quality influences the cost of supplying domestic water and the extent to which finished water quality affects household water demand from price impacts. The water demand and cost models are based on nationwide data for individual systems collected by the...

Water Resources Rese... ▼

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[Claim](#)

22

Optimization of water management system operation while quality and quantity of water determined

Publication » Article • 2012 • Walter de Gruyter GmbH

Authors: *Joanna Pojomska; Wojciech Chmielowski*;

DOI: [10.2478/v10060-011-0058-9](https://doi.org/10.2478/v10060-011-0058-9)

Current economic development of urban and industrial agglomerations requires considerable water supplies and the water delivery has to be reliable. Nowadays without planning about water distribution and water storage, it is impossible that water resources are used in the best economic way. While water...

<https://doi.org/10.2...> ▼

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2

HELP

REZULTĀTU SARAKSTA PIELĀGOŠANA - SATURS

RESEARCH PRODUCTS (1,526)

PROJECTS (12,667)

DATA SOURCES (405)

ORGANIZATIONS (6,781)

Filters [Clear All](#)

Access (1) [Clear](#)

Open Access (1,526)

Type (4) [Clear](#)

- Publications
- Research data
- Research software
- Other research products

Document Type (7)

- Article (1,495)
- Other literature type (60)
- Part of book or chapter of... (21)
- Conference object (5)
- Preprint (2)
- Book (1)

1,526 Research Products for water

PUBLICATIONS x

OPEN ACCESS x

06 HUMANITIES AND THE ARTS x

Results per page
20

Sort by
Relevance

1

2

3

4

5

Polluted water, stinking water, frozen water, no water: A life threatening situation! Perspectives from Exodus 11 and 15-17

[Publication](#) >> Article • 2016 • Christian Literature Fund

Authors: [Steven Van der Walt](#);

DOI: [10.17570/stj.2016.v2n1.a21](https://doi.org/10.17570/stj.2016.v2n1.a21)

The article highlights the life threatening consequences Israel could have faced if they did not stay within the creational rhythm which YHWH planned for them. Natural phenomena, in which water played a significant role, contributed to these life threatening circumstances. Certain pericopes of two external narratives are highlighted.

[Scientific Electroni...](#)

[Link to](#)

[Share](#)

[Cite](#)

[Claim](#)

A complicated way of boiling water: nuclear safety in water history

[Publication](#) >> Article • 2020 • Springer Science and Business Media LLC • EC | NUCLEARWATERS

Authors: [Siegfried Evens](#);

REZULTĀTU SARAKSTA SAGLABĀŠANA

RESEARCH PRODUCTS (1,526)

PROJECTS (12,667)

DATA SOURCES (405)

ORGANIZATIONS (6,781)

Filters [Clear All](#)

Access (1) [Clear](#)

Open Access (1,526)

Type (4) [Clear](#)

- Publications
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- Article (1,495)
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1,526 Research Products for water

PUBLICATIONS x

OPEN ACCESS x

06 HUMANITIES AND THE ARTS x

Results per page
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1 2 3 4 5 >

Polluted water, stinking water, frozen water, no water: A life threatening situation! Perspectives from Exodus 1-11 and 15-17

[Publication](#) >> Article • 2016 • Christian Literature Fund

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0

A complicated way of boiling water: nuclear safety in water history

[Publication](#) >> Article • 2020 • Springer Science and Business Media LLC • EC | NUCLEARWATERS

Authors: [Siegfried Evens](#);

DOI: [10.1007/s12685-020-00258-0](#)

PMC: [PMC7671176](#)

PMID: [33224318](#)

AbstractWater and nuclear reactors are much closer intertwined than usually perceived. First, water is the source of the steam that drives the turbines of most nuclear power plants around the world. Next to generating electricity, water is the key to preventing accidents in nuclear plants. As uranium keeps on generatin...

BIBLIOGRĀFISKO DATU VAI METADATU IERAKSTS

RESEARCH PRODUCTS (1,526)

PROJECTS (12,667)

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ORGANIZATIONS (6,781)

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DOI: [10.3390/w13121660](https://doi.org/10.3390/w13121660)

HANDLE: [10016/33574](https://hdl.handle.net/10016/33574)

This article belongs to the Special Issue The Politics of the Human Right to Water. Water conflicts across the world are bringing to the fore fundamental challenges to the anthropocentric boundaries of the human rights paradigm. Engaging with the multi-layered legal...

Country (90)

GB (242)

US (241)

FR (152)

ES (102)

EU (95)

IT (73)

[View all >](#)

Language (1)

English (2)

Source (100)

Radiocarbon (181)

Renewable Energy (174)

 [Repositorio Instituc...](#)

 [Link to](#)

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 7  68

The drop that makes a vase overflow: Understanding Maya society through daily water management

 [Publication](#) >> [Article](#) • 2018 • Netherlands • Wiley

Authors:  [Maurits W. Ertsen](#); [Kyra Wouters](#);

DOI: [10.1002/wat2.1281](https://doi.org/10.1002/wat2.1281)

Water is an important key to understand Maya society, especially water availability within a context of climatic changes. Increasing drought would have pushed the Maya water systems into collapse. This paper studies the Maya water systems from an action-oriented...

 [NARCIS](#)

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 3  30

Measuring Human Water Needs

 [Publication](#) >> [Article](#) • 2019 • Wiley • NSF | DMUU: DCDC III: Transform..., NSF | RCN: Building A Community...

Authors:  [Amber Wutich](#);  [Asher Y. Rosinger](#);  [Justin Stoler](#);  [Wendy Jepson](#); [+1 Authors](#)

DOI: [10.1002/ajhb.23350](https://doi.org/10.1002/ajhb.23350)

PMID: [317](https://pubmed.ncbi.nlm.nih.gov/317)

PMC: [PMC7050503](https://pubmed.ncbi.nlm.nih.gov/PMC7050503)

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BIBLIOGRĀFISKO DATU VAI METADATU IERAKSTS

RESEARCH PRODUCTS (1,526)

PROJECTS (12,667)

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DOI: [10.3390/w13121660](https://doi.org/10.3390/w13121660)

HANDLE: [10016/33574](https://hdl.handle.net/10016/33574)

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Authors:  [Maurits W. Ertsen](#); [Kyra Wouters](#);

DOI: [10.1002/wat2.1281](https://doi.org/10.1002/wat2.1281)

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 3  30

Language (1)

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Measuring Human Water Needs

 [Publication](#) >> [Article](#) • 2019 • Wiley • NSF | DMUU: DCDC III: Transform..., NSF | RCN: Building A Community...

Authors:  [Amber Wutich](#);  [Asher Y. Rosinger](#);  [Justin Stoler](#);  [Wendy Jepson](#); [+1 Authors](#)

DOI: [10.1002/ajhb.23350](https://doi.org/10.1002/ajhb.23350)

PMID: [317](https://pubmed.ncbi.nlm.nih.gov/317)

PMC: [PMC7050503](https://pubmed.ncbi.nlm.nih.gov/PMC7050503)

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PILNAIS IERAKSTS

NARCIS View all 3 versions Link to Share Cite Claim

The drop that makes a vase overflow: Understanding Maya society through daily water management

Understanding Maya society through daily water management

Publication >> Article • 24 Mar 2018 • Netherlands • Wiley • WIREs Water, volume 5 (issn: 2049-1948, eissn: 2049-1948, Copyright policy)

Authors: Maurits W. Ertsen; Kyra Wouters;

DOI: 10.1002/wat2.1281

Summary Subjects Metrics

Abstract

Water is an important key to understand Maya society, especially water availability within a context of climatic changes. Increasing drought would have pushed the Maya water systems into collapse. This paper studies the Maya water systems from an action-oriented perspective, in order to understand what challenges the Maya had to overcome when dealing with water. The systems found at Tikal serve as main example, allowing comparisons with other Maya sites. In this analysis, hydraulic- and agent-based elements are combined in a model to investigate the

Citations	3
Popularity	AVERAGE
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Authors:  [Maurits W. Ertsen](#); [Kyra Wouters](#);

DOI: [10.1002/wat2.1281](https://doi.org/10.1002/wat2.1281) [ⓘ]

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Abstract

Water is an important key to understand Maya society, especially water availability within a context of climatic changes. Increasing drought would have pushed the Maya water systems into collapse. This paper studies the Maya water systems from an action-oriented perspective, in order to understand what challenges the Maya had to overcome when dealing with water. The systems found at Tikal serve as main example, allowing comparisons with other Maya sites. In this analysis, hydraulic- and agent-based elements are combined in a model to investigate the

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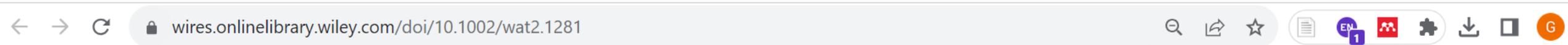
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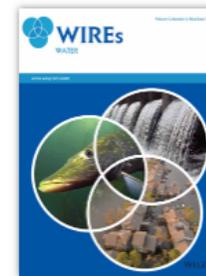
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DOI: 10.1002/wat2.1281

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OVERVIEW

The drop that makes a vase overflow: Understanding Maya society through daily water management

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Correspondence
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Water is an important key to understand Maya society, especially water availability within a context of climatic changes. Increasing drought would have pushed the Maya water systems into collapse. This paper studies the Maya water systems from an action-oriented perspective, in order to understand what challenges the Maya had to overcome when dealing with water. The systems found at Tikal serve as main example, allowing comparisons with other Maya sites. In this analysis, hydraulic- and agent-based elements are combined in a model to investigate the performance of the water system within extreme weather conditions and changing human agency. The results suggest that the Tikal water system was able to cope with most of the extreme situations. Furthermore, model results allow proposing that the Maya did not anticipate on short-term changes in external conditions. Generally, in Tikal surpluses of water may have been as important as shortages of water. The extensive system of drains and canals present at Tikal may have been built to move water from the center of the city rather than to supply water to lower situated reservoirs during the dry season. Such a water-removal system could be less centrally orientated and organized than is often argued. This could also mean that organizational structures of water systems of different city centers (Tikal, Cahalmul, and Caracol) were more similar than usually assumed.

This article is categorized under:
Human Water > Water as Imagined and Represented
Engineering Water > Planning Water
Science of Water > Water Quality

KEYWORDS
actions, agency, material properties, Maya, modeling

1 | INTRODUCTION

As for other ancient civilizations, water was vital for the Maya. Many have studied the water systems in the Southern Maya lowlands, with varying results (Braswell et al., 2004; Chase & Chase, 1998; Crandall, 2006; Iolan et al., 1995; French & Duffy, 2014; French, Duffy, & Bhatt, 2013; Gallopín, 1990; Gill, 2000; Lentz, Dunning, & Scarborough, 2015a; Lentz, Dunning, & Scarborough, 2015b; Luzzo, 2006; Luzzo & Hook, 2006; Scarborough, 1998, 2006; Scarborough et al., 2013; For

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Authors: *Shakhari, Swapan;*

DOI: [10.17632/y65fv5phbn.2](https://doi.org/10.17632/y65fv5phbn.2)

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Authors:  [Giannakou, Pavlos](#);

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Water-molecule interaction in water-in-salt electrolytes. Water molecules to the left and water molecule from saturated solution with NaClO₄ salt to the right. By weakening the hydrogen bond between water molecules, the covalent bond is strengthened and the voltage window of the electrolyte becomes wider. With perchlorates being extremely soluble in water, at least one water molecule is strongly hydrated to a perchlorate molecule and no free water molecules are left to form a hydrogen bond.

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As only 3% of the world is freshwater and a growing population, (expected to hit 9.7 billions in 2050) it means that there is a growing problem with shortage of fresh water according to UN Department of Economic and Social Affairs 2015. The problem has been addressed so far by converting seawater into freshwater...

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Overall Budget: 71,429 EUR Funder Contribution: 50,000 EUR

Although in EU countries, the access to sanitation is universal in urban areas, Eastern Europe, the Caucasus and Central Asia (EECCA), all belonging to the European WHO Region, lack adequate access to water services. Indeed, more than 4.3 million people still rely on surface water as their primary source, posing...

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Funder: EC Project Code: 868435

Overall Budget: 71,429 EUR Funder Contribution: 50,000 EUR

EVAPOCONTROLEVAPO-CONTROL is a modular floating system for the coverage of large surfaces of water or waterbased liquids which prevents direct evaporation losses and algae growth due to sunlight exposition. It is especially conceived for the use in irrigation water reservoirs existing in agriculture sector. L...

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HYDRA (Enhanced under water superoleophobicity by micro/nano topography and hydrophilic polymer brushes for high efficiency oil-water emulsion separation)

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Funder: EC Project Code: 793574

Overall Budget: 195,455 EUR Funder Contribution: 195,455 EUR

Superhydrophilic-underwater superoleophobic membrane is a kind of functional separation membranes based on special wettability, with very promising application prospect in oil/water separation. The stability of the material is the key factor in its performance. This proposal aims to develop stable membranes...

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GreenArc500 (The first effective oil and water pre-separator, enabling clean water release and fuel efficiency onboard ships)

 **Open Access Mandate for Publications** ·  **Project** · 2019 - 2019 · SP/F GREENARC

Funder: EC Project Code: 866908

Overall Budget: 71,429 EUR Funder Contribution: 50,000 EUR

Oily water, generated by ships during operation, is accumulated in bilge wells. As this water is highly polluted, it must be purified using oily water separator (OWS) filtration systems prior to discharge overboard. The MARPOL 73/78 convention demands that no more than 15 ppm of oil particulates in water can be...

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Enhanced under water superoleophobicity by micro/nano topography and hydrophilic polymer brushes for high efficiency oil-water emulsion separation

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Funder: **European Commission** Project code: 793574 Call for proposal: H2020-MSCA-IF-2017

Funded under: H2020 | MSCA-IF-EF-ST Overall Budget: 195,455 EUR Funder Contribution: 195,455 EUR

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Description

Superhydrophilic-underwater superoleophobic membrane is a kind of functional separation membranes based on special wettability, with very promising application prospect in oil/water separation. The stability of the material is the key factor in its performance. This proposal aims to develop stable membranes with superhydrophilicity-underwater superoleophobicity design, by combining synergistically the stupendous hydrated polymer brushes and anisotropic micro-/nano-structures on a surface. We will suppress the wetting transition due to oil penetration via the stable hydration shell of the polymer brush on the vertical direction, and directional oil droplet transmission via the anisotropic surface structures tangential to a surface. Our

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 **Publication** >> Article • 2022 • United Kingdom • Royal Society of Chemistry (RSC) • EC | SoftNanoHybrid, UKRI | Understanding the effects..., EC | HYDRA [+1 projects](#)

Authors:  [Bhavesh Bharatiya](#); [Magdalena Wlodek](#); [Robert Harniman](#); [Ralf Schweins](#); [+4 Authors](#)

DOI: [10.1039/d2nr00595f](https://doi.org/10.1039/d2nr00595f)  HANDLE: [1983/7ca6e286-6203-4fa2-a127-b22e0fd3e48f](https://hdl.handle.net/1983/7ca6e286-6203-4fa2-a127-b22e0fd3e48f) 

Lipoteichoic acid (LTA) is a major structural and functional molecule in the Gram-positive bacteria membrane. Knowledge of LTA adsorption at interfaces and its solution self-assembly is crucial to understanding its role in bacterial adhesion and colonisation, infections and inflammations. Here, we report the self-assembly behaviour of LTA extracted from *Bacillus Subtilis*, a Gram-positive bacterium, in an aqueous solution using cryogenic transmission electron microscopy (Cryo-...

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Mixed liposomes containing gram-positive bacteria lipids: Lipoteichoic acid (LTA) induced structural changes

 **Publication** >> Article • 2021 • Denmark, United Kingdom • Elsevier BV • EC | HYDRA, EC | SoftNanoHybrid

Authors:  [Bhavesh Bharatiya](#); [Gang Wang](#);  [Sarah E. Rogers](#);  [Jan Skov Pedersen](#); [+2 Authors](#)

DOI: [10.1016/j.colsurfb.2020.111551](https://doi.org/10.1016/j.colsurfb.2020.111551)  PMID: [33387794](https://pubmed.ncbi.nlm.nih.gov/33387794/)  HANDLE: [1983/c535d1bc-bf0d-4161-87b2-a97d25c2847a](https://hdl.handle.net/1983/c535d1bc-bf0d-4161-87b2-a97d25c2847a) 

Lipoteichoic acid (LTA), a surface associated polymer amphiphile tethered directly to the Gram-positive bacterial cytoplasmic membrane, is a key structural and functional membrane component. Its composition in the membrane is regulated by bacteria under different physiological conditions. How such LTA compositional variations modulate the membrane structural stability and integrity is poorly understood. Here, we have investigated structural changes in mixed liposomes...

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