

Discover Data Citation Index and accelerate your research with open data

User guide



Open Science to accelerate discovery



An increasing number of funders is promoting Open Science



"Horizon Europe will set a new standard for dissemination of knowledge and new skills across European societies. With clear and immediate open access requirements for beneficiaries, the Open Europe Research publishing platform and a strengthened European Open Science Cloud, we are well underway in making truly open science a reality".

Mariya Gabriel Commissioner for Innovation, Research, Culture, Education and Youth

AUGUST 25, 2022

OSTP Issues Guidance to Make Federally Funded Research Freely Available Without Delay

OSTP > BRIEFING ROOM > PRESS RELEASES

Today, the White House Office of Science and Technology Policy (OSTP) updated U.S. policy guidance to make the results of taxpayer-supported research immediately available to the American public at no cost. In a <u>memorandum</u> *i* to federal departments and agencies, Dr. Alondra Nelson, the head of OSTP, delivered guidance for agencies to update their public access policies as soon as possible to make publications and research funded by taxpayers publicly accessible, without an embargo or cost. All agencies will fully implement updated policies, including ending the optional 12-month embargo, no later than December 31, 2025.

Promoting Open Science

One of the key blocks in the Open Science model is Open Data



8 ambitions of the EU's open science policy

Open Data

FAIR (Findable, Accessible, Interoperable and Re-usable data) and open data sharing should become the default for the results of EU-funded scientific research.

European Open Science Cloud (EOSC)

The (EOSC is a trusted, virtual, federated environment that cuts across borders and scientific disciplines to store, share, process and reuse research digital objects (like publications, data, and software) that are Findable, Accessible, Interoperable and Reusable (FAIR). EOSC brings together institutional, national and European stakeholders, initiatives and infrastructures.

OPEN DATA must be:

Findable Accessible Interoperable Re-usable

Facts and Figures for open research data

Figures and case studies related to accessing and reusing the data produced in the course of scientific production.

Researchers' attitude towards data sharing

This indicator shows how researchers share data and their underlying attitudes, based on the survey for the 2017 report "<u>Open data : The researcher perspective</u> [2]" and the results of a second online survey carried out between October/November 2018 (see the <u>methodological note</u> for additional information).



Why Data Citation Index?



Why Data Citation Index?

Research data is scattered across many subject specific and generalist repositories and can be hard to find. Moreover, data from a single institution can be scattered across multiple data repositories. So, there is the need for a standard search tool.



Web of Science platform content

Gain a comprehensive view of worldwide research across the sciences, social sciences, and arts & humanities



34,000+

Journals across the platform

21,900+

Total journals in the *Core Collection*

2.2 billion+

Cited references

196 million+

Records

20 million +

Records with funding data

109 million

Patents for over 56 million inventions

14.5 million+

Data Sets and Data Studies

Backfiles to 1900

With cover-to-cover indexing

300,000+

Conference proceedings

137,000+

Books

Why Data Citation Index?

Discover and download data sets faster



Over 95% of data meeting Data Citation Index's selection criteria is open.



Track citations to the data and software you have shared to demonstrate the impact and influence of your work.



Repositories are selected by Clarivate editorial team based on qualitative and quantitative criteria



Save time searching for relevant data across hundreds of repositories and easily navigate between published papers and data sets.

- Quickly find data to validate studies or to reuse in your own work.
- Access a trusted reference of resources for depositing data.
- Promote data sharing and citation.
- Over 13 million datasets
- Over 450 repositories

Updated weekly

Finding research data



Existing associated data is indicated in Web of Science search results

When searching Web of Science databases, you can identify papers with associated data indexed in Data Citation Index

Refine results Refine results articles that r studies indexe	for <i>"Associated Data"</i> to surface nention more specific data sets or d in Data Citation Index.	 Exposing research data in search results puts millions of data sets and data studies directly into your
Quick Filters Highly Cited Papers Hot Papers Hot Papers Review Articles Open Access 1,456 Associated Data 	 Moral grandstanding, narcissism, and self-reported responses to the COVID-19 crisis Grubbs, JB; James, AS; (); Tosi, J Apr 2022 JOURNAL OF RESEARCH IN PERSONALITY 97 The present study aimed to understand how status-oriented individual differences such as narcissistic antagonism, na grandstanding motivations may have longitudinally predicted both behavioral and social media responses during the pandemic. Via YouGov, a nationally representative sample of U.S. adults was recruited in August of 2019 (N = 2,519; M- Gs-F-X 	 Related data supports Open Science by bringing more transparency to the research process. Available only for Data Citation Index subscribers
The Associated Data filter is available in All Databases and each database (only exception is Derwent Innovations Index).	 Network analysis of depressive and anxiety symptoms in adolescents during and after the C Liu, R; Chen, X; (); Xiang, YT Mar 15 2022 JOURNAL OF AFFECTIVE DISORDERS 301, pp.463-471 Background: This study examined the extent to which the network structure of anxiety and depression among adoles COVID-19 pandemic could be cross-validated in a sample of adolescents assessed after the COVID-19 peak. Methods: Two cross-sectional surveys were conducted between February 20 and 27, 2020 and between April 11 and 1 S-F-X Free Full Text From Publisher View Associated Data 	COVID-19 outbreak peak cents identified during the peak of the 9, 2020, res _I Show more Related records

Access associated data from a document record

health worldwide, it is important to identify individuals and groups who are at high risk of mental health impairment.

which is frequently complex to identify, can be detected using standardized measures and analyzing these according

examining means and frequencies. The results suggest that the COVID-19 crisis may provide an opportunity to unders



Abstract

Dataset includes data from the study that investigated: (i) differences in levels of depressive and generalized anxiety symptoms in four age groups in the Polish population during the COVID-19 lockdown; (ii) differences in perceived difficulties related to the pandemic in these groups; and (iii) which factors and difficulties related to the pandemic are the best predictors of generalized anxiety and depressive symptoms in various age groups during the COVID-19 lockdown. A total of 1,115 participants (aged 18-85) took part in the study. The sample was representative of the Polish population in terms of sex, age, and place of residence. Participants completed the following online: the Patient Health Questionnaire-9, the Generalized Anxiety Disorder-7, a Scale of Perceived Health and Life Risk of COVID-19, a Social Support Scale, and a Scale of Pandemic-Related Difficulties.

Clarivate

men.

Data Citation Index presents a different indexation and thus different search options



Data Citation Index presents the powerful Web of Science options for exploring a body of information

	7,662 results from Dat	a Citation Index	for:	
	Q covid and "mental health"	(Topic)		Analyze Results
	CD Copy query link Publications You	ı may also like		
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Data Source	Filter by Marked List Publication Years 2023	~ 220	□ 1 English Longitudinal Study of Ageing: Waves 0-9, 1998-2019 the depos Nazroo, J; Marmot, M; (); Clemens, S 2020 UK Data Archive Data set Abstract copyright UK Data Service and data collection copyright owner. The English Longitudinal Study ageing and quality of life among older people that explores the dynamic relationships between health are uncommon second and	itor of the data and ary a lot from one ce to another
ZENODO 120 MENDELEY DATA 118 UK DATA ARCHIVE 37 See all >	2022 2021 2020 2019	3,288 2,940 1,212 2	View data ••• Data Types	~ 5,960
			Data Figure 2 University Student Health and Well-being Survey 2021 Project	1,200 84
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Data Citation Index present the powerful Web of Science options for exploring a body of information



Reading a data record in Data Citation Index

View data Cite this Resource Export ~ Add To Ma	rked List ~ of 7,662 >
University Student Health and Well-being Survey 2021 Group Author: Finnish Institute for Health and Welfare Finnish Social Science Data Archive Source URL: http://urn.fl/urn.inbnfifsd:TFSD3616 Published: 2022 Indexed: 2023-02-14 Content Type: Data study Data Type: Quantitative Abstract This national survey examined the health and health-related behaviour of university of applied sciences (polytechnic) students in Finland. Questions covered, among other topics, physical, mental and dental health, health-related behaviour, use of health services, and satisfaction with health services. Factors related to the ability to study and well-being, such as social relationships and income, were also examined. The survey also included questions on the CoVID-19 pandemic, ongoing at the time. The study and well-being, such as social relationships and income, were also examined. The survey also included questions on the CoVID-19 pandemic, ongoing at the time. The study and well-being is una social relationships and income, were also examined. The survey also included questions on the CoVID-19 pandemic, ongoing at the time. The study and well-being is una social relationships and income, were also examined. The survey also included questions on the CoVID-19 pandemic, ongoing at the time. The study and well-being is unaver of questions relating to long-term illnesses, disabilities or disorders, and current well-being in general. The respondents were asked if they had suffered from a variety of symptoms in the previous month. Birth control methods used by the respondent and her/his pattner within the previous month were surveyeed. Some questions covered the respondents' weight, height, and attitude toward food. Psychological or social symptoms causing problems were investigated. Psychosocial health was further studied using items of the General Health Questionnaire (GHQ-12). Use of healthcare services providers. Time spent situation with the services of the Finnish Student Health Service (FSH) were surveyeed, a	Citation Network In Web of Science Core Collection 9 Citations Create citation alert 25 0 Times Cited in All Databases + See more times cited Most Recently Cited by Oksanen, A; Laimi, K; Kunttu, K; et al. A 12-YEAR TREND OF PSYCHOLOGICAL DISTRESS: NATIONAL STUDY OF FINNISH UNIVERSITY
snack, dinner), and the consumption of fruit and vegetables. The respondents were also asked how often they brushed or flossed their teeth and used toothpaste or xylitol products, and whether they had problems with teeth grinding, facial pain or jaw locking. Health-related behaviour was further studied by asking the respondents about their	CENTRAL EUROPEAN JOURNAL OF PUBLIC HEALTH

Research data citation



Track citations to the data and software you have shared

Demonstrate the impact and influence of your work

View data Cite this Resource Export ~ Add To M	larked List → < _2 of 7,662 >
University Student Health and Well-being Survey 2021	Citation Network
Group Author: Finnish Institute for Health and Welfare	In Web of Science Core Collection
Finnish Social Science Data Archive	9
Source URL: http://urn.fi/urn:nbn:fi:fsd:T-FSD3616	Citations
Published: 2022	
Indexed: 2023-02-14	Create citation alert
Content Type: Data study	
Data Type: Quantitative	25 0
Abstract	Times Cited in All Cited References
This national survey examined the health and health-related behaviour of university and university of applied sciences (polytechnic) students in Finland. Questions covered,	Databases
among other topics, physical, mental and dental health, health-related behaviour, use of health services, and satisfaction with health services. Factors related to the ability to study and well-being, such as social relationships and income, were also examined. The survey also included questions on the COVID-19 pandemic, ongoing at the time. The study was funded by the Social Insurance Institution, the Ministry of Education and Culture, and the Finnish Institute for Health and Welfare. General state of health was	+ See more times cited
charted with a number of questions relating to long-term illnesses, disabilities or disorders, and current well-being in general. The respondents were asked if they had suffered from a variety of symptoms in the previous month. Birth control methods used by the respondent and her/his partner within the previous month were surveyed. Some questions covered the respondents' weight, height, and attitude toward food. Psychological or social symptoms causing problems were investigated. Psychosocial health was	Most Recently Cited by
further studied using items of the General Health Questionnaire (GHQ-12). Use of healthcare services by different types of service providers and satisfaction with the services of the Finnish Student Health Service (FSHS) were surveyed, along with reasons for using the services of other healthcare service providers. Time spent sitting during the day as well as engagement in sporting activities and less vigorous physical activities were surveyed. Eating habits were investigated with a number of questions, for instance, asking whether the respondents ate at student restaurants, what diet they followed, on how many days per week they ate certain meals or snacks (e.g. breakfast, lunch, afternoon snack, dinner), and the consumption of fruit and vegetables. The respondents were also asked how often they brushed or flossed their teeth and used toothpaste or xylitol products, and whether they had problems with teeth grinding, facial pain or jaw locking. Health-related behaviour was further studied by asking the respondents about their	Oksanen, A; Laimi, K; Kunttu, K; et al. A 12-YEAR TREND OF PSYCHOLOGICAL DISTRESS: NATIONAL STUDY OF FINNISH UNIVERSITY STUDENTS CENTRAL EUROPEAN JOURNAL OF PUBLIC HEALTH

How do we count citations to data?

The citation information is gathered from three main sources:

- from repositories where available
- from formal cited references lists in publications
- from informal citations in the literature full text (captured from text of articles from *life science databank accession numbers*)



low to cite research da	Ita?	provides a citation DataCite's citat (https://www.	n format based on the tion guidelines /.datacite.org)
View data	Cite this Reso	Export V Add To M	Marked List ~ of 7,662 >
University Student Health and Well-being Survey 2021	Clarivate recommends citing this resource as:		Sitation Network
Group Author: Finnish Institute for Health and Welfare Finnish Social Science Data Archive Source URL: http://urn.fi/urn:nbn:fi:fsd:T-FSD3616 Published: 2022 Indexed: 2023-02-14 Content Type: Data study Data Type: Quantitative	Finnish Institute for Health and Welfare (2022): University 2021. Finnish Social Science Data Archive. http://urn.fi/ur	v Student Health and Well-being Surve n:nbn:fi:fsd:T-FSD3616	vey tations Create citation alert
Abstract This national survey examined the health and health-related behaviour of among other topics, physical, mental and dental health, health-related behaviour	our, use of neutroservices, and satisfaction with neutroservice	Clos	.5 () imes Cited in All Cited References atabases
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Elements of a Data Citation

Metadata elements for the DataCite citation guideline

DataCite is a leading global non-profit organization that provides persistent identifiers (DOIs) for research data and other research outputs.

Author/Creator	Individuals or organizations that created or contributed to the data set; this metadata element is vital to guarantee attribution and credit for data contributor, and to provide metrics for their nontraditional scholarly output
Year	The year of "publication" of the data; when it is made publicly available, such as through deposition in a repository
Title	The title of the data object, which may differ from the title of the parent research paper/project
Publisher	The data repository that houses the data and/or the governing organization responsible for publishing, (i.e., making available) the data
Version	Dynamic data sets or those where new editions may be issued (such as with error corrections or new values) must employ proper version control to guarantee accuracy and uniqueness in data citation
Permanent Identifier	A unique and persistent identifier should be assigned; for example, a Digital Object Identifier (DOI); in Data Citation Index citations, this bibliographic element may take the form of a unique URL, databank accession number, or other permanent identifier such as Handle (hdl) (<u>http://www.handle.net/</u>)



Recommendations to cite data





A guide to best practice



Everyday millions of people use data. They search, publish, reuse, analyse! But very often, a major difficulty for the users is finding the right data. And how to help them? It is simple: Cite the data! The publication "Data citation : a guide to best practice" is a practical guide that includes recommendations and best practices on how to cite data. It is divided in 3 parts: part 1 – issues in data citation, general recommendations; part 2 – recommendations on specific formats and other elements for data citation and part 3 – other information (e.g. specific differences between recommendations). At the end the reader will find annexes with checklists, diagrams and examples.

EU publications



Why relying on Data Citation Index?



Master Data Repository List

The repositories

Started in 2012, with 50 repositories, DCI is now indexing +450 repositories and we are aiming to expand coverage.

⁻his sho	2,397,214 FIGSHARE ws the top 25 repositorie	951,349 CAMBRIDGE STRUCTURAL DATABASE S by number of records in	570,266 UNIPROT KNOWLEDGEBASE	423,716 ARRAYEXPRESS ARCHIVE	236,458 ANIMAL QTL DATABASE	232,392 UCD DIGITAL LIBRARY
		920 296	560.995			
	1,728,039 ZENODO	UNITE	PANGAEA	192,041 WORLDWIDE PROTEIN DATA BANK	133,595 Hepdata	131,129 DRYAD
		695,086 u s census bureau tiger line shapefiles	533,852 EUROPEAN NUCLEOTIDE ARCHIVE	155,036 MENDELEY DATA	128,878 1 THE YI MATERIALS R	13,06 110,9 EAST DEG A ESOURC DATAB/
	1,718,900 GENE EXPRESSION OMNIBUS	616.050	407.000	148,386 DATA ARCHIVING AND NETWORKED SERVICES		ENTER OF UBLIC ESSEN [®] IAGE GENES EPOSITO
		BACDIVE	427,022 CRYSTALLOGRAPHY OPEN DATABASE	DANS KNAW 136,593 BARCODE OF LIFE DATA SYSTEM	106,100 PITT QUANTUM REPOSITORY	103,289 INCORPORAT RESEARCH

Clarivate[™]

Over 95% of the repositories in the DCI provide free access to content.

Repository Selection & Evaluation

<u>The Repository Selection Process explained</u> *Recommending a repository for coverage*

Repositories are selected by Clarivate editorial team, like journals are selected for the Web of Science Core Collection. The editorial team considers many factors, both qualitative and quantitative.

Publishing Standards

Persistence and Stability Funding Statements Peer Review Age of material Metadata & links to the literature

Editorial Content

Emerging topics Active fields

International Diversity

Among Authors, Editors, Data Producers & Deposited Data.

Data Citations

References that cite the data References cited by the data

The repositories are globally distributed and provide quality control and editorial policies for managing the data. The repository must also show a long-term data preservation strategy and be actively updating content.

The geographical coverage by repository location

Researchers do not necessarily deposit their data in a local repository



The geographical coverage by author address

The records in the Data Citation Index span > 240 countries

	1,502,739 USA	173,909 CANADA	91,451 NETHERLANDS	61,928 switzerland	55,972 SPAIN	53,977 sweden	
This sl	hows the top 25 countries	s by number of records in	the DCI				
		142,130	84,791		_		
		UNITED KINGDOM	FRANCE	41,839 BRAZIL	24,533 23 BELGIUM SI	3,353 21,630 NGAPORE	
	201,106 CHINA	127.387	72 735				
		JAPAN	ITALY	34,080			
				DENMARK	19,186 ISRAEL	16,305 15,51 Finland Austri	
	180,151 germany	123,173 68,602					
				25,244 SOUTH KOREA	17,822 INDIA	14,118 TAIWAN	

Organizations represented

Note that affiliation names are not unified in DCI (only in the Core Collection)

	85,622 UNIVERSITETET I BERGEN	46,177 HARVARD UNIVERSITY	26,704 NEW MEXICO STATE UNIVERSITY	22,509 RIKEN	22,000 UNIVERSI FLORIDA	TY OF	19, UNIV OF CALI LOS	375 /ersity fornia angeles	18,936 ^{USGS}
This	s shows the top 25 organi	sations by number of re	cords in the DCI						
			24,580						
	68,744 PEKING UNIVERSITY	34,718 STANFORD UNIVERSITY	KAROLINSKA INSTITUTET	18,357 UNIVERSITY OF WASHINGTON		17,23 ENCOD DCC	33 E	17,232 DOE JOINT GENOME INSTITUTE	16,721 WAGENING UNIVERSIT AND
		32,285 UNIVERSITY OF MINNESOTA	23,807 BROAD INSTITUTE	17,843 PURDUE UNIVERSIT	ΓY				RESEARCH
	61.502			17,383		16,49	3		15,121
	UNIVERSITY OF ALBERTA		23.792	UNIVERSITY OF QUEENSLAND		NATIONAL INSTITUTES OF HEALTH		YALE UNIVERSI	
		28,176 WHEATON COLLEGE	UNIVERSITY OF CALIFORNIA SAN DIEGO	17,339 UNIVERSITY OF MICHIGAN		16,2 4 DUKE U	2 NIVER	RSITY	

Data coverage by Web of Science categories

5,174,342 Genetics Heredity	1,526,579 Crystallography	618,534 Microbiology	243,403 Spectroscopy 212,2 Oceano		212,270 Oceanography		53 ry ciplinary						
This shows the top 25 catego	pries by the number of reco	rds in the DCI											
4 884 485	931,985 Geosciences Multidisciplinary	584,276 Social Sciences Interdisciplinary	149,839 Physics Particles Fields		149,839 Physics Particles Fields		149,839 Physics Particles Fields Biodi		149,839 Physics Particles Fields Biodiversity		11 Met	110,959 Meteorology	
Multidisciplinary Sciences		Poll data, economic statistics, longitudinal data,		Conservatior		n Atmospheric Sciences							
		national census, public opinion surveys	143,694										
	701,339 Ecology	428,195 Humanities Multidisciplinary	Engineering Multidisciplinary		90,381	70,809	65,9						
2,838,626		Cultural heritage, language corpus, image collections, recordings	136,995 Geochemistry Geoph	ysics	Evolutionar Biology	Chemisti Organic	Plant Scienc						
Biochemistry Molecular Biology	696,017	294.340											
	Geography	Environmental Sciences	136,712 Materials Science Multidisciplinary		51,712 Chemistry	45 Mai	,965 ^{rine}						

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				1834	
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see all > Content Type Data Set Data Study Software Repository	1,416,744 ~ 12,362,781 1,434,936 264,771 443	Image: Second state Jacobs, Peter Rutgers University Community Repository Data set Alternating pieces of chintz and eight point stars View data	Selected item Baby Crib Quilt Image High Resolution Image Image 1	Description Title Baby Crib Quilt Name Jacobs, Peter (Photographer); Montclair History Center; Nubian Heritag Date Created 1800-1899 Other Date 2016-06-11- 2016-06-12 (Date photographed) Subject Traditional Design, Courtyard Steps, Hand Pieced, Hand Quilted, Velve Description Part of a rocking chair for an infant, this quilt is upholstered into to Genre quilts	e Quilters Guild ets, satins, brocade the chair frame

How do we curate data?

Our editorial team work on all the data from the repositories.



- As a result, improved records for Repositories, Data Studies, Data Sets and Software are added to the Data Citation Index.
- The DCI spans from 1900 and earlier, and includes all available citation data

How do we organize data?

+450	+1.5M	+13M	+350K
DATA REPOSITORIES	DATA STUDIES	DATASETS	SOFTWARE

4 content types



- We evaluate and select the best data repositories for content, persistence and stability, and searchability. Data that we index is organized into three content types to enhance searchability and discoverability:
- **Repository**: This resource consists of data studies and data sets and provides access to the data.
 - **Data Study**: This is a description of the study or experiment with the associated data used in the study. Includes serial or longitudinal studies over time.
 - Data Set: A single or coherent set of data, or a data file, provided by the repository as part of a collection, data study, or experiment.
 - **Software**: A computer program or package in source code or compiled form, which can be installed on another machine and used to support & analyze research.

How will Data Citation Index help you?



Data Citation Index can help you

RESEARCHERS	 Save time looking for data in one place rather than searching across repositories Avoid duplication of efforts Reach more people, have greater impact
	 Track citations and get recognition for the data and software you are sharing
LIBRARIANS	 Promote the value and the importance of sharing data Provide a trusted reference for researchers of where to deposit their data Preserve data for future researchers Validate attribution of single datasets by researchers
RESEARCH OFFICES	 Improve your research visibility and impact Align your strategy with Open Science



Data Citation Index

Connecting data to the research it informs

Go to product Contact us

For questions, contact: <u>WoSG.support@clarivate.com</u>

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