

Accelerarea contribuției cercetării la Obiectivele de Dezvoltare Durabilă ale ONU

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Octombrie 2022

Obiectivele de Dezvoltare Durabilă ale ONU

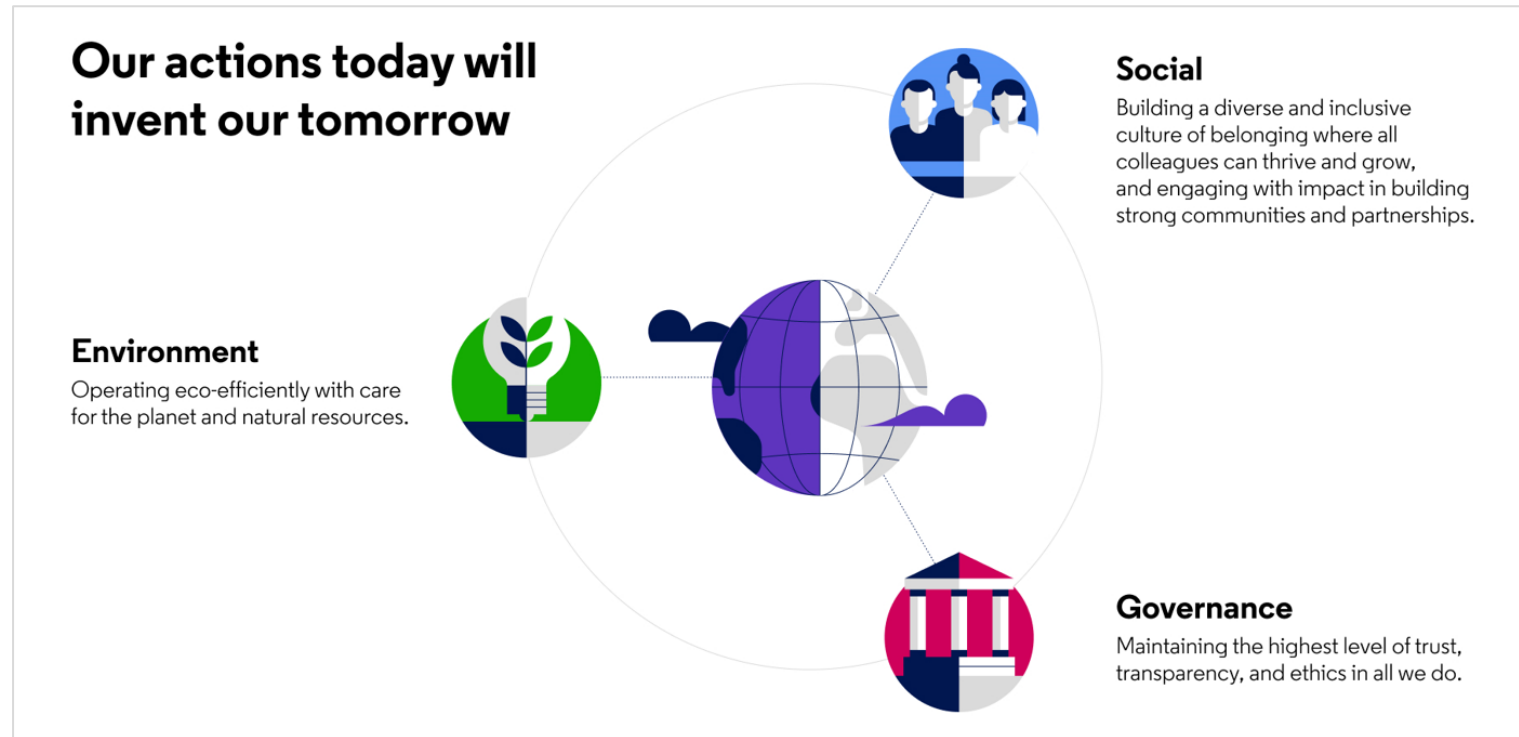


Învățământul superior și Obiectivele de Dezvoltare Durabilă

- Creșterea cercetării interdisciplinare
- Înființarea de centre de excelență și centre de cercetare
- Accelerarea inovării
- Dezvoltarea de idei revoluționare
- Colaborarea cu industria, sectorul terțiar și comunitatea locală



Dezvoltare durabilă la Clarivate

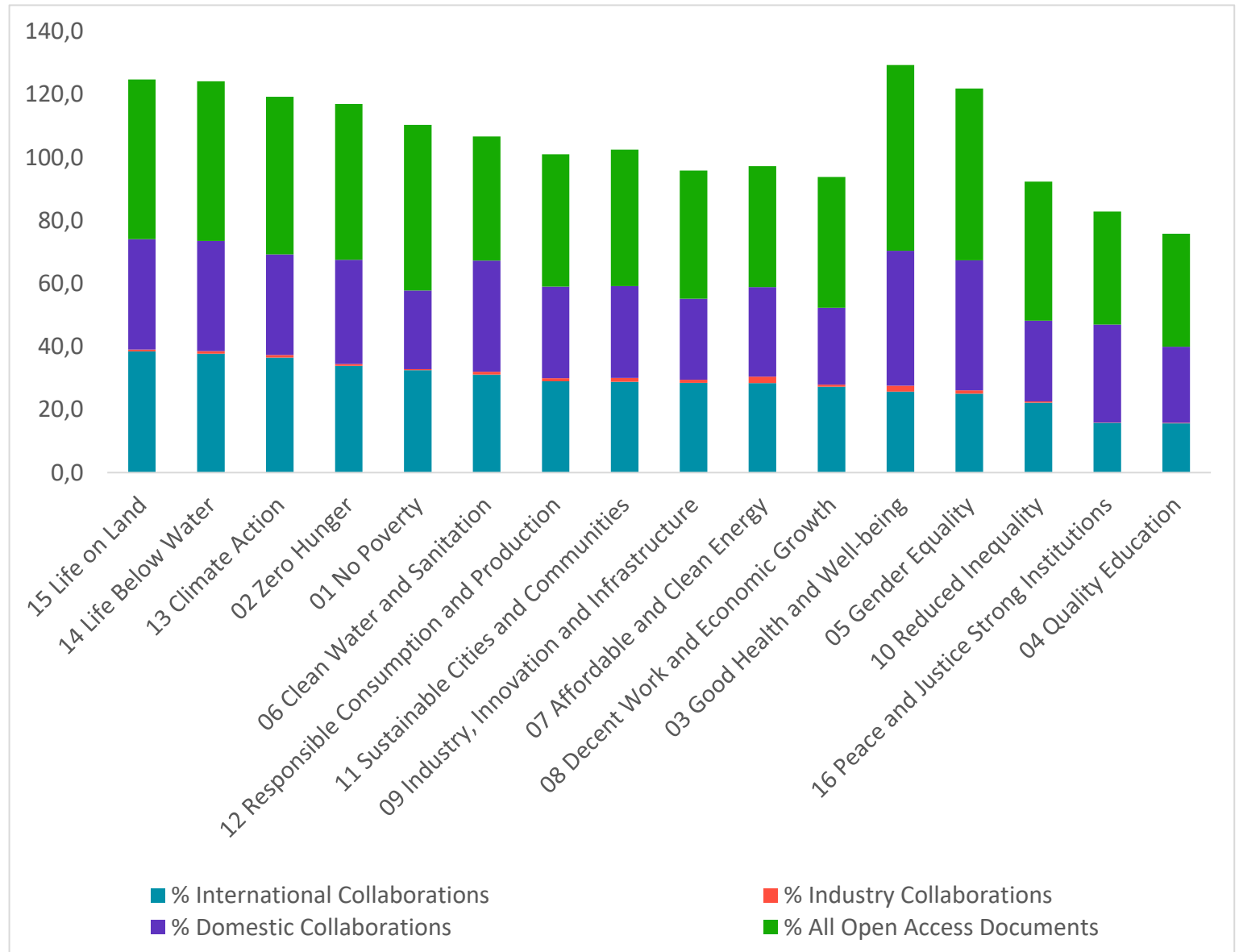


La Clarivate, dezvoltarea durabilă se află în centrul a tot ceea ce facem. Ajutăm organizațiile să inoveze pentru un viitor mai bun la nivel mondial, respectând în același timp cele mai înalte standarde sociale, de mediu și etice.

Cadrul actual de cercetare pentru Obiectivele de Dezvoltare Durabilă

SDGs

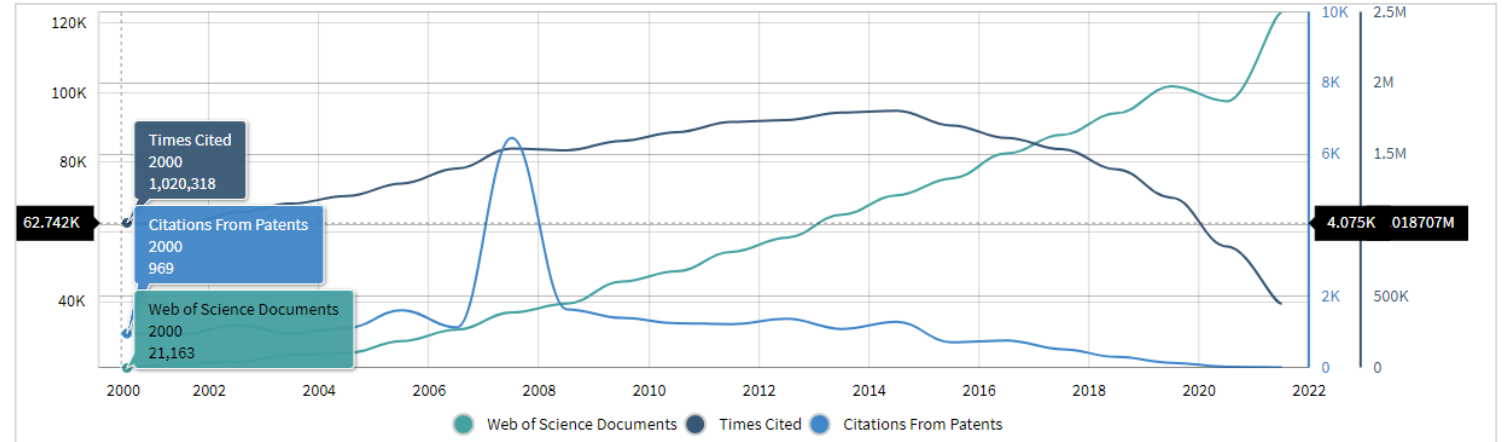
- 6 432 263 de documente legate de ODD produse în perioada 2017-2021.
- "Sănătate și bunăstare" are cea mai mare pondere de 61 % în raport cu totalul producției ODD.



Focus pe ODD 13 Acțiune climatică

- Cercetarea privind schimbările climatice a acumulat peste 1,5 milioane de publicații și 39 de milioane de citări. Peste 84% dintre aceste documente au fost citate cel puțin o dată, cu 35.675 de citări din brevete.

Obiectivul 13. Acțiune climatică



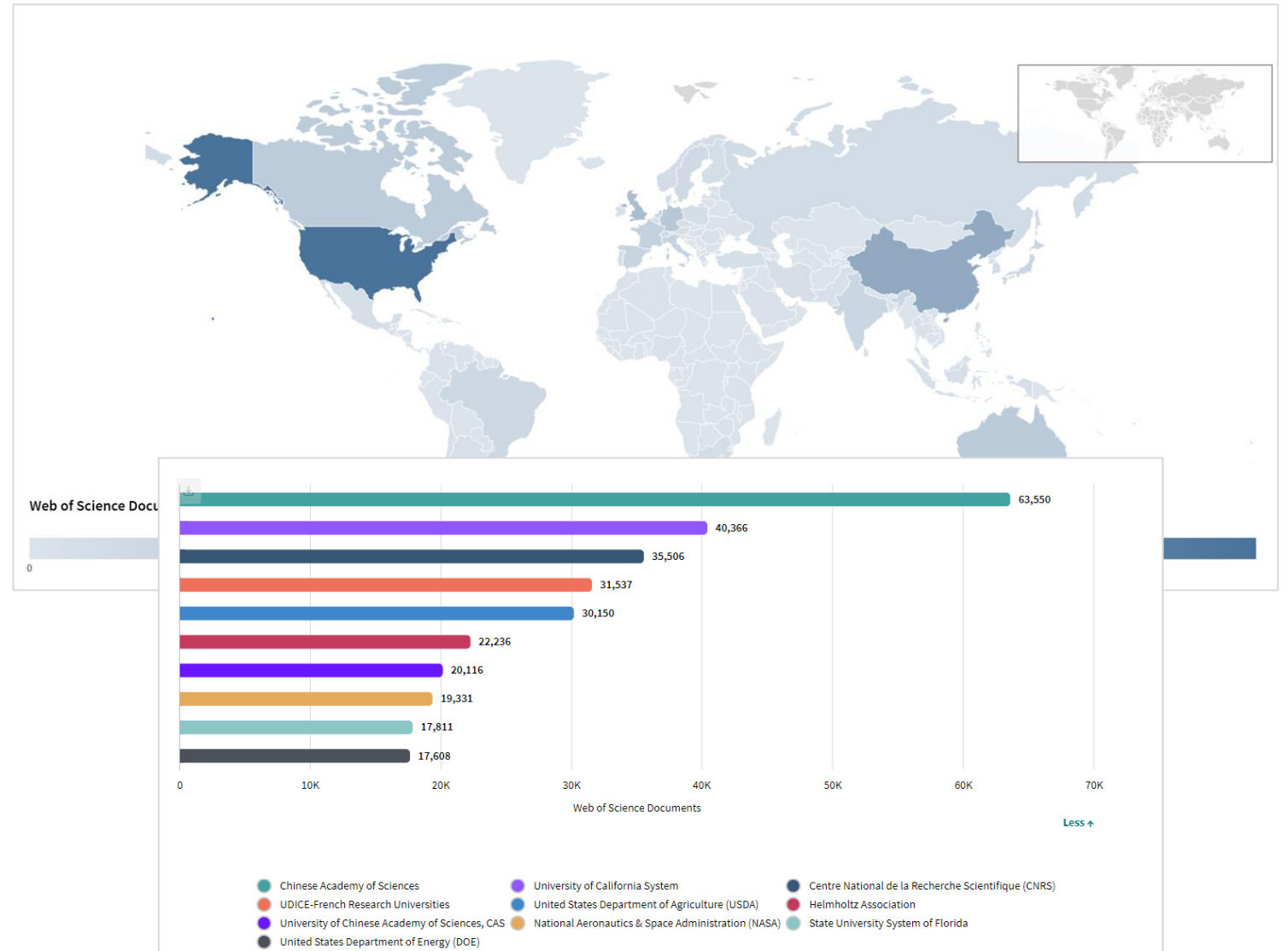
Research Area	Web of Science Documents	Times Cited	Highly Cited Papers	% Documents Cited	Citation Impact
13 Climate Action	1,578,328	39,034,880	11,055	84.89%	24.73

% All Open Access Documents	% International Collaborations	Industry Collaborations	Citations From Patents
31.76%	24.6%	17,515	35,675

Focus pe ODD 13 Acțiune climatică

- Instituții de prim rang
- Țări de top

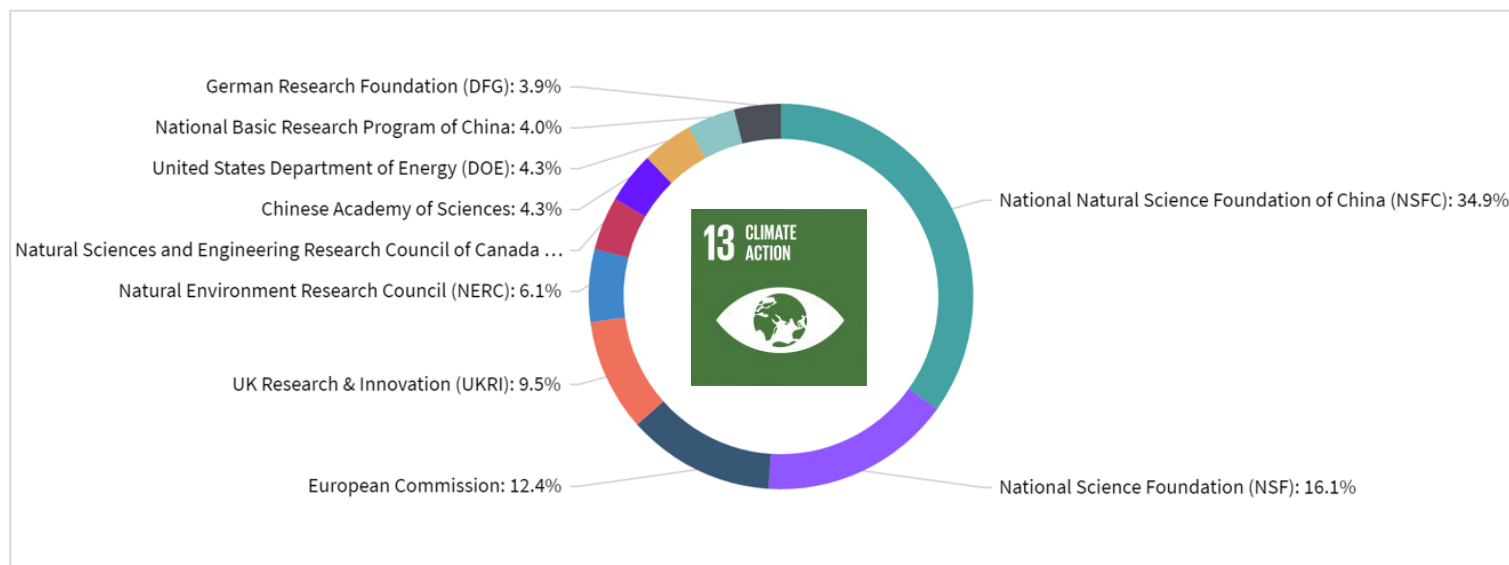
Obiectivul 13. Acțiune climatică



Focus pe ODD 13 Acțiune climatică

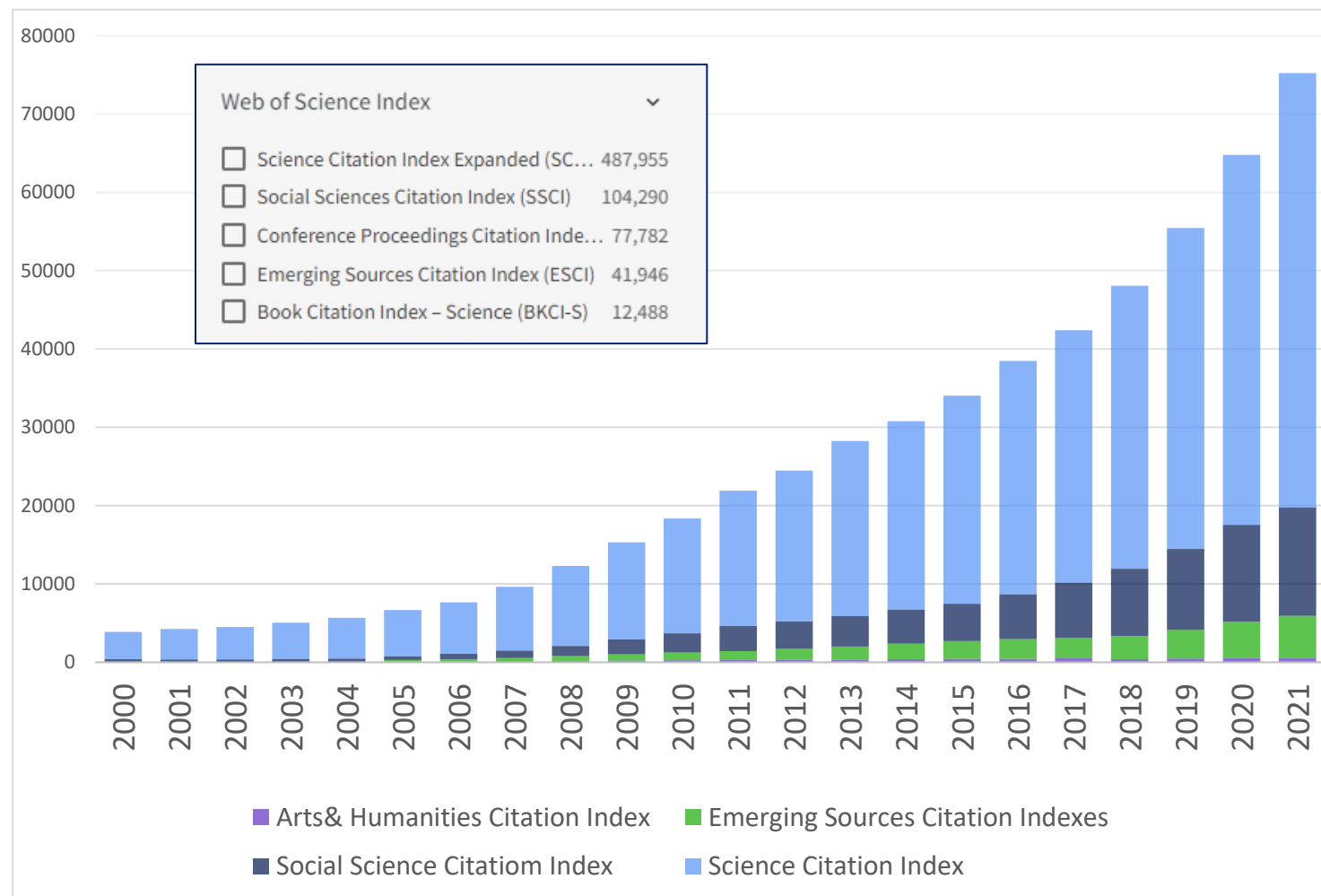
- Instituții de prim rang
- Agenții de finanțare de top

Organization Name	Rank	Country or Region	Category Normalized Citation Impact	Web of Science Documents	Times Cited	Citation Impact	% Documents Cited	% International Collaborations
✓ Royal Swedish Academy of Sciences	1	SWEDEN	4.19	517	71,822	138.92	95.74%	72.15%
✓ Woods Hole Research Center	2	USA	3.55	985	120,492	122.33	97.87%	60.81%
✓ Stockholm Environment Institute	3	SWEDEN	3.37	569	47,383	83.27	91.04%	71.18%
✓ Carnegie Institution for Science	4	USA	2.85	1,228	148,345	120.8	96.42%	53.5%
✓ Conservation International	5	USA	2.8	688	88,600	128.78	94.77%	77.33%
✓ Norwegian Meteorological Institute	6	NORWAY	2.73	600	35,032	58.39	92.33%	66.83%
✓ Potsdam Institut für Klimafolgenforschung	7	GERMANY (FED REP GER)	2.7	3,011	241,121	80.08	95.12%	71.11%
✓ Cary Institute of Ecosystem Studies	8	USA	2.59	828	85,573	103.35	96.5%	38.65%



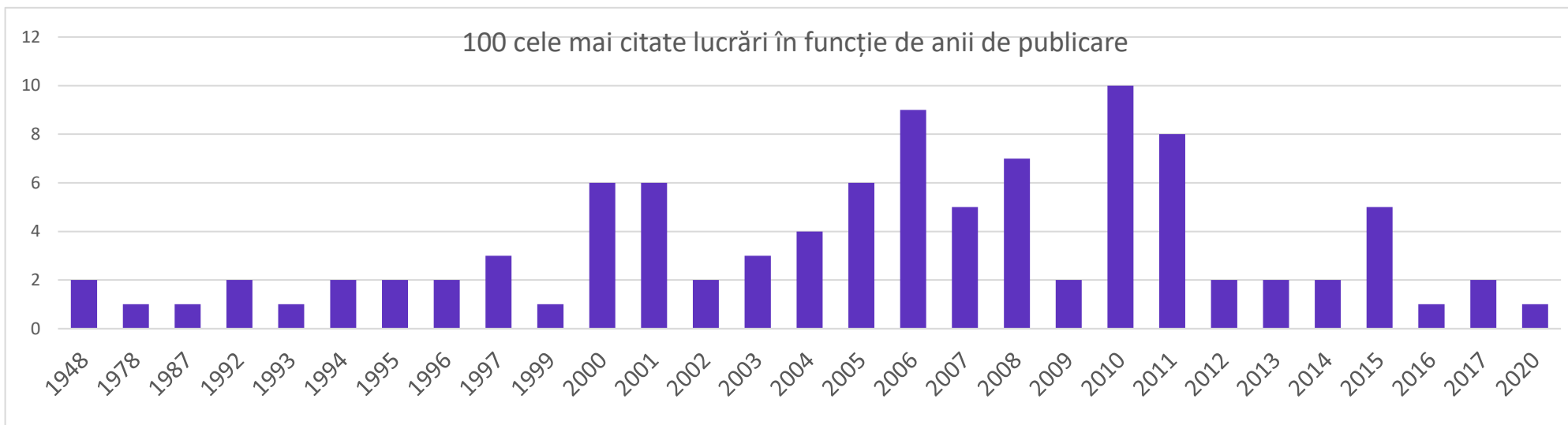
Cercetarea privind schimbările climatice în Web of Science

Cercetarea privind schimbările climatice reprezentată în diferiți indici Web of Science Core Collection

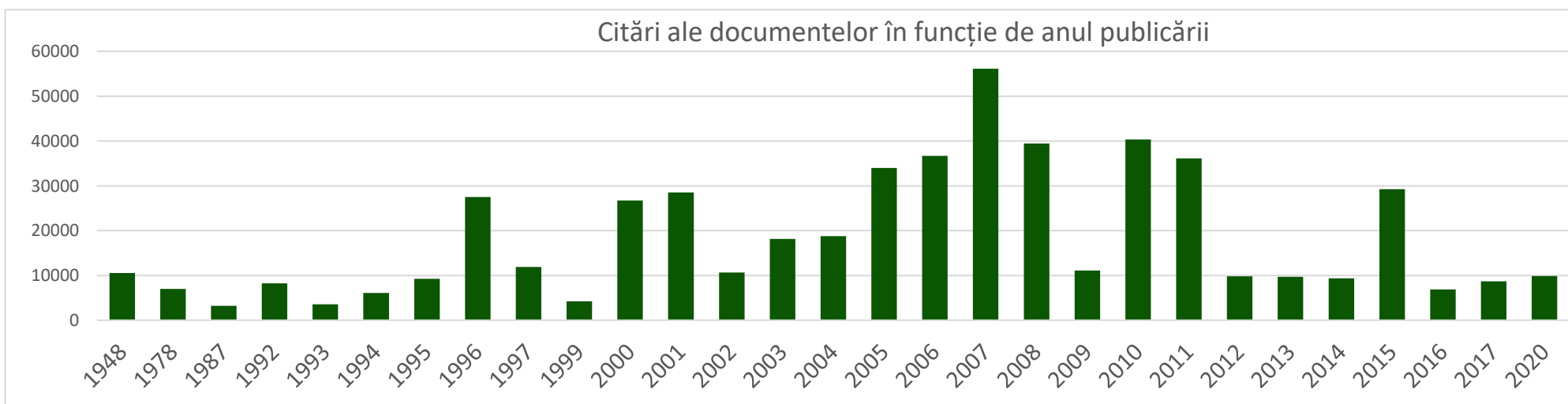


Top 100 cele mai citate lucrări

Primele 100 cele mai citate lucrări au fost publicate între 1948 și 2020, 67% dintre acestea fiind publicate înainte de 2010.



Există un total de 531.926 de citări ale acestor lucrări. 71% dintre aceste citări se referă la articole publicate înainte de 2010.



Fundamentul istoric al descoperirilor de astăzi

Primele cercetări privind schimbările climatice



Svante August Arrhenius
Premiul Nobel
pentru chimie
1903

În 1896, Svante Arrhenius a calculat că efectul unei dublări a dioxidului de carbon din atmosferă ar fi o creștere a temperaturilor la suprafață cu 5-6 grade Celsius.

On the Influence of Carbonic Acid in the Air upon the Temperature of the Ground

Svante Arrhenius

Philosophical Magazine and Journal of Science
Series 5, Volume 41, April 1896, pages 237-276.

This photocopy was prepared by Robert A. Rohde for Global Warming Art (<http://www.globalwarmingart.com>) from original printed material that is now in the public domain.

Arrhenius's paper is the first to quantify the contribution of carbon dioxide to the greenhouse effect (Sections I-IV) and to speculate about whether variations in the atmospheric concentration of carbon dioxide have contributed to long-term variations in climate (Section V). Throughout this paper, Arrhenius refers to carbon dioxide as "carbonic acid" in accordance with the convention at the time he was writing.

Contrary to some misunderstandings, Arrhenius does not explicitly suggest in this paper that the burning of fossil fuels will cause global warming, though it is clear that he is aware that fossil fuels are a potentially significant source of carbon dioxide (page 270), and he does explicitly suggest this outcome in later work.

THE
LONDON, EDINBURGH, AND DUBLIN
PHILOSOPHICAL MAGAZINE
AND
JOURNAL OF SCIENCE.
[FIFTH SERIES.]
APRIL 1896.

XXXI. *On the Influence of Carbonic Acid in the Air upon the Temperature of the Ground.* By Prof. SVANTE ARRHENIUS*.

I. Introduction: Observations of Langley on Atmospheric Absorption.

A GREAT deal has been written on the influence of the absorption of the atmosphere upon the climate. Tyndall† in particular has pointed out the enormous importance of this question. To him it was chiefly the diurnal and annual variations of the temperature that were lessened by this circumstance. Another side of the question, that has long attracted the attention of physicists, is this: Is the mean temperature of the ground in any way influenced by the presence of heat-absorbing gases in the atmosphere? Fourier‡ maintained that the atmosphere acts like the glass of a hot-house, because it lets through the light rays of the sun but retains the dark rays from the ground. This idea was elaborated by Pouillet§ and Langley was by some of his researches led to the view, that "the temperature of the earth under direct sunshine, even though our atmosphere were present as now, would probably fall to -200° C., if that atmosphere did not possess the quality of selective

* Extract from a paper presented to the Royal Swedish Academy of Sciences, 11th December, 1895. Communicated by the Author.
† Heat a Mode of Motion, 2nd ed. p. 405 (Lond., 1865).
‡ Mem. de l'Ac. R. S. de l'Inst. de France, t. vii. 1827.
§ Comptes rendus, t. vii. p. 41 (1838).
Phil. Mag. S. 5. Vol. 41. No. 251. April 1896. S

https://www.rsc.org/images/Arrhenius1896_tcm18-173546.pdf

✓ 1 On the influence of carbonic acid in the air upon the temperature of the ground.



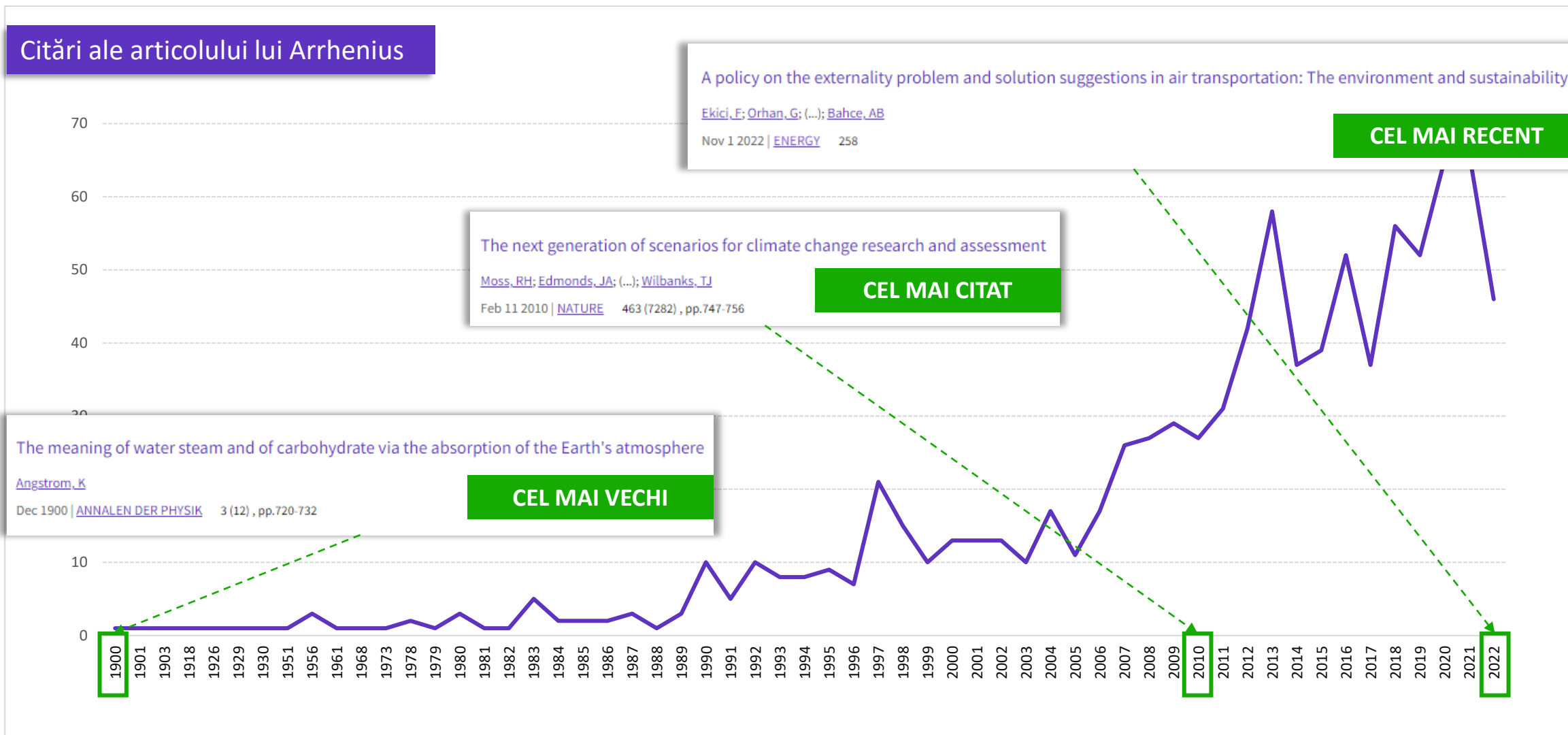
[Arrhenius, S.](#)

1992 | Tisglow 3 (1), pp.3-36

This article first published in 1896, is one of the earliest quantitative discussion of changes in surface temperature from changes in atmospheric CO₂. Climatic change and the occurrence of ice ages is explained on geological time scales. Data on the atmospheric absorption of moonlight are used to clarify the discussion.

...

Primele cercetări privind schimbările climatice



Pe ce se bazează cele mai importante descoperiri?

The next generation of scenarios for climate change research and assessment

By: Moss, RH (Moss, Richard H.) [1]; Edmonds, JA (Edmonds, Jae A.) [1]; Hibbard, KA (Hibbard, Kathy A.) [2]; Manning, MR (Manning, Martin R.) [3]; Rose, SK (Rose, Steven K.) [4]; van Vuuren, DP (van Vuuren, Detlef P.) [5]; Carter, TR (Carter, Timothy R.) [6]; Emori, S (Emori, Seita) [7]; Kainuma, M (Kainuma, Mikiko) [7]; Kram, T (Kram, Tom) [5]

; ...More

[View Web of Science ResearcherID and ORCID](#) (provided by Clarivate)

NATURE

Volume: 463 Issue: 7282 Page: 747-756

DOI: 10.1038/nature08823

Published: FEB 11 2010

Indexed: 2010-02-11

Document Type: Article

Abstract

Advances in the science and observation of climate change are providing a clearer understanding of the inherent variability of Earth's climate system and its likely response to human and natural influences. The implications of climate change for the environment and society will depend not only on the response of the Earth system to changes in radiative forcings, but also on how humankind responds through changes in technology, economies, lifestyle and policy. Extensive uncertainties exist in future forcings of and responses to climate change, necessitating the use of scenarios of the future to explore the potential consequences of different response options. To date, such scenarios have not adequately examined crucial possibilities, such as climate change mitigation and adaptation, and have relied on research processes that slowed the exchange of information among physical, biological and social scientists. Here we describe a new process for creating plausible scenarios to investigate some of the most challenging and important questions about climate change confronting the global community.

Keywords

Keywords Plus: MODEL; ATMOSPHERE

Rețeaua de citări poate indica nu numai articolele care citează, ci și referințele și alte înregistrări conexe.

Clasificarea articolelor citate, nou introdusă, afișează defalcarea modului în care articolul a fost menționat.

Citation Network

In All Databases

4,222

Citations



Create citation alert

4,222

New

Times Cited in All
Databases

86

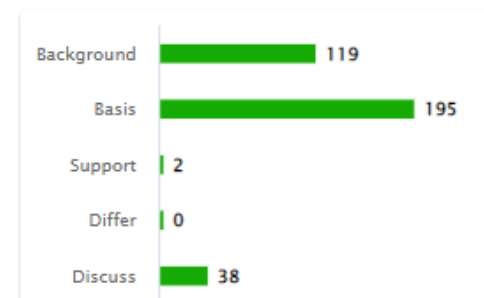
Cited References

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+ [See more times cited](#)

Citing items by classification New

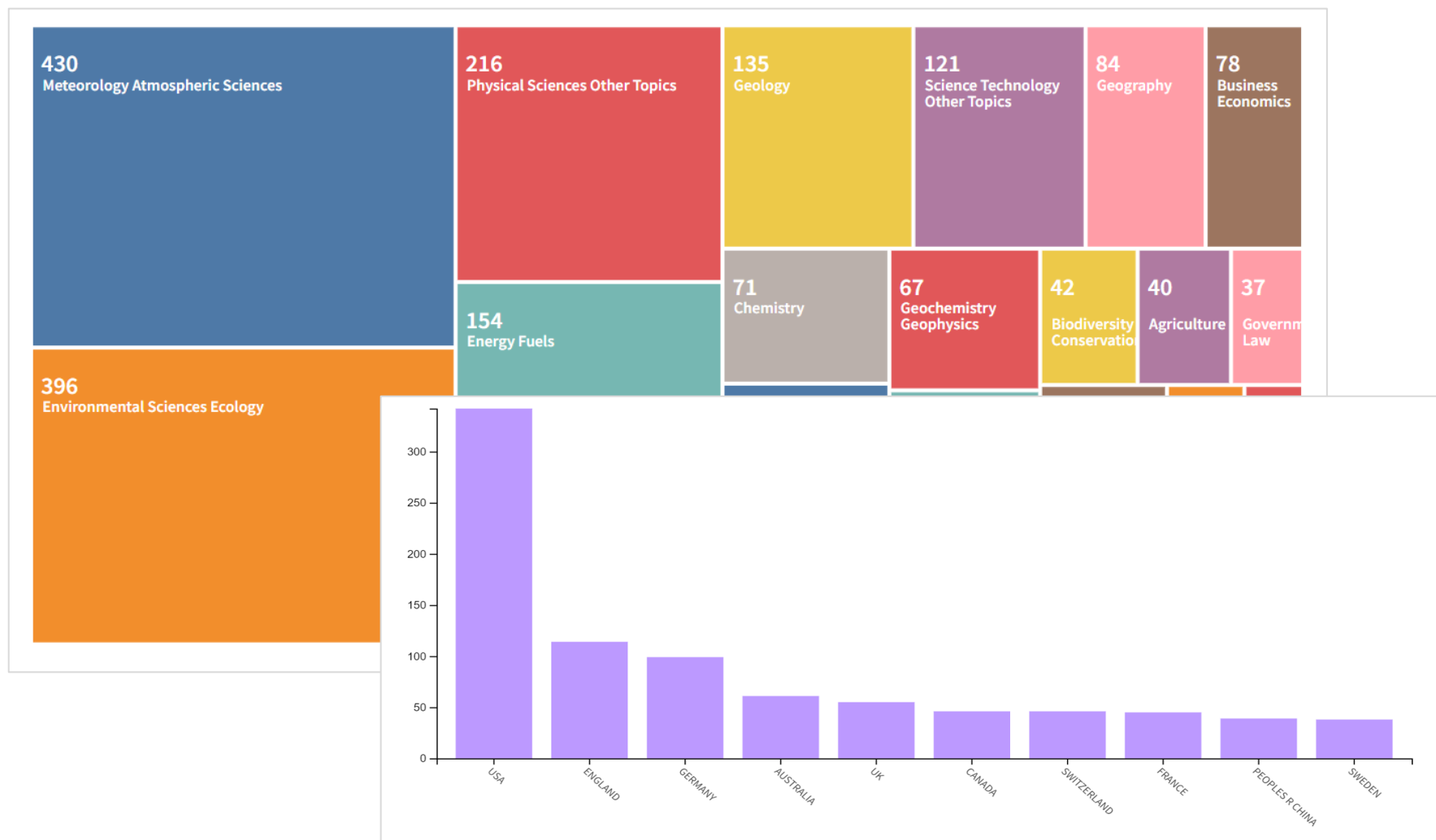
Breakdown of how this article has been mentioned, based on available citation context data and snippets from 320 citing item(s).



Impactul interdisciplinar

Lucrarea a avut un impact nu doar asupra meteorologiei sau a studiilor de mediu, ci și asupra altor categorii, inclusiv științele sociale, economia afacerilor, educația sau dreptul.

Lucrarea a fost deja citată de cercetători din 73 de țări diferite.



Căutarea altor lucrări relevante privind schimbările climatice

Copiați link-ul pentru a distribui rezultatele colegilor

Filtrele rapide pot fi utilizate pentru a găsi articolele cele mai citate, articolele disponibile într-o versiune cu acces liber sau seturile de date asociate.

EndNote Click va recupera textul integral disponibil în format pdf

1,168,524 results from All Databases for:

Q (Climate and change) or "greenhouse effect" OR "Paleo-climate" OR paleoclimate OR (climate and warming) OR (Extreme AND weather) OR (g... Analyze Results Citation Report Create Alert

Did you mean? (Climate and change) or "greenhouse effect" OR "Paleo-climate" OR paleoclimatic OR (climate and warming) OR (Extreme AND weather) OR (global AND warm*) OR "green energy" OR "Renew* energy" (topic) | 1,147,834 results

Copy query link

Publications You may also like...

Refine results

Search within topic...

Filter by Marked List

Quick Filters

- Highly Cited Papers 9,571
- Hot Papers 294
- Review Article 59,315
- Open Access 342,292
- Associated Data 17,443

Publication Years

- 2024 1
- 2023 172
- 2022 81,677
- 2021 117,243
- 2020 103,133

See all >

Document Types

- Article 885,536
- Meeting 157,722
- Data Set 78,567
- Other 74,226

0/1,168,524 Add To Marked List Export

Sort by: Date: newest first < 1 of 2,000 >

1 Assessment of land use cover changes, carbon sequestration and carbon stock in dry temperat watershed, Gilgit-Baltistan

Avaliação das mudanças na cobertura do uso da terra, sequestro de carbono e estoque de carb...
temperadas secas da bacia hidrográfica de Chilas, Gilgit-Baltistan

Rageeb, A.; Saleem, A.; (...); Khalid, E.
2024 | Brazilian Journal of Biology 84 , pp.e253821

Abstract Land use and land cover change are affecting the global environment and ecosystems of the different biospheres...
verification (MRV) of these changes is of utmost importance as they often results in several global environmental consequ...
mass erosion, habitat deterioration as well as micro and macro climate of the regions. The advanc

Full Text from SciELO Free Full Text From Publisher

2 Rapid conversion of alkaline bauxite residue through co-pyrolysis with waste biomass and its r

Wu, Yi; Zhang, Ye; (...); Xue, SG
May 2023 | JOURNAL OF ENVIRONMENTAL SCIENCES 127 , pp.102-113

The extreme alkalinity of bauxite residue (BR) leads to difficulty with its reuse. Alkaline leachate and dust generation during the stacking process can...
pollute surrounding soil, air and water. In this work, co-pyrolysis of bauxite residue and sawdust was applied to rapidly produce a soil-like matrix that met...
the conditions for plant growth as demonstrated by ryegrass pot experiments. The prese

View full text

3 What drives the change of nitrogen and phosphorus loads in the Yellow River Basin during 2006-2017?

Zheng, JQ; Cao, XH; (...); Huo, SL
Apr 2023 | JOURNAL OF ENVIRONMENTAL SCIENCES 126 , pp.17-28

The Yellow River Basin (YRB) plays a very important role in China's economic and social development and ecological security. In particular, the ecosystem...
of the YRB is sensitive to climate change. However, the change of nutrient fluxes in this region during the past years and its main driving forces remain...
unclear. In this study, a hydrologic model R System for Spatially Referenced Regressions

Full Text at Publisher

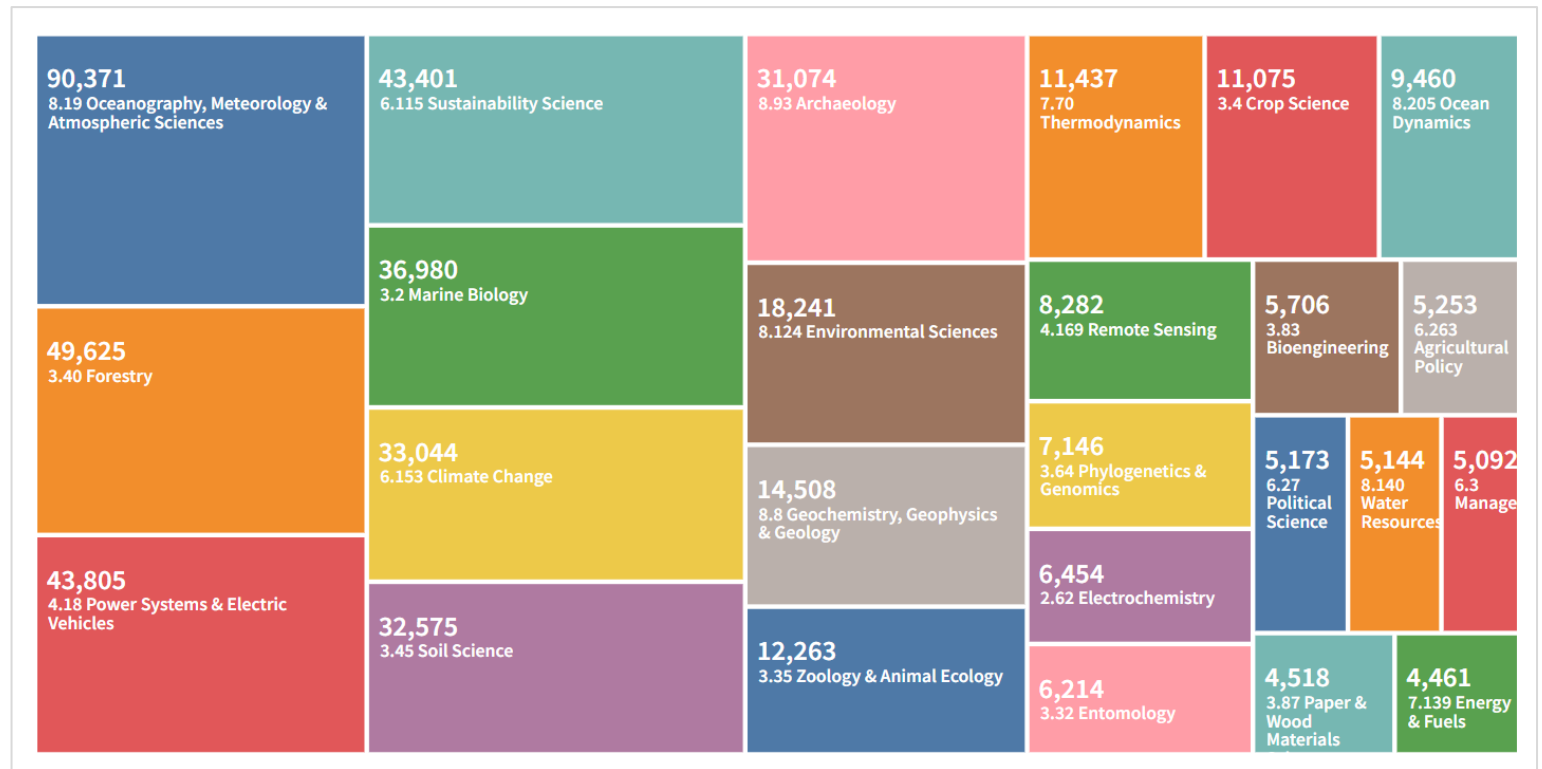
1 Citation
58 References

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Toate documentele pot fi sortate sau analizate în funcție de domeniul selectat

Filtrarea după Citation Topics

- Filtrați rezultatele căutării la un nivel mai granular.
- Alegeți din peste 300 de subiecte disponibile la nivel mezo.



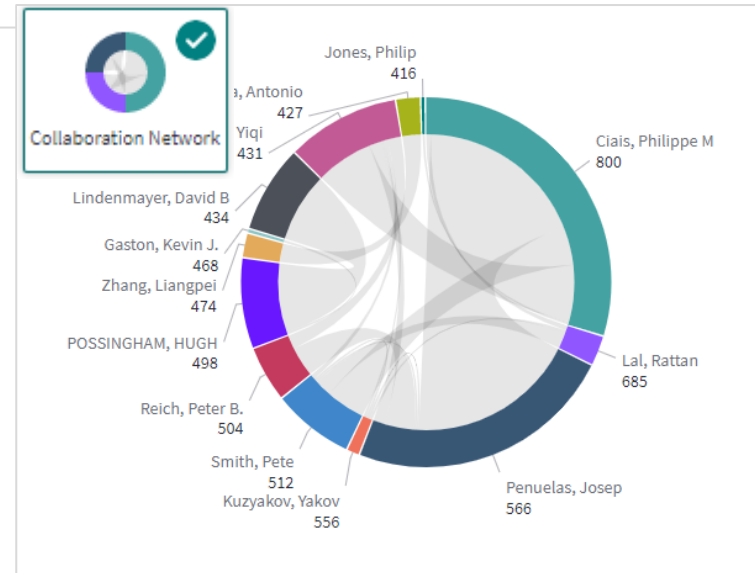
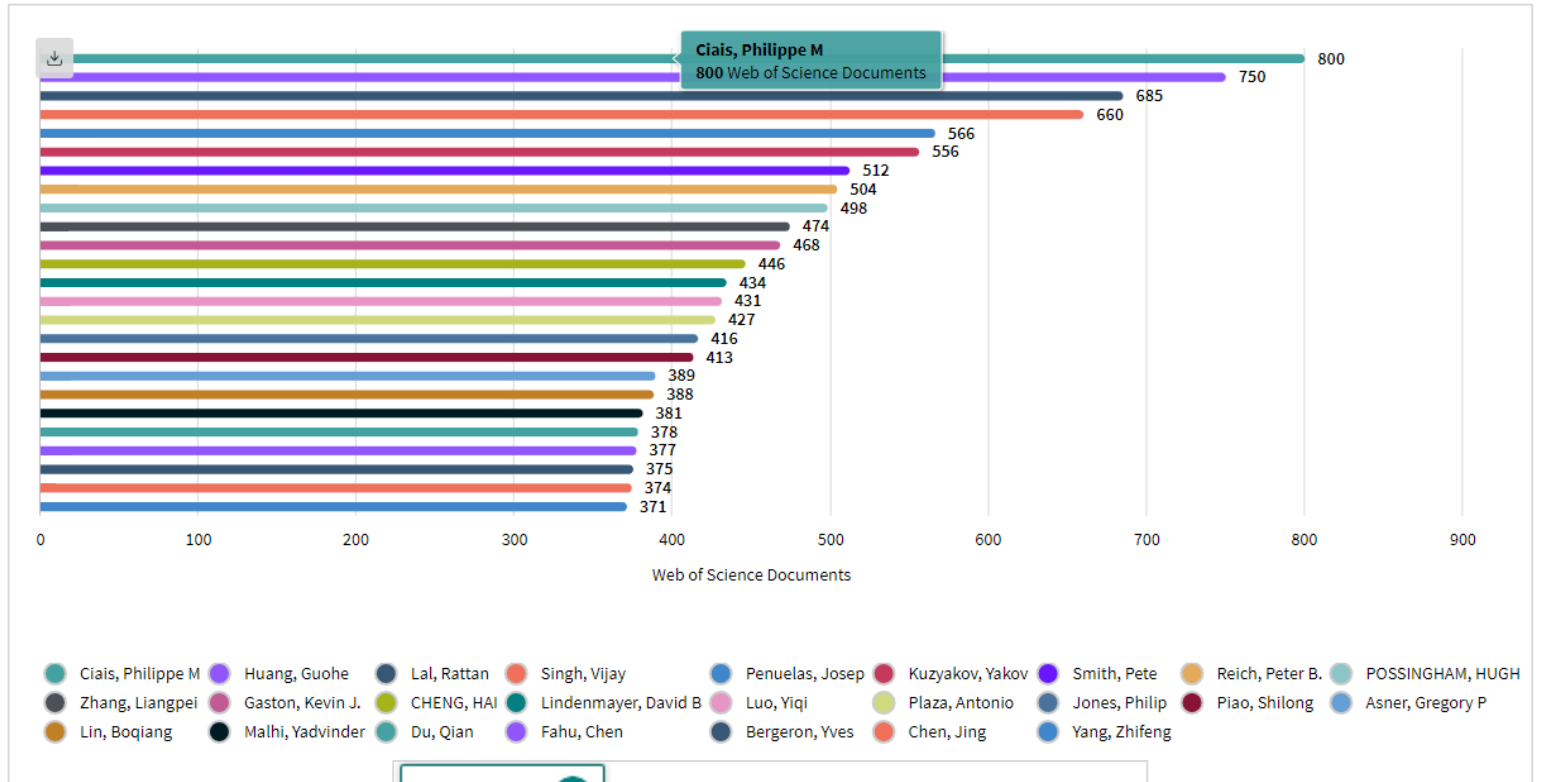
Select All	Field:	Record Count	% of 656 162
<input type="checkbox"/>	Citation Topics Meso		
<input type="checkbox"/>	8.19 Oceanography, Meteorology & Atmospheric Sciences	90,371	13.773%
<input type="checkbox"/>	3.40 Forestry	49,625	7.563%
<input type="checkbox"/>	4.18 Power Systems & Electric Vehicles	43,806	6.676%
<input checked="" type="checkbox"/>	6.115 Sustainability Science	43,398	6.614%
<input type="checkbox"/>	3.2 Marine Biology	36,979	5.636%
<input type="checkbox"/>	6.153 Climate Change	33,045	5.036%

Refining will return you to the search results

Data rows displayed in table
 All data rows (up to 100,000)

Autori

- +1,7 milioane de cercetători au contribuit la realizarea obiectivului de acțiune climatică.



Associated Data și Open Data

Data Citation Index din Web of Science oferă un punct unic de acces la date de cercetare de calitate din depozite din toate disciplinele și din întreaga lume.

The screenshot shows a search results page with the following elements:

- Search Bar:** Contains the query "(Climate and change) or 'greenhouse effect' OR 'Paleo-climate' OR paleoclimate OR (climate and warming) OR (Extreme AND weather) OR (...)" and buttons for "Analyze Results", "Citation Report", and "Create Alert".
- Refined By:** Shows "Database: Data Citation Index" with a "Clear all" button.
- Refine results:** Includes a search box for "Search within topic...", a "Filter by Marked List" section, and "Quick Filters" with a message "None of the results contain data in this field."
- Publication Years:** A list of years from 2019 to 2023 with corresponding result counts.
- Document Types:** A list of document types with counts: Data Set (78,567), Data Study (8,592), Other (2,108), Repository (7), and Article (1).
- Database:** A list of databases with counts: Data Citation Index (89,274) and CABI: CAB Abstracts® and Global Health® (1).
- Research Areas:** A list of research areas with counts: Science Technology Other Topics (37,458).
- Search Results:** A list of search results, including:
 - 1 Data from: Heritability of body size in the polar bears of Western Hudson Bay (1 Citation, 0 References)
 - 2 The Bushland, Texas, Winter Wheat Datasets
 - 3 Selected model output from n
 - 4 Towards Rational Understanding
- DRYAD Dataset View:** A detailed view of the dataset "Data from: Heritability of body size in the polar bears of Western Hudson Bay" by Malenfant, René M., Davis, Corey S., Richardson, Evan S., Lunn, Nicholas J., and Coltman, David W. It includes a "Preparing Download" dialog box and a "Data Files" section.

Căutarea literaturii de brevete asociate

Acoperirea include înregistrări de brevete din Derwent World Patents Index și informații despre citări de brevete din Derwent Patents Citation Index.

34,016 results from All Databases for:

Q (Climate and change) or "greenhouse effect" OR "Paleo-climate" OR paleoclimate OR (climate and warming) OR (Extreme AND weather) OR (g...

Analyze Results Citation Report Create Alert

Refined By: Database: Derwent Innovations Index Clear all

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None of the results contain data in this field.

Publication Years

- 2022 4,598
- 2021 3,896
- 2020 2,825
- 2019 2,539
- 2018 2,299

See all > Exclude Refine

Document Types

- Patent 34,016

Exclude Refine

Database

- Derwent Innovations Index 34,016

Exclude Refine

Research Areas

- Engineering 30,504
- Instruments Instrumentation 20,419

0/34,016 Add To Marked List

1 Device for packaging carbon dioxide with valve and pressure gauge for foundation

CN115125935-A

Inventor(s) : LIANG Z; FU Z; XIEX; GUO J; LI C; CHEN Y

Assignee(s) : UNIV HOHAI

Derwent Primary Accession Number: 2022-C6838Q

2 Alumina alloy window frame second profile and section

CN217518492-U

Inventor(s) : YANG Y

Assignee(s) : YUNNAN SANYUAN DEL

Derwent Primary Accession Number: 2022-C6938S

3 Waterproof invasion device retaining door body and po

CN115125909-A

Inventor(s) : ZHANG H; DUAN Y; (...)

Assignee(s) : UNIV YANGZHOU

Derwent Primary Accession Number: ...

Device for packaging carbon dioxide to reduce sand foundation saturation, has connecting pipeline that is provided with valve and pressure gauge so that carbon dioxide overflows from high pressure tank to saturated sand soil foundation

Patent Number: CN115125935-A

Inventors: LIANG Z; FU Z; XIEX; GUO J; LI C; CHEN Y

Patent Assignee: UNIV HOHAI(UVHO-C)

Derwent Primary Accession Number: 2022-C6838Q

Indexed: 2022-10-12

Abstract: NOVELTY - The device has a saturated sand soil base (1) that is drilled with a hole (2). The hole is internally provided with a high pressure tank (3). A periphery of the high-pressure tank is provided with pressure relief valve (4). A top portion of the top pressure tank is connected with a carbon dioxide supply device (8). A connecting pipeline (7) and a pressure gauge (6) are connected with each other, so that carbon dioxide overflows from the top of the pressure relief tank to the bottom of the saturation sand soil

Expand to show full abstract

Documentation Abstract: CN115125935/A

Images: 1 (click to view)

International Patent Classification: E02D-015/00 Handling building or like materials for hydraulic engineering or foundations INFO 6810; E02D-003/12 Consolidating by placing solidifying or pore-filling substances in the soil INFO 6800; F17C-013/04 Arrangement or mounting of valves INFO 8845; F17C-007/02 Disc

Derwent Class Code(s): Q42 (Hydraulic engineering, soil shifting and s

Patent Details:

Patent Number	Publication Date
CN115125935-A	30 Sep 2022

Application Details:

Patent Number	Local File Number
CN115125935-A	CN10646268

Priority Application information and Date:

Application #
CN10646268

Resurse suplimentare

- [ISI Report 'Navigating the Structure of Research on Sustainable Development Goals'](#)
- [ProQuest Sustainability Ebook Subscription](#)

Blogs

- [Highly Cited Researchers tackle SDG 6: Clean Water and Sanitation](#)
- [Highly Cited Papers in SDG 16: Peace, Justice and Strong Institutions](#)
- [Global collaboration for climate change prevention](#)
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Vă mulțumesc

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Solutions Consultant

adriana.filip@clarivate.com

www.clarivate.com

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