



Formación de Web of Science

Sesión D3 – Los Highly Cited Researchers
y Research Fronts (Nivel Avanzado)

Anne Delgado
06/10/2023



Sesión D3 – Los Highly Cited Researchers y Research Fronts (Nivel Avanzado)

- ¿Qué es un Research Front?
- Lo que significa ser un Highly Cited Researcher
- Clarivate y sus programas de reconocimiento a los investigadores

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¿Por qué Essential Science Indicators?

¿Su institución está produciendo investigaciones innovadoras?



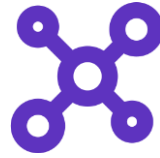
Highly Cited papers

Artículos de los últimos diez años, que hayan alcanzado el umbral superior de citación del 1% para su año de publicación designado y disciplina.



Hot Papers

Artículos de los dos últimos años, que han alcanzado el umbral superior del 0,1% de citas. Esto indica un número excepcionalmente alto de citas poco después de la publicación.



Research Fronts

Artículos altamente citados que han sido co-citados, formando la vanguardia de la investigación actual en 22 disciplinas.

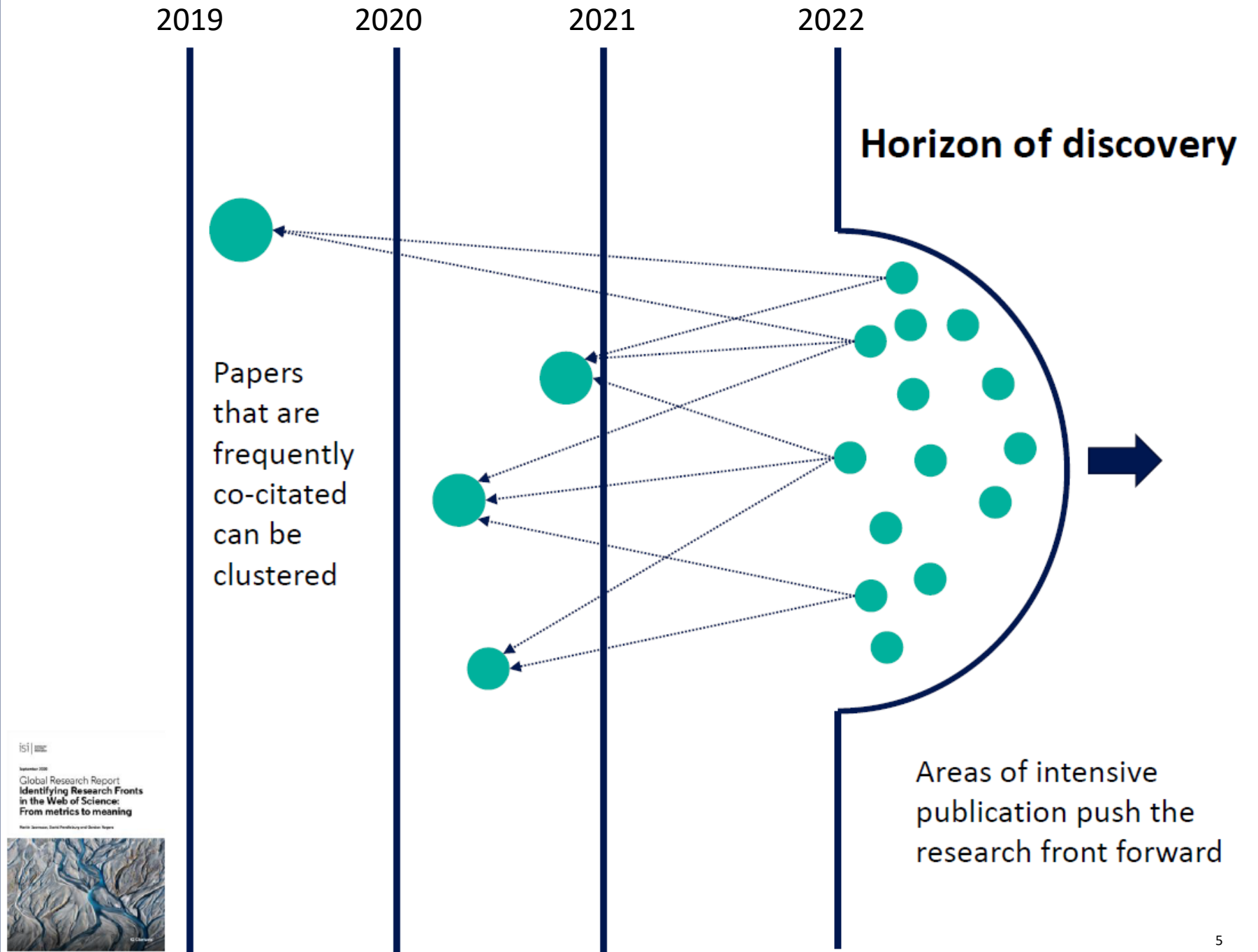
Essential Science Indicators (ESI) fue creada en 2001 para ayudarle a identificar investigación de alto impacto académico en la Colección Principal de Web of Science.

ESI analiza a más de 11.000 revistas de todo el mundo para clasificar instituciones, países y revistas en 22 amplias disciplinas basándose en el desempeño de las citas.

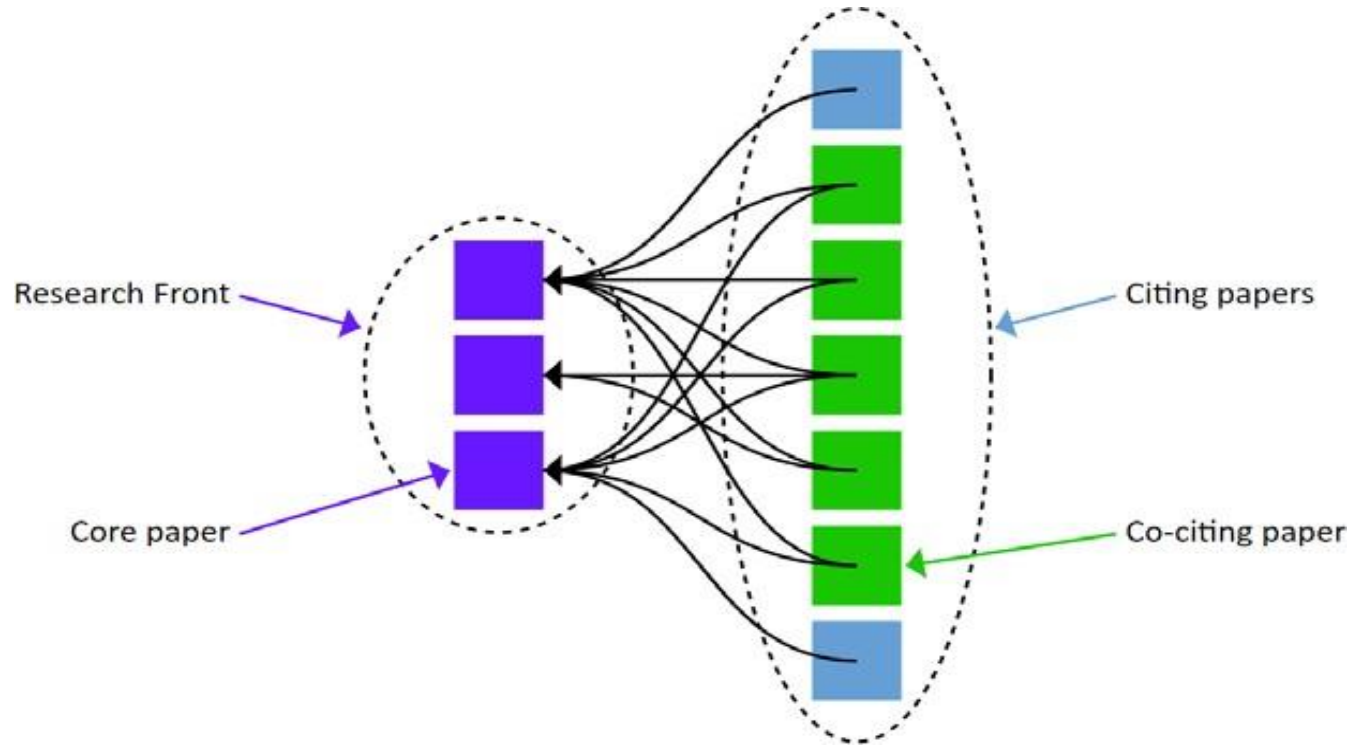
Research Fronts

At the horizon, intensive publication activity can be detected and grouped according to the previous research that was cited (aka co-citation)

The most highly cited papers serve as landmarks, allowing us to cluster related research into Research Fronts – areas of intensive publication on the leading edge of scientific discovery



What is a Research Front?



- A subset of recent literature (the current year and prior five years – 2016-2021) from Essential Science Indicators (ESI) is selected for analysis.
- With clusters of highly cited papers in place, we form a set of core papers for each Research Front and attach the set of co-citing papers, those that are more recent and at the leading edge.
- Field Classification: Research fronts are assigned to the 22 broad fields based on the field of the most frequently occurring journal in the front.

Research Fronts in Essential Science Indicators

The clusters are named using a semi-automatic process based on frequently occurring title words and phrases.

Results List: Research Fronts

Filter Results By: Immunology

Include Results For: Top Papers

Map View by Top / Hot / Highly Cited Papers

Report View by Selection

Total: 303	Research Fronts	Top Papers	Mean Year
1	SARS-COV-2 RNA DETECTION; EARLY SARS-COV-2 OUTBREAK DETECTION; WASTEWATER ANTICIPATED COVID-19 OCCURRENCE; SARS-COV-2 DETECTION; SARS-COV-2 RNA	50	2
2	RELAPSED/REFRACTORY CLASSIC HODGKIN LYMPHOMA; RELAPSED HODGKIN LYMPHOMA; REFRACTORY CLASSICAL HODGKIN LYMPHOMA (ORIENT-1); RELAPSED/REFRACTORY PRIMARY MEDIASTINAL LARGE B-CELL LYMPHOMA; ADVANCED-STAGE CLASSIC HODGKIN LYMPHOMA	45	2
3	COVID-19 VACCINE HESITANCY WORLDWIDE; COVID-19 VACCINE HESITANCY; COVID-19 VACCINE ACCEPTANCE; FUTURE COVID-19 VACCINE; ACCEPT COVID-19 VACCINE	41	2
4	SEVERE COVID-19 INFECTION; DYNAMIC COVID-19 IMMUNE SIGNATURE INCLUDES ASSOCIATIONS; COVID-19 PATIENT COVID-19 CONVALESCENT INDIVIDUALS; CROSS-REACTION SARS-COV-2 T CELL EPITOPES		
5	NATIONAL PROSPECTIVE OBSERVATIONAL SWISS COVID-19 SURVIVORS THREE MONTHS; POST-ACUTE COVID-19 SYNDROME; NONCRITICAL COVID-19 TWO MONTHS; CONVALESCENT COVID-19 PATIENTS		

Documents

Filter Results By: COVID-19 VACCINE HESITANCY WORLDWIDE; COVID-19 VACCINE HESITANCY; COVID-19 VACCINE ACCEPTANCE; FUTURE COVID-19 VACCINE; ACCEPT COVID-19 VACCINE

Include Results For: Top Papers

Sort By: Citations

Customize Documents

1 - 10 of 41

1	A GLOBAL SURVEY OF POTENTIAL ACCEPTANCE OF A COVID-19 VACCINE	Times Cited: 184
	By: LAZARUS, JV; RATZAN, SC; PALAYEW, A; et al Source: NATURE MEDICINE 27 (2): 225-+ FEB 2021 Research Fields: MOLECULAR BIOLOGY & GENETICS	ESI Hot Research Front
2	VACCINE HESITANCY: THE NEXT CHALLENGE IN THE FIGHT AGAINST COVID-19	Times Cited: 113
	By: DROR, AA; EISENBACH, N; TAIBER, S; et al Source: EUROPEAN JOURNAL OF EPIDEMIOLOGY 35 (8): 775-779 AUG 2020 Research Fields: SOCIAL SCIENCES, GENERAL	ESI Hot Research Front
3	ATTITUDES TOWARD A POTENTIAL SARS-COV-2 VACCINE A SURVEY OF US ADULTS	Times Cited: 110
	By: FISHER, KA; BLOOMSTONE, SJ; WALDER, J; et al Source: ANNALS OF INTERNAL MEDICINE 173 (12): 964-+ DEC 15 2020 Research Fields: CLINICAL MEDICINE	ESI Hot Research Front

Results List: Research Fronts

Filter Results By: Psychiatry/Psychology

Include Results For: Top Papers

Map View by Top / Hot / Highly Cited Papers

Report View by Selection

Total: 303	Research Fronts	Top Papers	Mean Year
1	COVID-19 PANDEMIC; DISGUST SENSITIVITY; PATHOGEN-AVOIDANCE PSYCHOLOGY; PANDEMICS; ROLE		
1	COVID-19-INDUCED THREATS; DEFEAT COVID-19; COPING; LEADERSHIP; SELF		
1	COVID-19 PANDEMIC-HEALTHCARE WORKERS; COVID-19 PANDEMIC; CROSS-SECTIONAL SURVEY; ADULT POPULATION; SELF-MEDICATION PRACTICES		
1	COVID-19 PANDEMIC; MUSIC LISTENING; COVID-19; MUSIC; SPANISH POPULATION SURVEY		

More resources

- [Research Fronts 2022 highlights hot and emerging fields, including vaccine hesitancy, ‘mega-fires’ and asteroids](#)
- [Find the report “Research Fronts 2022” here](#)

Identifying Research Fronts in the Web of Science: From Metrics to Meaning

Discover hot and emerging research areas to shape your institution's strategic direction

Research evaluators and policymakers frequently use quantitative measures based on publication and citation data as a complement to expert peer review to inform assessment and strategic decision-making. While ranks and scores have their uses, they are limited in revealing many aspects of research activity and different dimensions of contributions.

Thanks to advances in the handling and visualization of very large datasets, it is possible to see – and visit – the leading edge of scientific and scholarly research through science mapping and data visualization. This includes locating individuals, institutions, funders, and journals within this landscape and evaluating organizational participation in different areas, as well as changes over time.

Due to the volume of research published worldwide, and complexity of organizational and researcher networks, it can be challenging to identify early breakthroughs and understand the extent to which your organization is participating in the leading edge of science. In this report, we explore how you can easily track emerging research areas to help shape your institution’s strategic direction. Stay ahead of the curve by using Research Front data derived from the Web of Science™ to inform and improve your research assessment.



Sesión D3 – Los Highly Cited Researchers y Research Fronts (Nivel Avanzado)

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Highly Cited Researchers 2022

November 15, 2022

Highly Cited Researchers 2022: Using deeper qualitative analysis to help spot research misconduct



DAVID PENDLEBURY

Head of Research Analysis at the Institute for Scientific Information
Clarivate

Share this article



Today we reveal our annual list of Highly Cited Researchers. This year we recognize 6,938 scientists and social scientists who demonstrate significant and broad influence among their peers in their chosen field or fields of research.

The exceptional individuals designated [Highly Cited Researchers 2022](#) have published multiple highly cited papers, ranking in the top 1% by citations for field and year over the last decade. Of all the world's researchers, they are one in 1,000.

What it means to be a Highly Cited Researcher

Highly Cited Researchers

2022 Recipients Researcher stories Analysis Methodology Past lists FAQs

Highly Cited Researchers have demonstrated significant and broad influence reflected in their publication of multiple highly cited papers over the last decade.

These highly cited papers rank in the top 1% by citations for a field or fields and publication year in the [Web of Science™](#).

Of the world's population of scientists and social scientists, Highly Cited Researchers™ are 1 in 1,000.

6,938

 Highly Cited Researchers in 2022

2022 Analysis

Experts from the Institute for Scientific Information™ provide exclusive insight into the list of Highly Cited Researchers 2022, including regional, institutional and field of study breakdowns and much more.

[Read analysis of this year's list.](#)

<https://clarivate.com/highly-cited-researchers/>

Award category Institution Region

Search by name [Submit](#)

What it means to be a Highly Cited Researcher

Methodology

<https://clarivate.com/highly-cited-researchers/methodology/#methodology>

Please read the full methodology with care to understand both the meaning and the inevitable limitations of our analytical approach.

Total of Highly Cited Papers over the past 10 years

Overview

Context = 21 fields from Essential Science Indicators

Highly Cited Researchers™ from Clarivate™ is an annual list recognizing influential researchers in the sciences and social sciences from around the world.

The 2022 list contains about 4,000 Highly Cited Researchers in 21 fields of the sciences and social sciences and about 3,200 Highly Cited Researchers identified as having exceptional performance across several fields. The list focuses on contemporary research achievement: only highly cited papers in the sciences and social sciences journals indexed in the [Web of Science Core Collection™](#) during the 11-year period 2011 to 2021 were surveyed. Highly cited papers are defined as those that rank in the top 1% by citations for field and publication year.

The data derived from [Essential Science Indicators™ \(ESI\)](#), a component of [InCites™](#). The fields are also those employed in ESI – 21 broad fields defined by sets of journals and exceptionally, in the case of multidisciplinary journals such as

The ESI fields vary greatly in size, with Clinical Medicine being the largest and Economics and Business being the smallest in terms of researchers. The square root of the number of authors in each field indicated how many individuals should be selected.

Authors with the greatest number of highly cited papers in an ESI field at the threshold for inclusion and above are putative selectees. However, another criterion for selection is that the researcher must have enough citations to their highly cited papers to rank among all authors in the top 1% by total citations in the ESI field in which that person is considered. All who published highly cited papers at the threshold level and with citations in the field at the level of top 1% are admitted to the list, even if the final list then exceeds the number given by the square root calculation.

In addition, and as concession to the somewhat arbitrary cut-off, any researcher with one fewer highly cited paper than the threshold number is also admitted to

¿Que es un Autor altamente citado?

- Es un autor de artículos altamente citados, listado en la lista que publicamos cada año en Noviembre, desde 2002.
- Los artículos altamente citados son artículos o revisiones ubicados en el top 1% más citado en su categoría y año de publicación.
- Se establece la lista según 21 categorías (Essential Science Indicators) y desde 2018 se introdujo también la categoría “Cross Field”.
- En cada disciplina existe un número mínimo de artículos altamente citados a obtener. Es en Clinical Medicine donde se requieren más y en Economía y Business menos.

- Por defecto se descartan todos los artículos con más de 30 autores.
- Artículos retractados o pruebas de mala conducta pueden eliminar un autor de la lista.
- Nivel de autocitas más alto que lo normal.
- Nivel de citas recibidas provienen por un 50% o más de co-autores.

Highly Cited Researchers 2022

Highly Cited Researchers 2022 Recipients [Researcher stories](#) [Analysis](#) [Methodology](#) [Past lists](#) [FAQs](#)

Award category Institution **Spain**

Search by name [Submit](#)

[1](#) [2](#) [3](#) [4](#) ... [11](#) >

	FULL NAME	CATEGORY	PRIMARY AFFILIATION	SECONDARY AFFILIATIONS	
JA	Alonso, Jordi	Cross-Field	Pompeu Fabra University, Spain	Institut Hospital del Mar d'Investigacions Mediques (IMIM), Spain	View Profile
PA	Alonso-Coello, Pablo	Social Sciences	Sant Pau Institute for Biomedical Research (IIB Sant Pau), Spain	CIBERESP, Spain	View Profile
CA	Andres-Lacueva, Cristina	Cross-Field	University of Barcelona, Spain	CIBERFES, Spain	View Profile
CA	Arango, Celso	Psychiatry and Psychology	General University Gregorio Marañon Hospital, Spain	CIBERSAM - Centro de Investigación en Red de Salud Mental, Spain	View Profile
MA	Araújo, Miguel Bastos	Environment and Ecology	Consejo Superior de Investigaciones Cientificas (CSIC), Spain	University of Evora, Portugal	View Profile
JA	Araus, Jose Luis	Cross-Field	University of Barcelona, Spain		View Profile

Highly Cited Researchers 2022

Clarivate adds automatically the
awards in each researcher profile
in the Web of Science

Homero Gil de Zúñiga ✓
(de Zuniga, Homero Gil)
Highly cited
University of Salamanca

Web of Science ResearcherID: B-1651-2009

Published names ⓘ De Zuniga, Homero Gil Gil De Zuniga, Homero De Ziga, Homero Gil

Published Organizations ⓘ Universidad de la Laguna, University of Salamanca, Pennsylvania State University, University Diego Portales, Univ Diego Portales, Diego Portales Univ, Univ Salamanca DRU, Diego Port Univ, University of Vienna, Harvard University, Princeton University, Univ Viena, University of Texas Austin, European University of Madrid, University of Wisconsin Madison
[Show less](#)

Subject Categories BETA Communication; Government & Law; Psychology; Information Science & Library Science; Social Sciences - Other Topics

Awards

- Highly Cited Researcher in the field of Social Sciences - 2022
- Highly Cited Researcher in the field of Cross-Field - 2020

Other Identifiers ⓘ <https://orcid.org/0000-0002-4187-3604>

The news & Clarivate statement

SIRIS | ACADEMIC

[Our Expertise](#)

[Our Approach](#)

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Clarivate statement on Highly Cited Researcher affiliations

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[Company Statement](#)

Clarification of how we identify and publish primary researcher affiliations in the Highly Cited Researchers program

David Pendlebury – Head of Research Analysis, Institute for Scientific Information

REPORT

Full International Edition (2014–22): The affiliation game of Saudi Arabian higher education & research institutions

Analysing development of affiliation practices in the Highly Cited Researchers™ list from Clarivate™ between 2014-2022

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Researcher Recognition

<https://clarivate.com/webofsciencegroup/researcher-recognition/>

Highly Cited Researchers

Of the world's scientists and social scientists, Highly Cited Researchers truly are one in 1,000. These pioneers in their fields represent the most influential researchers who have published multiple papers frequently cited by their peers that rank in the top 1% of citations for field and year in the Web of Science.

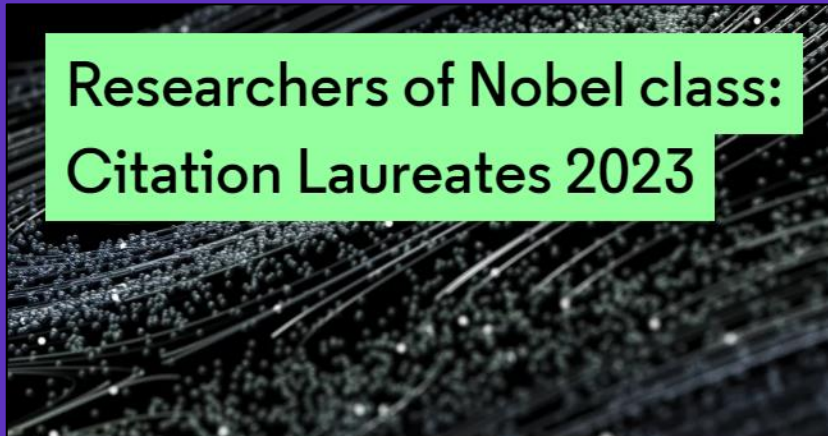
[Visit Highly Cited Researchers 2022](#)

**“If I have seen further,
it is by standing upon
the shoulders of
giants.”***


See, share and celebrate the giants of research.

[View the Citation Laureates 2023](#)

Citation Laureates explained



**Researchers of Nobel class:
Citation Laureates 2023**



DAVID PENDLEBURY
Head of Research Analysis at the Institute for Scientific Information
Clarivate

SEPTEMBER 19, 2023

Citation Laureates 2023

Hall of Citation Laureates

See the past laureates.

Determining a Nobel level of influence

Since 2002, Clarivate has named Citation Laureates in the areas recognized by the Nobel Prize: Physiology or Medicine, Physics, Chemistry and Economics. These researchers have laid the foundations for their fields, often pioneering whole new areas of science and paving the way for those who have come after them. Citation Laureates also exhibit exceptional levels of citation among their peers and have often produced multiple highly cited papers.

However, a high level of citation is only a prerequisite for selection on this prestigious list. While we say that citations at high frequency reflect contributions that have been influential in some way, we also maintain that citation data should be combined with qualitative information and human judgement. In order to do this, we analyze:

- **Discovery:** whether the authors of the highly cited papers were the primary discoverers within their research topic
- **Awards:** whether the researchers have received international or national awards for this research
- **Nobel 'taste':** whether the identified achievements 'make sense' alongside past choices
- **Timing:** whether the topics would likely receive attention or if they are 'too similar' to recent Nobel prizes or 'too soon' (Nobel recognition typically comes 20 years or more after a published discovery or contribution)

Successful Nobel Predictions

Since the inception of the Citation Laureates in 2002, our analysts have identified 71 eminent scientists and economists who went on to receive the Nobel Prize.

Jennifer A. Doudna Facts



Jennifer A. Doudna
The Nobel Prize in Chemistry 2020

Born: 19 February 1964, Washington, DC, USA

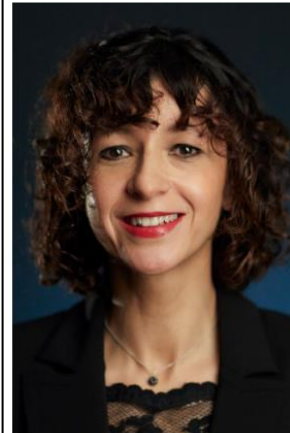
Affiliation at the time of the award: University of California, Berkeley, CA, USA

Prize motivation: "for the development of a method for genome editing."

Prize share: 1/2

© Nobel Prize Outreach. Photo:
Brittany Hosea-Small

Emmanuelle Charpentier Facts



Emmanuelle Charpentier
The Nobel Prize in Chemistry 2020

Born: 11 December 1968, Juvisy-sur-Orge, France

Affiliation at the time of the award: Max Planck Unit for the Science of Pathogens, Berlin, Germany

Prize motivation: "for the development of a method for genome editing."

Prize share: 1/2

© Nobel Prize Outreach. Photo:
Bernhard Ludewig

Prize motivation: "for the development of a method for genome editing."
The CRISPR/Cas9 gene scissors can lead to new scientific discoveries, better crops and new weapons in the fight against cancer and genetic diseases.

A Programmable Dual-RNA-Guided DNA
Endonuclease in Adaptive Bacterial
Immunity (Science, 2012)

Concluding the training

Programa

Sesiones de 1h30min = 60 min de formación teórica y práctica + 30 min para resolver las dudas

Curso articulado en 4 módulos – 15 sesiones – que abarcarán diferentes plataformas:

- Web of Science
- Journal Citation Reports
- Essential Science Indicators
- EndNote Click
- EndNote Online
- Master Journal List

15 SESIONES DE FORMACIÓN	Día	Hora
Módulo A - Explorar la investigación sobre un tema con Web of Science		
Sesión A1 – Empezar a trabajar con Web of Science (Nivel Elemental)	18/09/2023	11:00-12:30
Sesión A2 – Crear búsquedas complejas y encontrar textos completos (Nivel Intermedio)	19/09/2023	14:00-15:30
Sesión A3 – Guardar y exportar mi trabajo (Nivel Elemental)	20/09/2023	11:00-12:30
Sesión A4 – Estrategias para encontrar más información (Nivel Intermedio)	21/09/2023	11:00-12:30
Sesión A5 – Descubrir bibliografía relevante con la red de citas (Nivel Avanzado)	22/09/2023	11:00-12:30
Módulo B - Elegir una buena revista para publicar mi investigación		
Sesión B1 – Gestionar mi bibliografía con EndNote Online (Nivel Elemental)	25/09/2023	11:00-12:30
Sesión B2 – Las revistas de la Colección Principal de Web of Science (Nivel Intermedio)	26/09/2023	11:00-12:30
Sesión B3 – Los fundamentos de Journal Citation Reports (Nivel Elemental)	27/09/2023	11:00-12:30
Sesión B4 – Utilizar todos los recursos de Journal Citation Reports (Nivel Avanzado)	28/09/2023	11:00-12:30
Módulo C - Crear mi perfil de investigador/a en Web of Science		
Sesión C1 – Buscar las publicaciones de un/a autor/a (Nivel Elemental)	29/09/2023	11:00-12:30
Sesión C2 – Buscar y leer el perfil de un/a investigador/a (Nivel Intermedio)	02/10/2023	11:00-12:30
Sesión C3 – Crear y editar mi perfil de investigador/a (Nivel Avanzado)	03/10/2023	11:00-12:30
Módulo D - Estudiar el impacto académico de las publicaciones		
Sesión D1 – Buscar y analizar las publicaciones de una institución (Nivel Avanzado)	04/10/2023	11:00-12:30
Sesión D2 – Los artículos más citados en Essential Science Indicators (Nivel Intermedio)	05/10/2023	11:00-12:30
Sesión D3 – Los Highly Cited Researchers y Research Fronts (Nivel Avanzado)	06/10/2023	11:00-12:30

Streamline the research workflow

Solutions to enhance researching, writing, and publishing reviews



Web of Science

- Search a trusted, high quality, multidisciplinary citation index



Journal Citation Reports

- Evaluate peer-reviewed titles



Essential Science Indicators

- Identify influential papers in your field



EndNote

- Collect, organize, and cite references with ease



EndNote Click

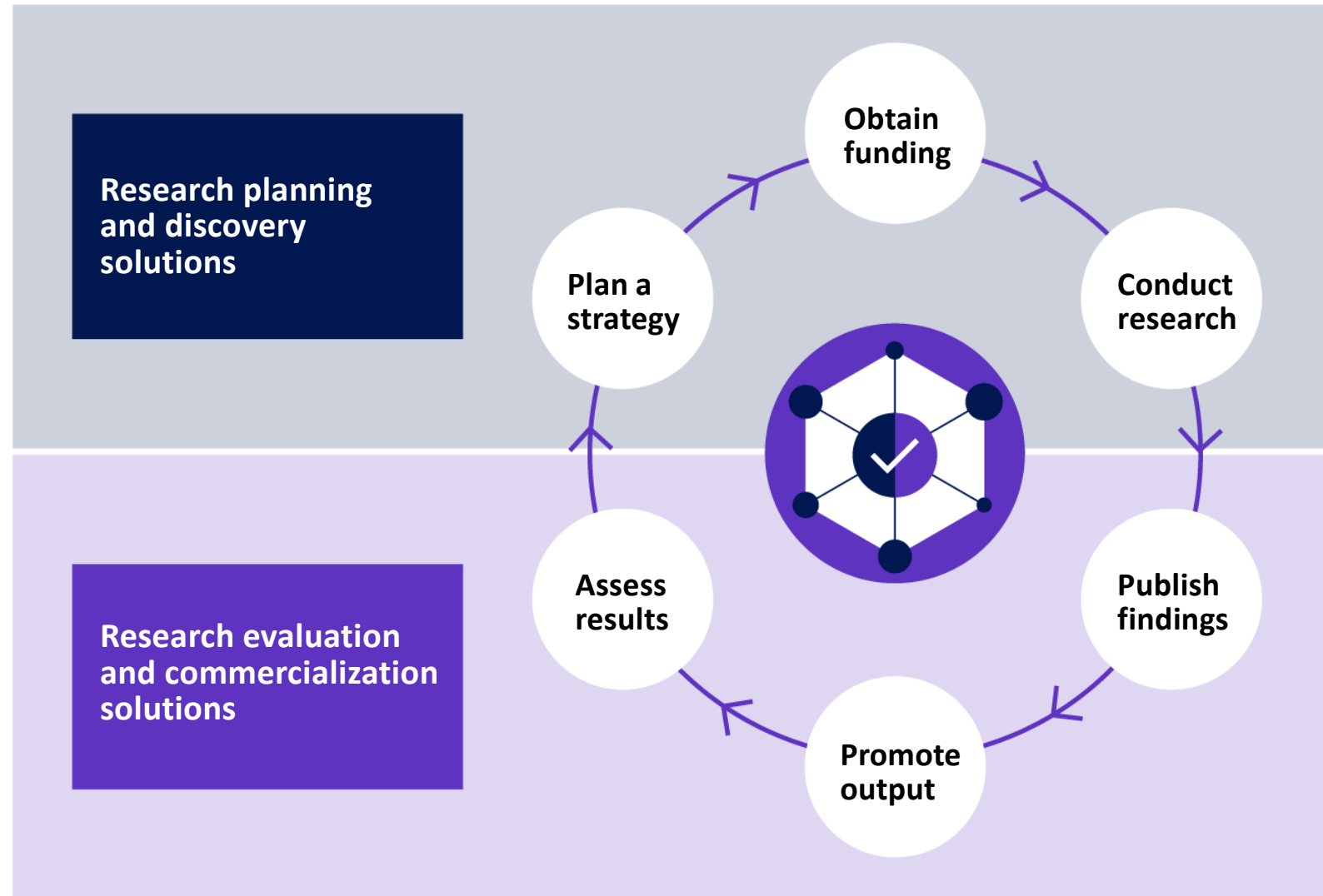
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Herramientas gratuitas

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Para cualquier pregunta relacionada con el funcionamiento de las herramientas, por favor contacte con los servicios de su biblioteca o bien con WoSG.support@clarivate.com



Para cualquier pregunta relacionada con la formación o el acceso a las herramientas, por favor contacte con recursoscientificos@fecyt.es

