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Sesión D2 – Los artículos más citados en Essential Science Indicators

Anne Delgado

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Sesión D2 – Los artículos más citados en Essential Science Indicators

- El alcance y la cobertura de Essential Science Indicators (ESI)
- Entender las métricas de desempeño
- ¿Qué son un Highly Cited Paper y un Hot Paper?
- Utilizar Essential Science Indicators
- ¿Qué es un Research Front?
- ¿Qué significa ser un Highly Cited Researcher?
- Nuestro programa de reconocimiento a los investigadores

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¿Por qué el Essential Science Indicators (ESI)?

From Sputnik to the World Wide Web A Retrospective View of Citation Indexing

by

Eugene Garfield

Chairman Emeritus, ISI^a

Publisher, *The Scientist*^a

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at

ACRL Science & Technology Program Titled

Quantum Leaps by Decade: Future "Caching" the Past - Forty Years of Creating New Communities for Science Librarianship Through Collaboration

ALA Annual Meeting, San Francisco

June 18, 2001

summary. From the impact of the ISI's citation indexing system, it is clear that the ISI's citation indexing system is the most important tool in the field of these data. And there is great pressure on ISI to modify its method of calculating impact to better reflect long-term vs. short-term impact.²³ This is reflected in their new *Essential Science Indicators*.²⁴

ESI was developed by ISI to provide an alternative methodology to the Impact Factor to measure long term impact versus short term

Essential Science Indicators (ESI) es una herramienta analítica que ayuda a identificar la investigación de alto desempeño en la Web of Science Colección Principal. ESI cubre más de 11.000 revistas de todo el mundo para clasificar autores, instituciones, países y revistas en 22 disciplinas generales, basándose en el desempeño de las citas.

Los datos de ESI

Agricultural Sciences
Biology & Biochemistry
Chemistry
Clinical Medicine
Computer Science
Ecology/Environment
Economics & Business
Engineering
Geosciences
Immunology
Material Sciences
Mathematics
Microbiology
Molecular Biology & Genetics
Multidisciplinary ★
Neuroscience & Behavior
Pharmacology & Toxicology
Physics
Plant & Animal Science
Psychology/Psychiatry
Social Sciences, general
Space Science



- **Fuentes de datos:** Los índices Science Citation Index-Expanded (SCIE) y Social Sciences Citation Index (SSCI) de la Web of Science Colección Principal.
- **Tipos de documentos:** ESI analiza artículos y revisiones de revistas en SCIE y SSCI para determinar el rendimiento una publicación, una organización, etc.
- **Cobertura de años:** Los datos ESI consisten en un archivo dinámico de 10 años, que aumenta con cada actualización bimensual.
- **Áreas de investigación:** ESI utiliza 22 disciplinas generales para clasificar entidades e identificar documentos de alto rendimiento. Cada revista se asigna a una sola disciplina, y la investigación publicada en esa revista tendrá esta misma asignación (En el caso de revistas multidisciplinarias, la reclasificación se realiza al nivel de documento, basándose en un análisis de las referencias citadas. Esto significa que los artículos publicados en revistas como *Science* y *Nature* podrían pertenecer a disciplinas más específicas que Multidisciplinary)
- **Recuentos de citas :** Sólo las citas de revistas indexadas en los índices SCIE, SSCI y AHCI se tienen en cuenta para el análisis de ESI.

Recomendación – Registrarse en JCR/ESI con las mismas credenciales

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Hungarian Higher Education and Research Interface

INFED (Indian Federation)

Incommon Federation

Irish Higher Education & Research (Edugate)

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ACCESO A METADATOS

INFORMACIÓN PARA INVESTIGADORES

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ENLACE DE ACCESO DIRECTO A LAS B...

RECOMENDACIONES

FECYT proporciona los enlaces de acceso directo a las distintas bases de datos para todas aquellas instituciones de estos enlaces en los portales de sus bibliotecas:

- > Acceso directo a Scopus: <https://scopus.com>
- > Acceso directo a cada una de las bases de datos de Web of Science: www.fecyt.es/wos
- > ISI Essential Science Indicators: [esi.fecyt.es](https://www.fecyt.es/esi)
- > ISI Journal Citation Reports: [jcr.fecyt.es](https://www.fecyt.es/jcr)
- > ISI Web of Science: [woscc.fecyt.es](https://www.fecyt.es/woscc)

Science Citation Index™ Expanded (SCI-EXPANDED): [wos-sci.fecyt.es](https://www.fecyt.es/wos-sci)

Social Sciences Citation Index® (SSCI): [wos-ssci.fecyt.es](https://www.fecyt.es/wos-ssci)

Nuevo enlaces

Sesión D2 – Los artículos más citados en Essential Science Indicators

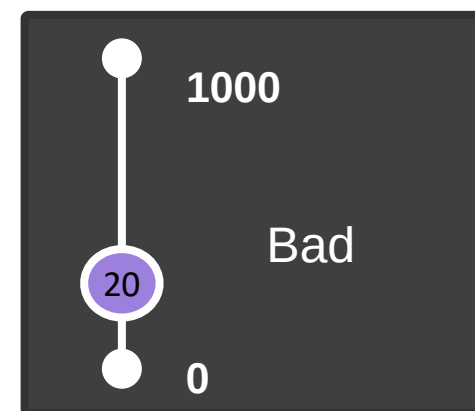
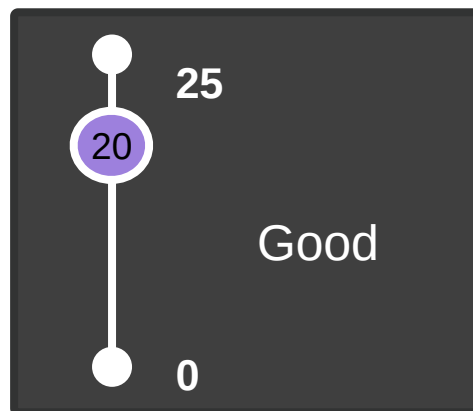
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Context is everything

El total de citas de esta publicación es alto o es bajo?



good or bad?



Depende del contexto (área de investigación, año de publicación...)

Las referencias

Las tasas de citas por año y disciplina, permiten la comparación del número de citas para artículos específicos publicados el mismo año e indexados en la misma disciplina

Field Baselines

Baselines are annualized expected citation rates for papers in a research field.

Citation Rates are yearly averages of citations per paper.

Citation Rates	RESEARCH FIELDS ▲	2009	2010	2011	2012	2013	2014	2015	2016
	ALL FIELDS	23.98	22.30	19.75	17.43	14.98	12.57	9.81	6.72
Percentiles	AGRICULTURAL SCIENCES	17.21	16.22	14.29	12.66	11.03	9.37	7.33	5.07
	BIOLOGY & BIOCHEMISTRY	34.10	30.48	26.45	23.37	19.59	16.00	11.99	8.12
Field Rankings	CHEMISTRY	25.32	24.27	22.59	21.00	18.03	15.86	12.76	8.91
	CLINICAL MEDICINE	25.43	23.10	20.34	17.87	15.22	12.60	9.86	6.60
	COMPUTER SCIENCE	12.90	12.11	11.86	9.69	8.92	7.94	6.60	4.64
	ECONOMICS & BUSINESS	18.38	16.61	14.29	11.64	9.79	7.72	5.61	3.56
	ENGINEERING	15.19	14.40	13.10	11.63	10.59	9.15	7.51	5.49
	ENVIRONMENT/E COLOGY	28.48	26.62	23.04	20.47	16.93	13.77	10.58	7.05
	GEOSCIENCES	26.50	23.59	21.64	18.50	15.79	12.68	9.74	6.45
	IMMUNOLOGY	37.94	34.09	29.77	24.95	22.01	18.13	13.57	9.33
	MATERIALS SCIENCE	24.51	25.62	23.14	21.45	18.82	16.92	13.57	9.81

Las referencias por:

- Disciplina
- Año de publicación

Los umbrales de citas en ESI

La inclusión en ESI depende de que se cumplan ciertos umbrales de citas. Sólo las personas, instituciones, revistas, países y documentos más citados están incluidos en ESI. Este gráfico muestra los umbrales de cita que se deben cumplir para aparecer en ESI.

Entity	Percentile	Data Years
Researchers	1%	10
Institutions	1%	10
Countries	50%	10
Journals	50%	10
Highly Cited Papers	1%	10
Hot Papers	0.1%	2

Cómo leer esta tabla: Esta tabla muestra el umbral de desempeño que la investigación de una entidad debe cumplir para que pueda calificarse como altamente citada en un campo. Los años de datos se refieren a los años examinados - 10 significa que se considera el archivo de datos ESI completo. Los percentiles se invierten, por lo que 1% significa que el rendimiento de una entidad está en el Top 1% en comparación con sus pares.

Los umbrales de citas para los autores, instituciones, revistas y países

ESI Thresholds	RESEARCH FIELDS ▲	AUTHOR	INSTITUTION	JOURNAL	COUNTRY
	AGRICULTURAL SCIENCES	528	2,495	1,347	1,472
Highly Cited Thresholds	BIOLOGY & BIOCHEMISTRY	1,054	6,823	305	1,228
	CHEMISTRY	2,148	8,502	1,434	2,297
	CLINICAL MEDICINE	2,419	3,380	2,905	16,012
Hot Paper Thresholds	COMPUTER SCIENCE	465	3,906	1,590	525
	ECONOMICS & BUSINESS	463	4,891	1,429	321
	ENGINEERING	745	2,843	3,026	1,863
	ENVIRONMENT/ECOLOGY	930	4,544	2,214	2,940
	GEOSCIENCES	1,386	6,695	2,390	1,765
	IMMUNOLOGY	1,034	5,419	432	2,800
	MATERIALS SCIENCE	1,989	6,965	3,326	1,557
	MATHEMATICS	372	4,888	850	494
	MICROBIOLOGY	762	5,774	324	1,585
	MOLECULAR BIOLOGY & GENETICS	2,784	14,681	350	2,566
	MULTIDISCIPLINARY	556	2,903	34	219
	NEUROSCIENCE & BEHAVIOR	1,412	6,795	1,420	904
	PHARMACOLOGY & TOXICOLOGY	610	3,666	5,026	1,229
	PHYSICS	13,581	21,325	1,999	3,573
	PLANT & ANIMAL SCIENCE	711	3,051	2,053	2,192
	PSYCHIATRY/PSYCHOLOGY	850	4,398	1,781	469
	SOCIAL SCIENCES, GENERAL	438	1,610	1,056	1,741
	SPACE SCIENCE	6,338	41,738	1,670	951

Los umbrales de citas ESI revelan el número mínimo de citas recibidas por el Top 1% de autores e instituciones y el Top 50% de países y revistas en un período de 10 años.

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Entity	Percentile	Data Years
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Algunos ejemplos de reconocimiento

- Los **Highly Cited Papers** son documentos que han recibido suficientes citas para colocarlos en el Top 1% en comparación con todos los demás artículos publicados en el mismo año y en la misma disciplina. Por ejemplo, los documentos de Física de 2008 sólo se comparan con otros documentos de Física de 2008 para determinar si han sido citados lo suficiente como para clasificarse en el Top 1%.
- Para los **Hot Papers**, sólo se consideran los artículos publicados en los últimos 2 años. Los Hot Papers está recibiendo citas rápidamente después de su publicación. Estos documentos han sido citados suficientes veces en el período bimensual más reciente para colocarlos en el Top 0,1% superior en comparación con documentos equivalentes. Los documentos equivalentes son documentos que se agregaron a la Web of Science Colección Principal durante la misma actualización bimensual y que pertenecen a la misma disciplina.

2017 ESC Guidelines for the management of acute myocardial infarction in patients presenting with ST-segment elevation The Task Force for the management of acute myocardial infarction in patients presenting with ST-segment elevation of the European Society of Cardiology (ESC)

Por: Ibanez, B (Ibanez, Borja)^[1,2,3]; James, S (James, Stefan)^[4,5,6]; Agewall, S (Agewall, Stefan); Antunes, MJ (Antunes, Manuel J.); Bucciarelli-Ducci, C (Bucciarelli-Ducci, Chiara); Bueno, H (Bueno, Hector); Caforio, ALP (Caforio, Alida L. P.); Crea, F (Crea, Filippo); Goudevenos, JA (Goudevenos, John A.); Halvorsen, S (Halvorsen, Sigrun)...Más

Autoría conjunta: European Soc Cardiology

[Ver número de ResearcherID y ORCID de Web of Science](#)

EUROPEAN HEART JOURNAL

Volumen: 39 Número: 2 Páginas: 119-177

DOI: 10.1093/eurheartj/ehx393

Fecha de publicación: JAN 7 2018

Tipo de documento: Article

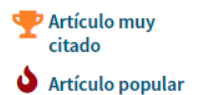
[Ver impacto de la revista](#)

Red de citas

En Colección principal de Web of Science

1.167

Veces citado



 [Crear alerta de cita](#)

Número de todas las veces citado

[1,195 en Todas las bases de datos](#)

[Ver más recuentos](#)

¿Qué es un Highly Cited Paper o un Hot Paper?

2017 ESC Guidelines for the management of acute myocardial infarction in patients presenting with ST-segment elevation The Task Force for the management of acute myocardial infarction in patients presenting with ST-segment elevation of the European Society of Cardiology (ESC)

Por: Ibanez, B (Ibanez, Borja)^[1,2,3]; James, S (James, Stefan)^[4,5,6]; Agewall, S (Agewall, Stefan); Antunes, MJ (Antunes, Manuel J.); Bucciarelli-Ducci, C (Bucciarelli-Ducci, Chiara); Bueno, H (Bueno, Hector); Caforio, ALP (Caforio, Alida L. P.); Crea, F (Crea, Filippo); Goudevenos, JA (Goudevenos, John A.); Halvorsen, S (Halvorsen, Sigrun)...Más

Autoría conjunta: European Soc Cardiology

Ver número de ResearcherID y ORCID de Web of Science

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Ver impacto de la revista

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En Colección principal de Web of Science

1.167

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Número de todas las veces citado

Artículo muy citado

Artículo popular

Desde Julio/Agosto de 2019, este **artículo muy citado** recibió suficientes citas para incluirse en el 1% de los mejores artículos del campo académico de Clinical Medicine en función de un umbral de artículos muy citados para el campo y el año de publicación.

Datos de *Essential Science Indicators*

Cerrar ventana

Este **artículo popular** se publicó en los últimos dos años y recibió suficientes citas en Julio/Agosto de 2019 para incluirse en el 0,1% de los mejores artículos del campo académico de Clinical Medicine.

Datos de *Essential Science Indicators*

Cerrar ventana

Los umbrales de citas para los Highly Cited Papers

ESI Thresholds	RESEARCH FIELDS ▲	2009	2010	2011	2012	2013	2014	2015	2016	2017
Highly Cited Thresholds	AGRICULTURAL SCIENCES	136	141	114	101	90	76	64	49	
	BIOLOGY & BIOCHEMISTRY	279	255	217	197	170	140	112	83	
Hot Paper Thresholds	CHEMISTRY	228	222	220	198	172	154	130	96	
	CLINICAL MEDICINE	228	211	183	161	140	118	101	76	
	COMPUTER SCIENCE	134	129	121	101	101	94	75	63	
	ECONOMICS & BUSINESS	193	187	154	126	101	84	63	45	
	ENGINEERING	144	136	121	106	96	85	74	59	
	ENVIRONMENT/ECOLOGY	260	238	206	185	152	129	102	72	
	GEOSCIENCES	221	188	177	158	137	109	86	63	
	IMMUNOLOGY	343	302	257	222	203	180	134	99	
	MATERIALS SCIENCE	265	282	245	237	206	188	153	122	
	MATHEMATICS	83	81	67	57	47	40	35	27	
	MICROBIOLOGY	247	230	184	180	154	127	100	89	
	MOLECULAR BIOLOGY & GENETICS	501	454	408	339	283	235	178	131	
	MULTIDISCIPLINARY	493	555	431	296	325	185	193	141	
	NEUROSCIENCE & BEHAVIOR	298	276	226	201	169	140	108	82	
	PHARMACOLOGY & TOXICOLOGY	202	182	154	138	121	101	80	60	
	PHYSICS	182	175	154	145	129	114	95	74	
	PLANT & ANIMAL SCIENCE	159	149	126	109	95	79	64	46	
	PSYCHIATRY/PSYCHOLOGY	242	222	187	151	123	104	78	55	
	SOCIAL SCIENCES, GENERAL	138	128	109	94	80	69	52	38	
	SPACE SCIENCE	268	244	225	199	195	146	124	93	

El umbral de citas para los Highly Cited Papers revela el número mínimo de citas recibidas por el Top 1% de documentos de cada uno de los 10 años de base de datos.

Los umbrales de citas para los Hot Papers

El umbral de citas para los Hot Papers revela el número mínimo de citas recibidas durante el período más reciente de dos meses por el Top 0,1% de los documentos de los últimos 2 años.

ESI Thresholds	RESEARCH FIELDS ▲	2018-1	2018-2	2018-3	2018-4	2018-5	2018-6	20
Highly Cited Thresholds	AGRICULTURAL SCIENCES	9	8	9	8	7	7	
Hot Paper Thresholds	BIOLOGY & BIOCHEMISTRY	16	17	12	16	14	11	
	CHEMISTRY	17	19	18	17	15	14	
	CLINICAL MEDICINE	15	16	16	13	14	13	
	COMPUTER SCIENCE	11	12	10	12	9	10	
	ECONOMICS & BUSINESS	9	14	8	10	7	7	
	ENGINEERING	13	13	12	13	11	11	
	ENVIRONMENT/ECOLOGY	12	16	15	14	12	9	
	GEOSCIENCES	11	11	10	10	8	9	
	IMMUNOLOGY	18	25	14	14	9	11	
	MATERIALS SCIENCE	20	25	21	19	18	15	
	MATHEMATICS	6	7	8	6	9	7	
	MICROBIOLOGY	14	12	19	13	13	10	
	MOLECULAR BIOLOGY & GENETICS	21	30	27	28	22	17	
	MULTIDISCIPLINARY	30	18	21	11	9	27	
	NEUROSCIENCE & BEHAVIOR	11	13	11	10	12	9	
	PHARMACOLOGY & TOXICOLOGY	10	10	11	10	9	8	
	PHYSICS	13	15	13	11	12	10	
	PLANT & ANIMAL SCIENCE	8	7	8	7	6	7	
	PSYCHIATRY/PSYCHOLOGY	13	9	8	7	9	8	
	SOCIAL SCIENCES, GENERAL	8	6	7	8	7	6	
	SPACE SCIENCE	22	18	12	45	15	13	

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Entrar en Essential Science Indicators

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InCites Essential Science Indicators

Clarivate Analytics

Indicators

Field Baselines

Citation Thresholds

Indicators

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Top Papers by Research Fields

Results List

Research Fields

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

Include Results For

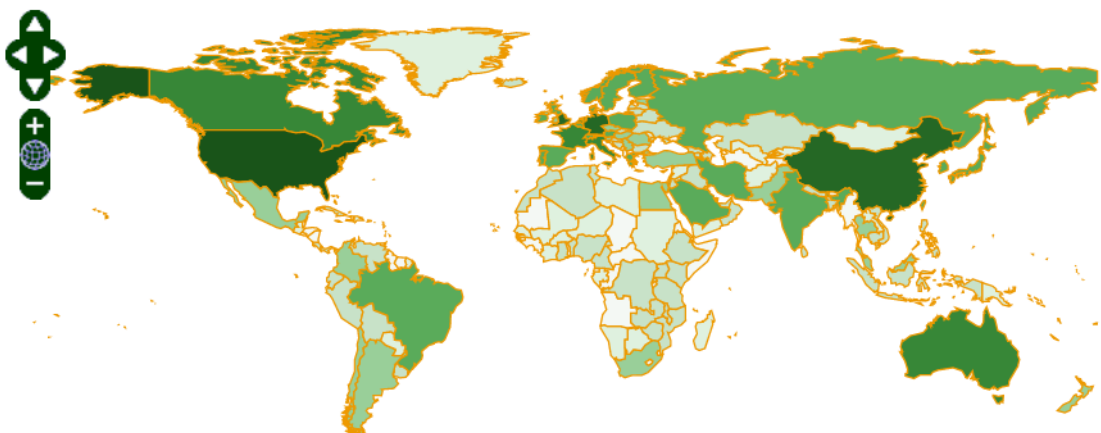
Top Papers

Clear

Save Criteria

Map View by Top / Hot / Highly Cited Papers

Hide Visualization



Los indicadores de ESI

Ejemplo 1

Results List

Research Fields ▾

Filter Results By ?

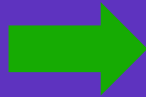
Changing the filter field removes all current filters.

Add Filter »

✕ SPAIN

Top Papers ▾

Clear **Save Criteria**



Total: 23	Research Fields ▾	Web of Science Documents	Cites ▾	Cites/Paper	Top Papers
1	CLINICAL MEDICINE	98,702	2,028,842	20.56	2,775
2	CHEMISTRY	66,325	1,253,839	18.90	684
3	PHYSICS	39,518	787,411	19.93	868
4	MOLECULAR BIOLOGY & GENETICS	16,922	598,194	35.35	335
5	ENGINEERING	51,185	594,652	11.62	459
6	ENVIRONMENT/E COLOGY	33,914	555,753	16.39	496
7	PLANT & ANIMAL SCIENCE	36,957	479,947	12.99	602
8	BIOLOGY & BIOCHEMISTRY	24,394	475,503	19.49	268
9	MATERIALS SCIENCE	25,062	446,906	17.83	206
10	AGRICULTURAL SCIENCES	28,465	412,336	14.49	420

Top Papers = Highly Cited Papers + Hot Papers

Los indicadores de ESI

Ejemplo 2

Results List

Research Fields

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

* UNIVERSIDAD DE LA LAGUNA

Include Results For

Top Papers

Results List

Institutions

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

* Space Science

Include Results For

Top Papers

Total: 8	Research Fields	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	SPACE SCIENCE	3,672	125,284	34.12	113
2	CLINICAL MEDICINE	1,258	38,084	30.27	27
3	CHEMISTRY	991	15,340	15.48	3
4	ENVIRONMENT/ECOLOGY	373	4,654	12.48	5
5	PLANT & ANIMAL SCIENCE	472	4,332	9.18	3
6	SOCIAL SCIENCES, GENERAL	517	3,699	7.15	5
7	ENGINEERING	318	3,408	10.72	2
0	ALL FIELDS	10,925	239,545	21.93	191

Total: 178	Institutions	Countries/Regions	Web of Science Documents	Cites	Cites/Paper
19	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)	SPAIN	6,720	221,313	32.93
36	INSTITUTO DE ASTROFISICA DE CANARIAS	SPAIN	4,315	141,403	32.77
46	UNIVERSIDAD DE LA LAGUNA	SPAIN	3,672	125,284	34.12
88	INSTITUT D'ESTUDIS ESPACIALS DE CATALUNYA (IEEC)	SPAIN	2,208	85,523	38.73
105	CSIC - INSTITUTO DE ASTROFISICA DE ANDALUCIA (IAA)	SPAIN	2,318	71,970	31.05

Exportar informes y listas de documentos

The image displays two screenshots of the Clarivate interface, illustrating the process of exporting reports and document lists.

Top Screenshot: Top Papers by Institutions

This view shows a table of top papers by institution. The 'Citation Thresholds' dropdown menu is open, showing options for PDF, CSV, and XLS.

Total:	Institutions	Countries/Regions	Web of Science Documents
752	1 UNITED STATES DEPARTMENT OF ENERGY (DOE)	USA	46
	2 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	FRANCE	58
	3 UNIVERSITY OF CALIFORNIA SYSTEM	USA	31
	4 CHINESE ACADEMY OF SCIENCES	CHINA MAINLAND	63
	5 MAX PLANCK SOCIETY	GERMANY (FED REP GER)	24
	6 HELMHOLTZ ASSOCIATION	GERMANY (FED REP GER)	26
	7 UNIV PARIS SACLAY COMUE	N/A	24

Bottom Screenshot: Papers by Research Field

This view shows a list of papers by research field. The 'Citation Trends' dropdown menu is open, showing options for CSV and XLS.

Sort By	Citations	Customize Documents
1	DISABILITY-ADJUSTED LIFE YEARS (DALYS) FOR 291 DISEASES AND INJURIES IN 21 REGIONS, 1990-2010: A SYSTEMATIC ANALYSIS FOR THE GLOBAL BURDEN OF DISEASE STUDY 2010	Times Cited: 4,131
By: MURRAY, C.J.L.; VOS, T.; LOZANO, R.; et.al Source: LANCET 380 (9859): 2197-2223 DEC 15 2012 Research Fields: CLINICAL MEDICINE		
2	YEARS LIVED WITH DISABILITY (YLDs) FOR 1160 SEQUELAE OF 289 DISEASES AND INJURIES 1990-2010: A SYSTEMATIC ANALYSIS FOR THE GLOBAL BURDEN OF DISEASE STUDY 2010	Times Cited: 3,301
By: VOS, T.; FLAXMAN, AD; NAGHAVI, M; et.al Source: LANCET 380 (9859): 2163-2196 DEC 15 2012 Research Fields: CLINICAL MEDICINE		

Guardar búsquedas

Top Papers by Institutions

Results List
Institutions

Filter Results By ?
Changing the filter field removes all current filters.
Add Filter »
× Physics

Include Results For
Top Papers

Clear Save Criteria

Map View by Top / Hot / High
Report View by Selection
Total: 752

	Institutions				
1	UNITED STATES DEPARTMENT OF ENERGY (DOE)			1,077,059	23.39
2	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	FRANCE	58,604	1,073,437	18.32
3	UNIVERSITY OF CALIFORNIA SYSTEM	USA	31,268	859,600	27.49
4	CHINESE ACADEMY OF SCIENCES	CHINA MAINLAND	63,563	827,750	13.02
5	MAX PLANCK SOCIETY	GERMANY (FED REP GER)	24,239	613,621	25.32
6	HELMHOLTZ ASSOCIATION	GERMANY (FED REP GER)	26,549	537,036	20.23
7	UNIV PARIS SACLAY COMUE	N/A	24,775	527,511	21.29

Show Visualization +
Customize

Save Selection
Please specify a name for your selections:
Save Cancel

A report from ISI / Clarivate – October 2020

Research Integrity: Understanding our shared responsibility for a sustainable scholarly ecosystem.

Broaden your view of what it means to conduct research with integrity.

Without a trusted record of research, it's impossible to replicate results, use research outcomes effectively, or build upon prior ideas, and in today's era of "fake news" and public mistrust of science, maintaining the validity of the scholarly record is more important than ever.

All stakeholders across the research community– from individual authors, editors and reviewers, to publishers, institutions and funders– have an important role to play to uphold research integrity.

In this new report from the Institute for Scientific Information (ISI)™, learn about the different types of behavior beyond "fabrication, falsification and plagiarism" (FFP) that undermine research integrity across the system, where these practices typically occur in the research lifecycle, and what you can do to combat them.



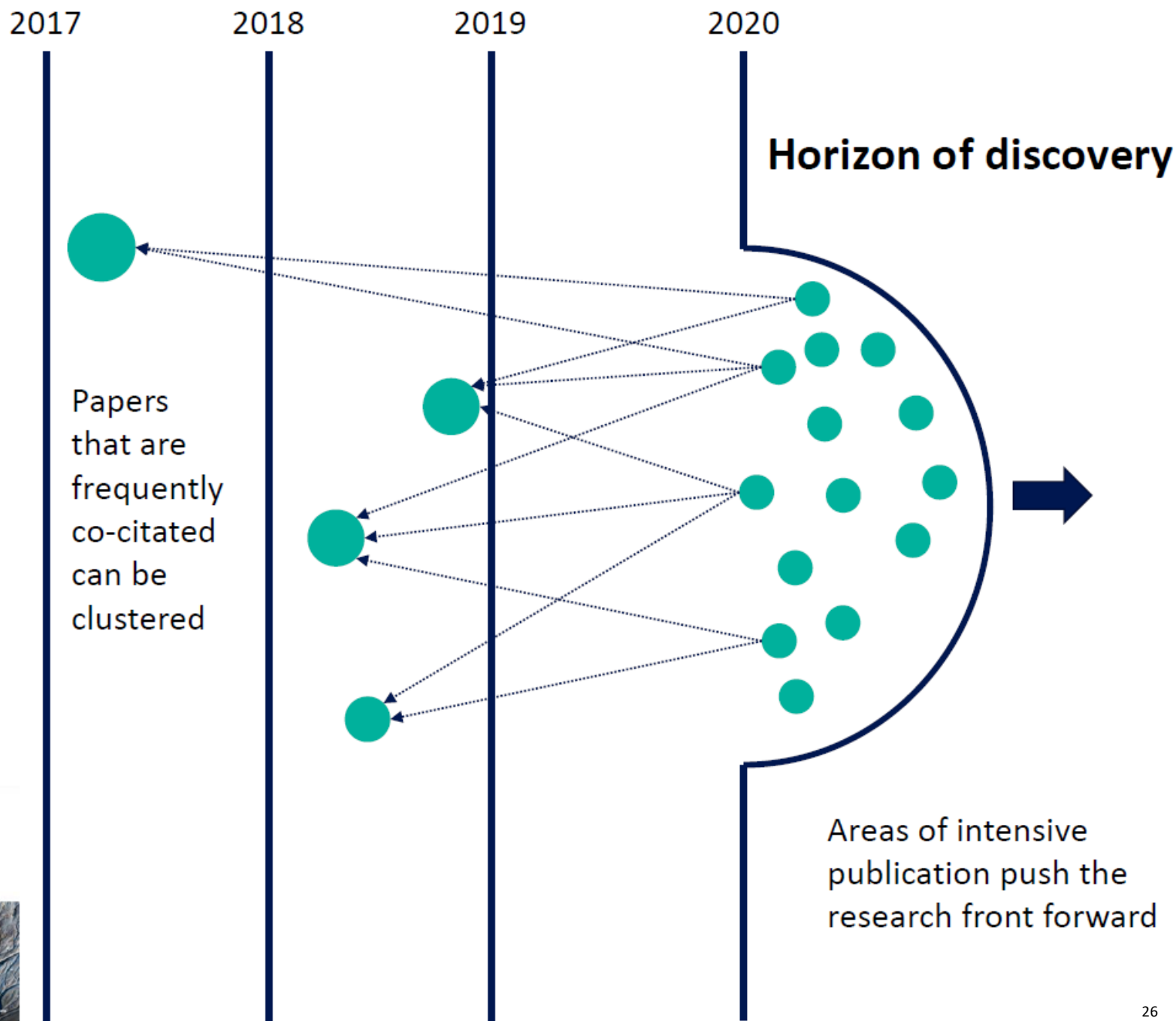
Sesión D2 – Los artículos más citados en Essential Science Indicators

- El alcance y la cobertura de Essential Science Indicators (ESI)
- Entender las métricas de desempeño
- ¿Qué son un Highly Cited Paper y un Hot Paper?
- Utilizar Essential Science Indicators
- ¿Qué es un Research Front?
- ¿Qué significa ser un Highly Cited Researcher?
- Nuestro programa de reconocimiento a los investigadores

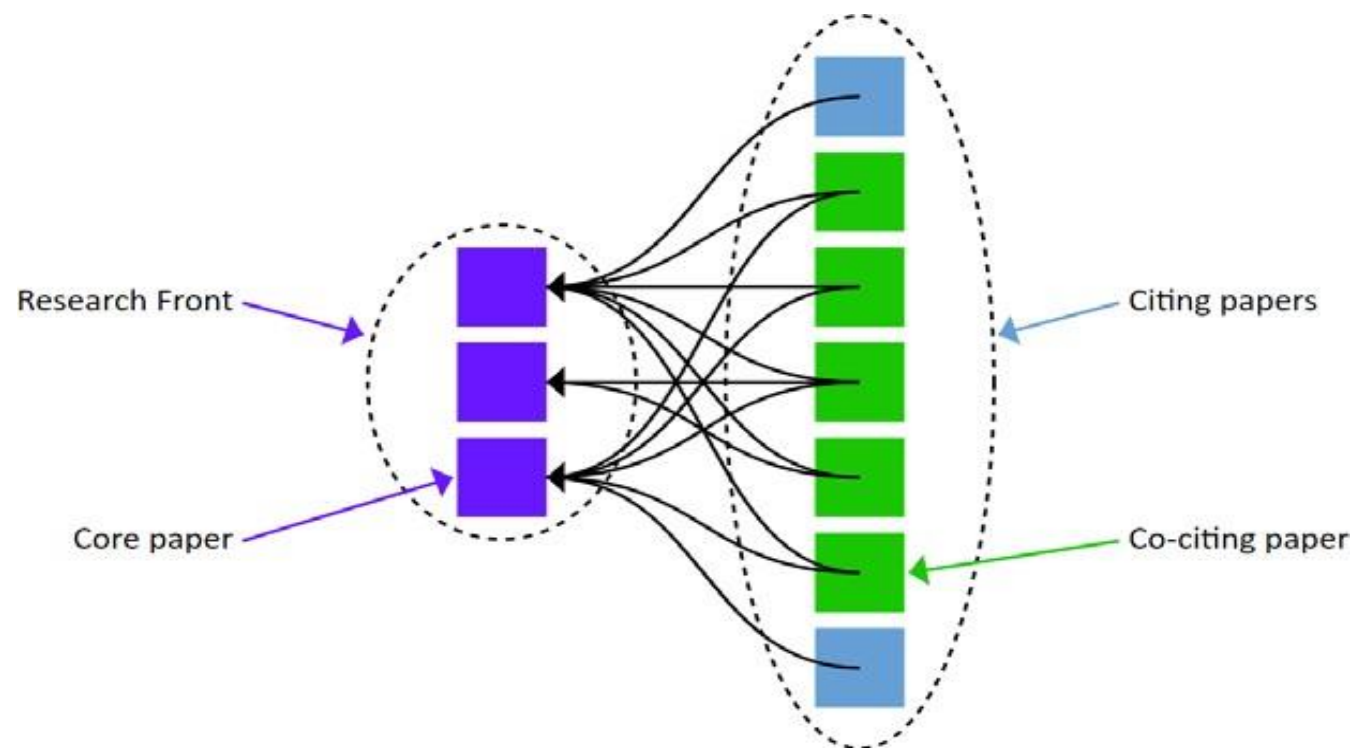
Research Fronts

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 – 2014-2019) 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.

Clarivate Analytics and the Chinese Academy of Sciences released an annual joint report to identify the hottest and emerging specialty areas in scientific research

Find the report “Research Fronts 2020” [here](#)

Research Fronts in ESI

Results List

Research Fronts

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

Space Science

Include Results For

Top Papers

Clear

Save Criteria

Map View by Top / Hot / Highly Cited Papers

Show Visualization +

Report View by Selection

Customize

	Research Fronts	Top Papers	Mean Year
1	GIANT MAGNETAR FLARE; GIANT FLARE; NGC 253; BRIGHT GAMMA-RAY FLARE INTERPRETED; MAGNETAR		2021
2	LOWER MASS GAP; UNEQUAL MASS REGIME; COMPACT BINARY EVOLUTION; EXPLORING; FORMATION		2020.5
3	MARS 2018 GLOBAL DUST STORM; MARS CLIMATE SOUNDER OBSERVATIONS; MARS CLIMATE SOUNDER OBSERVATION; MARS SCIENCE LABORATORY OBSERVATIONS; 2018/MARS YEAR 34 GLOBAL DUST STORM	1	2020.1
4	DARK MATTER FREE-STREAMING PROPERTIES; WARM DARK MATTER CHILLS; DARK MATTER; FREE-STREAMING LENGTH; NEW CONSTRAINTS	2	2020
4	HUBBLE CONSTANT CONSTRAINTS; HUBBLE SPACE TELESCOPE OBSERVATIONS; NGC 1559; MEGAMASER COSMOLOGY PROJE	2	2020

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

Citation Trends

Documents

Filter Results By ?

Add Filter »

MARS 2018 GLOBAL DUST STORM; MARS CLIMATE SOUNDER OBSERVATIONS; MARS CLIMATE SOUNDER OBSERVATION; MARS SCIENCE LABORATORY OBSERVATIONS; 2018/MARS YEAR 34 GLOBAL DUST STORM

Include Results For

Top Papers

Clear

Save Criteria

Sort By Citations

Customize Documents

1 - 10 of 12

1

SEIS: INSIGHTS SEISMIC EXPERIMENT FOR INTERNAL STRUCTURE OF MARS

By: LOGNONNE, P; BANERDT, WB; GIARDINI, D; et.al

Source: SPACE SCIENCE REVIEWS 215 (1): - FEB 2019

Research Fields: SPACE SCIENCE

Times Cited: 74

Research Front

2

INITIAL RESULTS FROM THE INSIGHT MISSION ON MARS

By: BANERDT, WB; SMREKAR, SE; BANFIELD, D; et.al

Source: NATURE GEOSCIENCE 13 (3): 183+ MAR 2020

Research Fields: GEOSCIENCES

Times Cited: 50

ESI Hot

Research Front

3

MARS SCIENCE LABORATORY OBSERVATIONS OF THE 2018/MARS YEAR 34 GLOBAL DUST STORM

By: GUZEWICH, SD; LEMMON, M; SMITH, CL; et.al

Source: GEOPHYSICAL RESEARCH LETTERS 46 (1): 71-79 JAN 16 2019

Research Fields: GEOSCIENCES

Times Cited: 43

Research Front

A report from ISI/Clarivate – September 2020

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 D2 – Los artículos más citados en Essential Science Indicators

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¿Qué significa ser un “Highly Cited Researcher”?

Highly Cited Researchers

Powered by Web of Science

<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>

2020 Recipients Methodology FAQs

Recognizing the true pioneers in their fields over the last decade, demonstrated by the production of multiple highly-cited papers that rank in the top 1% by citations for field and year in the Web of Science™. Of the world’s scientists and social scientists, Clarivate™ Highly Cited Researchers truly are one in 1,000.

Resources

- [Executive Summary](#)
- [Interviews](#)
- [Download archived HCR lists](#)
- [Download media press kit](#). For other media enquires email isi@clarivate.com

[Clear all](#)

Executive Summary

Experts from the Institute for Scientific Information™ provide exclusive insight into the list of Highly Cited Researchers 2020, including the methodology, country, and institutional breakdowns, and much more.

[Download the report](#)

¿Qué significa ser un “Highly Cited Researcher”?

2020 Recipients

Methodology

FAQs

Overview

Total de Highly Cited Papers en los 10 últimos años

- The Highly Cited Researchers™ list from Clarivate™ identifies scientists and social scientists who have demonstrated significant influence through publication of multiple papers, highly cited by their peers, during the last decade.
- Researchers are selected for their exceptional performance in one or more of 21 fields (those used in the Clarivate **Essential Science Indicators™**, or ESI) or across several fields.
- All Highly Cited Researcher records are reviewed. Factors such as **Contexto = Los 21 campos de investigación de ESI** of which would detract from true community-wide research influence—may lead to an author being excluded or suppressed from the list. Approximately 6,400 researchers are named Highly Cited Researchers in 2020—some 3,900 in specific fields and about 2,500 for cross-field performance. This is the third year that researchers with cross-field impact are identified. The recognition of researchers with substantial influence in several fields keeps the Highly Cited Researcher list contemporary and relevant.
- The number of researchers selected in each field is based on the square root of the population of authors listed on the field’s highly cited papers. The number of those with cross-field influence is determined by finding those who have influence equivalent to those identified in the 21 fields.

• For the 2020 Highly Cited Researchers analysis, the papers surveyed were the most recent papers available to us—those published and cited during 2009-2019 and which then ranked in the top 1% by citations for their ESI field and year (the definition of a highly cited paper).

- The threshold number of highly cited papers for selection differs by field, with Clinical Medicine requiring the most and Economics & Business the least.

La ultima edición (Noviembre 2020)

AGRICULTURAL SCIENCES x

Spain

Clear all

Powered by Web of Science Group's Essential Science Indicators

	FULL NAME	CATEGORY	PRIMARY AFFILIATION	SECONDARY AFFILIATIONS	
OM	Martin-Belloso, Olga	Agricultural Sciences	Universitat de Lleida	-	View Profile
MM	Martinez-Gonzalez, Miguel Angel	Agricultural Sciences	University of Navarra	Harvard University, United ...	View Profile
	Quiles, José L.	Agricultural Sciences	University of Granada	European University of the ...	View Profile
	Recio, Isidra	Agricultural Sciences	Consejo Superior de Invest...	-	View Profile
	Salas-Salvado, Jorge	Agricultural Sciences	Universitat Rovira i Virgili	CIBER - Centro de Investig...	View Profile
	Selma, Maria Victoria	Agricultural Sciences	Consejo Superior de Invest...	-	View Profile
	Simal-Gandara, Jesus	Agricultural Sciences	Universidade de Vigo	-	View Profile
	Xiao, Jianbo	Agricultural Sciences	Universidade de Vigo	-	View Profile

La ultima edición (Noviembre 2020)



Isidra Recio
"Maria Isidra Recio"
[Show more](#)

Web of Science ResearcherID[®]
H-4057-2012

 Highly cited

Researcher (non-Academic) - Institute of Food Science Research, CIAL, Consejo Superior de Investigaciones Científicas (CSIC)

PUBLICATIONS	TOTAL TIMES CITED	H-INDEX	VERIFIED REVIEWS
171	9,144	52 [®]	4

 [Summary](#)

 [Metrics](#)

 [Publications](#)

 [Peer review](#)

Research Fields

BIOACTIVE PROTEINS AND PEPTIDES, PROTEIN HYDROLYSIS, PEPTIDOMIC, MASS SPECTROMETRY

FOOD SCIENCE & TECHNOLOGY

Identifiers

Web of Science ResearcherID[®] H-4057-2012
ORCID  <https://orcid.org/0000-0003-2973-5329>

Las distinciones aparecen automáticamente en el perfil Publons de cada investigador.

Awards

-  Highly Cited Researcher in the field of Agricultural Sciences - 2020
-  Highly Cited Researcher in the field of Agricultural Sciences - 2019

Sesión D2 – Los artículos más citados en Essential Science Indicators

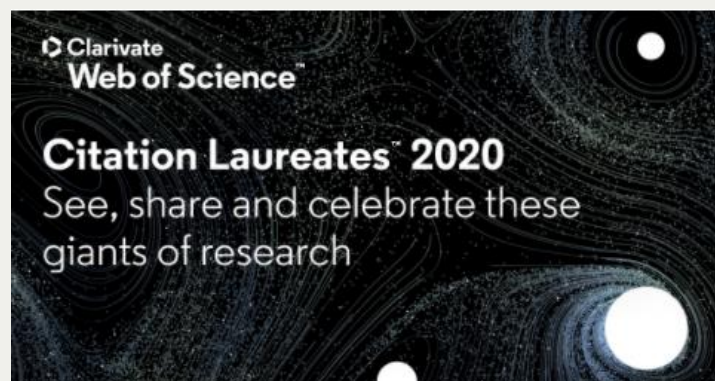
- El alcance y la cobertura de Essential Science Indicators (ESI)
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Researcher Recognition

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



[recognition.webofscience.com/awards/
highly-cited/2020/](https://recognition.webofscience.com/awards/highly-cited/2020/)



[clarivate.com/webofsciencegroup/citat
ion-laureates/](https://clarivate.com/webofsciencegroup/citation-laureates/)



[clarivate.com/webofsciencegroup/euge
ne-garfield-award-2020/](https://clarivate.com/webofsciencegroup/eugene-garfield-award-2020/)

Citation Laureates

Web of Science™ Introduction Citation Laureates

Successful Nobel Predictions

Since the inception of the Citation Laureates in 2002, our analysis has identified 59 eminent scientists and economists who went on to receive the Nobel Prize.

JENNIFER A. DOUDNA	EMMANUELLE CHARPENTIER
Jennifer A. Doudna	Emmanuelle Charpentier
Professor of Molecular and Cell Biology and of Chemistry, University of California Berkeley, Berkeley, CA, United States; and Howard Hughes Medical Institute Investigator	Associate Professor, Laboratory for Molecular Infection Medicine Sweden (MIMS, Swedish Node of the European Molecular Biology Laboratory [EMBL] Partnership for Molecular Medicine), Umeå University, Umeå, Sweden; Professor, Hannover Medical School, Hannover, Germany; and, Head, Department Regulation in Infection Biology, Helmholtz Centre for Infection Research, Braunschweig, Germany
United States	Germany
Chemistry	Chemistry

Successful predictions by Nobel Prize winners: since 2002, our analysis has identified 59 scientists who have won the Nobel Prize.

Jennifer A. Doudna – Facts – 2020. NobelPrize.org. Nobel Media AB 2020. Wed. 2 Dec 2020. <https://www.nobelprize.org/prizes/chemistry/2020/doudna/facts/>

Emmanuelle Charpentier – Facts – 2020. NobelPrize.org. Nobel Media AB 2020. Wed. 2 Dec 2020. <https://www.nobelprize.org/prizes/chemistry/2020/charpentier/facts/>

Jennifer A. Doudna Facts



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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

Emmanuelle Charpentier Facts



© Nobel Media. Ill. Niklas Elmehed.

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

Eugene Garfield Award for Innovation in Citation Analysis

Established in 2017, this international award honors Eugene Garfield's legacy of generosity and support for scientists around the world. It recognizes early career researchers in scientometrics developing innovative techniques in citation analysis that deepen our understanding of scientific and scholarly communication.

2020 Award Winner Dr. Giacomo Livan

Dr. Livan's research proposal is to create a novel framework to quantify the academic impact of researchers relative to their specific circumstances, resulting in a novel author-level metric of academic impact: "citations above replacement".

This project is directly inspired by modern sports analytics and aims to allow for fairer comparisons between researchers.



Dr. Giacomo Livan

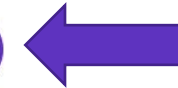
EPSRC Digital Economy Early Career Fellow
(Lecturer on Proleptic Appointment),
Department of Computer Science, University
College London

2021 Eugene Garfield Award for Innovation in Citation Analysis

Clarivate is now accepting applications for the 2021 Eugene Garfield Award™ for Innovation in Citation Analysis.

To be eligible, we must receive your application by 11:00 PM US Eastern Daylight time on Friday June 25, 2021.

[Download the application form](#)



Conclusión

Solutions for students, researchers and librarians



Web of Science

Discover the latest research and how it fits into the world's network of ideas, people, funders and institutions with a publisher-neutral citation index trusted by leading research institutions around the world for decades.

Bases de datos
disponibles a través
de la suscripción de
FECYT



Journal Citation Reports

Make confident decisions about where to submit your manuscript with the world's most influential and trusted resource for evaluating peer-reviewed journals.



Essential Science Indicators

Identify emerging science trends as well as influential individuals, institutions, papers, journals, and countries across 22 categories of research.



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Herramientas
gratuitas

Gracias

