

Formación online – Web of Science

Curso D2 – Los artículos más citados en Essential Science Indicators

Anne Delgado

20/11/2020



GOBIERNO
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FUNDACIÓN ESPAÑOLA
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Curso 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?

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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. ²⁴ There is a great deal of pressure on ISI to modify its method of calculating impact to better reflect long-term vs. short-term impact. ²⁵ This is reflected in their new *Essential Science Indicators*.²⁶

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

GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES
FECYT
FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

Web of Science InCites **Journal Citation Reports** **Essential Science Indicators** EndNote Publons Kopernio

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French universities and Grandes Ecoles
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ACCESO A ADMINISTRADORES
ACCESO A METADATOS
INFORMACIÓN PARA INVESTIGADORES

REVISTAS INDEXADAS 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
 - ISI Essential Science Indicators: esi.fecyt.es
 - ISI Journal Citation Reports: jcr.fecyt.es
 - ISI Web of Science: woscc.fecyt.es
- Science Citation Index™ Expanded (SCI-EXPANDED): wos-sci.fecyt.es
- Social Sciences Citation Index® (SSCI): wos-ssci.fecyt.es

Nuevo enlaces

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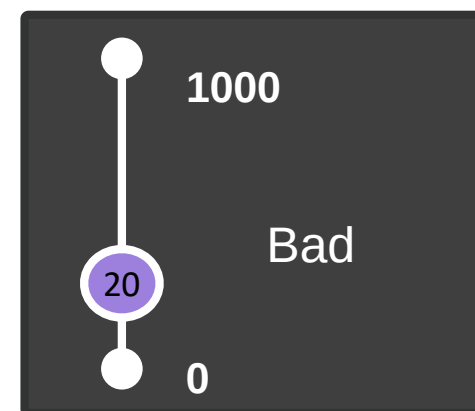
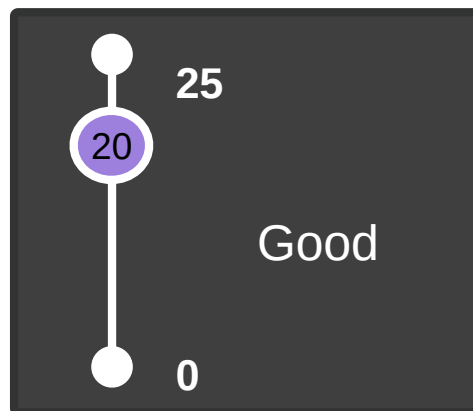
- El alcance y la cobertura de Essential Science Indicators (ESI)
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Siempre tendremos en cuenta el contexto

¿El total de citas acumuladas por esta publicación es alto o es bajo?



good or bad?



Depende del campo de investigación y del 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
Percentiles	ALL FIELDS	23.98	22.30	19.75	17.43	14.98	12.57	9.81	6.72
	AGRICULTURAL SCIENCES	17.21	16.22	14.29	12.66	11.03	9.37	7.33	5.07
Field Rankings	BIOLOGY & BIOCHEMISTRY	34.10	30.48	26.45	23.37	19.59	16.00	11.99	8.12
	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/ECOLOGY	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 rendimiento de la cita 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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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](https://doi.org/10.1093/eurheartj/ehx393)

Fecha de publicación: JAN 7 2018

Tipo de documento: Article

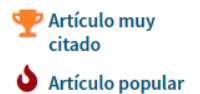
[Ver impacto de la revista](#)

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?

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1.167

Veces citado

Crear alerta de cita

Número de todas las veces citad

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

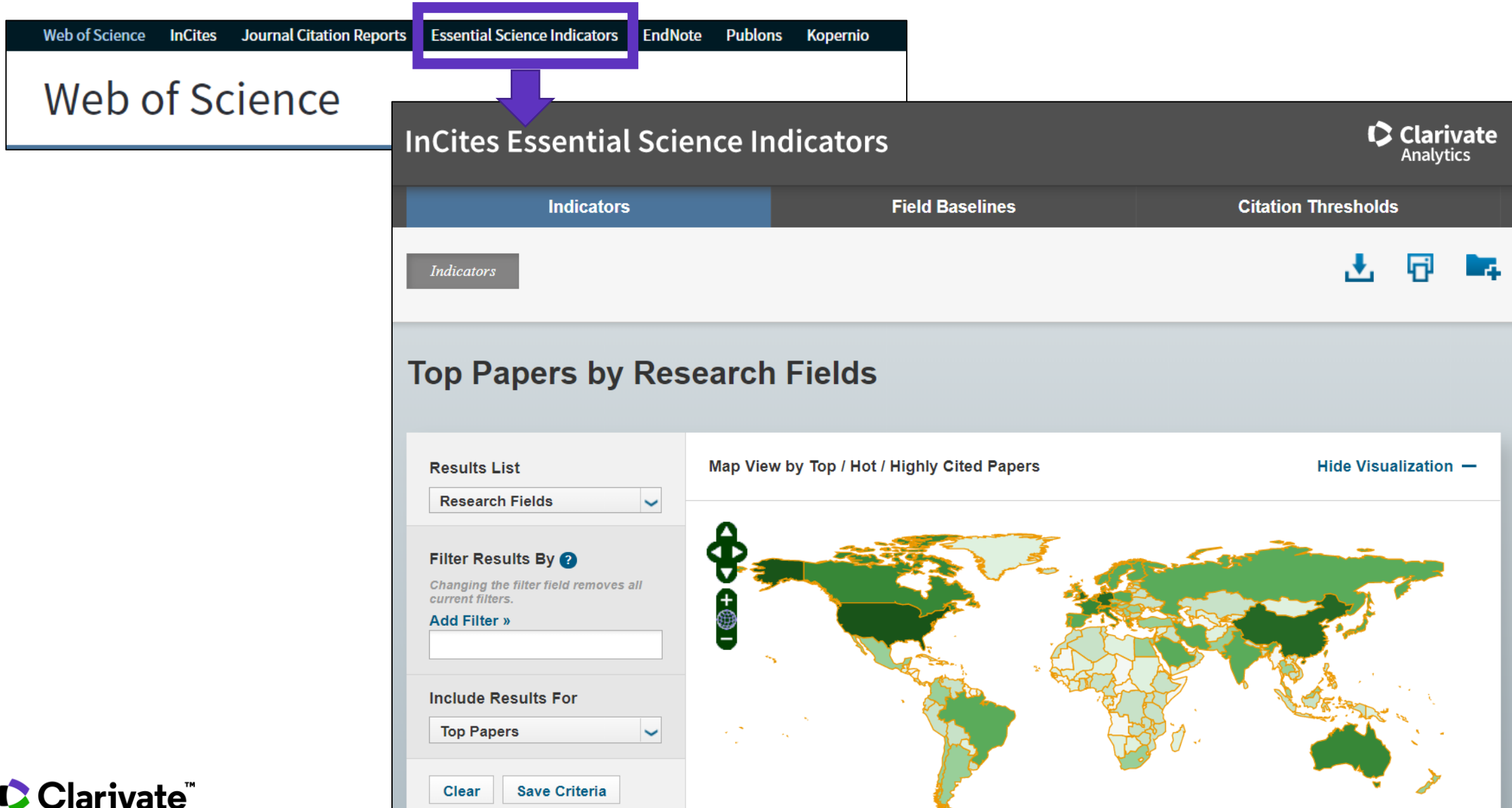
El umbral de citas para los Hot Papers revela el número mínimo de citas recibidas durante el período más reciente de dos meses por el Top 0,1% de los documentos de los últimos 2 años.

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



Los indicadores de ESI

Ejemplo 1

Results List

Research Fields 

Filter Results By ?

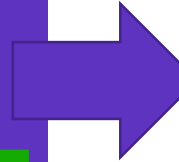
Changing the filter field removes all current filters.

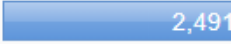
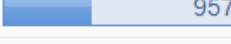
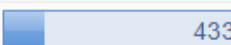
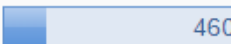
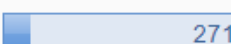
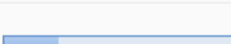
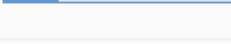
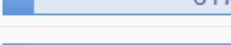
Add Filter »

 SPAIN

Top Papers 

Clear **Save Criteria**



Total: 23	Research Fields	Web of Science Documents	Cites ▼	Cites/Paper	Top Papers
1	CLINICAL MEDICINE	91,056	1,738,365	19.09	 2,491
2	CHEMISTRY	65,395	1,195,327	18.28	 671
3	PHYSICS	41,017	771,025	18.80	 957
4	MOLECULAR BIOLOGY & GENETICS	16,799	556,098	33.10	 326
5	ENGINEERING	46,767	477,916	10.22	 433
6	ENVIRONMENT/E COLOGY	27,926	477,471	17.10	 460
7	BIOLOGY & BIOCHEMISTRY	24,305	474,179	19.51	 271
8	PLANT & ANIMAL SCIENCE	36,181	463,194	12.80	 597
9	SPACE SCIENCE	14,267	384,478	26.95	 317
10	NEUROSCIENCE & BEHAVIOR	19,591	374,121	19.10	 267

Top Papers = Highly Cited Papers + Hot Papers

Los indicadores de ESI

Ejemplo 2

Results List

Research Fields

Filter Results By ?

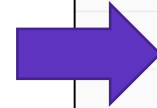
Changing the filter field removes all current filters.

Add Filter »

* UNIVERSITAT JAUME I

Include Results For

Top Papers



Total: 6	Research Fields	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	CHEMISTRY	1,210	34,973	28.90	41
2	MATERIALS SCIENCE	475	8,719	18.36	9
3	ENGINEERING	629	5,732	9.11	4
4	PLANT & ANIMAL SCIENCE	202	4,779	23.66	15
5	SOCIAL SCIENCES, GENERAL	433	1,956	4.52	2
0	ALL FIELDS	5,812	84,471	14.53	107

Results List

Institutions

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

* Chemistry

Include Results For

Top Papers



Total: 1252	Institutions	Countries/Regions	Web of Science Documents	Cites	Cites/Paper
22	INSTITUTE OF CHEMICAL RESEARCH OF CATALONIA	SPAIN	1,426	52,119	36.55
23	CSIC-UPV - INSTITUTO DE TECNOLOGIA QUIMICA (ITQ)	SPAIN	925	33,783	36.52
30	CSIC - INSTITUTO NACIONAL DEL CARBON (INCAR)	SPAIN	444	15,512	34.94
65	BARCELONA INSTITUTE OF SCIENCE & TECHNOLOGY	SPAIN	2,610	77,513	29.70
78	UNIVERSITAT JAUME I	SPAIN	1,210	34,973	28.90
102	UNIVERSITAT ROVIRA I VIRGILI	SPAIN	3,001	82,025	27.33

Filtro = Spain

Exportar informes y listas de documentos

The image displays two overlapping screenshots of the Clarivate interface, demonstrating how to export reports and document lists.

Top Panel: Top Papers by Institutions

This panel shows a table of top papers by institution. The table has columns for 'Institutions', 'Countries/Regions', and 'Web of Science Documents'. The 'Institutions' column is highlighted with a purple box, and a dropdown menu is open, showing options for 'PDF', 'CSV', and 'XLS'.

Total: 752	Institutions	Countries/Regions	Web of Science Documents
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 Panel: Papers by Research Field

This panel shows a list of papers by research field. The 'Select download format' dropdown menu is open, showing options for 'CSV' and 'XLS'. The list of papers is shown below the dropdown.

Sort By: Citations

Customize Documents

1 - 10 of 634

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, A.D.; 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](#)

NEW report from ISI – 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.



Download the report here

[https://clarivate.com/webofscienc
egroup/campaigns/research-
integrity-understanding-our-
shared-responsibility-for-a-
sustainable-scholarly-ecosystem/](https://clarivate.com/webofscienc
egroup/campaigns/research-
integrity-understanding-our-
shared-responsibility-for-a-
sustainable-scholarly-ecosystem/)

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

<https://clarivate.com/webofsciencegroup/eugene-garfield-award-2020/>

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.



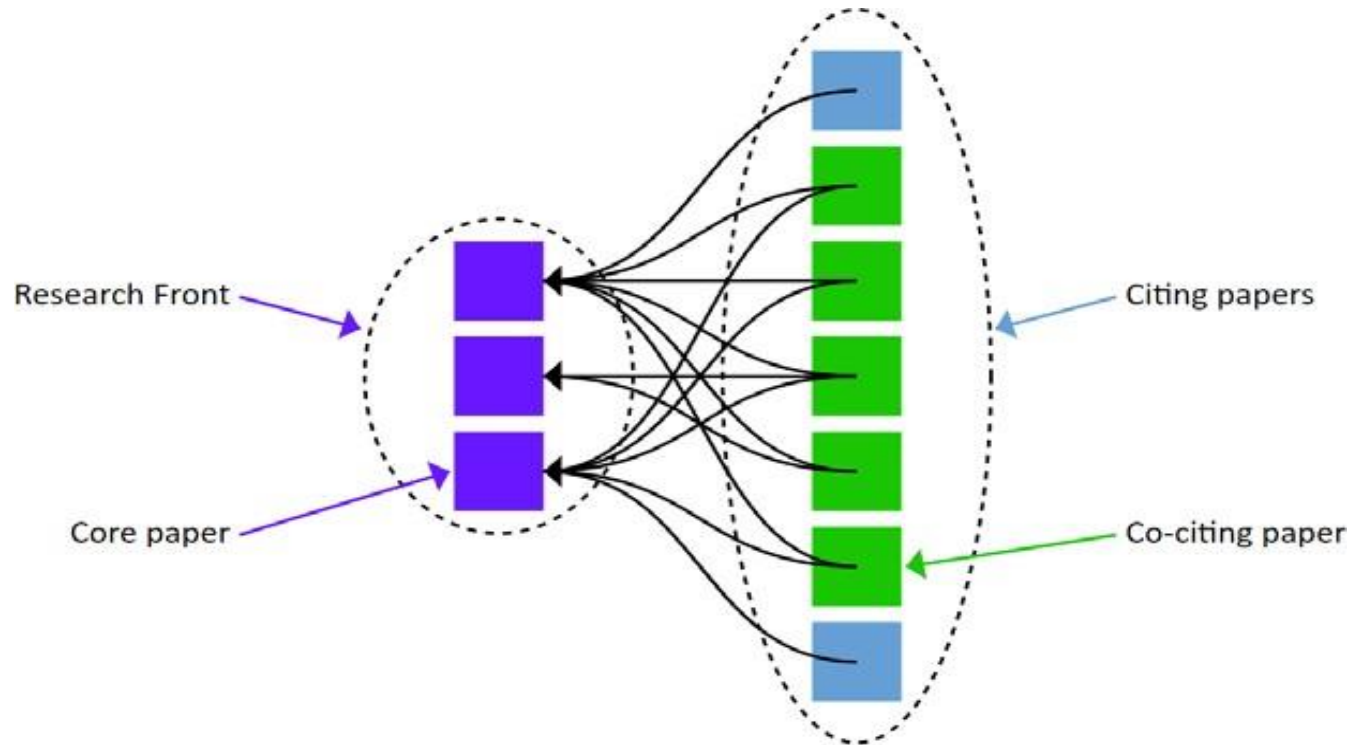
Dr. Giacomo Livan

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

Curso D2 – Los artículos más citados en Essential Science Indicators

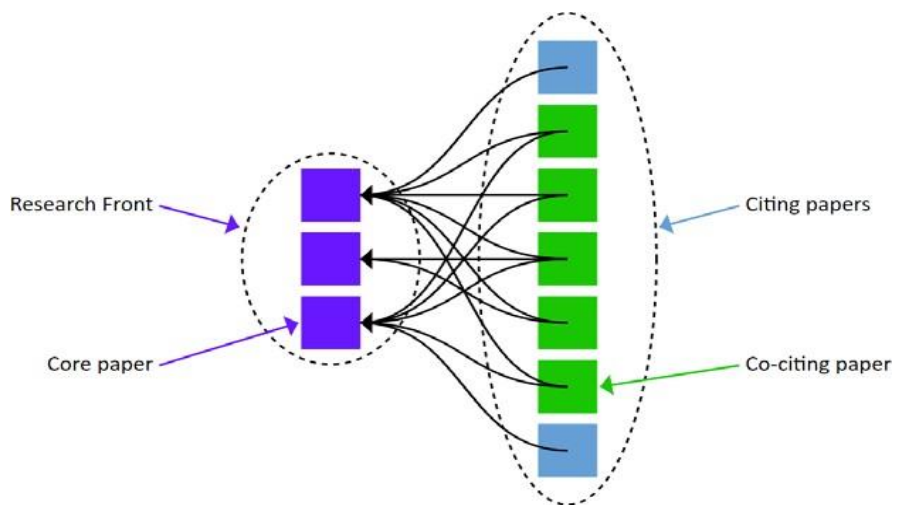
- El alcance y la cobertura de Essential Science Indicators (ESI)
- Entender las métricas de desempeño
- ¿Qué son un Highly Cited Paper y un Hot Paper?
- Utilizar Essential Science Indicators
- ¿Qué es un Research Front?
- ¿Qué significa ser un Highly Cited Researcher?

What is a Research Front?



- A research front is a cluster of highly cited papers over a five-year period - referred to as "core papers" - in a specialized topic defined by a cluster analysis.
- A measure of association between highly cited papers is used to form the clusters. That measure is the number of times pairs of papers have been co-cited, that is, the number of later papers that have cited both of them. Clusters are formed by selecting all papers that can be linked together by a specified co-citation threshold.
- The clusters are named using a semi-automatic process based on frequently occurring title words and phrases.

What is a Research Front?



- 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

- <https://clarivate.com/news/clarivate-and-the-chinese-academy-of-sciences-release-annual-joint-report-to-identify-100-research-fronts/>
- https://discover.clarivate.com/ResearchFronts2020_EN

Research Fronts in ESI

Results List

Research Fronts

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

× Agricultural Sciences

Include Results For

Top Papers

Clear

Save Criteria

Map View by Top / Hot / Highly Cited Papers

Show Visualization

Report View by Selection

Custom

Total: 472

Research Fronts

Top Papers

1

HYPERSPECTRAL IMAGING ANALYSIS; HYPERSPECTRAL IMAGING TECHNIQUE; NONDESTRUCTIVE HYPERSPECTRAL IMAGING MONITORING; NIR HYPERSPECTRAL IMAGING; HYPERSPECTRAL IMAGING BASED

43

2

EXOGENOUS MELATONIN CONFERS SALT STRESS TOLERANCE; MELATONIN TREATMENT DELAYS POSTHARVEST SENESENCE; MELATONIN CONFERS PLANT TOLERANCE; EMPLOYING EXOGENOUS MELATONIN APPLYING CONFERS CHILD TOLERANCE; MELATONIN ALLEVIATES ALUMINUM-INDUCED ROOT GROWTH INHIBITION

38

HIGHLY DEFATTED BLACK SOLDIER FLY LARVAE (HERMETIA ILLUCENS L; BLACK SOLDIER FLY (HERMETIA ILLUCENS) PRE-PUPAE MEAL; BLACK SOLDIER FLY LARVAE (HERMETIA

36

Citation Trends

Documents

Filter Results By ?

Add Filter »

× HYPERSPECTRAL IMAGING ANALYSIS; HYPERSPECTRAL IMAGING TECHNIQUE; NONDESTRUCTIVE HYPERSPECTRAL IMAGING MONITORING; NIR HYPERSPECTRAL IMAGING; HYPERSPECTRAL IMAGING BASED

Sort By Citations

Customize Documents

1 - 10 of 43

1

CLASSIFICATION OF FRESH AND FROZEN-THAWED PORK MUSCLES USING VISIBLE AND NEAR INFRARED HYPERSPECTRAL IMAGING AND TEXTURAL ANALYSIS

Times Cited: 94

Research Front

By: PU, HB; SUN, DW; MA, J; et.al

Source: MEAT SCIENCE 99: 81-88 JAN 2015

Research Fields: AGRICULTURAL SCIENCES

2

NON-DESTRUCTIVE PREDICTION OF THIOBARBITURIC ACID REACTIVE SUBSTANCES (TSARS) VALUE FOR FRESHNESS EVALUATION OF CHICKEN MEAT USING HYPERSPECTRAL IMAGING

Times Cited: 92

Research Front

By: XIONG, ZJ; SUN, DW; PU, HB; et.al

Source: FOOD CHEMISTRY 179: 175-181 JUL 15 2015

Research Fields: AGRICULTURAL SCIENCES

NEW report from (ISI) – 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.



Download the report here:
https://clarivate.com/webofscienc egroup/campaigns/identifying-research-fronts-in-the-web-of-science-from-metrics-to-meaning/?utm_campaign=EM1_ISI_8_GRR_Research_Fronts_SAR_Global_2020_Subject%20Line%20A&utm_medium=email&utm_source=Eloqua

Curso 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?
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- ¿Qué significa ser un Highly Cited Researcher?

¿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)

COMPUTER SCIENCE x

Spain

Clear all

Powered by Web of Science Group's Essential Science Indicators

FULL NAME	CATEGORY	PRIMARY AFFILIATION	SECONDARY AFFILIATIONS	
 Cabrenizo, Francisco Javier	Computer Science	University of Granada	-	View Profile
 Chiclana, Francisco	Computer Science	University of Granada	De Montfort University, Uni...	View Profile
 Fujita, Hamido	Computer Science	University of Granada	Iwate Prefectural University...	View Profile
 Garcia, Salvador	Computer Science	University of Granada	-	View Profile
 Herrera, Francisco	Computer Science	University of Granada	-	View Profile
 Herrera-Viedma, Enrique	Computer Science	University of Granada	-	View Profile
 Martinez, Luis	Computer Science	Universidad de Jaen	Ulster University, United Ki...	View Profile
 Rodriguez, Rosa M.	Computer Science	Universidad de Jaen	-	View Profile

La ultima edición (Noviembre 2020)



Rosa M. Rodriguez

"R.M. Rodriguez"
Show more

Web of Science ResearcherID[®]
B-9618-2011

 Highly cited

Postdoctoral Fellow - Computer Science, Universidad de Jaen

PUBLICATIONS	TOTAL TIMES CITED	H-INDEX	VERIFIED REVIEWS	VERIFIED EDITOR RECORDS
37	2,892	18 [?]	102	2

Summary

Metrics

Publications

Peer review

Research Fields

DECISION SUPPORT SYSTEM LINGUISTIC DECISION MAKING MULTI-CRITERIA DECISION MAKING

Identifiers

Web of Science ResearcherID[®] B-9618-2011
ORCID  <https://orcid.org/0000-0002-1736-8915>

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

Awards

-  Highly Cited Researcher in the field of Computer Science - 2020
-  Highly Cited Researcher in the field of Cross-Field - 2019

Gracias

Soporte al usuario:

WoSG.support@clarivate.com