

# SCOPUS

## Introducción. Recuperación de referencias. Visualización de tendencias. Herramientas de gestión

Dr. Jordi Ardanuy

Departament de Biblioteconomia i Documentació

Universitat de Barcelona Barcelona, mayo 2012



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### **SciVerse Scopus**

Scopus es una importante base de datos internacional de resúmenes y citas dedicada a la bibliografía científica.

En la actualidad contiene aproximadamente 46 millones de registros de los cuales un 70 % cuentan con resúmenes. Cubre unos 19.500 títulos de unos 5.000 editores de todo el mundo. También incluye más de 4.8 millones de contribuciones en congresos y 25 millones de registres de patentes. Se actualiza diariamente y contiene los artículos en prensa de más de 3.000 revistas.

Scopus dispone de herramientas para rastrear, analizar y visualizar los resultados de la investigación, lo que puede permitir su medición, evaluación y gestión.



Scopus forma parte de SciVerse, una plataforma que incluye, además de Scopus, Science Direct, que da acceso a las publicaciones de Elsevier, la editorial científica propietaria. La plataforma también incluye SciVerse Hub, que permite realizar búsquedas a través de Science Direct, de Scopus y 375 millones de páginas web científicas indexadas disponibles también a través Scirus.

El contenido de la plataforma se completa con un conjunto de aplicaciones específicas –algunas para teléfonos celulares– que pueden usarse para mejorar la búsqueda y el Información sobre Scopus: http://www.info.sciv erse.com/scopus/sc opus-in-detail/facts

Presentaciones de formación: N. Martínez Moreno (2011).

Scirus es un buscador web especializado en ciencia de Elsevier: www.scirus.com hallazgo de resultados en SciVerse ScienceDirect, Scopus or Hub.

## Funcionalidades básicas de Scopus

#### Registro

El registro sirve para guardar búsquedas, crear alertas, agrupar autores,... Solamente es necesario suscribirse en una ocasión al conjunto de productos SciVerse.

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#### Búsqueda de documentos

Las opciones principales de búsqueda permiten hacerlo por documento (*Document search*), por autor (*autor search*), por afiliación (*Affiliation search*) y búsqueda avanzada (*Advanced search*).

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Puede elegirse en que campos se lanza la búsqueda: todos; título resumen y palabras clave; autor, lengua, afiliación, DOI, ...

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Si se necesitan añadir términos a la búsqueda conectados por operadores de Boole (OR, AND y NOT), pueden añadirse instancias de la caja de búsqueda (*Add search field*).

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AND OR AND NOT	in Article Title, Abstract, Keywords ▼ Reset form   ℃ Add search field   Search Limit to: Date Range (inclusive) Document Type © Published All years ▼ to Present ▼ © Added to Scopus in the last 7 ▼ days Subject Areas ✓ Life Sciences (> 4,300 titles) ✓ Health Sciences (> 6,800 titles. 100 % Medline coverage) ✓ Physical Sciences (> 7,200 titles) ✓ Social Sciences & Humanities (> 5,300 titles)	

La búsqueda se puede limitar por la fecha de publicación, según grandes áreas del conocimiento y tipo de documento (artículo, revisión, participación en congreso, carta al director, editorial,....). Además en la parte inferior aparece el historial de las búsquedas realizadas con lo que podemos recuperar en cualquier momento una búsqueda realizada con anterioridad.

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Para ver el funcionamiento con un ejemplo se lanza a continuación una búsqueda de documentos sobre magnetismo cuántico publicados desde el año 2005. Los términos de búsqueda hay que introducirlos en inglés "quantum magnetism". La combinación de términos conviene tanto buscarlos en el título del documento, el resumen o en las palabras clave. Centraremos la búsqueda en las ciencias físicas para evitar ruido documental.

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En este ejercicio se han obtenido como resultados 1.935 registros que cumplen los requisitos de búsqueda y que están indexados en Scopus. Entre otras funciones, de cada registro se puede acceder al resumen si existe, o a documentos relacionados por compartir referencias.

Los registros pueden ordenarse por fecha, número de citas, autores, título de la revista y relevancia.

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	1	Magnetic beads-based electrochemiluminescence immunosensor for determination of cancer markers using quantum dot functionalized PtRu alloys as labels	Zhang, Y., Ge, S., Wang, S., Yan, M., Yu, J., Song, X., Liu, W.	2012	Analyst137 (9) , pp. 2'
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	6	Coupling Quantum Tunneling with Cavity Photons	Cristofolini, P., Christmann, G., Simeon, I.T., Deligeorgis, G., Konstantinidis, G., Hatzopoulos, Z., Sawidis, P.G., Baumberg, J.J.	2012	Science , pp. 1-4

También hay enlaces activos en el título del documento, en los autores o el título de la revista. En cada caso se accede a

información específica. En el caso del título del documento se despliega información bibliográfica detallada que incluye las referencias y el número de citas recibido.

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Detalles de uno de los registros recuperados. Se ha accedido a partir de enlace activo en el título del documento

Analyst	Cited by since 1996
Volume 137, Issue 9, 7 May 2012, Pages 2178-2182	This article has been cited <b>0</b> times in Scopus.
Magnetic beads-based electrochemiluminescence immunosensor for determination of cancer markers using quantum dot functionalized PtRu alloys as labels	Inform me when this document is cited in Scopus: Set elert   Stat feed
Zhang, Y.a, Ge, S.ab, Wang, S.a, Yan, M.a, Yu, J.a 🖼 , Song, X.é 🌌 , Liu, W.a 🛦	Related documents
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Abstract  Abstract  Abstract  An ovel electrochemiluminescence (ECL) immunosensor for sensitive detection of human chorionic gonaddrophin antigen (HG-Ag) was constructed using CdTe <b>quantum</b> diof functionalized nanoporous PHRu aloys (An ovel electrochemiluminescence (ECL) immunosensor for sensitive detection of human chorionic gonaddrophin antigen (HG-Ag) was constructed using CdTe <b>quantum</b> diof functionalized nanoporous PHRu aloys (An ovel electrochemiluminescence (ECL) immunosensor for sensitive detection of human chorionic gonaddrophin antigen (HG-Ag) was constructed using CdTe <b>quantum</b> diof functionalized nanoporous PHRu aloys (An ovel electrochemiluminescence (ECL) immunosensor of hole which the carelier the immediate Person y monoclonal anthody in taff-HCR attigen (MCAn ) was immubilized on to the surface of chicasan coated Fe 9.0 + magnetic nanoparticies (Fe 3.0 - 4GS MHPs) by gularaiddetyde (CA) as a coupling agent. Then MCAs 1: codd the secilier magnetic properties with external magnetic forces holding the MMPs. Due to signal amplification from the high loading of CdTe QDs, 4.67-601 denhancements in ECL signal for HO-CAg detection was achieved compared to the unamplified method (single CDs as labelis). Under optimal externals, a wide detection immeg (0.006-50 ng mL <sup>-1</sup> ) and ito detection immit (B gg mL <sup>-1</sup> ) were achieved through the sandwich-type immunosensers of hole whill presensitivity and exterctive). This original thera clinical detection HC-GA_g, in particular, this approach presents a novel class of combining bifunctional nanomaterials with preferable ECL properties and excellent <b>magnetic</b> considerable potential in a wide range of papilications for bioassays. Q012 The Royal Society of Chemistry.  ISSN: 2003254 COBEN: AMUAL Source <b>Type:</b> Abore  Distributed <b>CD-CD-COMENT biocument Type:</b> Abore	hars J., Yung K., Song H. Biocompatibility of proceeding: siles coasted CdT e quantum dots and magnetic nanoparticles (2011) Minoscie Research Letters Hang, H., U, J., 200, 3-J. Electrochemitaminesc., based on quantum dots and their analytical signification (2017) Analysis disclose Werk all include documents based on all shared references or select the shared references to use Find more related documents in Scopus based on: Q. Authors
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Además, puede accederse a registros de otros documentos a través de los enlaces *secondary documents*, *Web* y *Patent*.

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El enlace *secondary documents* permite acceder a registros de documentos que no están indexados en Scopus, pero que

aparecen en las referencias encontradas en documentos que si están indexados. Las referencias se presentan en gris y con el símbolo a tal y como muestra la siguiente ilustración extraída de otra búsqueda. Naturalmente en estos casos las funcionalidades de Scopus están limitadas.

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Por su parte, la opción *Web* permite acceder a los registros Web pertinentes y de corte académico que también pueden ser recuperados por Scirus. En el caso de la opción *Patent* da acceso a patentes relacionadas con los términos y limitaciones de la búsqueda procedentes de las oficinas de los <u>EUA</u>, <u>GB</u>, <u>Europa</u>, <u>Japón</u> y <u>WIPO</u>. Este enlace solamente aparece si hay alguna patente que encaje con las opciones de búsqueda. Tampoco aparece si en las condiciones de búsqueda se limita el tipo de documento a recuperar y no incluye las patentes. En las siguientes capturas de pantalla se ha regresado al ejemplo del magnetismo cuántico.

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Materials Science (4383)		Save this to My library   Similar   Versions (2)		
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<ul> <li>Thompson, J.D.</li> <li>Christou, G.</li> <li>Hagiwara, M.</li> </ul>	(9) > (8) > (8) >	5	Molecular magnetism of M 6 hexagon ring in D 3 d symmetric ((MCI) 6 and As III) View at publisher 1 Solicitar Recomments 1 Show abstract 1 Q. Re	XW 90 33) 2] 12- (M = Cu II	and Mn II, X = Sb III	Yamase, T., Ish H., Takeuchi, H.
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Short Survey Conference Review View more   View fewer	(37) > (25) >	<b>1</b> 0	Probing the timescale of the exchange interaction in a ferromagnetic	alloy		Mathias, S., La-) P., Turgut, E., Sł H.C.



Las opciones de refinamiento varían según el contexto. Así para los documentos Scopus las limitaciones son el año de publicación; el autor; el tema; el tipo de documento (artículo, contribución en congreso, reseña, encuesta, reseña de congreso, artículo en prensa, editorial, corrección, carta al editor,...); el título de la revista; palabras clave; la afiliación de los autores; el país o zona geográfica de los autores; el tipo de publicación (revistas, actas de congresos, publicaciones comerciales, ...); e idioma. En otros casos las opciones de refinamiento se reducen a las que tiene sentido ofrecer. En el caso de las patentes se puede seleccionar la oficina de registro.

Recuérdese que en cualquier momento puede recuperarse una búsqueda anterior regresando a la página de búsqueda (*Search*) y recuperándola del historial. Para ello solamente hace falta seguir en enlace del número de registros. Estas búsquedas pueden guardarse. El historial está limitado a 50 últimas búsquedas.

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#### Análisis de resultados

Los resultados de una búsqueda de documentos pueden ser analizados en función de diversos aspectos. Scopus ofrece una potente herramienta de análisis (*Analyze results*).

Para explicarlo se va a realizar una nueva búsqueda sobre magnetismo cuántico, pero ahora sin limitaciones temporales, y extendida a todas las áreas, no solamente a las ciencias físicas.

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	Characterization of flexibly linked shape memory	polyurethane composite with magnetic property

Cuando se ejecuta el enlace para analizar resultados se carga una herramienta de Scopus que permite un análisis de los registros recuperados según año de publicación, el título de la revista o fuente, los autores, afiliaciones, áreas geográficas, tipos de documentos y temas.



La primera opción muestra la distribución anual de los registros que hay en Scopus con las condiciones de búsqueda, en este caso sobre magnetismo cuántico. La herramienta de zoom permite controlar la ventana temporal deseada. A la derecha aparece el número exacto de documentos publicados en cada año.

En el presente ejemplo, hasta principios de los años 80 no hay registros en Scopus, aunque los datos anteriores a 1996 pueden ser significativamente incompletos. El siguiente gráfico exhibe la importancia que cobra el tema desde el año 1999. Las caídas en el año en curso no se pueden tomar en consideración al ser los datos incompletos.



La segunda opción permite determinar los títulos de revistas que más contribuciones han publicado sobre el tema en cuestión. La herramienta permite incluir en la comparación gráfica hasta 10 publicaciones y también admite ventanas temporales lo que facilita conocer la evolución en el tiempo de las contribuciones. En este caso se observa que hasta 1969 las escasas contribuciones procedían del *Journal of American Chemical Society*, pero a partir de ese momento aparecen revistas de física que son las que pasan a ser dominantes.



La opción de los autores permite ver aquellos autores que más contribuciones tienen entre las referencias que hemos recuperado. Naturalmente esto permite identificar los autores más importantes, posibles colaboradores o competidores. Se insistirá en otras sesiones posteriores en este aspecto. Aunque por defecto aparecen los 10 autores con más contribuciones, puede añadirse al gráfico cualquiera de los que aparecen a la derecha; todos ellos cuentan con un mínimo número de artículos en Scopus.

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6. Kindo, K.							v	Hendrickson, D.N.	17	
8. Thompson, J.D.							~	Sessoli, R.	<u>16</u>	
9. Gudel, H.U.							~	Kindo, K.	<u>16</u>	
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El siguiente gráfico muestra las instituciones con mayor número de autorías.

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En el presente ejemplo, al analizar la distribución por países existe un error ya que Estados Unidos es el que más ha contribuido, pero Scopus anota uno coma doscientos tres artículos en lugar de mil veintitrés con lo que la herramienta gráfica no traza la imagen correctamente.



Una situación equiparable ocurre con los tipos de documentos. En este caso se opta por ofrecer aquí solamente la lista de tipos de documentos. Observe que el total es incorrecto ya que el número de artículos es realmente de 3.596.

Document Type	Documents	Distribución do tipos
Conference Paper	<u>540</u>	
Review	<u>175</u>	de documentos
Short Survey	<u>59</u>	
Conference Review	<u>47</u>	
Undefined	22	
Note	<u>13</u>	
Article in Press	<u>9</u>	
Editorial	8	
Letter	<u>6</u>	
Erratum	<u>4</u>	
Article	<u>3.596</u>	
Book	1	
Report	1	
Total	888.596	

## Exportación de resultados y otras herramientas de gestión

Los errores detectados en el caso anterior tienen una importancia relativa puesto que en cualquier momento los registros recuperados pueden ser exportados y tratados con cualquier herramienta de cálculo tal como las incluidas en Microsoft Excel o el Open Office Calc.

Si se recuperan los registros sobre magnetismo cuántico utilizando el historial de búsquedas, se obtiene de nuevo una pantalla equivalente a la mostrada en el siguiente gráfico. Se han señalado las funciones de exportación y envió por correo en una barra que permite además el acceso al documento – si está suscrito por la institución o en su caso adquirirlo, imprimir, crear bibliografía, entre otras funciones. Todas ellas trabajan a partir de los registros seleccionados por el usuario. En el ejemplo aquí expuesto se han seleccionado los cinco con mayor número de citas. Open Office http://www.openoffi ce.org/download/oth er.html

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Exercical spin injection	in a ferromagnetic semiconductor heterostructure	Ohno, Y., Young, D.K., Beschoten, B., Matsukura, F., Ohno, H., Awschalom, D.D.	1999	Nature 402 (6763) , pp. 790-792	
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A general strategy for n	anocrystal synthesis	Wang, X., Zhuang, J., Peng, Q., Li, Y.	2005	Nature 437 (7055) , pp. 121-124	
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La herramienta de exportación permite la exportación directa a la herramienta de subscripción Refworks, o la generación de archivos en formato formato texto (.txt), RIS – que manejan diversos gestores de referencias como Reference Manager, ProCite o EndNote; y en formato de separación de comas (.csv) que puede ser abierto por Excel o Calc, entre otros. También puede especificarse si se exporta el resumen o especificar campos concretos con la opción *output*.

Source and Document Type

La herramienta para crear bibliografía permite confeccionar un listado de referencias en diferentes estilos (APA, Chicago, Harvard,...). Puede generarse en HTML, texto plano (.txt), RTF o Microsoft Word.

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Jordi Ardanuy. SCOPUS: Introducción. Recuperación de referencias. 2012 Pág. 21



Cuando se utilizan la herramienta que hemos descrito en el análisis de resultados, también es posible la exportación, el envío por correo y la impresión. En este caso la exportación genera automáticamente un archivo separado por comas (.csv). Las opciones de impresión y correo electrónico permiten reproducir el contenido gráfico y textual que genera Scopus.

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Finalmente, de nuevo en la pantalla de resultados, la opción *View citation overview* muestra las citas recibidas por los documentos seleccionados a lo largo de los últimos años,

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