



Un curso práctico e intensivo sobre las APIs de Scopus

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Septiembre 2019



Vídeo FECyT Scopus

- <https://youtu.be/KSaz-CmQq6Q>



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Agenda

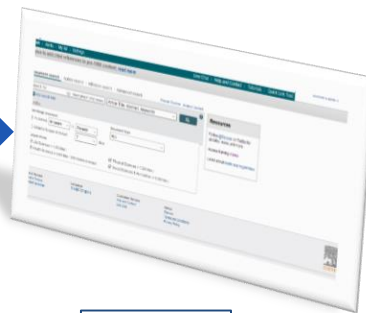
- ¿Qué es una API (Application Programming Interface)?
- Las APIs de Scopus
- Familiarizarse con las APIs a través de las APIs interactivas
 1. Búsqueda en Scopus
 2. Recuento de Citas de artículo y sus aplicaciones (ej. página Web de revista o institucional)
 3. Recuperación del autor
- API REST es un recurso Web identificado por una URL: estructura de la URL (localizador uniforme de recurso) a través de ejemplos
- Restricciones técnicas: configuración predeterminada de la clave API
- Restricciones legales: las políticas de casos de uso



¿Qué es una API ?

- Es una forma de consultar Scopus de forma automatizada sin la interacción humana
- Las APIs ofrecen las mismas funcionalidades de la interfaz de usuario de Scopus y permiten que los programas, en lugar de los humanos, consulten, encuentren y devuelvan los datos en Scopus

Consulta con
el teclado



Scopus



VS

[https://api.elsevier.com/content/search/scopus?query=TITLE-ABS-KEY%20\(%20mars%20AND%20water%20\)&apiKey=a4eb62a9e998d5b2f81f77b96838fdf3](https://api.elsevier.com/content/search/scopus?query=TITLE-ABS-KEY%20(%20mars%20AND%20water%20)&apiKey=a4eb62a9e998d5b2f81f77b96838fdf3)



Scopus API

Solicitud

Respuesta

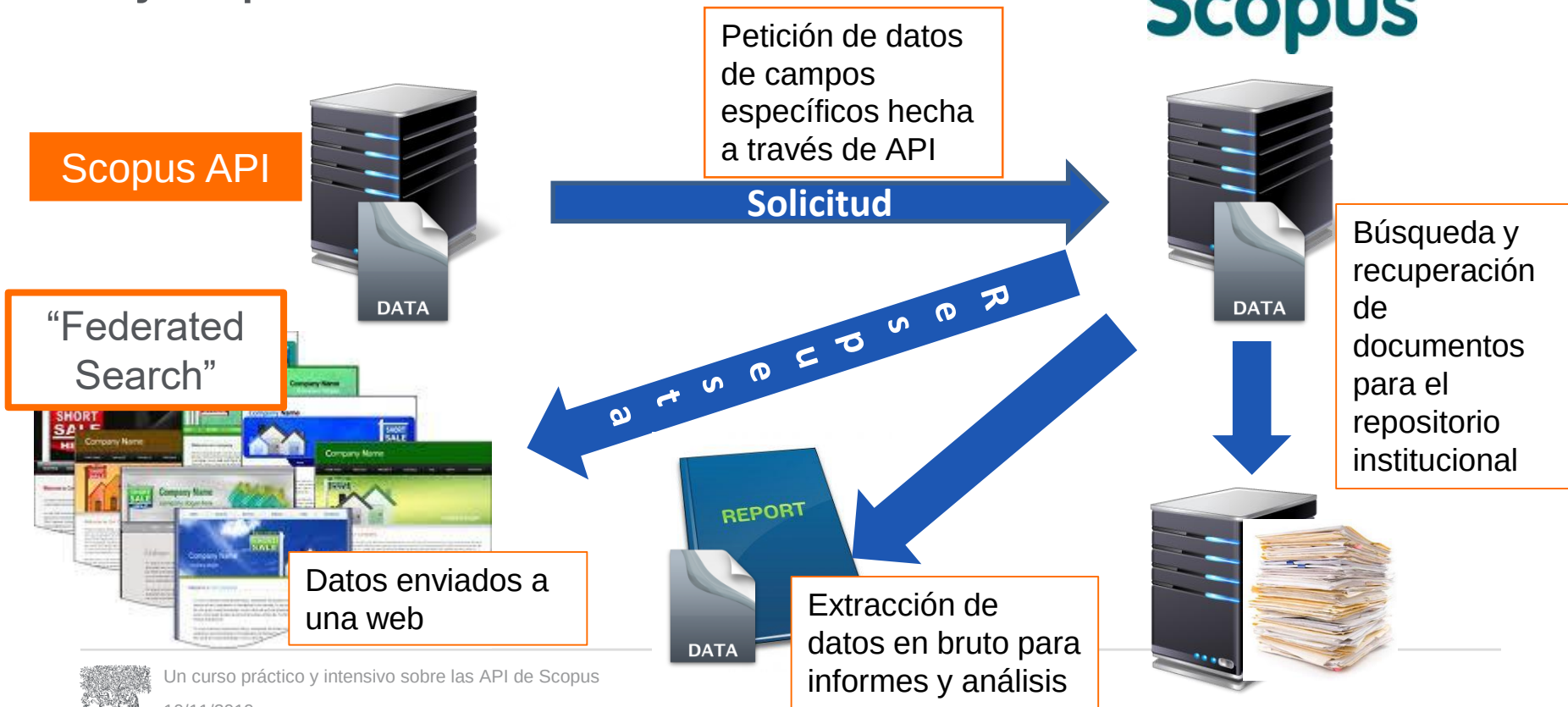
Scopus



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Ejemplos de uso de APIs



Ejemplos “Live” 1

- Science Direct APIs
- University of Florida – repositorio institucional
- <http://ufdc.ufl.edu/elsevier>



Ejemplos “Live” 1

- Science Direct APIs
- University of Florida – repositorio institucional
- <http://ufdc.ufl.edu/elsevier>
- Enlace al editor

The screenshot shows the UFDC website interface. At the top, there's a header for 'George A Smathers Libraries' and 'University of Florida Digital Collections'. Below this is a banner for 'Elsevier'. The main navigation bar includes 'HOME', 'SEARCH OPTIONS', 'BRIEF VIEW', 'THUMBNAIL VIEW', 'TABLE VIEW', and links for 'PRINT', 'SEND', 'SAVE', and 'SHARE'. The search results section shows 'All Items' with a grid view icon. On the left, there's a 'NARROW RESULTS BY:' sidebar with filters for Publisher, Subject: Topic, and Subject: Genre. The main results area displays two items. Item 1 is highlighted with an orange arrow pointing to its title: 'The \$64 000 question in diabetes continues...'. Item 2 is partially visible below it. The article details for Item 1 include links to the publisher version, publication date (2000-07-01), creator (Department of Pathology, University of Florida), publisher (Elsevier Ltd.), and source institution (Florida State University).



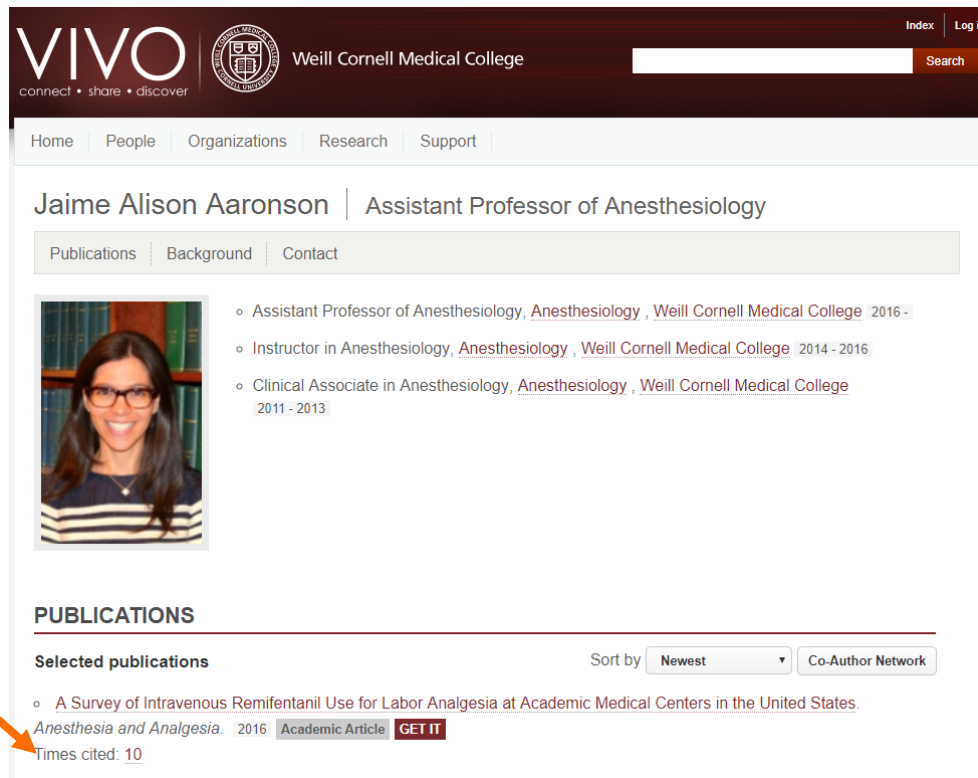
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Ejemplos “Live” 2

- Scopus APIs
- [Weill Cornell Medical College](http://vivo.med.cornell.edu/display/cw-id-jak9060)
- <http://vivo.med.cornell.edu/display/cw-id-jak9060>
- Enlace a las citas bibliográficas



VIVO connect • share • discover Weill Cornell Medical College

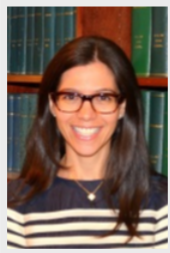
Index Log in

Search

Home People Organizations Research Support

Jaime Alison Aaronson | Assistant Professor of Anesthesiology

Publications Background Contact



- Assistant Professor of Anesthesiology, [Anesthesiology](#), [Weill Cornell Medical College](#) 2016 -
- Instructor in Anesthesiology, [Anesthesiology](#), [Weill Cornell Medical College](#) 2014 - 2016
- Clinical Associate in Anesthesiology, [Anesthesiology](#), [Weill Cornell Medical College](#) 2011 - 2013

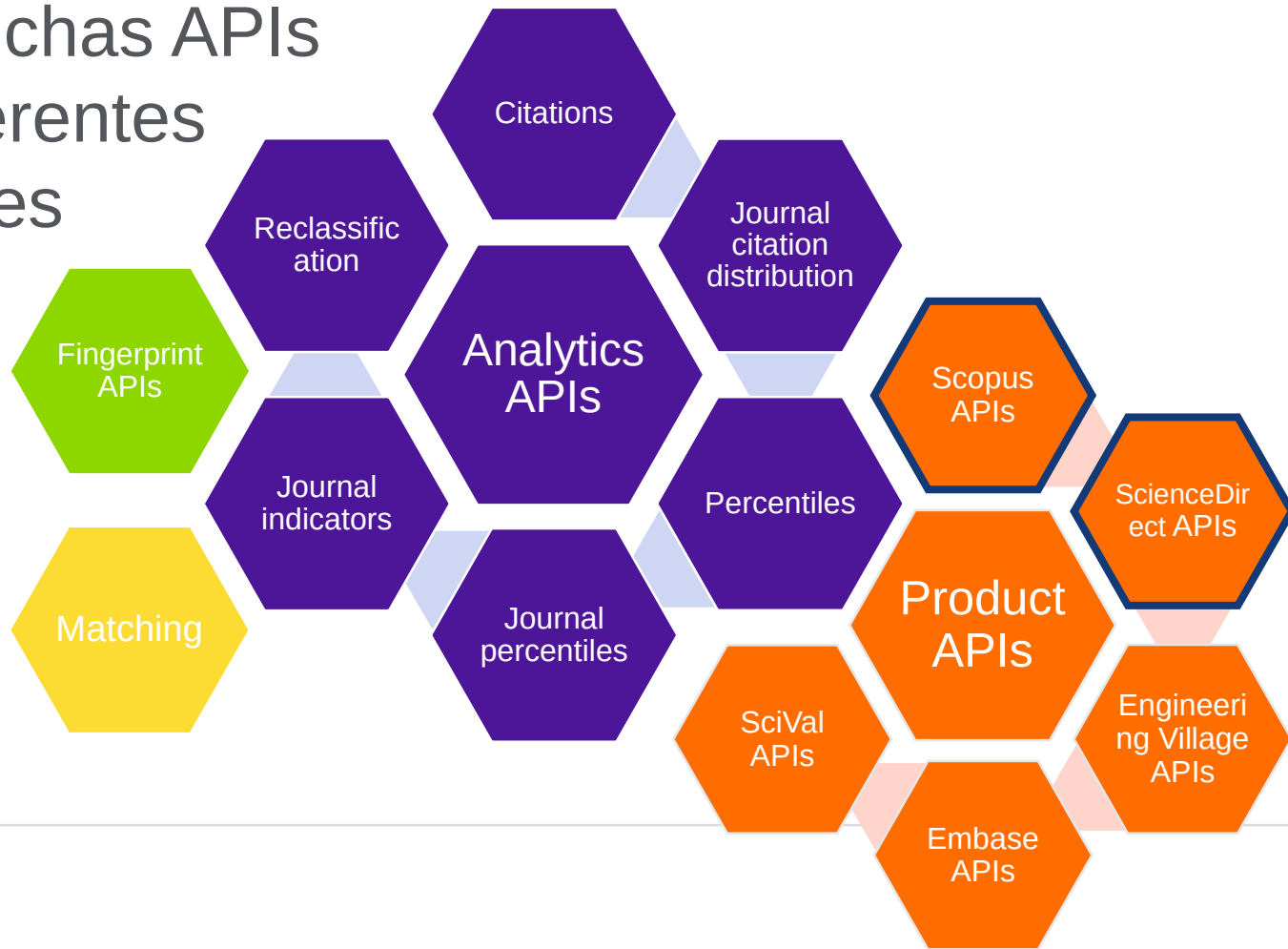
PUBLICATIONS

Selected publications Sort by **Newest** Co-Author Network

- A Survey of Intravenous Remifentanyl Use for Labor Analgesia at Academic Medical Centers in the United States. [Anesthesia and Analgesia](#). 2016 [Academic Article](#) **GET IT**
Times cited: 10



Hay muchas APIs con diferentes funciones



APIs de Scopus

https://dev.elsevier.com/api_docs.html

ScienceDirect APIs	Scopus APIs	Engineering Village APIs	Embase APIs	SciVal API
ScienceDirect Search [<i>Search Tips</i>]	Affiliation Search [<i>Search Tips</i>] Author Search [<i>Search Tips</i>] Scopus Search [<i>Search Tips</i>]	Engineering Village Search API	EMBASE Search	SciVal Author Lookup SciVal Country Lookup SciVal Country Group Lookup SciVal Institution Lookup SciVal Institution Group Lookup
Article Retrieval Article Entitlement Retrieval Article Hosting Permission API Object Retrieval	Abstract Retrieval Affiliation Retrieval Author Retrieval	Engineering Village Retrieval API	EMBASE Retrieval	
Serial Title Metadata Nonserial Title Metadata Subject Classifications	Citations Count Metadata Citations Overview Serial Title Metadata Subject Classifications			
Holdings Report	Author Feedback			
PharmaPendium API				

Búsqueda

Recuperación

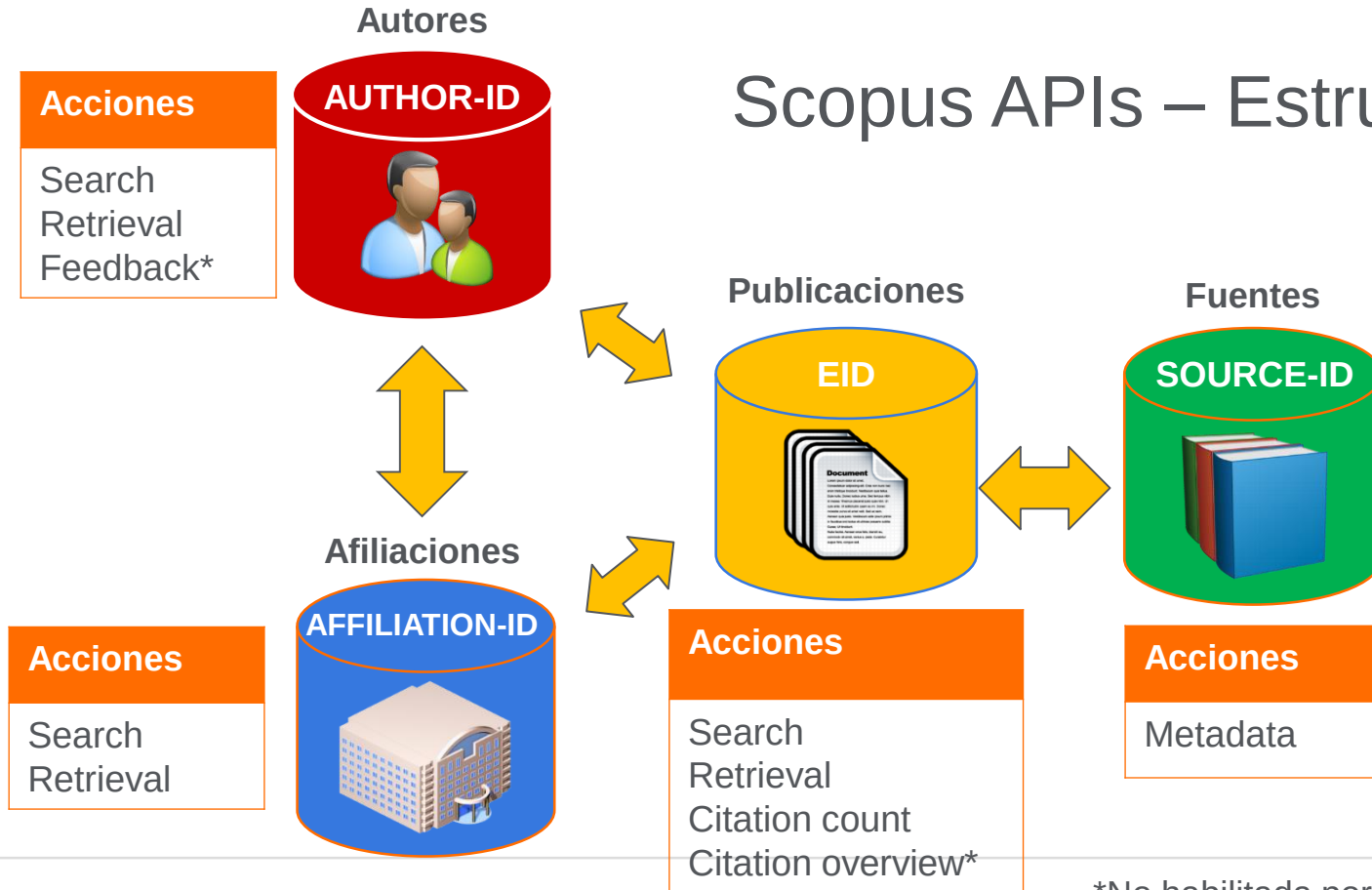
Análisis



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Scopus APIs – Estructura



*No habilitada por defecto

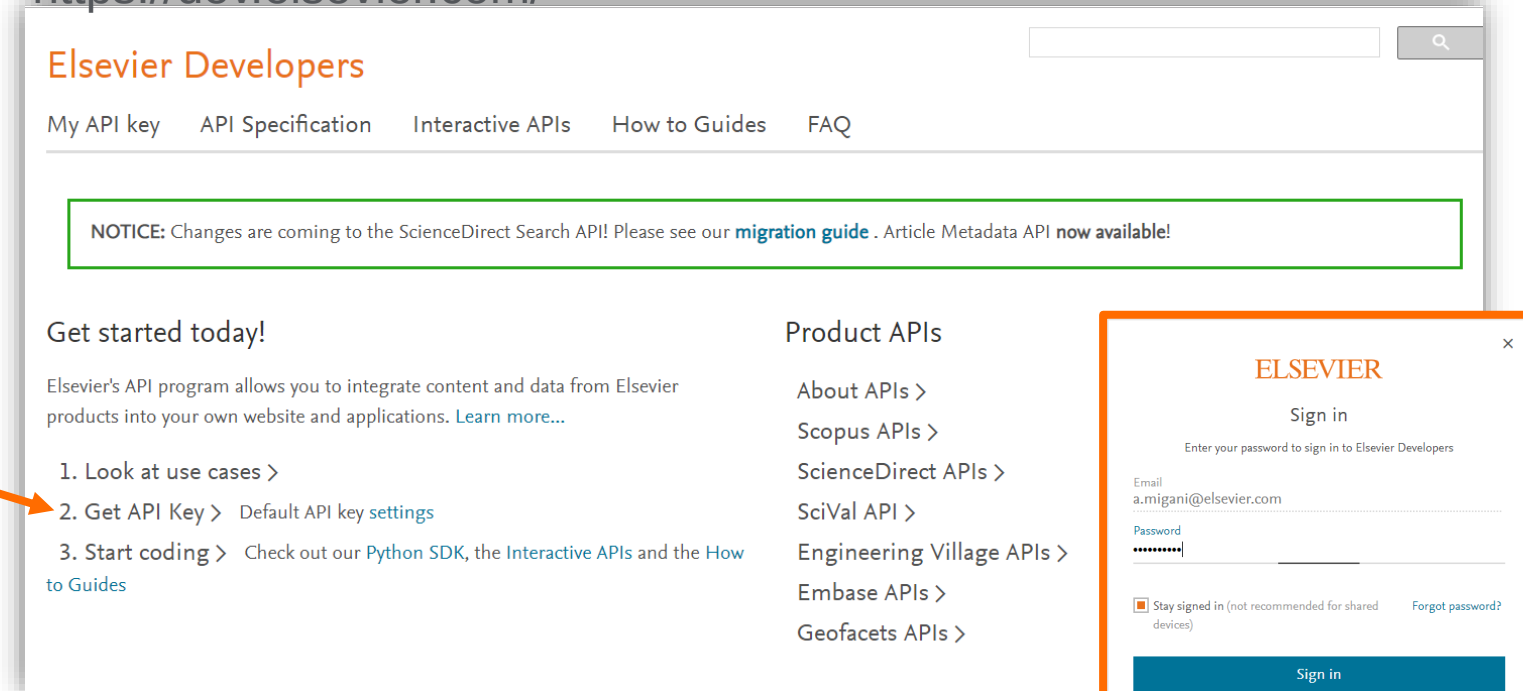
En que consiste una llamada a una API

- Las APIs se basan sobre la arquitectura Web REST
- Hacer una llamada a una API REST es como ir a una dirección web con un navegador, pero en lugar de utilizar un navegador para ir a la dirección manualmente, se utiliza un programa que se dirige a la dirección automáticamente como parte de un script
- La dirección generalmente contiene algunas variables que especifican qué es exactamente lo que desea obtener
- El resultado de una llamada a una API no es un documento HTML que se muestra a un usuario en un navegador, sino un XML (u otro formato) que es procesado por el programa
- Las API usan una clave de API y/o tokens de acceso en lugar del nombre de usuario/contraseña para el acceso



1er Paso: Generación de la API Key

<https://dev.elsevier.com/>



The screenshot shows the Elsevier Developers website. At the top, there's a search bar and navigation links: "My API key", "API Specification", "Interactive APIs", "How to Guides", and "FAQ". A green-bordered notice box contains a message about changes to the ScienceDirect Search API. Below this, the "Get started today!" section lists three steps: "1. Look at use cases >", "2. Get API Key > Default API key settings" (highlighted with an orange arrow), and "3. Start coding > Check out our Python SDK, the Interactive APIs and the How to Guides". To the right, the "Product APIs" section lists various API categories. On the bottom right, a login modal is open, showing the Elsevier logo, a "Sign in" heading, and fields for email and password. The email field is pre-filled with "a.migani@elsevier.com". There are checkboxes for "Stay signed in" and a link for "Forgot password?". A blue "Sign in" button is at the bottom of the modal.

Elsevier Developers

My API key API Specification Interactive APIs How to Guides FAQ

NOTICE: Changes are coming to the ScienceDirect Search API! Please see our [migration guide](#) . Article Metadata API **now available!**

Get started today!

Elsevier's API program allows you to integrate content and data from Elsevier products into your own website and applications. [Learn more...](#)

1. Look at use cases >
2. Get API Key > Default API key [settings](#)
3. Start coding > Check out our [Python SDK](#), the [Interactive APIs](#) and the [How to Guides](#)

Product APIs

- About APIs >
- Scopus APIs >
- ScienceDirect APIs >
- SciVal API >
- Engineering Village APIs >
- Embase APIs >
- Geofacets APIs >

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Sign in

Enter your password to sign in to Elsevier Developers

Email
a.migani@elsevier.com

Password
.....

☐ Stay signed in (not recommended for shared devices) [Forgot password?](#)

Sign in

[Sign in with a different account](#)



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1er Paso: Generación de la API Key

<https://dev.elsevier.com/apikey/create>

The screenshot shows the 'Elsevier Developers' website with a navigation bar containing 'My API key', 'API Specification', 'Interactive APIs', 'How to Guides', and 'FAQ'. A 'Sign Out' link is in the top right. The main heading 'Create API Key' is circled in blue. Below it are two input fields: 'Label' with an example 'MyLabel' and 'Website URL' with an example 'http://my.website.com'. Both fields have information icons (i) to their right. Two orange arrows point to the 'Label' and 'Website URL' fields respectively.



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1er Paso: Generación de la API Key

<https://dev.elsevier.com/apikey/manage>

Elsevier Developers

My API key

API Specification

Interactive APIs

How to Guides

FAQ

Sign out

Registered API keys

Create API Key

#	Website URL	Label	API Key
1	http://www.elsevier.com	AnnapaolaAPIKey	a4eb62a9e998d5b2f81f77b96838fdf3

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RELX Group™



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Las APIs interactivas

- La forma más fácil de familiarizarse con las API es a través de las APIs interactivas

<https://dev.elsevier.com/interactive.html>

Elsevier Developers

My API key API Specification **Interactive APIs** How to Guides FAQ

Interactive APIs

The easiest way to get familiar with our APIs is through the interactive swagger examples. You don't need to obtain your own API key for that, just select the API of interest and hit "Try it out!" button. The interactive API will teach you how to construct a request, and you will see the expected response on the spot.

Note: The example API key used in interactive APIs is meant for demonstration purposes only; please obtain and use your own API key with your application. If you'd like to use your own API key with Interactive APIs, you can do so by pasting it into the "apiKey" field. (In case you wonder: by default, APIkeys issued by us are configured for cross-origin resource sharing from <https://dev.elsevier.com> using W3C CORS.)

By function (all products):

- Search Interactive APIs >
- Retrieval Interactive APIs >
- Metadata Interactive APIs >

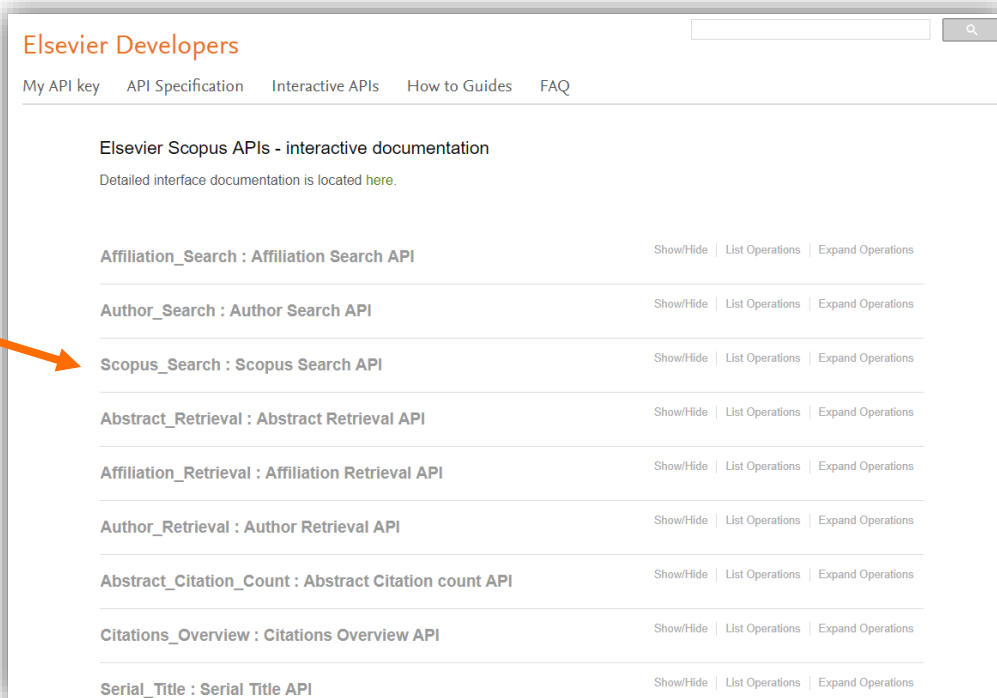
By product:

- Scopus Interactive APIs >**
- ScienceDirect interactive APIs >
- SciVal Interactive APIs >
- Engineering Village Interactive APIs >
- Geofacets Interactive APIs >
- PharmaPendium Interactive APIs >



Las APIs interactivas de Scopus

- Ejemplos:
 1. Búsqueda de Scopus



Elsevier Developers

My API key | API Specification | Interactive APIs | How to Guides | FAQ

Elsevier Scopus APIs - interactive documentation
Detailed interface documentation is located [here](#).

Affiliation_Search : Affiliation Search API	Show/Hide List Operations Expand Operations
Author_Search : Author Search API	Show/Hide List Operations Expand Operations
Scopus_Search : Scopus Search API	Show/Hide List Operations Expand Operations
Abstract_Retrieval : Abstract Retrieval API	Show/Hide List Operations Expand Operations
Affiliation_Retrieval : Affiliation Retrieval API	Show/Hide List Operations Expand Operations
Author_Retrieval : Author Retrieval API	Show/Hide List Operations Expand Operations
Abstract_Citation_Count : Abstract Citation count API	Show/Hide List Operations Expand Operations
Citations_Overview : Citations Overview API	Show/Hide List Operations Expand Operations
Serial_Title : Serial Title API	Show/Hide List Operations Expand Operations

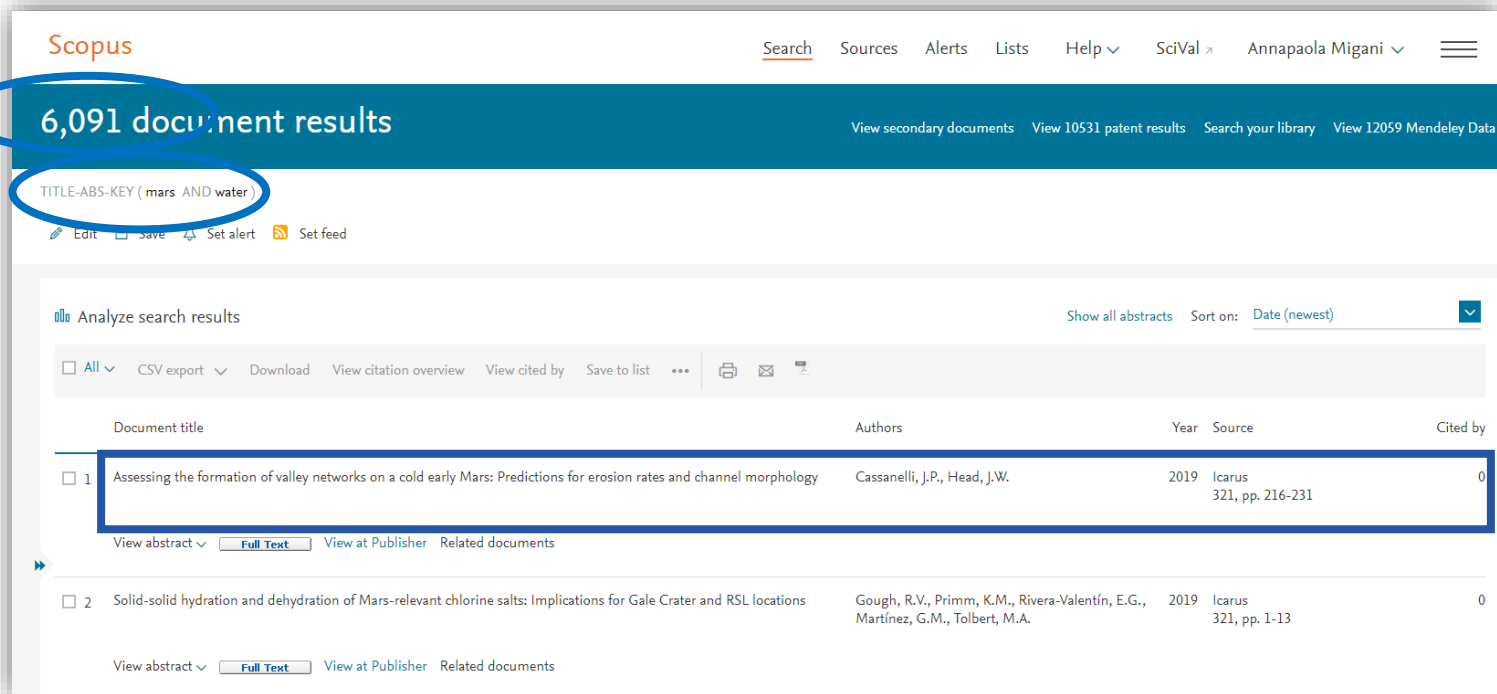
- Necesitamos:
1. Consulta de búsqueda
 2. API Key



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API Búsqueda de Scopus - Scopus Search API



Scopus

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TITLE-ABS-KEY (mars AND water)

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	Document title	Authors	Year	Source	Cited by
☐ 1	Assessing the formation of valley networks on a cold early Mars: Predictions for erosion rates and channel morphology	Cassanelli, J.P., Head, J.W.	2019	Icarus 321, pp. 216-231	0
View abstract Full Text View at Publisher Related documents					
☐ 2	Solid-solid hydration and dehydration of Mars-relevant chlorine salts: Implications for Gale Crater and RSL locations	Gough, R.V., Primm, K.M., Rivera-Valentín, E.G., Martínez, G.M., Tolbert, M.A.	2019	Icarus 321, pp. 1-13	0
View abstract Full Text View at Publisher Related documents					



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API Búsqueda de Scopus - Scopus Search API

Affiliation_Search : Affiliation Search API	Show/Hide	List Operations	Expand Operations
Author_Search : Author Search API	Show/Hide	List Operations	Expand Operations
Scopus_Search : Scopus Search API	Show/Hide	List Operations	Expand Operations
GET /search/scopus Scopus Search API			
Abstract_Retrieval : Abstract Retrieval API	Show/Hide	List Operations	Expand Operations
Affiliation_Retrieval : Affiliation Retrieval API	Show/Hide	List Operations	Expand Operations
Author_Retrieval : Author Retrieval API	Show/Hide	List Operations	Expand Operations
Abstract_Citation_Count : Abstract Citation count API	Show/Hide	List Operations	Expand Operations
Citations_Overview : Citations Overview API	Show/Hide	List Operations	Expand Operations
Serial_Title : Serial Title API	Show/Hide	List Operations	Expand Operations

GET /search/scopus Scopus Search API

Implementation Notes

Scopus search exposes interfaces associated with Scopus search API.
API key in this example was setup with authorized CORS domains.

Response Class (Status 200)

No response was specified

Model | Model Schema

Response Content Type application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
query	TITLE-ABS-KEY (mars AND water)	Scopus search query string	query	string
apiKey	a4eb62a9e998d5b281f77b96838fd3	Your API key	query	string
httpAccept		Requested content type, overrides HTTP header value	query	string
insttoken		Specification for authorization, institution auth token	query	string
access_token		Specification for active session, secured auth token	query	string

[Try it out!](#)

Request URL

`https://api.elsevier.com/content/search/scopus?query=TITLE-ABS-KEY(%20mars%20AND%20water%20)%20&apiKey=a4eb62a9e998d5b281f77b96838fd3`



Un curso práctico y intensivo sobre las API de Scopus

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Query

TITLE-ABS-KEY (mars AND water)

URL encoding

TITLE-ABS-KEY%20(%20mars%20AND%20water%20)

API Búsqueda de Scopus - Scopus Search API

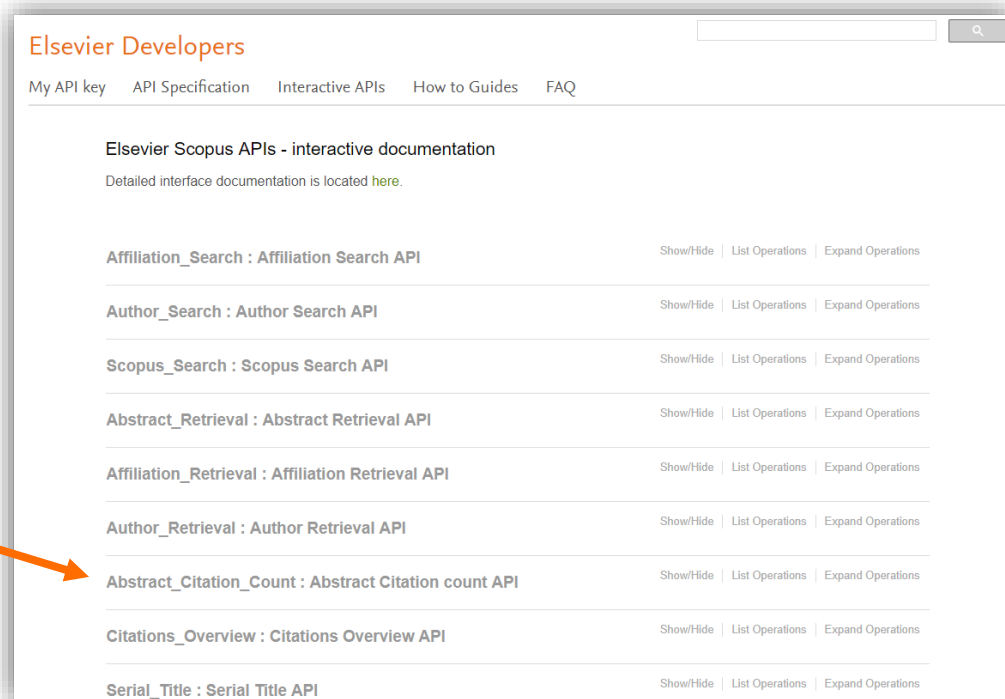
- [https://api.elsevier.com/content/search/scopus?query=TITLE-ABS-KEY%20\(%20mars%20AND%20water%20\)&apiKey=a4eb62a9e998d5b2f81f77b96838fdf3](https://api.elsevier.com/content/search/scopus?query=TITLE-ABS-KEY%20(%20mars%20AND%20water%20)&apiKey=a4eb62a9e998d5b2f81f77b96838fdf3)

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<search-results xmlns="http://www.w3.org/2005/Atom" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:opensearch="http://a9.com/-/spec/opensearch/1.1/" xmlns:prism="http://prismstandard.org/namespaces/basic/2.0/">
  <opensearch:totalResults>6091</opensearch:totalResults>
  <opensearch:startIndex>0</opensearch:startIndex>
  <opensearch:itemsPerPage>25</opensearch:itemsPerPage>
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      <affiliation>country:United States</affiliation>
    </prism:affiliation>
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    <prism:subTypeDescription>Article</prism:subTypeDescription>
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    <openaccess>0</openaccess>
    <openaccessFlag>false</openaccessFlag>
  </entry>
</search-results>
```



Las APIs interactivas de Scopus



Elsevier Developers

My API key | API Specification | Interactive APIs | How to Guides | FAQ

Elsevier Scopus APIs - interactive documentation
Detailed interface documentation is located [here](#).

Affiliation_Search : Affiliation Search API	Show/Hide List Operations Expand Operations
Author_Search : Author Search API	Show/Hide List Operations Expand Operations
Scopus_Search : Scopus Search API	Show/Hide List Operations Expand Operations
Abstract_Retrieval : Abstract Retrieval API	Show/Hide List Operations Expand Operations
Affiliation_Retrieval : Affiliation Retrieval API	Show/Hide List Operations Expand Operations
Author_Retrieval : Author Retrieval API	Show/Hide List Operations Expand Operations
Abstract_Citation_Count : Abstract Citation count API	Show/Hide List Operations Expand Operations
Citations_Overview : Citations Overview API	Show/Hide List Operations Expand Operations
Serial_Title : Serial Title API	Show/Hide List Operations Expand Operations

- Ejemplos:
 1. Búsqueda de Scopus
 2. Recuento de Citas

Necesitamos:

1. DOI Publicación
2. API Key



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API Recuento de Citas - Citation Count API

Scopus

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PLoS ONE [Open Access](#)
Volume 6, Issue 9, 9 September 2011, Article number e24531

A Gateway Multisite recombination cloning toolkit (Article) [\(Open Access\)](#)

Petersen, L.K., Stowers, R.S. [E-mail](#) [Profile](#)

Department of Cell Biology and Neuroscience, Montana State University, Bozeman, MT, United States

Metrics [View all metrics](#)

45 Citations in Scopus

2.09 Field-Weighted Citation Impact

PlumX Metrics
Usage, Captures, Mentions,
Social Media and Citations
beyond Scopus.

ISSN: 19326203

Source Type: Journal

Original language: English

DOI: [10.1371/journal.pone.0024531](#)

PubMed ID: 21931740

Document Type: Article

10/11/2019

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API Recuento de Citas - Citation Count API

Affiliation_Search : Affiliation Search API[Show/Hide](#) [List Operations](#) [Expand Operations](#)

Author_Search : Author Search API[Show/Hide](#) [List Operations](#) [Expand Operations](#)

Scopus_Search : Scopus Search API[Show/Hide](#) [List Operations](#) [Expand Operations](#)

Abstract_Retrieval : Abstract Retrieval API[Show/Hide](#) [List Operations](#) [Expand Operations](#)

Affiliation_Retrieval : Affiliation Retrieval API[Show/Hide](#) [List Operations](#) [Expand Operations](#)

Author_Retrieval : Author Retrieval API[Show/Hide](#) [List Operations](#) [Expand Operations](#)

Abstract_Citation_Count : Abstract Citation count API[Show/Hide](#) [List Operations](#) [Expand Operations](#)

Citations_Overview : Citations Overview API[Show/Hide](#) [List Operations](#) [Expand Operations](#)

Serial_Title : Serial Title API[Show/Hide](#) [List Operations](#) [Expand Operations](#)

GET /abstract/citation-count [Cited by in Scopus image](#)

Implementation Notes

Abstract Citation Count API retrieves Cited by in Scopus image given one of the article identifiers (DOI, PII, pubmed_id) passed in as query parameter. Optionally, an arbitrary combination of applicable ISSN, ISBN, volume, issue, title, page parameters can be provided to identify the article. API key in this example was setup with authorized CORS domains

Response Class (Status 200)

No response was specified

Model **Model Schema**

Response Content type **image/jpeg**

Parameters

Parameter	Value	Description	Parameter Type	Data Type
doi	10.1371/journal.pone.0024531	DOI document identifier. Example: 10.1016/S0014-5793(01)03313-0	query	string
pii		PII document identifier. Example: S0014579301033130	query	string
pubmed_id		MEDLINE/pubmed_id document identifier. Example: 11852950	query	string
apiKey	a4eb62a9e998d5b2f81f7b96838fd3	Your API key	query	string
httpAccept		Requested content type, overrides HTTP header value	query	string
insttoken		Specification for authorization, institution auth token	query	string
access_token		Specification for active session, secured auth token	query	string

[Try it out!](#) [Response](#)

Request URL

```
https://api.elsevier.com/content/abstract/citation-count?doi=10.1371%2Fjournal.pone.0024531&apiKey=a4eb62a9e998d5b2f81f7b96838fd3
```



Un curso práctico y intensivo sobre las API de Scopus

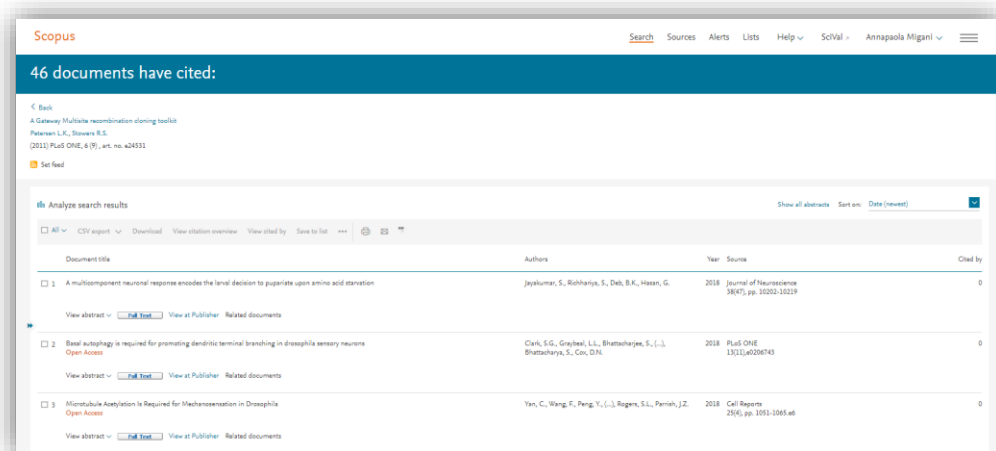
10/11/2019

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API Recuento de Citas - Citation Count API

- La API de recuento de citas devuelve Cited by en la imagen de Scopus dado uno de los identificadores de artículo (DOI, PII, pubmed_ID) que se ingresaron como parámetro de consulta.
- <https://api.elsevier.com/content/abstract/citation-count?doi=10.1371/journal.pone.0024531&apiKey=a4eb62a9e998d5b2f81f77b96838fdf3>

Cited 45 times in Scopus



Document title	Authors	Year	Source	Cited by
1 A multicomponent neuronal response encodes the lernal decision to pupariate upon amino acid starvation	Jeykumar, S., Rohkanya, S., Deb, B.K., Hasan, G.	2018	Journal of Neuroscience 38(47), pp. 10202-10219	0
2 Basal autophagy is required for promoting dendritic terminal branching in drosophila sensory neurons	Clark, S.G., Graybeal, L.L., Bhattacharya, S., ... Bhattacharya, S., Cox, D.N.	2018	PLoS ONE 13(11):e0206743	0
3 Mitochondrial Acetylation Is Required for Mechanosensation in Drosophila	Yan, C., Wang, F., Peng, Y., ... Rogers, S.L., Parrish, J.Z.	2018	Cell Reports 24(6), pp. 1051-1065.e6	0

Ejemplo de uso API de recuento de citas para web institucional

- Neurology, Baylor College of Medicine (BCM)
- <https://www.bcm.edu/neurology-apps/pubsTEST.cfm?section=dngl>

Neurology

[Baylor College of Medicine](#) > [Departments](#) > [Neurology](#) > [Research](#) > [Journal Articles](#) > [DNGL](#)

Journal Articles – Developmental Neurogenetics Laboratory

Click on the  sign to list the journal publications by year. Then click on the PubMed link for details of that publication.

 2018

[Collapse All](#) | [Expand All](#)

- Chen C, Holth JK, Bunton-Stasyshyn R, Anumonwo CK, Meisler MH, Noebels JL, et al. Mapt deletion fails to rescue premature lethality in two models of sodium channel epilepsy. Ann Clin Transl Neurol. 2018;5(8):982-7. PMID: 30128323. [\[view publication\]](#)

Cited 0 times in **Scopus**

- Frasier CR, Zhang H, Offord J, Dang LT, Auerbach DS, Shi H, et al. Channelopathy as a SUDEP Biomarker in Dravet Syndrome Patient-Derived Cardiac Myocytes. Stem Cell Reports. 2018;; PMID: 30146492. [\[view publication\]](#)

Cited 0 times in **Scopus**

- Meyer J, Maheshwari A, Noebels J, Smirnakis S. Asynchronous suppression of visual cortex during absence seizures in stargazer mice. Nat Commun. 2018;9(1):1938. PMID: 29769525. [\[view publication\]](#)

Cited 0 times in **Scopus**



Ejemplo de uso API de recuento de citas para web Journal

- PLOS proporciona datos de citas de cada artículo según Scopus

The screenshot shows the PLOS ONE website interface. At the top, there's a navigation bar with the PLOS ONE logo, links for PUBLISH, ABOUT, and BROWSE, a search bar, and links for plos.org, create account, and sign in. Below the navigation bar, the article title 'A Gateway MultiSite Recombination Cloning Toolkit' is displayed, along with the authors 'Lena K. Petersen, R. Steven Stowers' and the publication date 'Published: September 9, 2011'. A table of metrics is shown on the right side of the article, with the 'Citation' count of 44 highlighted by an orange box. The table also includes 'Save' (187), 'View' (26,335), and 'Share' (0). Below the metrics table, there are tabs for Article, Authors, Metrics, Comments, and Media Coverage, with the Metrics tab selected. A 'Download PDF' button is also visible.

Article	Authors	Metrics	Comments	Media Coverage
		187 Save 26,335 View 44 Citation		

<https://journals.plos.org/plosone/article/metrics?id=10.1371/journal.pone.0024531>

The screenshot shows the 'Cited' section of the article, which displays citation counts from various databases. The 'SCOPUS' database is highlighted with an orange box, showing a count of 44. Other databases shown include crossref (30), Europe PubMed Central (17), Europe PubMed Central Database Citations (29), and Google Scholar (Search). The 'Cited' section is titled 'Cited ?' and includes a question mark icon.

Database	Citation Count
SCOPUS	44
crossref	30
Europe PubMed Central	17
Europe PubMed Central Database Citations	29
Google Scholar	Search



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Enlace externo a la página de Scopus

Cited ?

SCOPUS 44	crossref 30	Europe PubMed Central 17	Europe PubMed Central Database Citations 29	Google scholar Search
--------------	----------------	-----------------------------	---	--------------------------

45 documents have cited:

A Gateway Multisite recombination cloning toolkit
Peterson L.K., Stowers R.S.
(2011) PLoS ONE, 6 (9), art. no. e24531
Set feed

Search within results...

Refine results

Limit to Exclude

Access type

Year

2018 (3) >

2017 (8) >

Analyze search results

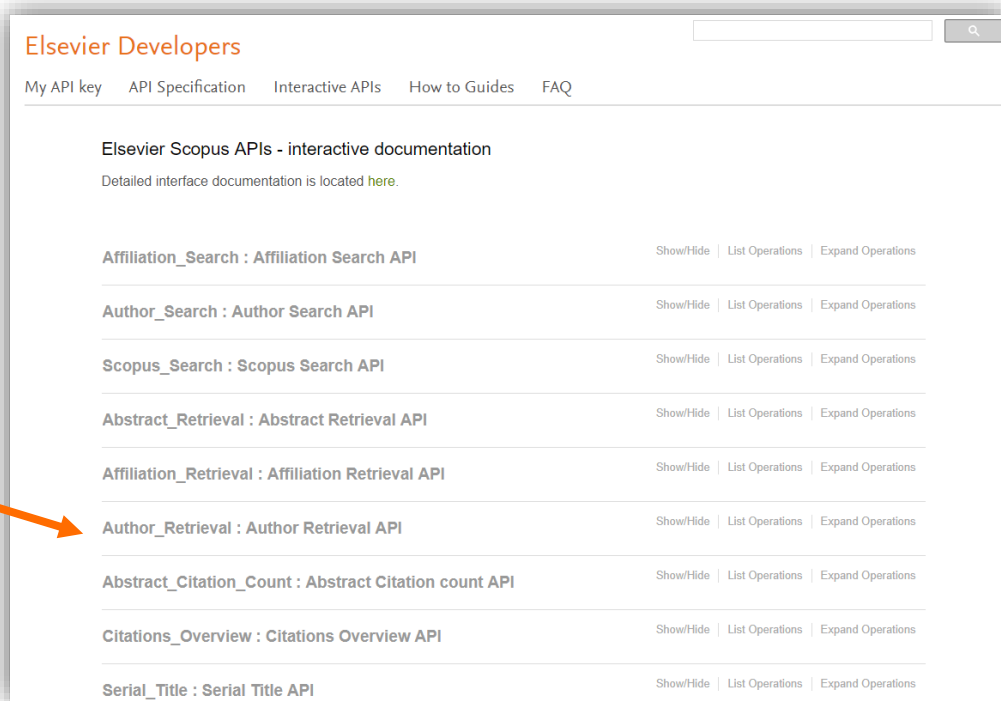
Show all abstracts Sort on: Date (newest)

Document title Authors Year Source Cited by

Basal autophagy is required for promoting dendritic terminal branching in drosophila sensory neurons Open Access	Clark, S.G., Graybeal, L.L., Bhattacharjee, S., (...), Bhattacharya, S., Cox, D.N.	2018	PLoS ONE 13(11),e0206743	0
---	--	------	--------------------------	---

View abstract View at Publisher Related documents

Las APIs interactivas de Scopus: Ejemplo 3



Elsevier Developers

My API key | API Specification | Interactive APIs | How to Guides | FAQ

Elsevier Scopus APIs - interactive documentation
Detailed interface documentation is located [here](#).

Affiliation_Search : Affiliation Search API	Show/Hide List Operations Expand Operations
Author_Search : Author Search API	Show/Hide List Operations Expand Operations
Scopus_Search : Scopus Search API	Show/Hide List Operations Expand Operations
Abstract_Retrieval : Abstract Retrieval API	Show/Hide List Operations Expand Operations
Affiliation_Retrieval : Affiliation Retrieval API	Show/Hide List Operations Expand Operations
Author_Retrieval : Author Retrieval API	Show/Hide List Operations Expand Operations
Abstract_Citation_Count : Abstract Citation count API	Show/Hide List Operations Expand Operations
Citations_Overview : Citations Overview API	Show/Hide List Operations Expand Operations
Serial_Title : Serial Title API	Show/Hide List Operations Expand Operations

- Ejemplos:
- 1. Búsqueda de Scopus
- 2. Recuento de Citas
- 3. Recuperación de autor

Necesitamos:

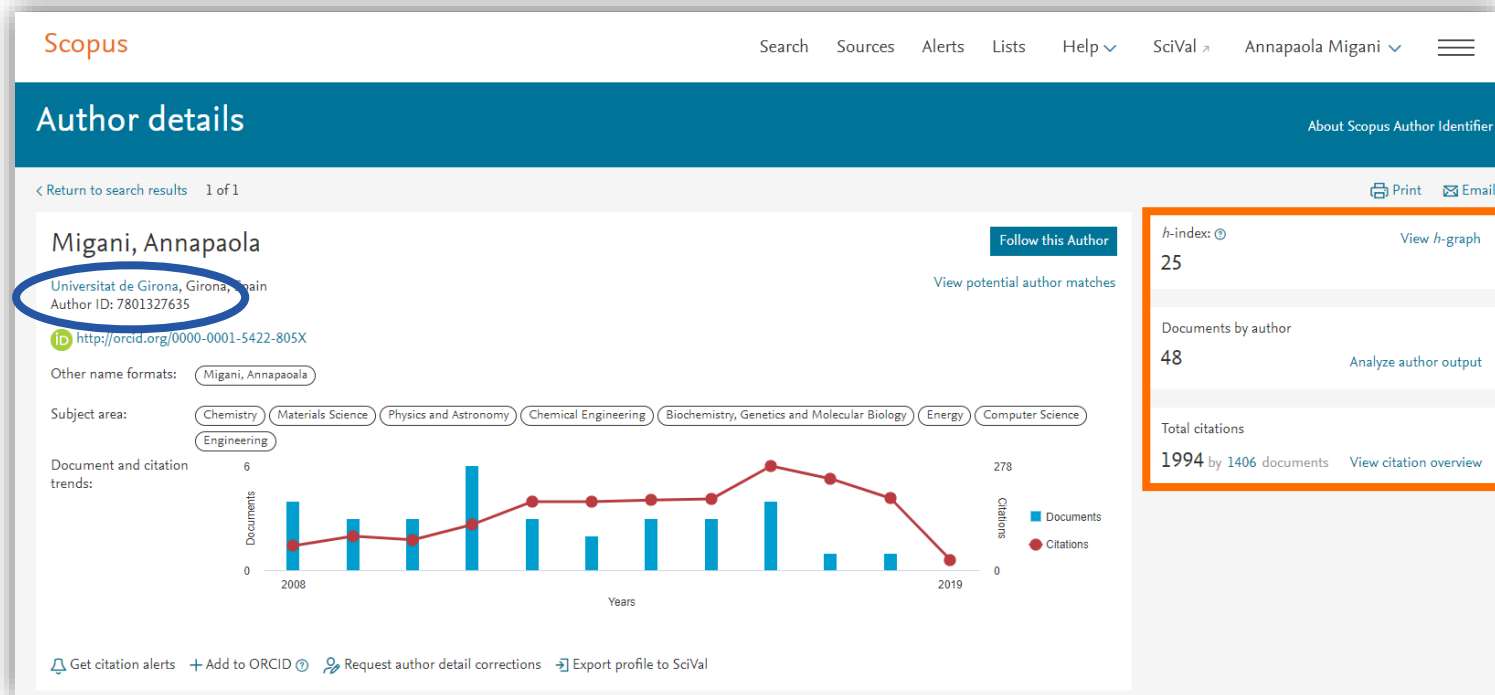
1. Identificación de autor
2. API Key



Un curso práctico y intensivo sobre las API de Scopus

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API Recuperación de autor - Author Retrieval API



API Recuperación de autor - Author Retrieval API

Affiliation_Search : Affiliation Search API

Show/Hide | List Operations | Expand Operations

Author_Search : Author Search API

Show/Hide | List Operations | Expand Operations

Scopus_Search : Scopus Search API

Show/Hide | List Operations | Expand Operations

Abstract_Retrieval : Abstract Retrieval API

Show/Hide | List Operations | Expand Operations

Affiliation_Retrieval : Affiliation Retrieval API

Show/Hide | List Operations | Expand Operations

Author_Retrieval : Author Retrieval API

Show/Hide | List Operations | Expand Operations

GET /author/eid/{eid}

Author Retrieval API

GET /author/author_id/{author_id}

Author Retrieval API

Abstract_Citation_Count : Abstract Citation count API

Show/Hide | List Operations | Expand Operations

Citations_Overview : Citations Overview API

Show/Hide | List Operations | Expand Operations

Serial_Title : Serial Title API

Show/Hide | List Operations | Expand Operations

GET /author/author_id/{author_id} Author Retrieval API

Implementation Notes

Author retrieval exposes interfaces associated with Scopus Author profile. API key in this example was setup with authorized CORS domains.

Response Class (Status 200)

No response was specified

Model: Model Schema

{ }

Response Content Type: text/xml

Parameters

Parameter	Value	Description	Parameter Type	Data Type
author_id	7801327635	author_id value	path	string
apiKey	a4eb62a9e998d5b2f81f77b96838fdf3	Your API key	query	string
httpAccept		Requested content type, overrides HTTP header value	query	string
insttoken		Specification for authorization, institution auth token	query	string
access_token		Specification for active session, secured auth token	query	string

[Try it out!](#) [View Response](#)

Request URL

https://api.elsevier.com/content/author/author_id/7801327635?apiKey=a4eb62a9e998d5b2f81f77b96838fdf3



Un curso práctico y intensivo sobre las API de Scopus

10/11/2019

API Recuperación de autor - Author Retrieval API

- https://api.elsevier.com/content/author/author_id/7801327635?apiKey=a4eb62a9e998d5b2f81f77b96838fdf3

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<author-retrieval-response xmlns:ait="http://www.elsevier.com/xml/ani/ait" xmlns:ce="http://www.elsevier.com/xml/ani/common" xmlns:cto="http://www.elsevier.com/xml/cto/dtd" xmlns:dc="http://pur
xmlns:ns1="http://webservices.elsevier.com/schemas/search/fast/types/v4" xmlns:prism="http://prismstandard.org/namespaces/basic/2.0/" xmlns:xoc="http://www.elsevier.com/xml/xocs/dtd"
xmlns:xoe="http://www.elsevier.com/xml/xoe/dtd" status="found">
  <coredata>
    <prism:url>
      http://api.elsevier.com/content/author/author_id/7801327635
    </prism:url>
    <dc:identifier>AUTHOR_ID:7801327635</dc:identifier>
    <eid>9-s2.0-7801327635</eid>
    <orcid>0000-0001-5422-805X</orcid>
    <document-count>49</document-count>
    <cited-by-count>1410</cited-by-count>
    <citation-count>2002</citation-count>
    <link href="http://api.elsevier.com/content/author/author_id/7801327635" rel="self"/>
    <link href="http://api.elsevier.com/content/search/scopus?query=au-id%287801327635%29" rel="search"/>
  </coredata>
  <affiliation-current id="60009952" href="http://api.elsevier.com/content/affiliation/affiliation_id/60009952"/>
  <affiliation-history>
    <affiliation id="60103742" href="http://api.elsevier.com/content/affiliation/affiliation_id/60103742"/>
    <affiliation id="60100392" href="http://api.elsevier.com/content/affiliation/affiliation_id/60100392"/>
    <affiliation id="60023020" href="http://api.elsevier.com/content/affiliation/affiliation_id/60023020"/>
    <affiliation id="60006754" href="http://api.elsevier.com/content/affiliation/affiliation_id/60006754"/>
    <affiliation id="115961694" href="http://api.elsevier.com/content/affiliation/affiliation_id/115961694"/>
    <affiliation id="114686218" href="http://api.elsevier.com/content/affiliation/affiliation_id/114686218"/>
    <affiliation id="60103735" href="http://api.elsevier.com/content/affiliation/affiliation_id/60103735"/>
    <affiliation id="60001576" href="http://api.elsevier.com/content/affiliation/affiliation_id/60001576"/>
  </affiliation-history>
```



Ejemplo de uso API API Recuperación de autor

- <http://hub.hku.hk/cris/rp/rp01362/bibliometrics.htm>
- Con enlaces a Scopus (ya no funciona)

The University of Hong Kong
The HKU Scholars Hub 香港大學學術庫

Home Publications Researchers Organizations Grants Datasets Theses Patents Community Service

Dr Lu, Weisheng 呂偉生

Title: Associate Professor
Department: Faculty of Architecture
Department of Real Estate and Construction
Faculty of Architecture

External Metrics

ResearcherID	Author ID	E-2899-2010
	Document Count	6
	Times Cited	224
	Co-authors	Collaboration Network
	h-Index	6
Scopus	Author ID	24173836000
	Document Count	94
	Total Citations	1533
	h-Index	23
	Co-authors	98

Estructura de la url

- Una petición API es un recurso Web identificado por una URL (localizador uniforme de recurso) única
- Las URL se construyen de la siguiente manera:
 - ✓ Parte fija: `http://api.elsevier.com/content`
 - ✓ Parte central que depende de la acción: `Búsqueda/Recuperación/Metadatos`
 - ✓ Parte final que depende de lo que se está buscando/recuperando
- Parámetros de consulta
 - ✓ Clave API, consulta de búsqueda, paginación, clasificación, campos a devolver, ...
 - ✓ Se separan de la URL base por un `?`
 - ✓ Formato nombre = valor
 - ✓ Se separan mediante un `&`, el orden no importa
 - ✓ La clave API es un parámetro obligatorio
- Más documentación en https://dev.elsevier.com/api_docs.html



Ejemplo url #1

Solicitud de consulta de documentos de U. Rochester ordenados por número de citas

[https://api.elsevier.com/content/search/scopus?query=af-id\(60027165\)&sort=citedby-count&start=0&count=25&apiKey=a4eb62a9e998d5b2f81f77b96838fdf3](https://api.elsevier.com/content/search/scopus?query=af-id(60027165)&sort=citedby-count&start=0&count=25&apiKey=a4eb62a9e998d5b2f81f77b96838fdf3)

Parámetros y campos

query – Parámetro de consulta

af-id(60027165) – Campo de la afiliación con U. Rochester Scopus ID

sort – Ordenar por el número de citas

start – Índice del primer registro para mostrar

count – Número de resultados incluidos en la respuesta

apiKey – Identificador único para autenticar la solicitud



Ejemplo url #2

h-índice y citas de un autor de U. Rochester

https://api.elsevier.com/content/author/author_id/35226976800?view=metrics&apiKey=a4eb62a9e998d5b2f81f77b96838fdf3

Parámetros y campos

view – Especifica un subconjunto predefinido de datos de Scopus

apiKey – Identificador único para autenticar la solicitud

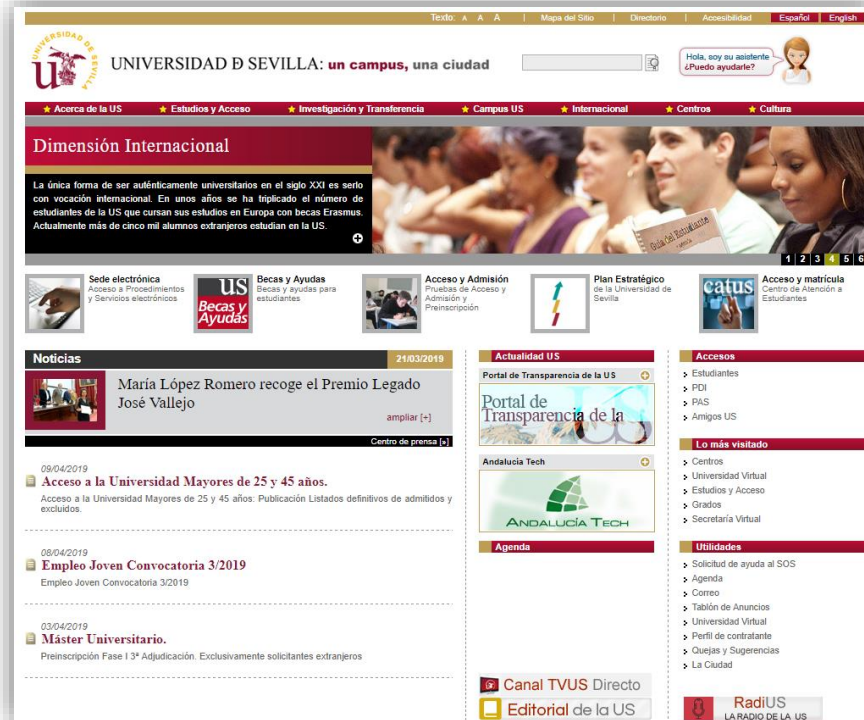
Notas

En el ejemplo, la API Recuperación de autor (Author Retrieval API) utiliza la identificación de autor Scopus (Scopus author ID) resultante de la búsqueda anterior de documentos de la U. Rochester. Este es un flujo de trabajo habitual con las APIs que destaca la vinculación entre los datos.



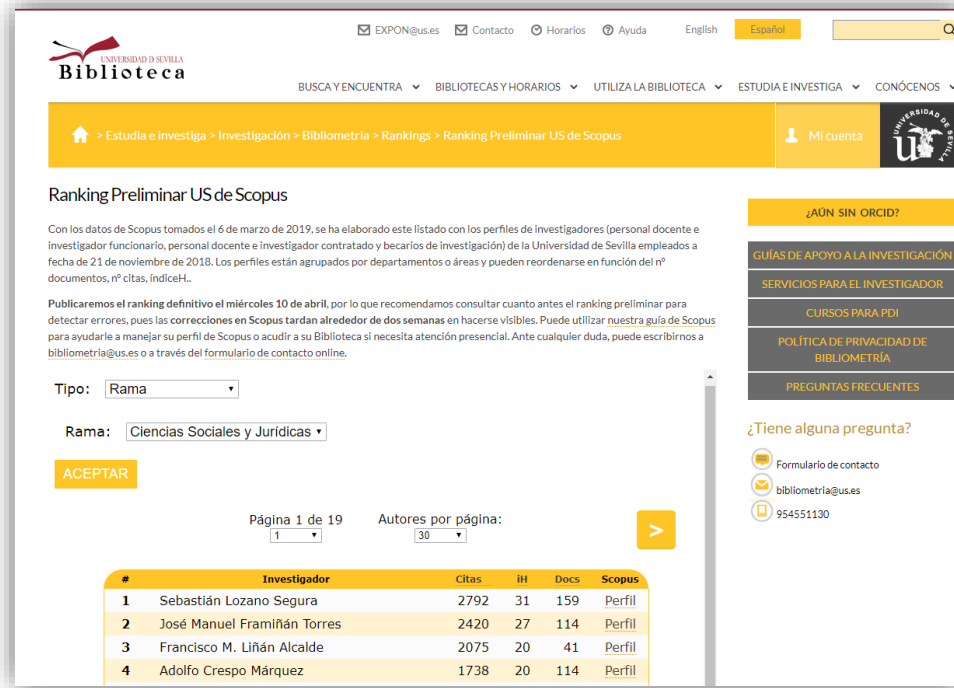
Ejemplo uso APIs Scopus Universidad de Sevilla

- <http://www.us.es/>



Clasificación de los autores de US usando las métricas de Scopus

- https://bib.us.es/estudia_e_investigacion/bibliometria/ranking-s/ranking-scopus
- Felicidades Sevilla!



UNIVERSIDAD DE SEVILLA
Biblioteca

BUSCA Y ENCUENTRA ▾ BIBLIOTECAS Y HORARIOS ▾ UTILIZA LA BIBLIOTECA ▾ ESTUDIA E INVESTIGA ▾ CONÓCEMOS ▾

> Estudia e investiga > Investigación > Bibliometría > Rankings > Ranking Preliminar US de Scopus

Ranking Preliminar US de Scopus

Con los datos de Scopus tomados el 6 de marzo de 2019, se ha elaborado este listado con los perfiles de investigadores (personal docente e investigador funcionario, personal docente e investigador contratado y becarios de investigación) de la Universidad de Sevilla empleados a fecha de 21 de noviembre de 2018. Los perfiles están agrupados por departamentos o áreas y pueden reordenarse en función del nº documentos, nº citas, índiceH.

Publicaremos el ranking definitivo el miércoles 10 de abril, por lo que recomendamos consultar cuanto antes el ranking preliminar para detectar errores, pues las correcciones en Scopus tardan alrededor de dos semanas en hacerse visibles. Puede utilizar nuestra guía de Scopus para ayudarlo a manejar su perfil de Scopus o acudir a su Biblioteca si necesita atención presencial. Ante cualquier duda, puede escribirnos a bibliometria@us.es o a través del formulario de contacto online.

Tipo:

Rama:

ACEPTAR

Página 1 de 19 Autores por página:

#	Investigador	Citas	IH	Docs	Scopus
1	Sebastián Lozano Segura	2792	31	159	Perfil
2	José Manuel Framiñán Torres	2420	27	114	Perfil
3	Francisco M. Liñán Alcalde	2075	20	41	Perfil
4	Adolfo Crespo Márquez	1738	20	114	Perfil

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Formulario de contacto

bibliometria@us.es

954551130

Ejemplo url #3

Solicitud de consulta de artículos, revisiones y actas congresos de Francia entre 2010 y 2014 ordenados por número de citas descendentes

[http://api.elsevier.com/content/search/scopus?apiKey=a4eb62a9e998d5b2f81f77b96838fdf3&query=affilcountry\(france\) and pubyear aft 2009 and pubyear bef 2015 and \(doctype\(ar\) or doctype\(re\) or doctype\(cp\)\)&field=eid,title,citedby-count&sort=-citedby-count&count=200](http://api.elsevier.com/content/search/scopus?apiKey=a4eb62a9e998d5b2f81f77b96838fdf3&query=affilcountry(france) and pubyear aft 2009 and pubyear bef 2015 and (doctype(ar) or doctype(re) or doctype(cp))&field=eid,title,citedby-count&sort=-citedby-count&count=200)

Parámetros y campos

query – Equivalente a búsqueda avanzada en Scopus

field – Devuelve los campos seleccionados separados por comas

sort – Ordenar por el número de citas

count – Número de resultados incluidos en la respuesta

apiKey – Identificador único para autenticar la solicitud



Continuación Ejemplo url #3

Ahora la segunda página de resultados

[http://api.elsevier.com/content/search/scopus?apiKey=a4eb62a9e998d5b2f81f77b96838fdf3&query=affilcountry\(france\) and pubyear aft 2009 and pubyear bef 2015 and \(doctype\(ar\) or doctype\(re\) or doctype\(cp\)\)&field=eid,title,citedby-count&sort=-citedby-count&count=200&start=200](http://api.elsevier.com/content/search/scopus?apiKey=a4eb62a9e998d5b2f81f77b96838fdf3&query=affilcountry(france) and pubyear aft 2009 and pubyear bef 2015 and (doctype(ar) or doctype(re) or doctype(cp))&field=eid,title,citedby-count&sort=-citedby-count&count=200&start=200)



Restricciones técnicas

Configuración por defecto:

https://dev.elsevier.com/api_key_settings.html

- Los suscriptores obtienen más datos que los no suscriptores

- ✓ Registros de Scopus:

No suscriptores: metadatos de citas básicos, primer autor, recuento de citas, enlaces a Scopus. Suscriptores: eso más el resumen, todos los autores, afiliaciones, referencias, palabras clave del autor, subárea, etc.

- ✓ Perfiles de autor:

disponible para suscriptores pero no para no suscriptores

- Controlamos las APIs con un mecanismo de autenticación IP más la configuración de las API

- ✓ Autenticación a través de la dirección IP y a veces insttoken (https://dev.elsevier.com/tecdoc_api_authentication.html)

- ✓ Acceso a las APIs habilitado o deshabilitado

- ✓ Contactar con Integration Support Team para autorización y/o ampliación cuota por defecto

Scopus APIs					
#	API Name	Enabled or Disabled	Non-subscriber	Subscriber	Weekly Quota Requests/second
1	Serial Title	Enabled	STANDARD, COVERIMAGE views / Default 25 results / Max 200 results	STANDARD, COVERIMAGE, ENHANCED Default 25 results / Max 200 results	20,000 3
2	Citations Count Metadata	Disabled	N/A	STANDARD view / Default 25 results / Max 200 results	50,000 18
3	Citations Overview	Disabled	N/A	STANDARD view / Default 25 results / Max 200 results	20,000 3
4	Subject Classifications	Enabled	No restrictions	No restrictions	N/A N/A
5	Abstract Retrieval	Enabled	META view	All views, default FULL view	10,000 6
6	Affiliation Retrieval	Enabled	N/A	All views, default STANDARD view	5,000 6
7	Author Retrieval	Enabled	N/A	All views, default STANDARD view	5,000 3
8	Affiliation Search	Enabled	N/A	Default 25 results / Max 200 results	5,000 3
9	Author Search	Enabled	N/A	Default 25 results / Max 200 results	5,000 3
10	Scopus Search	Enabled	STANDARD view / Default 25 results	STANDARD view / Max 200 results COMPLETE view / Max 25 results COMPONENT view / Max 25 results	20,000 6
11	Author Feedback	Disabled	N/A	N/A	N/A N/A



Restricciones legales: las políticas de casos de uso

https://dev.elsevier.com/use_cases.html

- ¿Quién es el cliente: académico, gubernamental, o corporativo?
- ¿Cuál es el objetivo de su proyecto?
- ¿Con qué política de uso encaja su objetivo?

Elsevier Developers

My API key API Specification Interactive APIs How to Guides FAQ

Use cases

The use of Elsevier APIs is tied to the specific use case and corresponding policy. An easy way of finding the appropriate policy is by identifying your use case first. If you do not find your use case below, please write a short use case description and [contact us](#).

- Academic Research >
- IRs and CRIS systems (incl. VIVO) >
- Cited by in Scopus >
- Text Mining >
- Federated Search >
- Journal Metrics >
- SciVal metrics >
- ScienceDirect article info >
- ScienceDirect journal info >
- Engineering Village >
- Commercial Use >

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Un curso practico y intensivo sobre las API de Scopus

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Política de uso de Investigación Académica

<https://www.sciencedirect.com/science/article/pii/S0023643815303273>

Academic Research

Elsevier allows access to the Scopus APIs in support of academic research for researchers affiliated with a Scopus subscribing institution.

Detailed policy: [show/hide](#)

Definition: The end product is a scholarly published work that utilizes publications in Scopus for a research effort. The researcher wants to publish a scholarly work regarding Scopus data relationships.

Examples:

- Analysis of abstract cited-by counts across a specific, singular academic discipline.
- Relationship between authors' geographic locations and their academic affiliations.
- Analysis of the relationship of citing works from a limited set of publications.

We allow this use case under the following conditions:

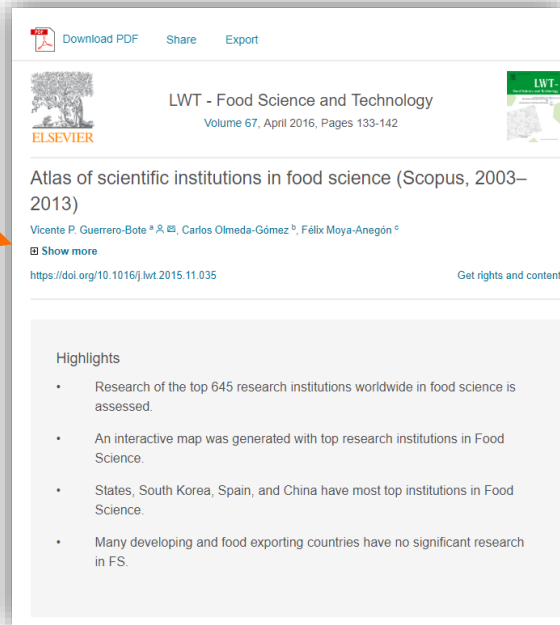
- Research is for non-commercial, academic purposes only - no commercial, government or funding body access is permitted.
- Research is to be performed by approved representative of the applying institution - no 3rd party or consultant access is permitted.
- Research is limited in scope to a specific discipline - no mining of the entire Scopus dataset is permitted.
- Retention of original research dataset is limited to archival purposes and reproduction of the research results. Data use outside of the scope of the original research is not permitted.
 - Public sharing of data for purpose of reproducibility with a specific party is permissible upon written request and explicit written approval.
- Scopus is identified as the data source as described in the [Scopus Attribution Guide](#).
 - If user is a bibliometrician doing work outside this use case, please contact integration support team at integrationsupport@elsevier.com with detailed description of your use case.

This use case does not allow:

- Display of Scopus data on a website or in any other public forum outside of the output format of the scholarly published work.

Permitted metadata (fields other than those listed are explicitly prohibited in this use case):

1. Record IDs (Scopus ID and/or EID)
2. DOI
3. PubMed ID
4. The Scopus author IDs of the authors of the document (this includes the IDs for co-authors of the document not affiliated with the institute)
5. Abstract
6. Authors' names
7. Author IDs (ORCID ids)
8. Authors' countries of residence
9. Authors' affiliations
10. Author Profile



The screenshot shows the article page for 'Atlas of scientific institutions in food science (Scopus, 2003–2013)' in the journal 'LWT - Food Science and Technology'. The page includes a download PDF button, share and export options, and a list of authors: Vicente P. Guerrero-Bote, Carlos Olmeda-Gómez, and Félix Moya-Aneón. A 'Show more' button is also present. The DOI link is <https://doi.org/10.1016/j.lwt.2015.11.035>. The 'Highlights' section lists four key findings: research of 645 institutions worldwide is assessed; an interactive map was generated; South Korea, Spain, and China have the most top institutions; and many developing and food exporting countries have no significant research in food science.



Un curso práctico y intensivo sobre las API de Scopus

10/11/2019

Política de uso de Repositorio Académico o Sistema CRIS

IR/CRIS/VIVO

Definition: the client application is:

- An institutional repository (IR) in which the institution's research output is captured by storing a record / version of each article or chapter written by its researchers, and/or
- Current research information system (CRIS) that tracks an institution's research performance by, amongst others, capturing each article or chapter written by its researchers, and/or
- A local VIVO installation (<http://vivoweb.org/> about, <http://vivo.sourceforge.net/>) in which an institute's researchers are profiled. These researcher profiles often need to be complemented with their publication
- Other internal reporting systems that track research output, similar to the above

Elsevier supports institutions who want to enhance their institutional repository (IR), current research information system (CRIS) or local VIVO installation (<http://vivoweb.org/> about, <http://vivo.sourceforge.net/>) with Scopus APIs, ScienceDirect APIs or a combination of the two.

The table below indicates the repository objectives for IR/CRIS/VIVO client applications using :

Detailed policy for Scopus: [show/hide](#)

Detailed policy for ScienceDirect: [show/hide](#)

Detailed policy for SciVal: [show/hide](#)



Qué hacer cuando el caso de uso no está contemplado en las políticas de uso existentes

- En la mayoría de los casos, el caso de uso encaja y se describe dentro de una política de uso standard y se puede llevar al cabo con la configuración por defecto de las APIs: ¡Hágalo usted mismo!
- Cuando no es así, hay que contactar con Integration Support Team

Attention Subscribers:

If you find that the default API key settings are not sufficient for your application, please contact our [integration support team](#). Include the following information in your e-mail:

- Full name of your institution
- Your API key
- A brief description of your [use case](#)

and let us know how we can help you.

Tip: Use your institutional e-mail address to contact us; doing so will help us validate your affiliation with an institution that subscribes to Elsevier products.



Resumen

- Scopus proporciona una variedad de APIs que potencian la integración y visibilidad de los datos de investigación
- Son de uso gratuito para fines no comerciales, siempre que se respeten las políticas de uso
- No es necesario suscribir Scopus para usar sus APIs, pero con la suscripción se obtienen más datos
- Si se trabaja para una institución que suscribe Scopus y se requieren más funcionalidades que las ofrecidas por defecto, se puede solicitar la ampliación a Integration Support Team.
- ¿Cuáles son los usos comunes de las APIs?
 - ✓ Integración de recuento de citas de resumen de documentos en páginas web institucionales o corporativas, p.ej. Plos
 - ✓ "Federated search": integración de resultados de búsqueda de Scopus y Science Direct en aplicaciones federadas



Para saber más

Scopus APIs https://www.brighttalk.com/webcast/13703/206747?utm_campaign=webcasts-search-results-feed&utm_content=SCopus%20APIs&utm_source=brighttalk-portal&utm_medium=web



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