

# METODOLOGIA DE PESQUISA CIENTÍFICA E TECNOLÓGICA

HENRIQUE C. DE ANDRADE



# BAIXANDO A LINGUAGEM “R” E IDE “RSTUDIO”



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## The Comprehensive R Archive Network

### Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** use one of these versions of R:

- [Download R for Linux \(Debian, Fedora/Redhat, Ubuntu\)](#)
- [Download R for macOS](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system above.

### Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box. The sources have to be compiled before you can use them. If you do not know what this means, you probably do it!

- The latest release (2025-06-13, Great Square Root) [R-4.5.1.tar.gz](#), read [what's new](#) in the latest version.
- The CRAN directory [src/base-prerelease](#) contains R alpha, beta, and rc releases as daily snapshots before a planned release.
- Between releases, the same directory [src/base-prerelease](#) contains snapshots of current patched alpha versions.

Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.

Course: Desenvolv

OpenAlex: The ope

Bibliometrix - Biblic

Projeto\_IA/Envios/E

RStudio Desktop - Posit


The Comprehensiv

127.0.0.1:3327

posit.co/download/rstudio-desktop

Introducing Positron, the free code editor made for data science with Python, R, and you.

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data science workflows with R and Python.

# 1: Install R

RStudio requires R 3.6.0+. Choose a version of R that matches your computer's operating system.

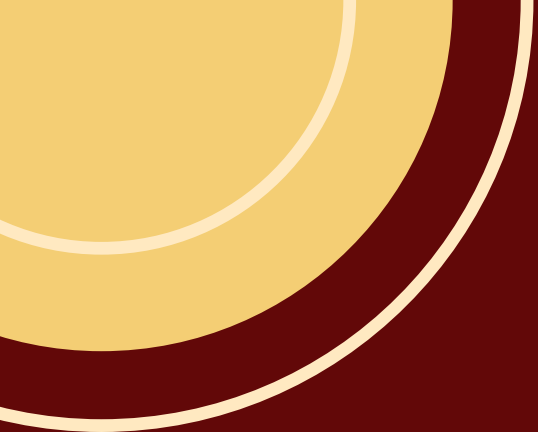
*R is not a Posit product. By clicking on the link below to download and install R, you are leaving the Posit website. Posit disclaims any obligations and all liability with respect to R and the R website.*

# 2: Install RStudio

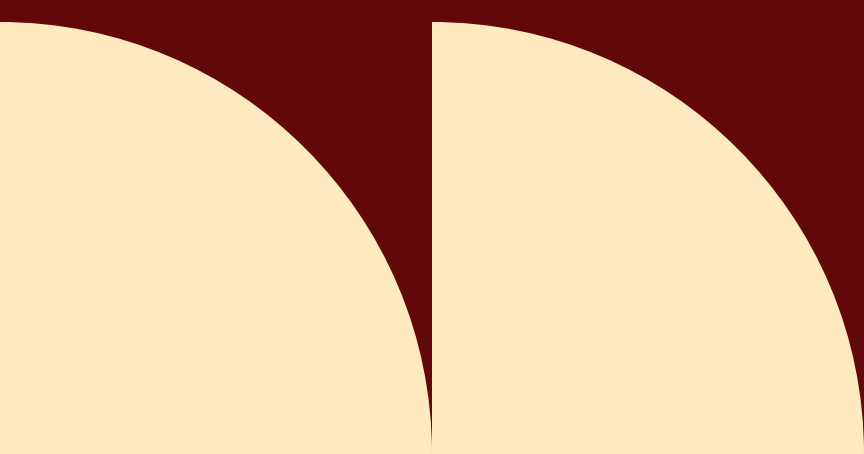
DOWNLOAD RSTUDIO DESKTOP FOR WINDOWS

Size: 281.24 MB | [SHA-256: 3A553330](#) | Version: 2025.05.1+513 | Released: 2025-06-05

https://download1.rstudio.org/electron/windows/RStudio-2025.05.1-513.exe



# COMANDOS



```
Console Terminal x Background Jobs x
R 4.5.1 ~/
> install.packages("bibliometrix")
WARNING: Rtools is required to build R packages but is not currently installed. Please
download and install the appropriate version of Rtools before proceeding:

https://cran.rstudio.com/bin/windows/Rtools/

Instalando pacote em 'C:/Users/rioue/AppData/Local/R/win-library/4.5'
```

```
> library(bibliometrix)

Please note that our software is open source and available for use, distributed under
the MIT license.
When it is used in a publication, we ask that authors properly cite the following refe
rence:

Aria, M. & Cuccurullo, C. (2017) bibliometrix: An R-tool for comprehensive science map
```

```
> biblioshiny()

Carregando pacotes exigidos: shiny

Listening on http://127.0.0.1:3327
```



# BAIXANDO A BASE DE ARTIGOS (CAPES)

OBS: ESCOLHER  
FORMATO DE  
ARQUIVO  
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... à ciência de dados e aprendizado de máquina, inteligência artificial, análise preditiva e outros tópicos urgentes. Em todo ...

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Página 1

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# UTILIZANDO O BIBLIOMETRIX





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All	All	All	All	All	All	All	All	All
10.1016/j.rx.2021.03.006	G. GALÁN FSP	NA		10.1016/j.rx.2021.03.006	RADIOLOGÍA	6	516-524	PERCEPCIONES DE ESTUDIANTE DE MEDICINA SOBRE EL IMPACTO DE LA INTELIGENCIA ARTIFICIAL EN RADIOLOGÍA
10.1016/j.rce.2024.01.007	LUIS INGLADA GALIANA PMG	NA		10.1016/j.rce.2024.01.007	REVISTA CLÍNICA ESPAÑOLA	3	178-186	ÉTICA DE LA INTELIGENCIA ARTIFICIAL
10.1002/int.10088	SILVIA ACID JFH	NA		10.1002/int.10088	INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS	2	251-265	ANÁLISIS DE INFORMACIÓN PARA LA RETRIEVAL DE MODELOS DE SIMULACIÓN EN SISTEMAS BAYESIAN

**Save as:**

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Info


Data


➤ Import or Load


➤ API


➤ Merge Collections


Filters


Overview


Sources


Authors

Documents


Clustering


Conceptual Structure


Social Structure


Report


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DI	DOI	0	0.00	0.00	Excellent
SO	Journal	0	0.00	0.00	Excellent
PY	Publication Year	0	0.00	0.00	Excellent
TI	Title	0	0.00	0.00	Excellent
AB	Abstract	30	100.00	100.00	Completely missing
C1	Affiliation	30	100.00	100.00	Completely missing
CR	Cited References	30	100.00	100.00	Completely missing
RP	Corresponding Author	30	100.00	100.00	Completely missing
DT	Document Type	30	100.00	100.00	Completely missing
DE	Keywords	30	100.00	100.00	Completely missing
ID	Keywords Plus	30	100.00	100.00	Completely missing
LA	Language	30	100.00	100.00	Completely missing
WC	Science Categories	30	100.00	100.00	Completely missing
TC	Total Citation	30	100.00	100.00	Completely missing


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
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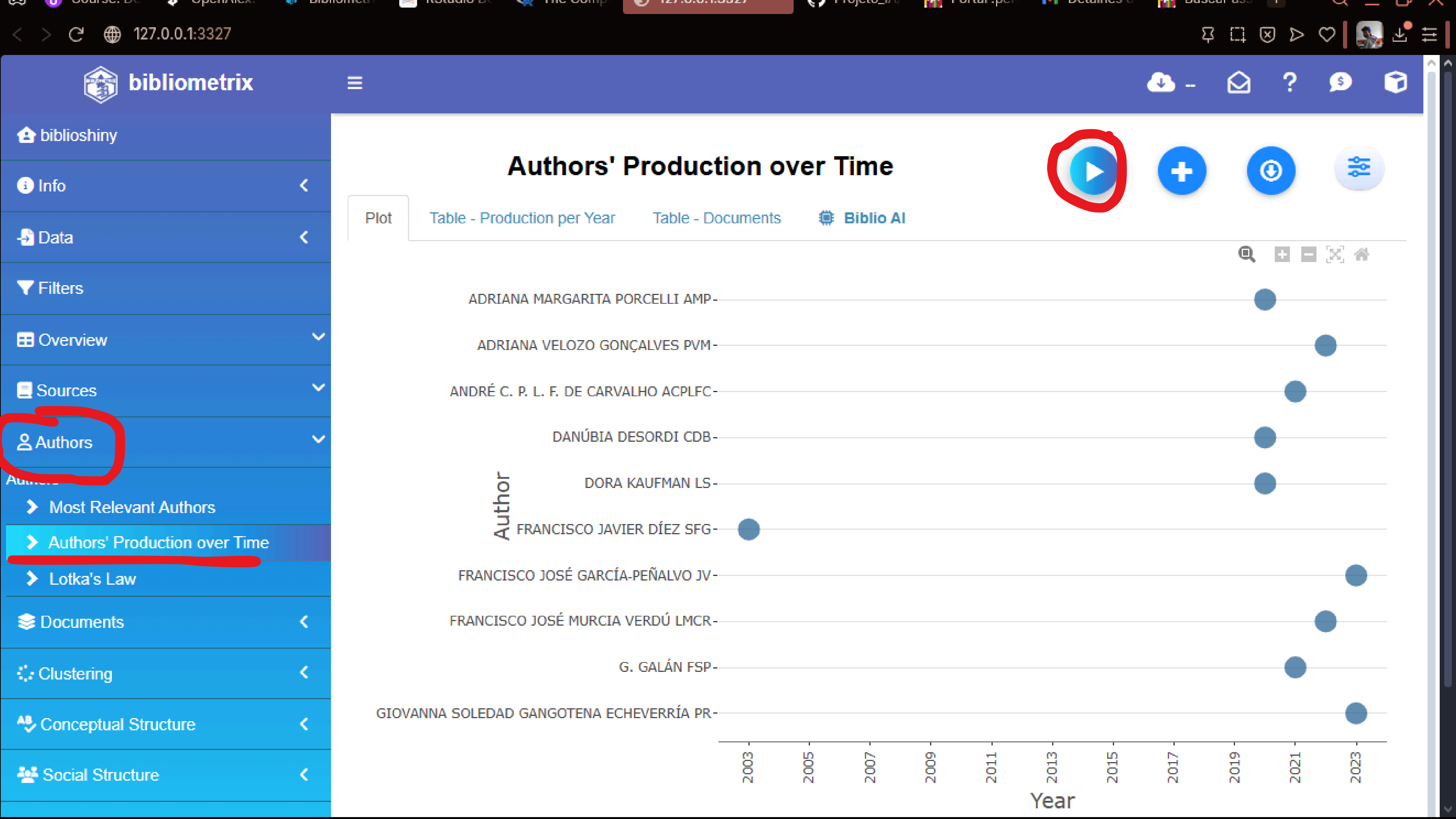
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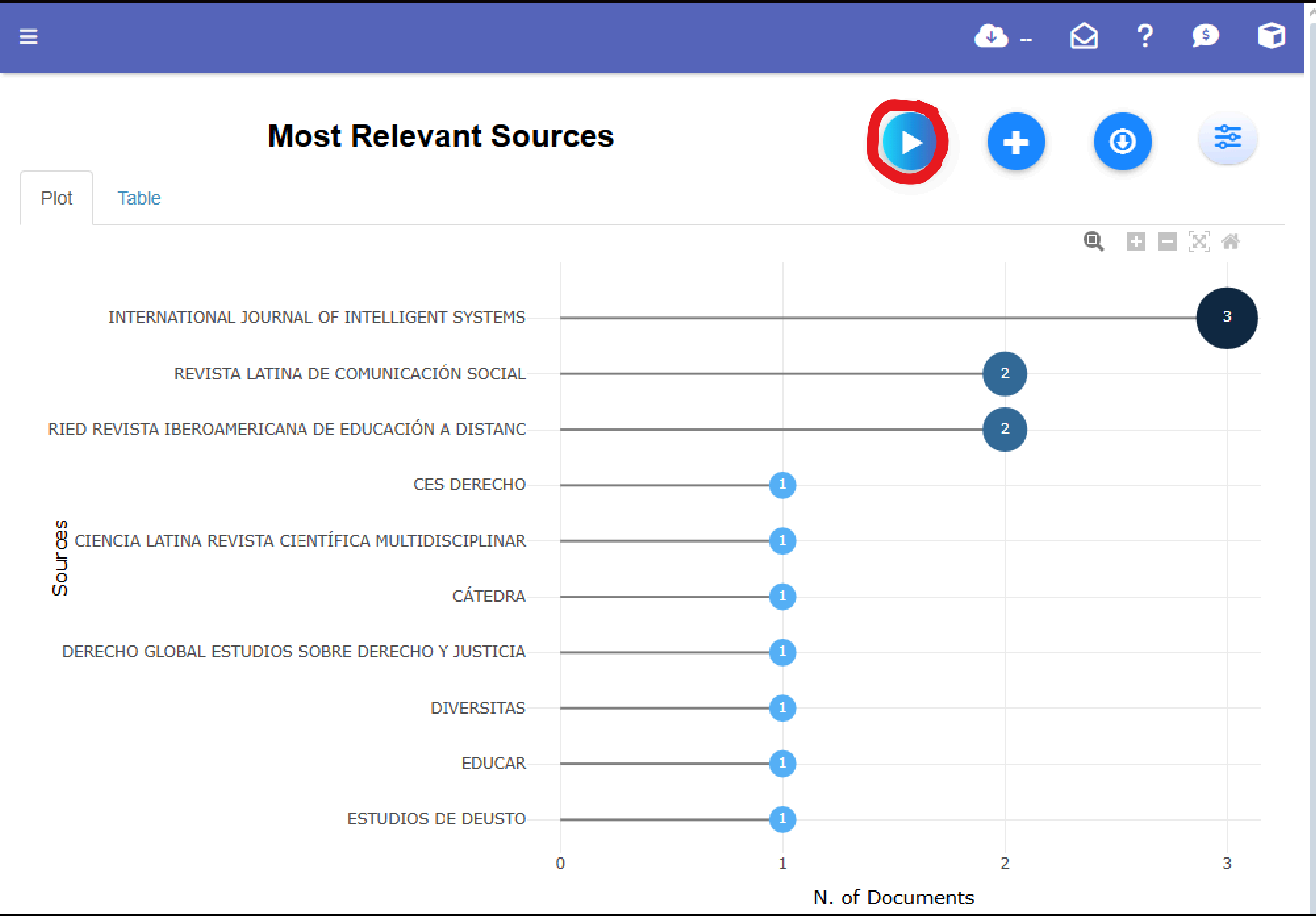
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ort collection

PRONTO!

AGORA BASTA  
ANALISARMOS OS  
DADOS DA BASE DE  
ARTIGOS





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Unsaved search



Show works where:

1

Title & Abstract

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"Inteligência Artificial"

✕

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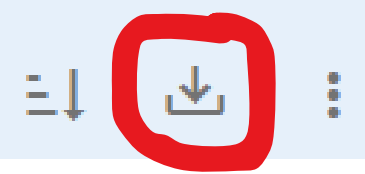
"Espécies"

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Works



Uso Sugestivo De Vetores Tecnológicos Para Mapeamento Da Expansão De Atividade Agrícola E Mortandade De Espécies Nestas Áreas  
2024 · Sidimar Lopes da Silva, Maria Goretti Dal Bosco · *Revista Contemporânea*  
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10.1016/j.rx.2021.03.006	G. GALÁN FSP	NA		10.1016/j.rx.2021.03.006	RADIOLOGÍA	6	516-524	PERCEPCIONES DE ESTUDIANTE DE MEDICINA SOBRE EL IMPACTO DE LA INTELIGENCIA ARTIFICIAL EN RADIOLOGÍA
10.1016/j.rce.2024.01.007	LUIS INGLADA GALIANA PMG	NA		10.1016/j.rce.2024.01.007	REVISTA CLÍNICA ESPAÑOLA	3	178-186	ÉTICA DE LA INTELIGENCIA ARTIFICIAL
10.1002/int.10088	SILVIA ACID JFH	NA		10.1002/int.10088	INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS	2	251-265	ANÁLISIS DE INFORMACIÓN PARA LA RETRIEVAL DE MODELOS DE SIMULACIÓN EN SISTEMAS BAYESIAN DE REDES

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## Database

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### Author Name format

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Choose a file

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## Conversion results

Number of Documents 30

## Export collection

**Save as:**

## Completeness of metadata -- 3 docs from Openalex

Metadata	Description	Missing Counts	Missing %	Status
C1	Affiliation	0	0.00	Excellent
AU	Author	0	0.00	Excellent
DI	DOI	0	0.00	Excellent
DT	Document Type	0	0.00	Excellent
SO	Journal	0	0.00	Excellent
ID	Keywords Plus	0	0.00	Excellent
LA	Language	0	0.00	Excellent
PY	Publication Year	0	0.00	Excellent
WC	Science Categories	0	0.00	Excellent
TI	Title	0	0.00	Excellent
AB	Abstract	1	33.33	Poor
CR	Cited References	1	33.33	Poor
RP	Corresponding Author	2	66.67	Critical
DE	Keywords	3	100.00	Completely missing
TC	Total Citation	3	100.00	Completely missing

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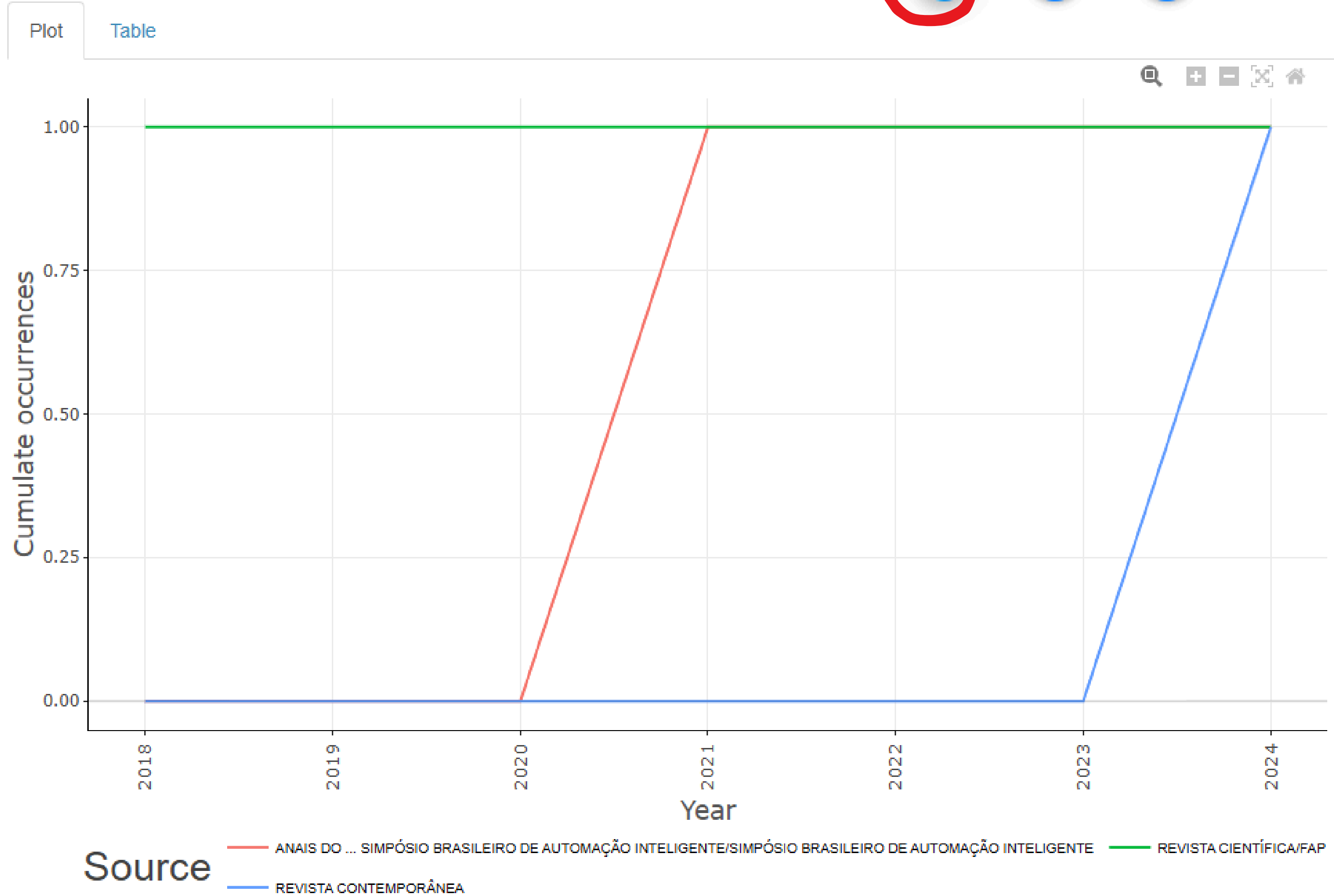
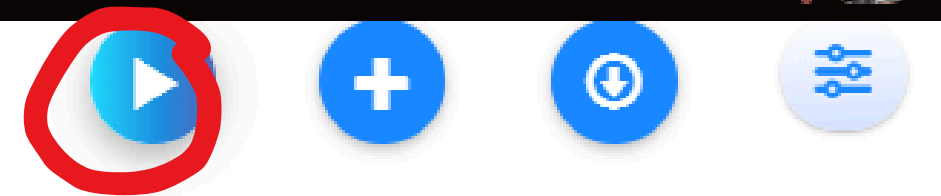
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  - Bradford's Law
  - Sources' Production over Time
- Authors
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- Conceptual Structure
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- Social Structure
- Report
- TALL Export

# Sources' Production over Time




 biblioshiny

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➤ Main Information

➤ Annual Scientific Production

➤ Three-Field Plot

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 Conceptual Structure

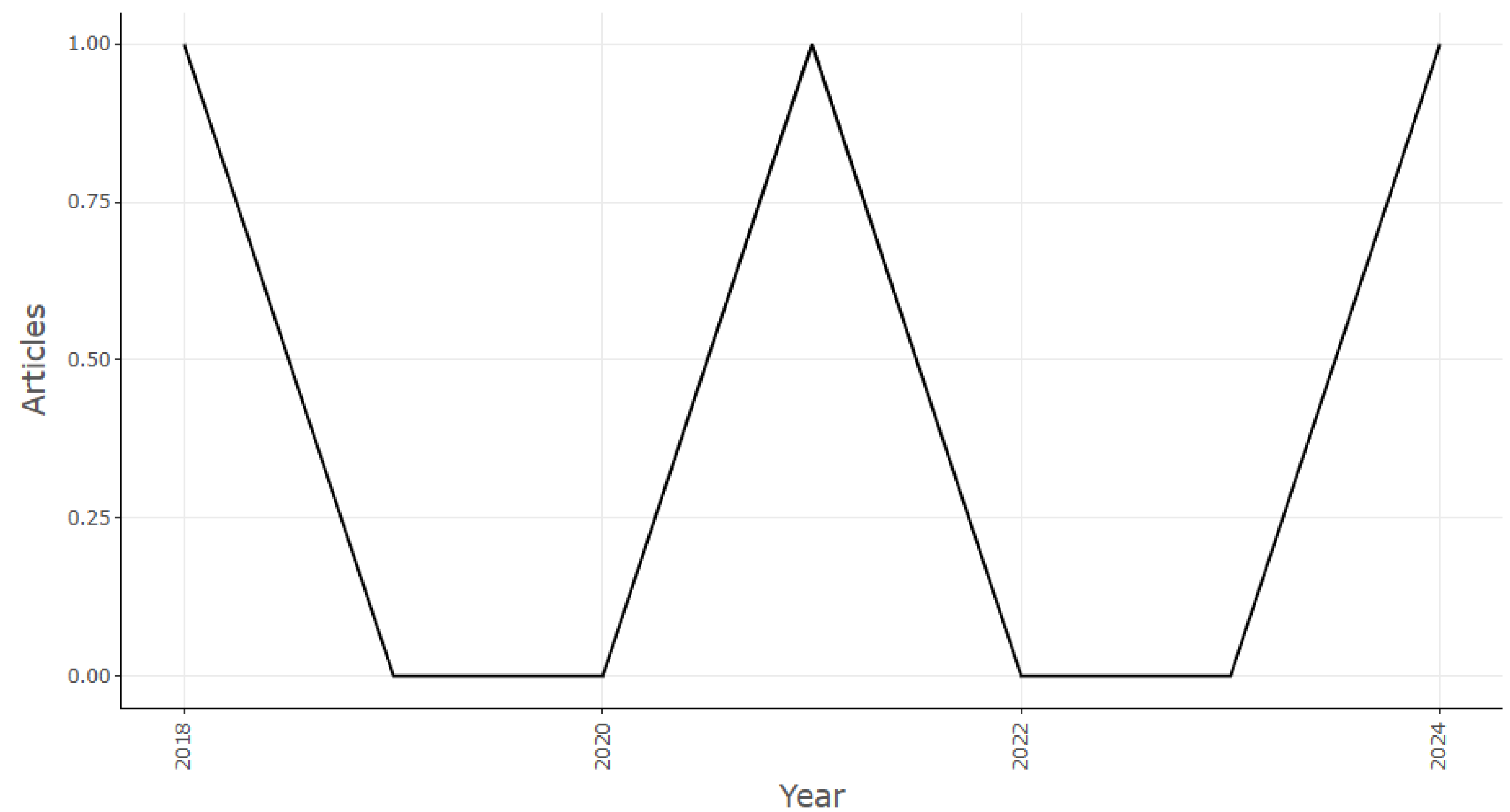
 Intellectual Structure

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## Annual Scientific Production

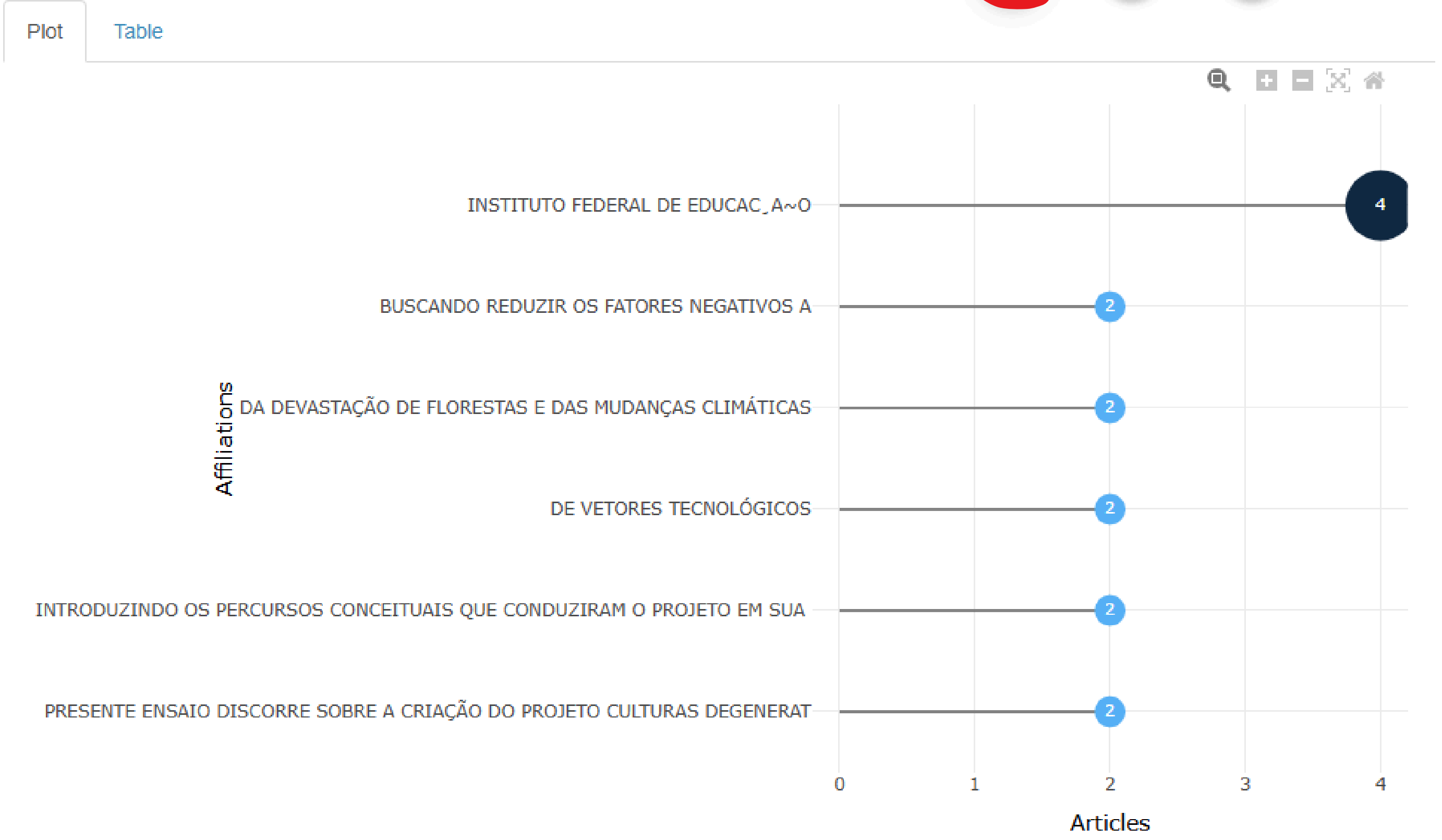


Plot Table



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  - Countries' Scientific Production
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# Most Relevant Affiliations





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