

Article-level metrics and the periphery: an exploration of articles by Brazilian authors

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If a tree falls outside of the Web
of Science, does it make a sound?

A large portion of the research
from periphery countries is
“invisible” – excluded from
mainstream citation databases

Can article-level metrics, and altmetrics in particular, shed light on “invisible” research?

Can altmetrics “see” Brazilian research that is not present in mainstream databases?

What's the status of altmetrics in Brazil?

Altmetrics in Brazil – Tools and outreach

- SciELO has a partnership with Altmetric and is pushing journals to improve/invest on social media dissemination
- PLOS ALM plugin for OJS is used in some university journals/repositories
- EBSCO is introducing PlumX to universities

Altmetrics in Brazil – Research

Starting point in 2013: first article published in a Brazilian journal

Today, researchers/groups around the country are interested in the topic – but it still is a small community

Altmetrics in Brazil – Research

Alperin, 2015: SciELO journals

Araújo, Murakami, Lara, & Fausto, 2015:
Datagramazero journal

Fausto & Mugnaini, 2014: USP authors in
PLOS journals

Our aim: to explore altmetrics for
Brazilian research

But...

How to define Brazilian research?
Brazilian journals?
Affiliation?

And *where* to find Brazilian
research?

How to avoid selection biases?

Our proposed solution: the Lattes Platform

The Lattes Platform

A national information system maintained by Brazil's national research council (CNPq) where researchers from all levels record their professional activities, publications, research projects, outreach efforts, etc. There are over 4,5 million CVs registered in the platform, all available for public consultation at <http://lattes.cnpq.br>

The Lattes Platform

Lattes information is used for many purposes, from grant/scholarship decisions to institutional evaluations.

A Lattes CV is a requisite for obtaining virtually any kind of financial support in Brazil, even from agencies other than CNPq

There's a huge incentive to keep your CV up-to-date.

The Lattes Platform

Lattes CVs offer a reasonably accurate picture of the active scientific community in Brazil
Lattes data are provided by researchers themselves, with no journal restrictions: a way to avoid database selection bias

The Lattes Platform

Since 2007, researchers can include DOIs in their Lattes CVs

Even though DOIs are not mandatory, there's an incentive to do it: article information is filled automatically

Is the Lattes Platform really a viable source for DOIs?

First test

Focus on the recipients of the research productivity grant offered by Brazil's National Research Council

These grants are destined to researchers who stand out among their peers.

Over 15.000 CVs (gently provided by Dr. Mena-Chalco)

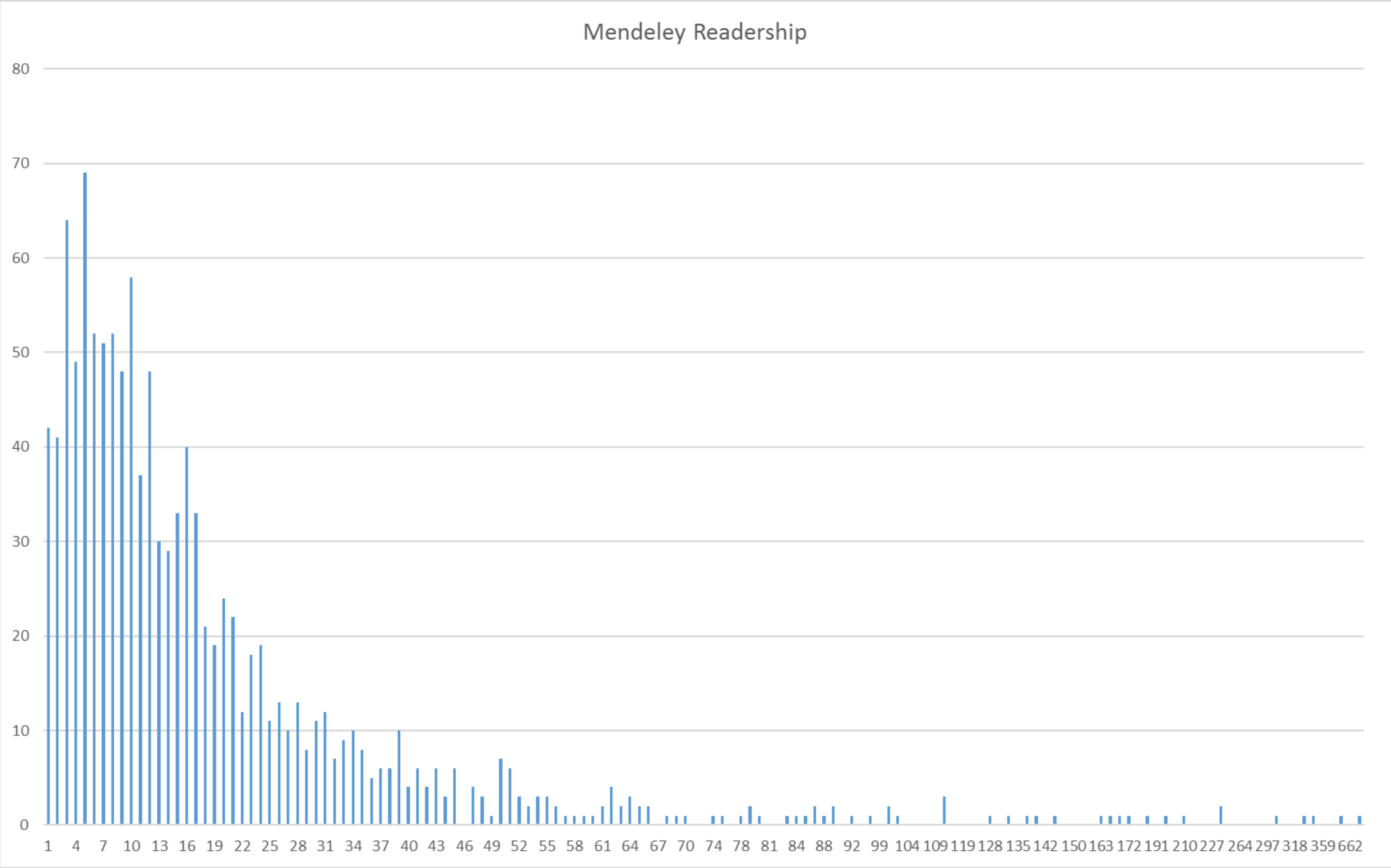
For our test, the 500 oldest CVs (per creation date) were chosen

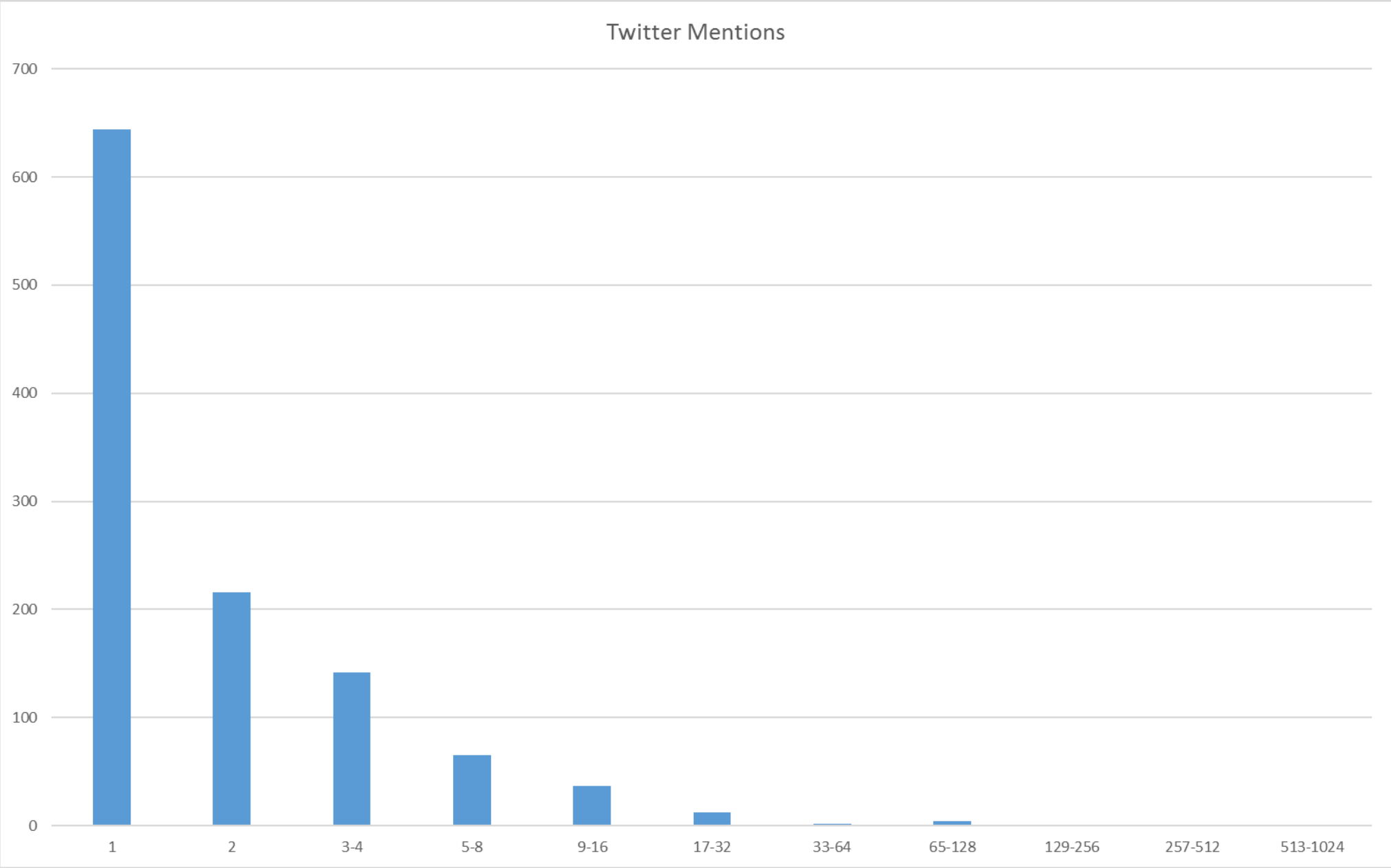
Test results

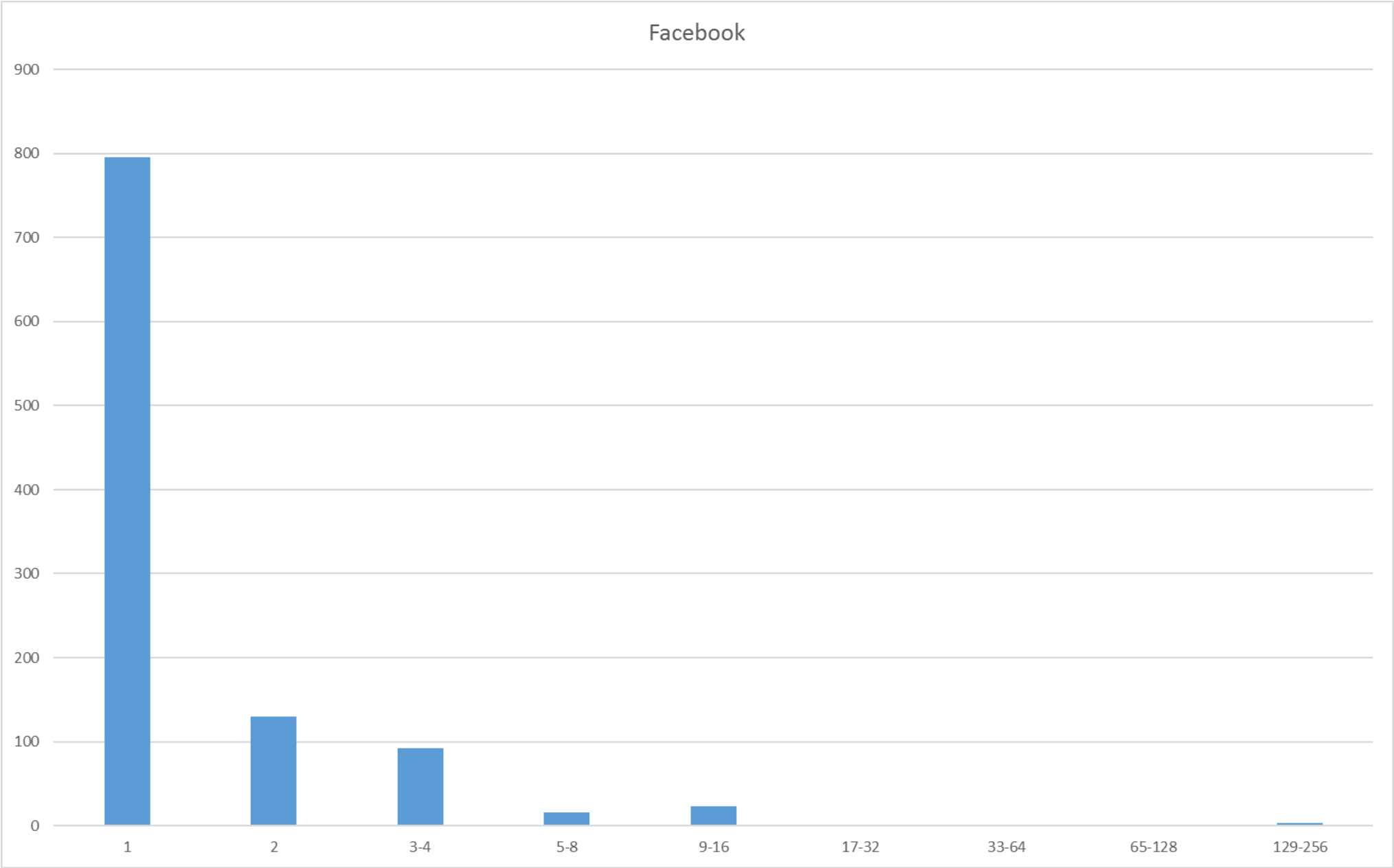
- 500 CVs
- 7555 journal articles with DOIs published between 2011-2015
- Altmetric API found data for 1176 articles (15,6% of the total)
 - Every one of these articles had at least 1 Mendeley reader

Test results

SOURCE	MENTIONS	ITENS MENTIONED
Mendeley	24806	1176
Twitter	4036	1123
Facebook	2410	1060
News	606	186
Wikipedia	297	274
Google Plus	183	111
Blogs	133	78







WoS/Scopus Coverage

- 59,4% (699) of the articles in our sample were published in journals indexed by Web of Science
- 64,1% (754) of the articles in our sample were published in journals indexed by Scopus

Next step: define a sample
representative of the larger
Brazilian research community

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