

The impact of daily practices

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OCTOBER 20, 2015

Not about:

- When to drink your coffee
- How to get things done
- How to stop procrastinating
- Etc.

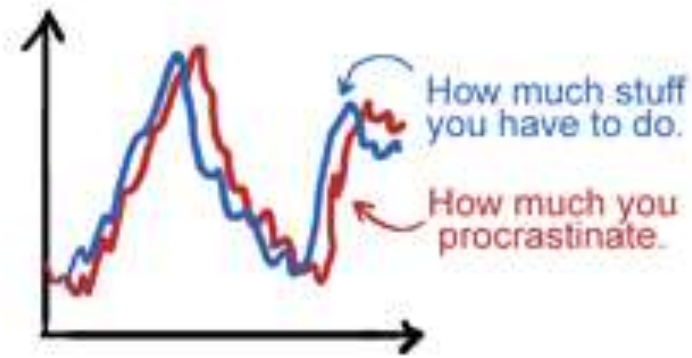
Procrastination

Ideally:



$$\text{Procrastination} \propto \frac{1}{\text{How much stuff you have to do}}$$

In reality:

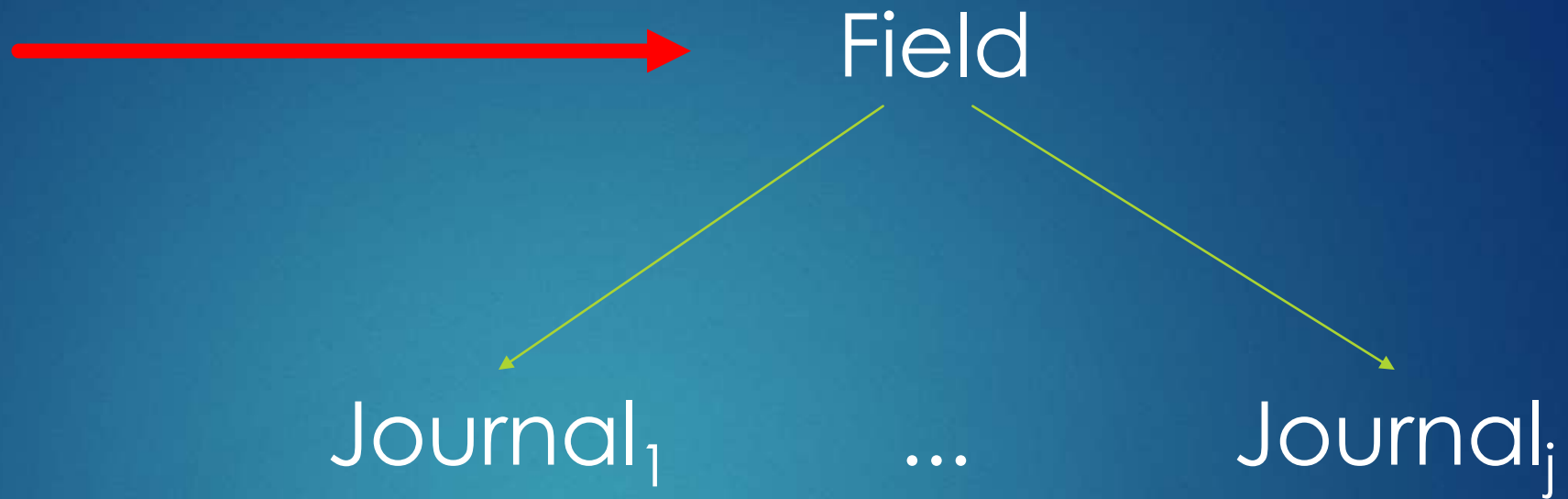


$$\text{Procrastination} \propto \text{How much stuff you have to do}$$

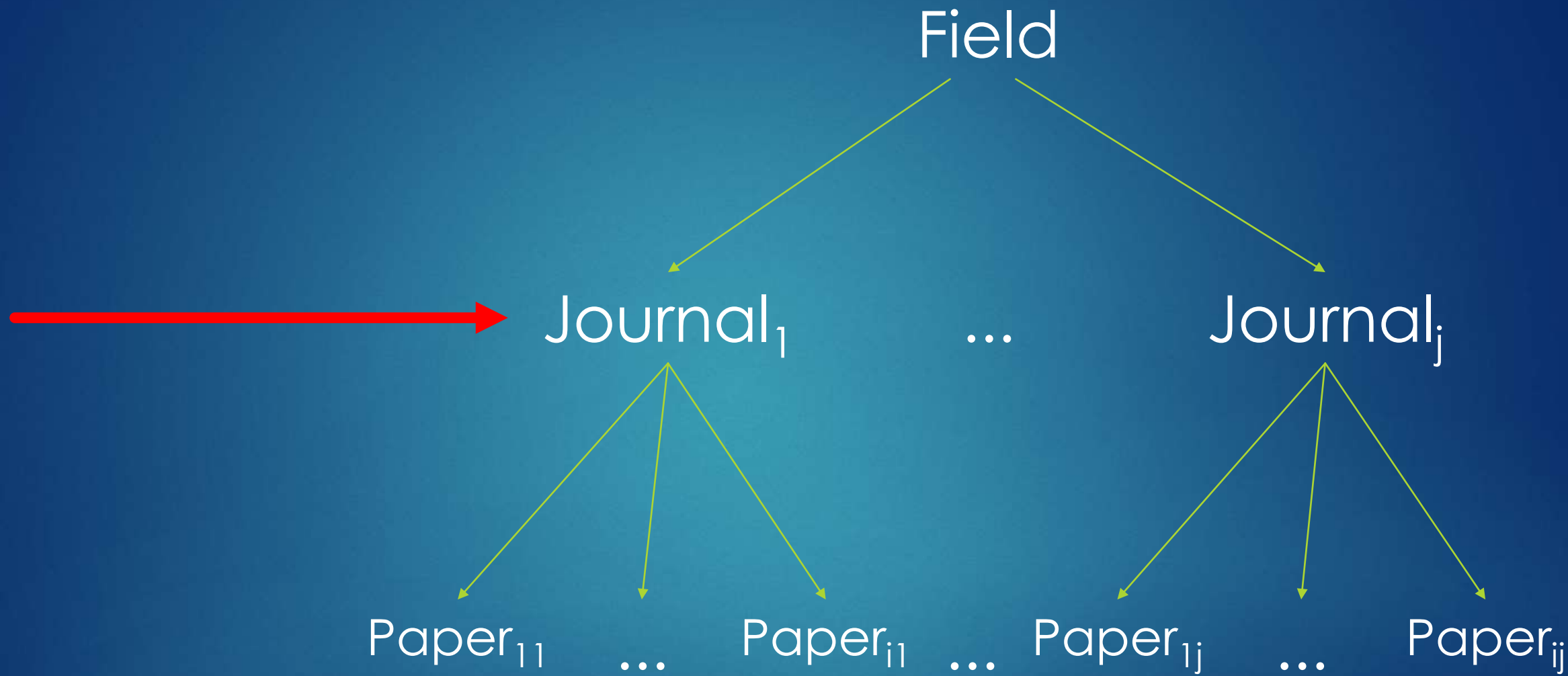
Is about:

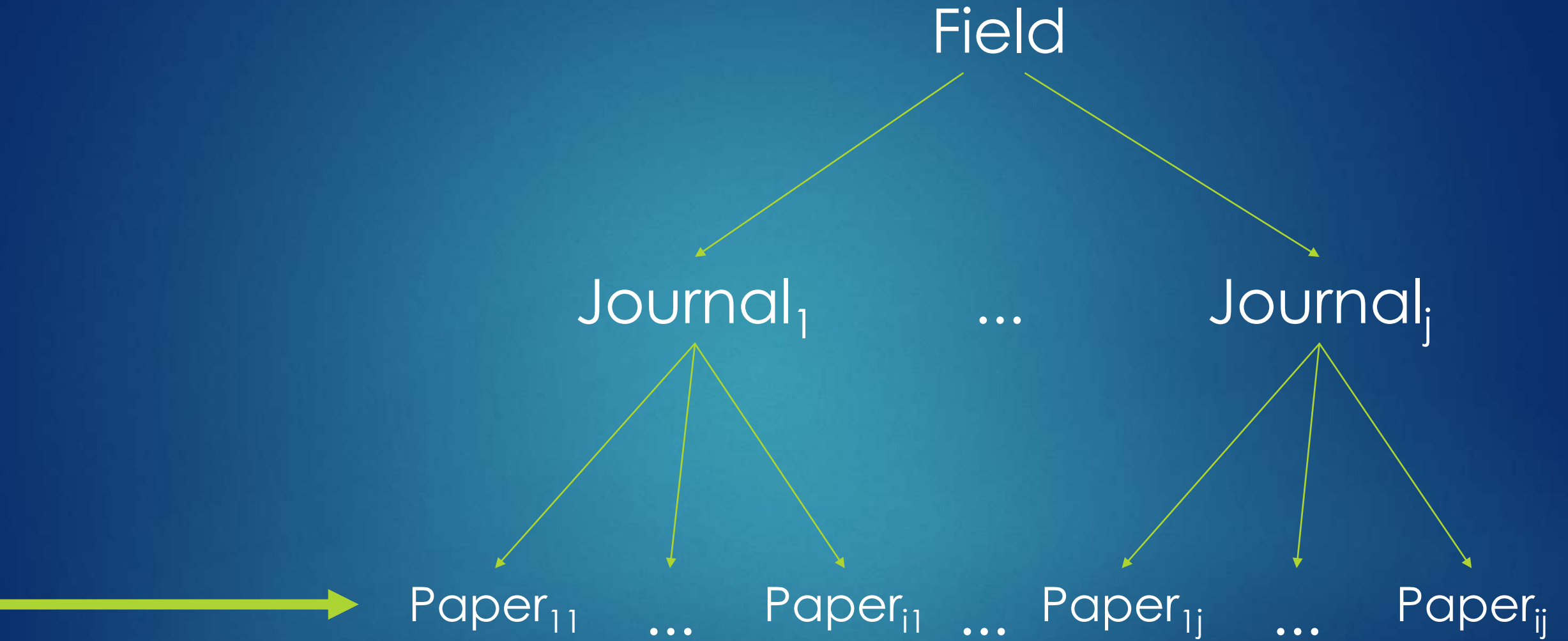
- Impact Factors are the worst
- Gaming the citation system
- Copyright of your papers

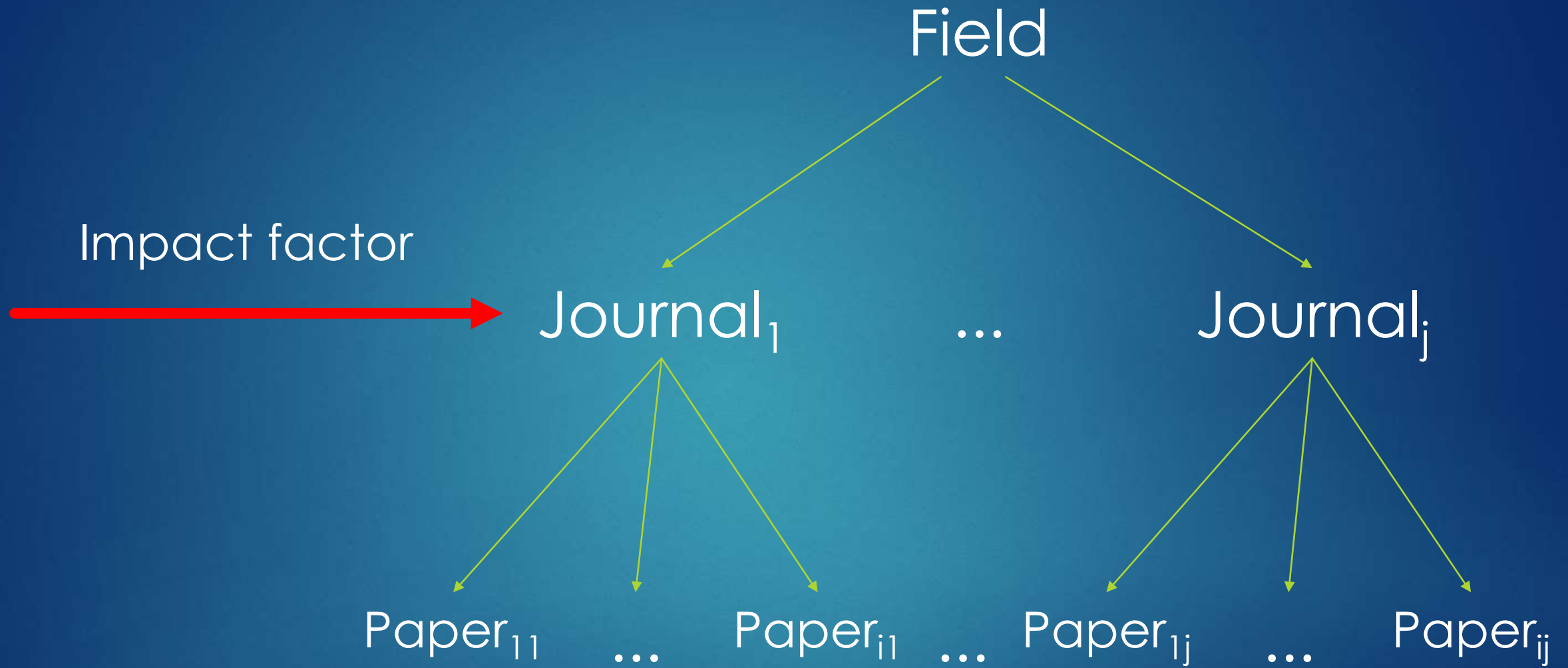
IF \equiv # citations / # research
articles
(Per journal)

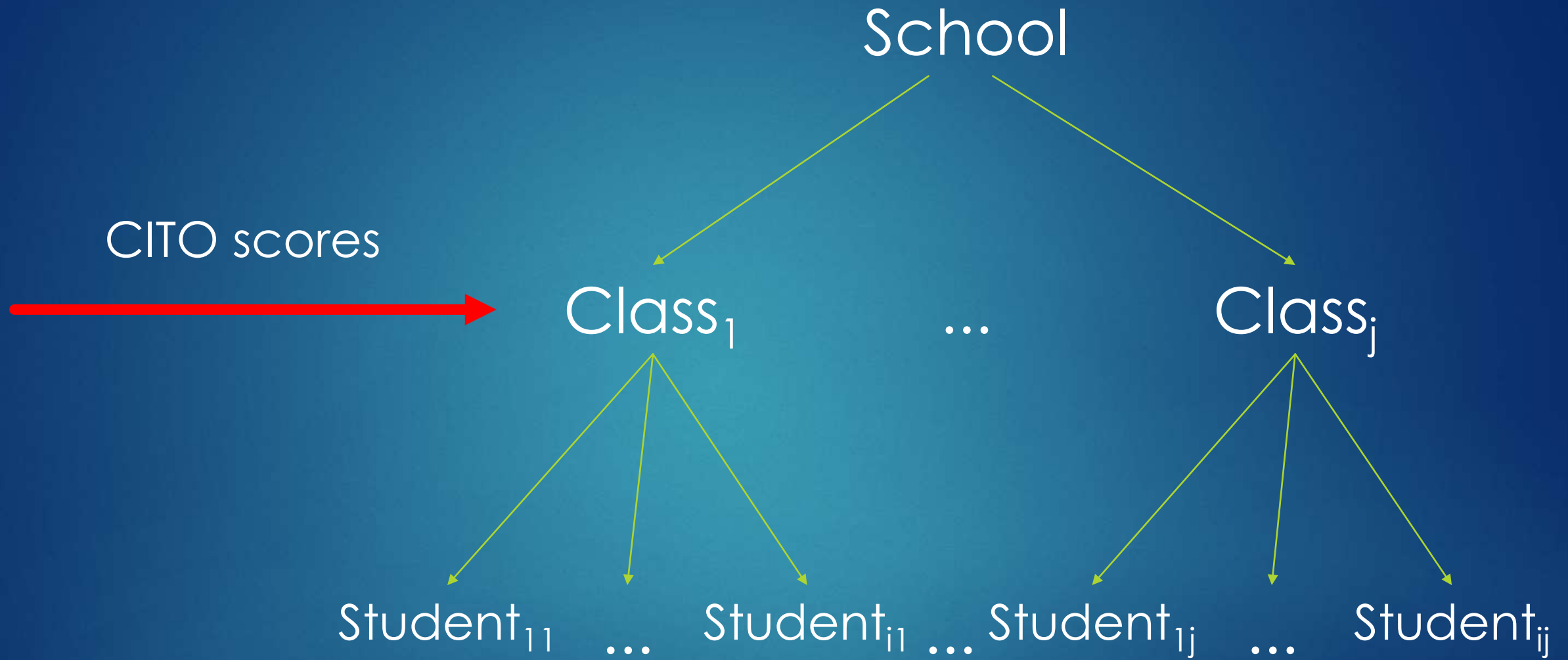






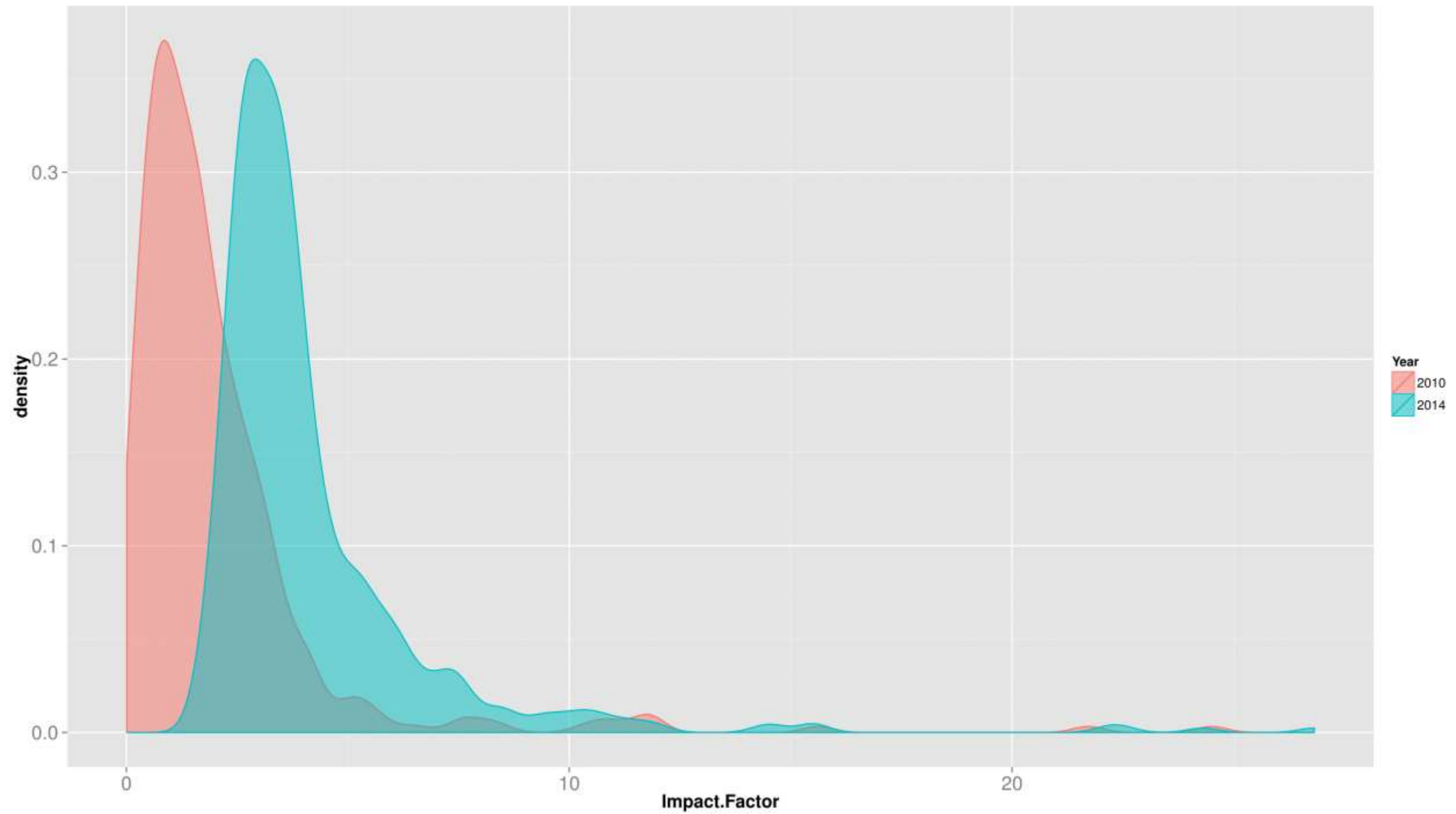






Gaming the IF:

- Delay the official publication (backlogs!)
- Less research articles, more opinion, editorials, etc.



IF = Artificial + ecological
fallacy

“The use of journal impacts in evaluating individuals has its inherent dangers.”

---Eugene Garfield, 2006, JAMA, p.92

IF = Artificial ~~≠ ecological~~
~~fallacy~~

H-index = H papers with at
least H citations

$H = 20 \rightarrow 20$ papers with ≥ 20
citations

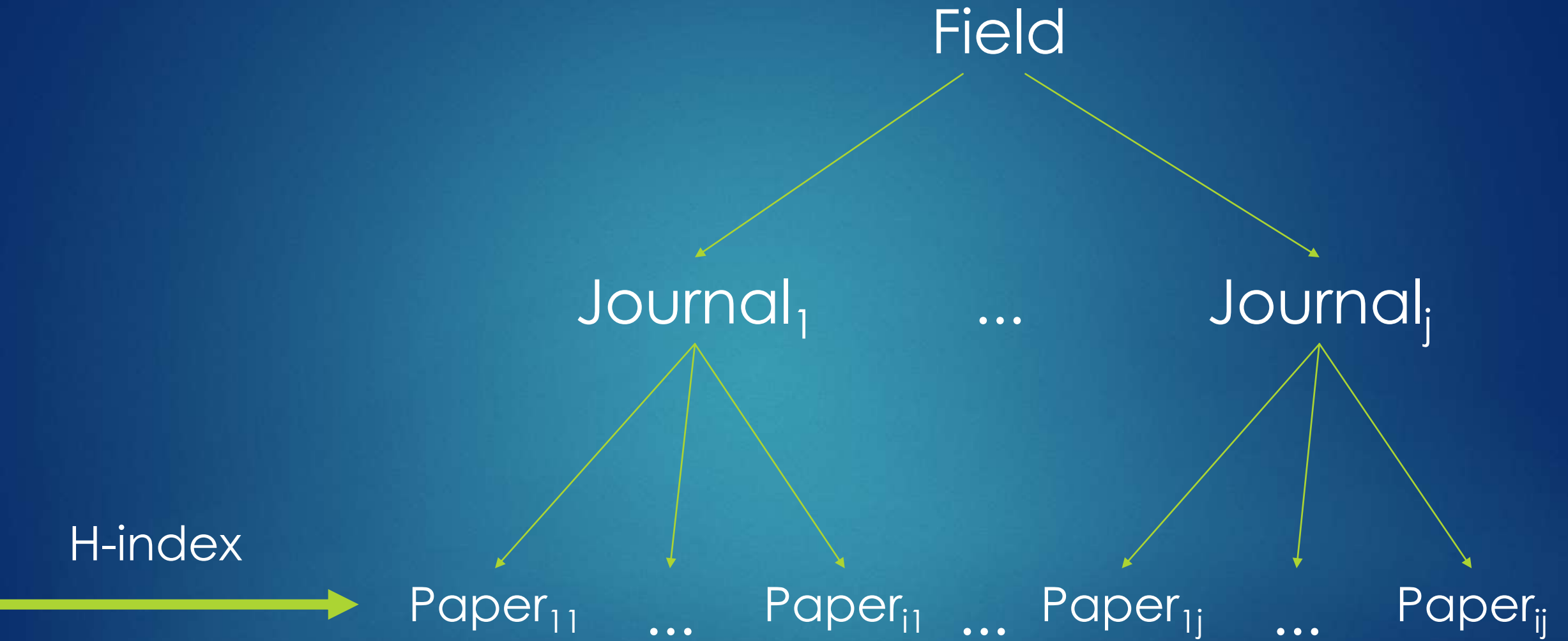
$$\begin{aligned}
 & \# \text{ times your work is cited} - \# \text{ citations that actually trash your work} - \# \text{ times you cited yourself (nice try)} - \# \text{ times you were cited just to pad the introduction section} - \# \text{ citations the editor pressured the author to include to increase the journal's impact factor}
 \end{aligned}$$

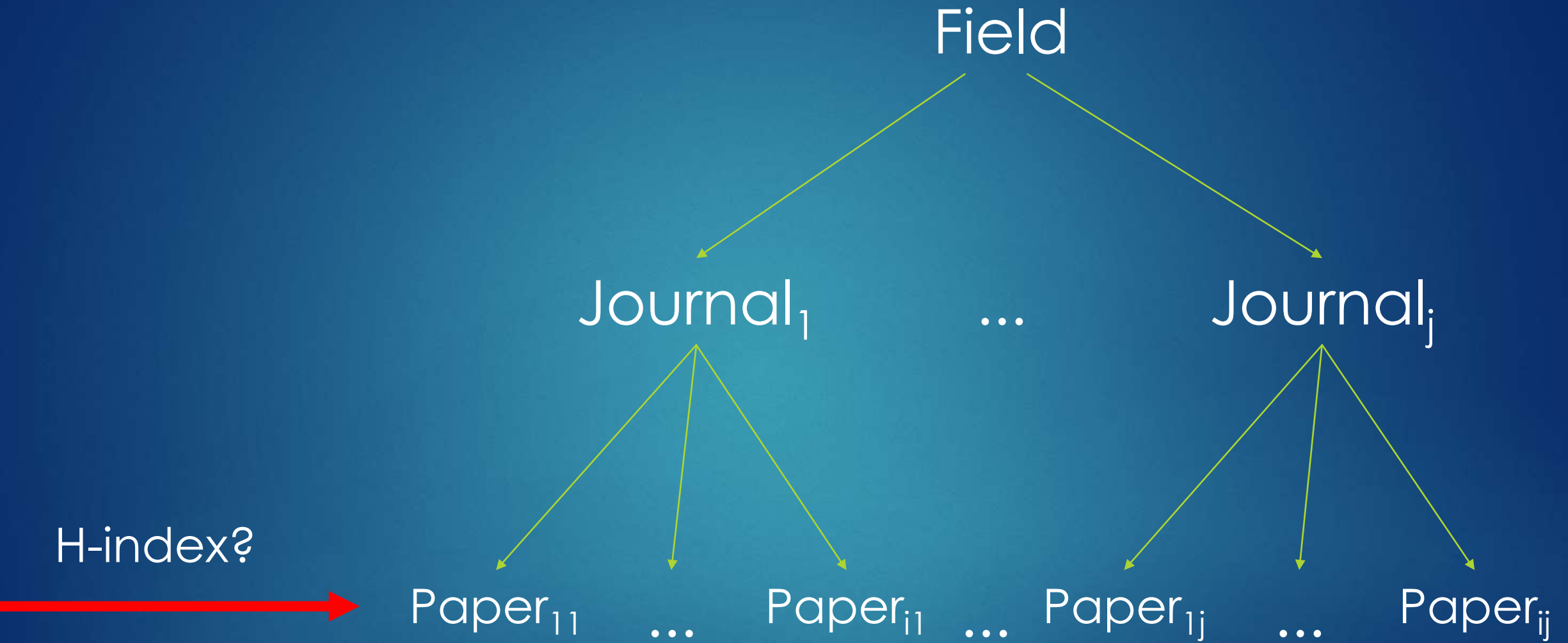
$$\begin{aligned}
 & \# \text{ original articles you've written} + \# \text{ articles you were included in out of pity or politics} + \# \text{ not-so-original articles you've} \\
 & \hspace{15em} \text{copied and pasted}
 \end{aligned}$$

JORGE CHAM © 2008
WWW.PHDCOMICS.COM

H-index lacks predictive
validity

H-index predicts...
h-index





And yet:

MERIT principle for
evaluating quality

And yet:

- IMPACT FACTOR 😞
- Quantity
- Contents
- Only publications
- [implies citations]

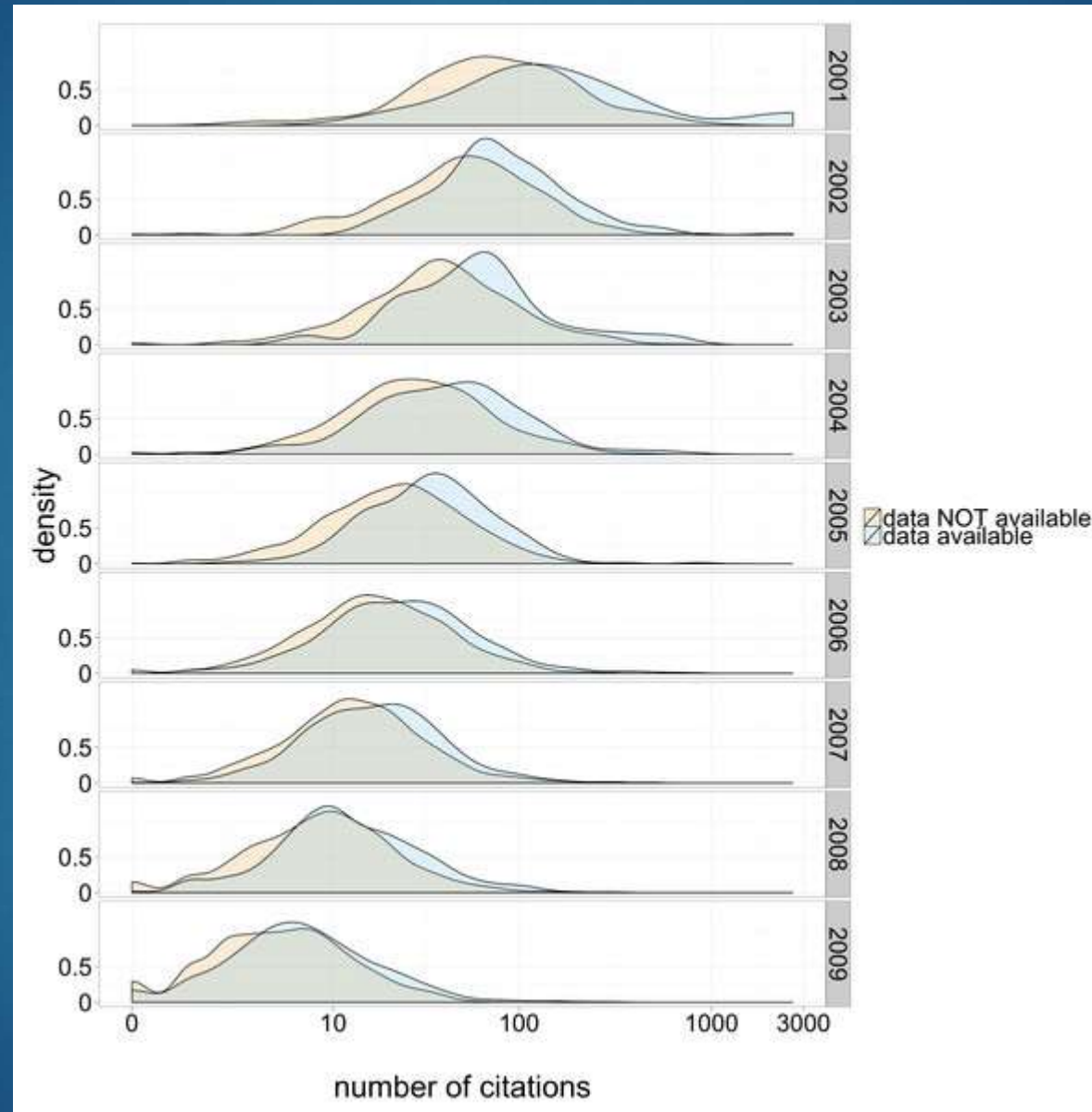
“Quality is the fundament of our [...] research”

---Strategic Plan 2014-2017 TSB, p.4



Gaming
your
citation
score:

- Share your data



Gaming
your
citation
score:

- Share your data
- Speed up the publication (preprint!)

Chris Hartgerink @chartgerink

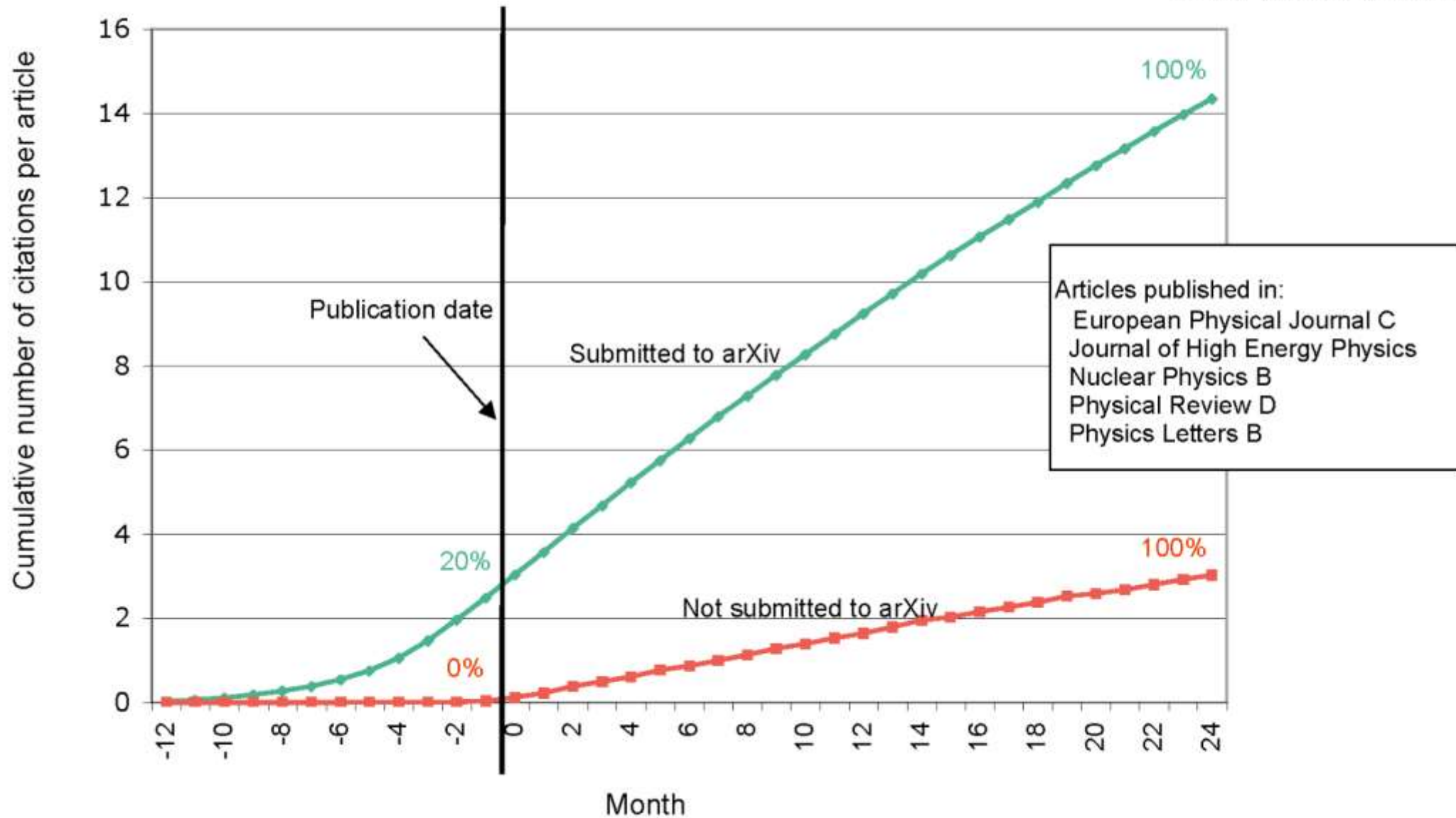
Submitted by @michelenuijten "The Prevalence of Statistical Reporting Errors in Psychology (1985-2013)".

Preprint @ bit.ly/1yr2ZpF



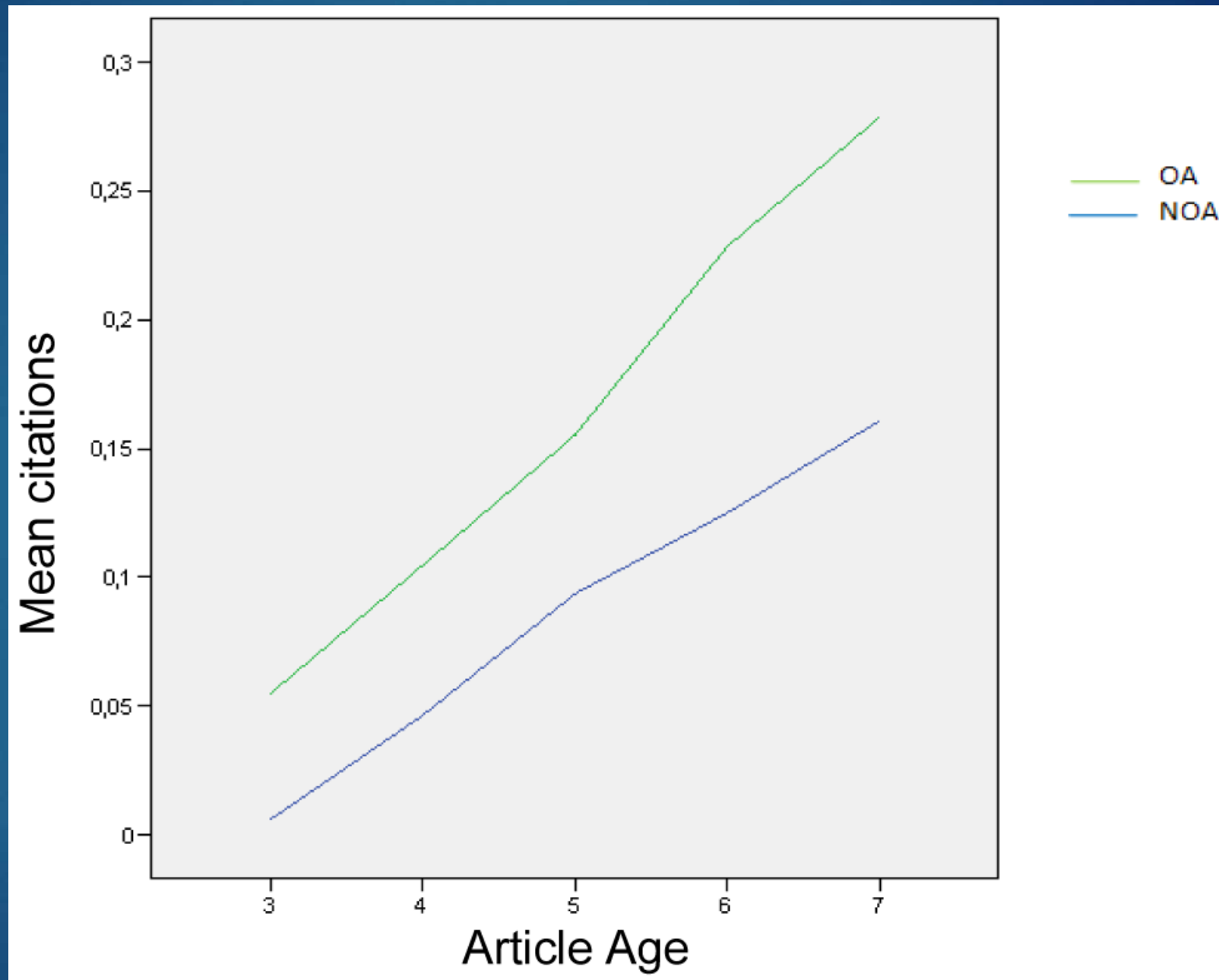
Retweet Details

7 retweeters have a total of 4,269 followers



Gaming
your
citation
score:

- Share your data
- Speed up the publication (preprints)
- Publish Open Access



Minor changes daily
practice \propto benefits

Still play the old
citation game

ONE DOES NOT SIMPLY

STOP PLAYING THE CITATION GAME

imgflip.com

Suggestions
good
anyway

- Share your data
- Speed up the publication (preprints)
- Publish Open Access

Because they focus
on actual research!

not all
That's Folks!



- Share your data
- Speed up the publication (preprints)
- Publish Open Access

- Invite re-use and credit for data
- Improve work with more feedback
- Retain your creative rights

License agreement (traditional)

- Signs away ownership
- “Barrier” to publishing
- Does not enable researcher’s rights
- Prevents impact of research

Ebola example

- Liberia outbreak large surprise
- Killed >11,000 people
- Now “under control”

The broad age distribution of persons tested and the wide range of antibody titres observed for the activity of the three viruses suggest that the respective diseases probably occur more frequently in single cases rather than in occasional nosocomial or local epidemics.

Considering that active cases of Ebola or Marburg virus disease have never been reported from Liberia, the occurrence of these specific antibodies was surprising. The results seem to indicate that Liberia has to be included in the Ebola and Marburg virus endemic zone. Therefore, the medical personnel in Liberian health centres should be aware of the possibility that they may come across active cases and thus be prepared to avoid nosocomial epidemics.

1982(!)



Annales de l'Institut Pasteur / Virologie
1982, Vol.133(2):125–128, doi:10.1016/S07...

A serological survey on viral haemorrhagic fevers in liberia *

J. Knobloch, E.J. Albiez, H. Schmitz

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You gotta fight for the right
to access papers

License agreement (new and open)

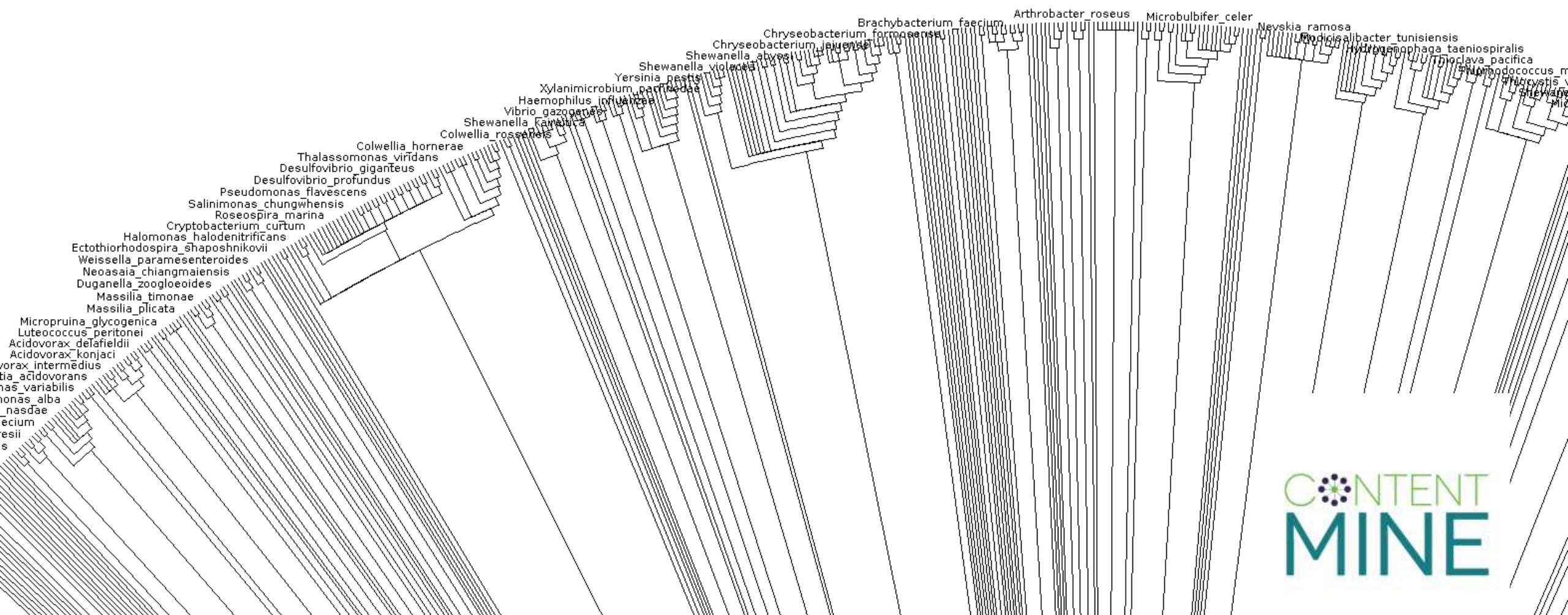
- CC-BY (by attribution)
- CC-0 (public domain)
- Author retains rights
- More access, more potential impact.
- Allows new research

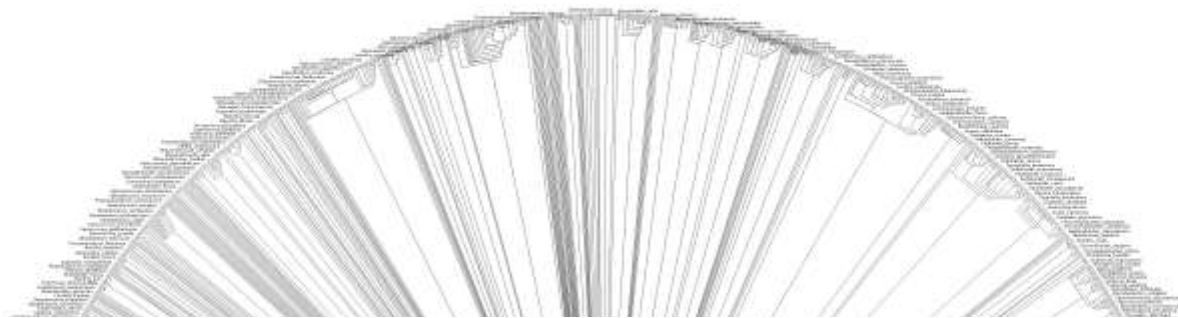
The right to read is the right to mine

- ▶ Individual research papers contain trove of information
- ▶ But also systematic aspects across papers, worth investigating
- ▶ Old license agreements harm this kind of meta-research (many more restrictions)
- ▶ Open license agreements encourage meta-research (lift restrictions)

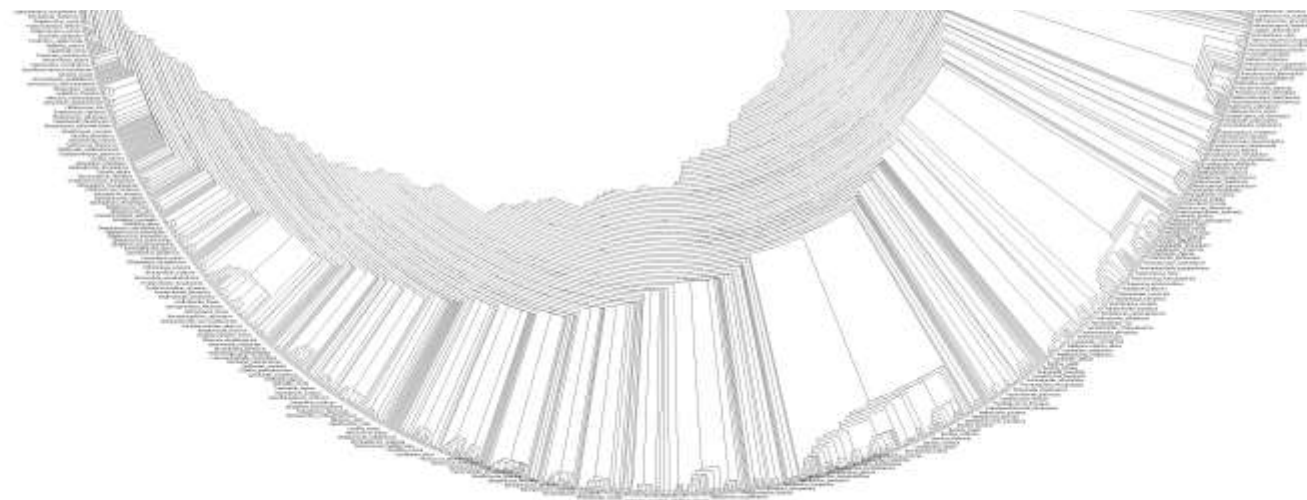


The right to read is the right to mine





Automated procedure
based on published, Open
Access research papers!



Demonstration of the new literature search



```
Windows PowerShell  
Copyright (C) 2012 Microsoft Corporation. All rights reserved.
```

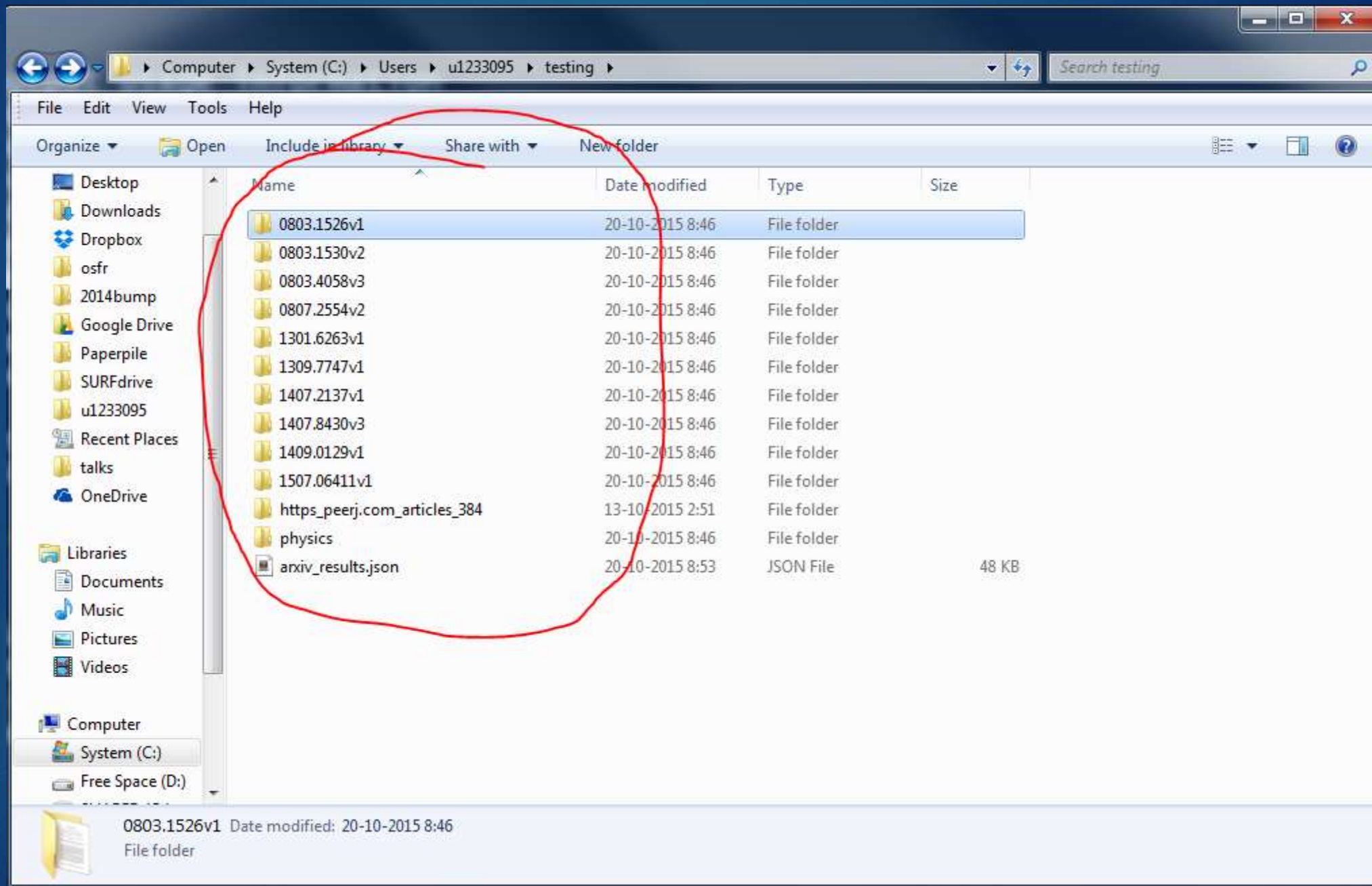
```
PS C:\Users\u1233095> getpapers
```

```
Usage: getpapers [options]
```

```
Options:
```

-h, --help	output usage information
-V, --version	output the version number
-q, --query <query>	Search query (required)
-o, --outdir <path>	Output directory (required - will be created if not found)
--api <name>	API to search [eupmc, ieee, arxiv] (default: eupmc)
-x, --xml	Download fulltext XMLs if available
-p, --pdf	Download fulltext PDFs if available
-s, --supp	Download supplementary files if available
-l, --loglevel <level>	amount of information to log (silent, verbose, info*, data, warn, error, or debug)
-a, --all	search all papers, not just open access

```
PS C:\Users\u1233095> getpapers --outdir testing --pdf --api arxiv --query "misconduct"
info: searching using arxiv API
info: Found 15 results
Retrieving results [=====] 100% (eta 0.0s)
info: Done collecting results
info: Saving result metadata
info: Full ArXiv result metadata written to arxiv_results.json
info: Downloading fulltext PDF files
Downloading files [=====] 100% (eta 0.0s)
info: All PDF downloads succeeded!
```

- Stop the citation game
- Help yourself, be open
- Fight for your creative rights

@chartgerink
www.chjh.nl

Happy
Open
Access
week! 😊