

# How to Evaluate Information Sources II.

55F152 - Academic Writing and Defending



EVROPSKÁ UNIE  
Evropské strukturální a investiční fondy  
Operační program Výzkum, vývoj a vzdělávání

**MŠMT**  
MINISTERSTVO ŠKOLSTVÍ,  
MLÁDEŽE A TĚLOVÝCHOVY

# Citation index

- Citations in science = link similar research papers or other items
- Importance of research (research impact) can be measured by number of other research items citing it.



# Citation index

- Answering the questions:
  1. Who is the author?
  2. Is the information source reviewed?





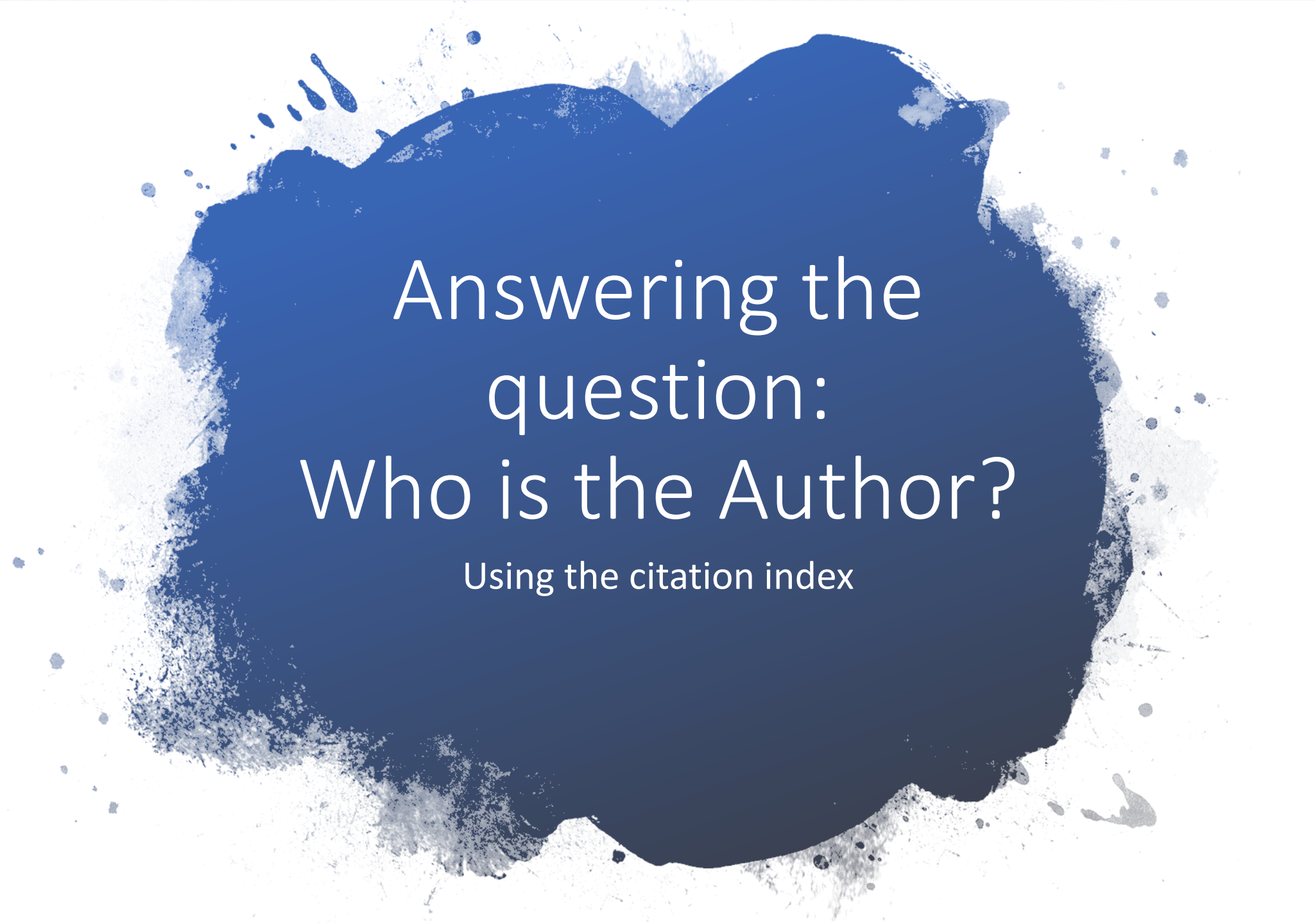




WEB OF SCIENCE™



- Multiple citation indexes
- Access to multiple databases
- 50,000 scholarly books, 12,000 journals and 160,000 conference proceedings



# Answering the question: Who is the Author?

Using the citation index

# Search for author in Web of Science

The image shows a screenshot of the Web of Science search interface. At the top, there are five tabs: "Basic Search", "Cited Reference Search", "Advanced Search", "Author Search", and "Structure Search". The "Basic Search" tab is selected and underlined. Below the tabs, there is a search input field containing the text "vacura, miroslav" and a clear button (an 'x' in a circle). Below the input field, the text "Select from Index" is visible. To the right of the input field is a dropdown menu currently showing "Author". Below the dropdown menu, there are two buttons: "+ Add row" and "Reset". To the right of these buttons is a dark blue "Search" button and a link for "Search tips". Three blue callout boxes with white text provide instructions: the first points to the search input field with the text "Enter the name of the author"; the second points to the dropdown menu with the text "Change to „Author“"; and the third points to the "Search" button with the text "Click „Search“".

Enter the name of the author

Change to „Author“

Click „Search“

Basic Search   Cited Reference Search   Advanced Search   Author Search   Structure Search

vacura, miroslav   x

Select from Index


Author   ▼


+ Add row | Reset

Search   Search tips



# THE LIST OF AUTHOR'S PUBLICATIONS IS DISPLAYED WITH NUMBER OF CITATIONS FOR EACH ITEM

Select Page   [Export...](#)   [Add to Marked List](#)

1. **Carnap's Logical Syntax of Language and the Problem of Category-Mistake**  
By: **Vacura, Miroslav**  
FILOSOFICKY CASOPIS Volume: 67 Issue: 1 Pages: 69-88 Published: 2019  
 [View Abstract](#) ▼

2. **The Concept of Freedom in Thomas Hobbes**  
By: **Vacura, Miroslav**  
FILOSOFICKY CASOPIS Volume: 65 Issue: 3 Pages: 385-401 Published: 2017  
 [View Abstract](#) ▼

3. **Categorization Power of Ontologies with Respect to Focus Classes**  
By: Svatek, Vojtech; Zamazal, Ondrej; **Vacura, Miroslav**  
Conference: 20th International Conference on Knowledge Engineering and Knowledge Management (EKAW) Location: Bologna, ITALY Date: NOV 19-23, 2016  
KNOWLEDGE ENGINEERING AND KNOWLEDGE MANAGEMENT, EKAW 2016

 **Analyze Results**  
 **Create Citation Report**

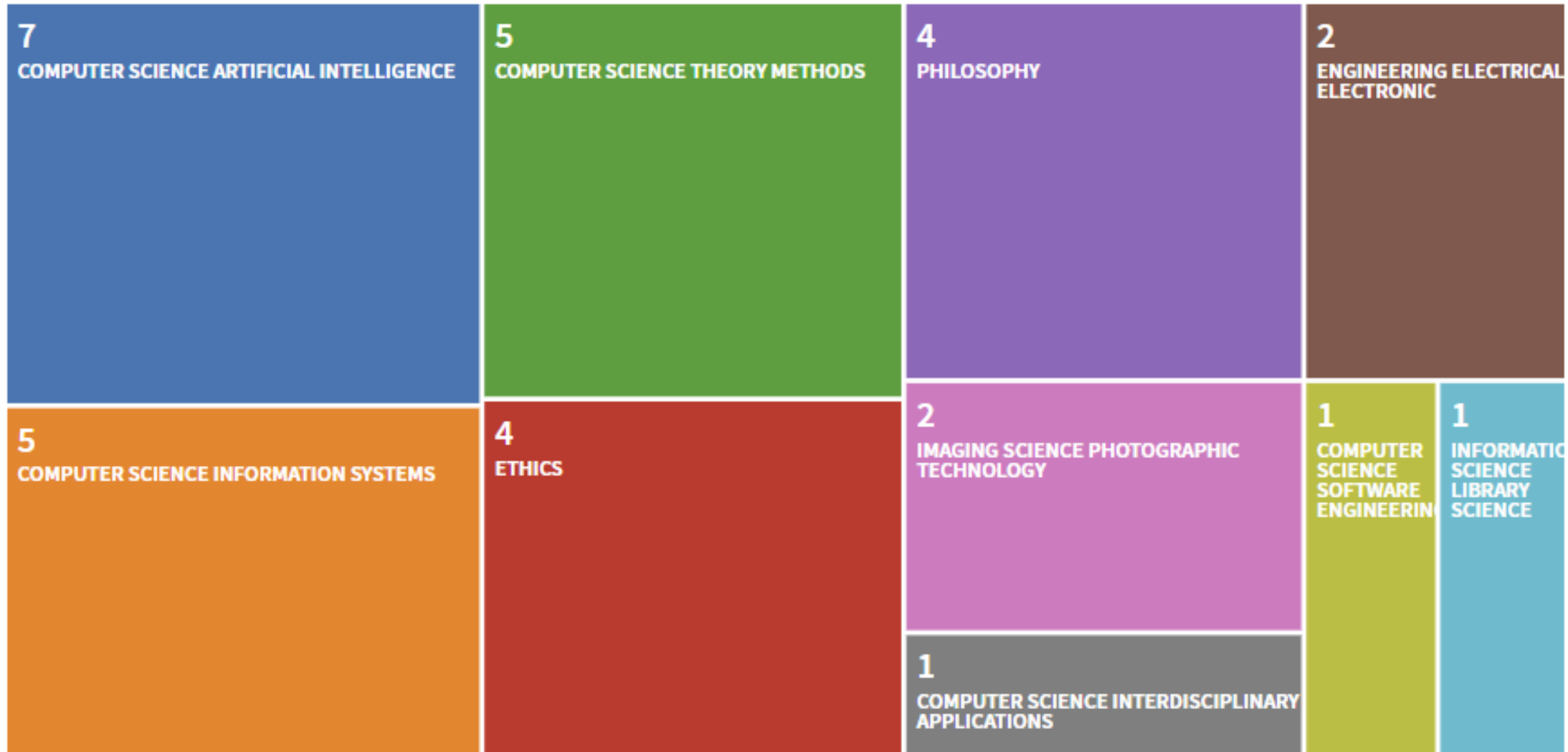
**Times Cited: 0**  
*(from Web of Science Core Collection)*

**Usage Count** ▼

Click „Analyze results“



# ANALYSIS OF AUTHORS PUBLICATIONS FIELDS IS DISPLAYED (TREE MAP)



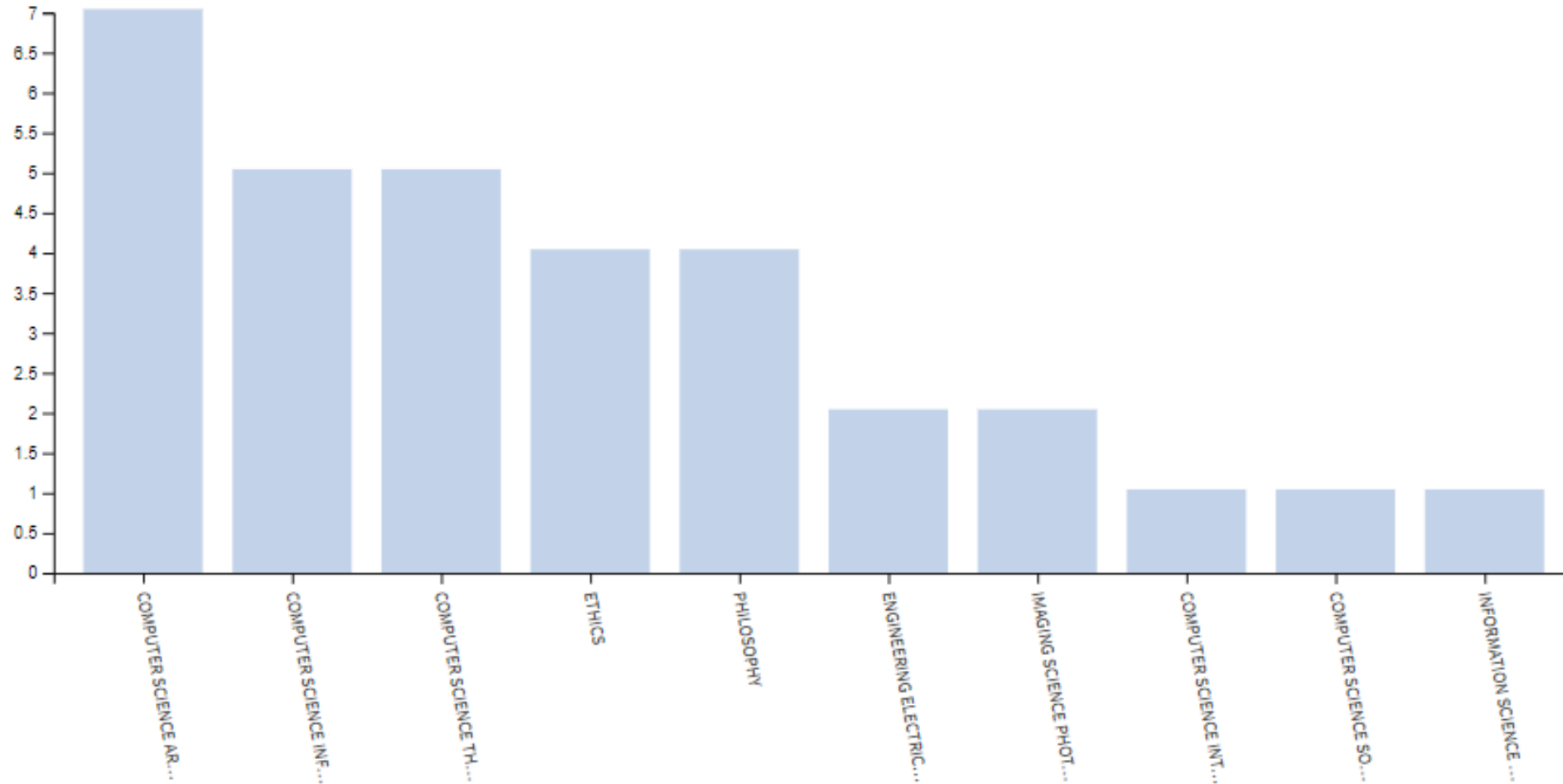
# ANALYSIS OF AUTHORS PUBLICATIONS FIELDS IS DISPLAYED (BAR GRAPH)

Visualization **Bar graph** ▼

Number of results **10** ▼


Download


Hide





# GO BACK TO THE LIST OF AUTHOR'S PUBLICATIONS

Select Page    [Export...](#)    [Add to Marked List](#)

1. **Carnap's Logical Syntax of Language and the Problem of Category-Mistake**  
By: **Vacura, Miroslav**  
FILOSOFICKY CASOPIS Volume: 67 Issue: 1 Pages: 69-88 Published: 2019  
 [View Abstract](#) ▼

2. **The Concept of Freedom in Thomas Hobbes**  
By: **Vacura, Miroslav**  
FILOSOFICKY CASOPIS Volume: 65 Issue: 3 Pages: 385-401 Published: 2017  
 [View Abstract](#) ▼

3. **Categorization Power of Ontologies with Respect to Focus Classes**  
By: Svatek, Vojtech; Zamazal, Ondrej; **Vacura, Miroslav**  
Conference: 20th International Conference on Knowledge Engineering and Knowledge Management (EKAW) Location: Bologna, ITALY Date: NOV 19-23, 2016  
KNOWLEDGE ENGINEERING AND KNOWLEDGE MANAGEMENT, EKAW 2016

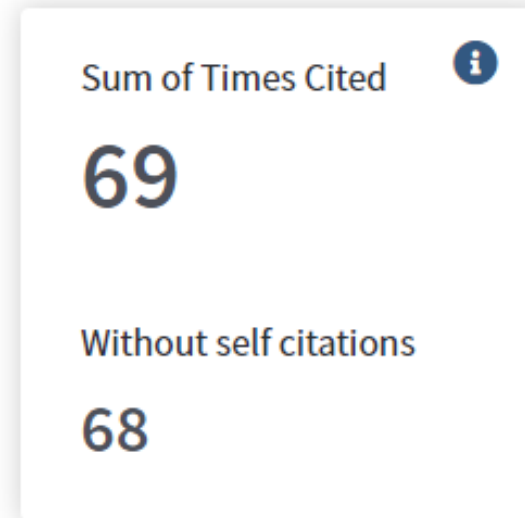
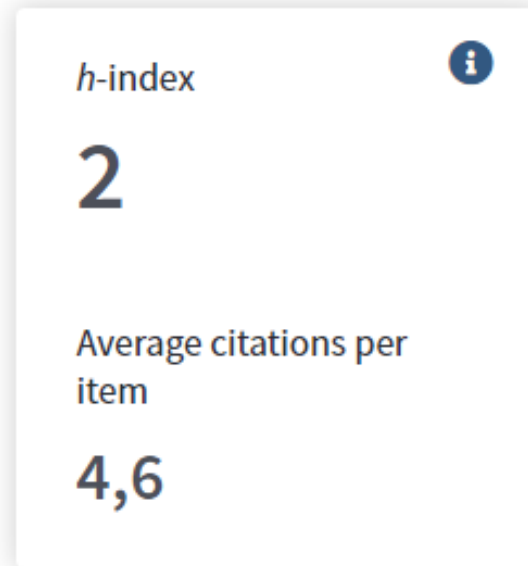
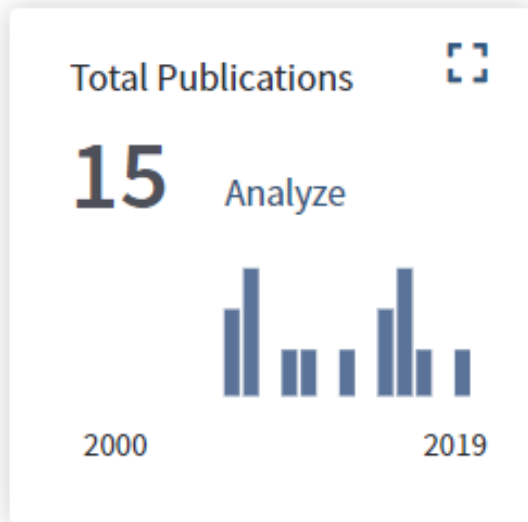
 **Analyze Results**  
 **Create Citation Report**

**Times Cited: 0**  
*(from Web of Science Core Collection)*

**Usage Count** ▼

Click „Create citation report“

# CITATION REPORT CONTAINS VARIOUS STATISTICS ABOUT AUTHOR'S RESEARCH





## Total Publications

Number of publications of the author included in databases.

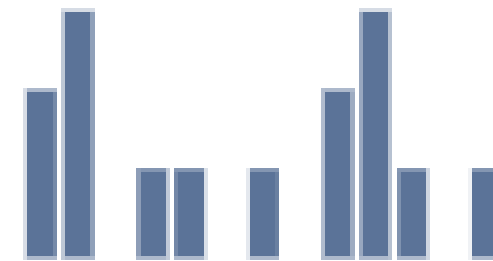
Does not include „all“ publications of the author, only those that are included in Web of Science databases.

## Total Publications



# 15

## Analyze



2000

2019

## H-index

Hirsch index or Hirsch number

Maximum value of  $h$  such that the given author has published  $h$  papers that have each been cited at least  $h$  times.

*h*-index



2

Average citations per item

4,6

Average citations per  
item

Average number of  
citations that  
publications of the  
author received.

*h*-index



2

Average citations per  
item

4,6

## Total Citations

Number of other papers, journal articles and books, included in Web of Science databases that cite author's works.

The second number is without his own authored works citing other his own authored works.

Sum of Times Cited 

69

Without self citations

68



## Total Citations

Number of other papers, journal articles and books, included in Web of Science databases that cite author's works.

The second number is without his own authored works citing other his own authored works.

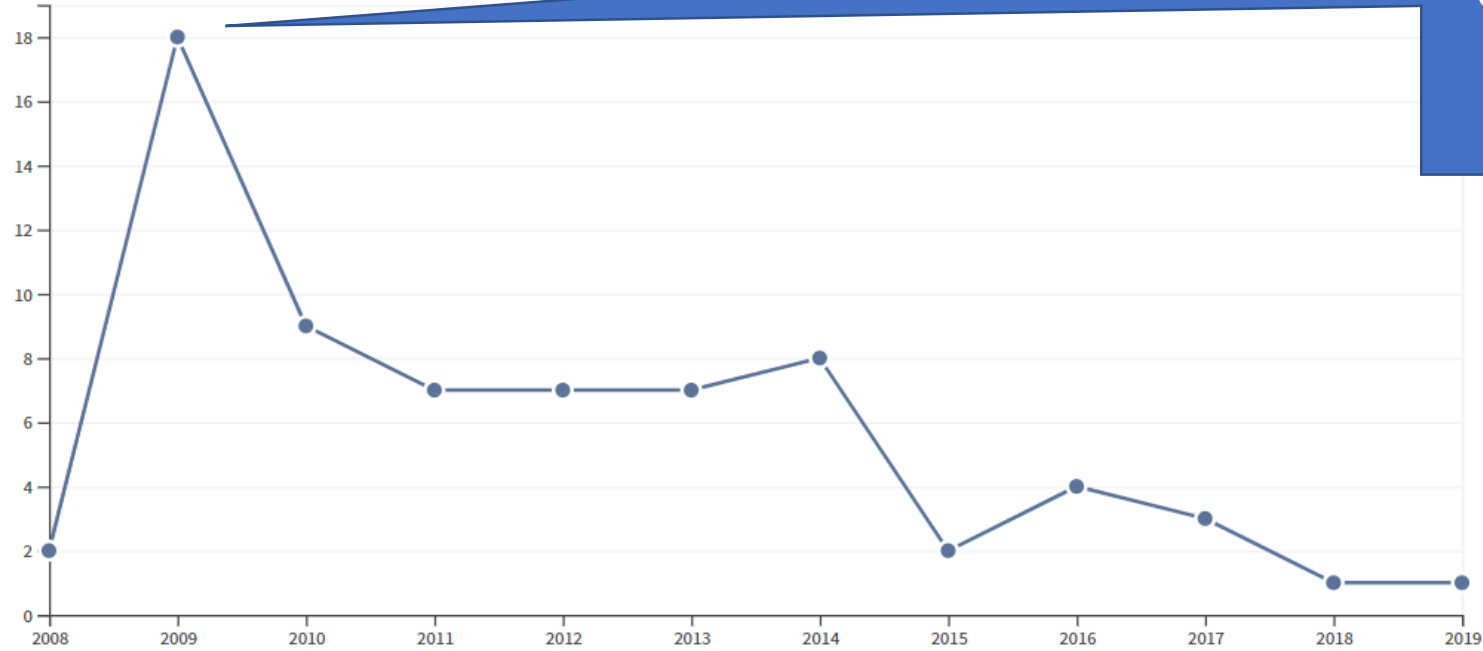
Sum of Times Cited 

69

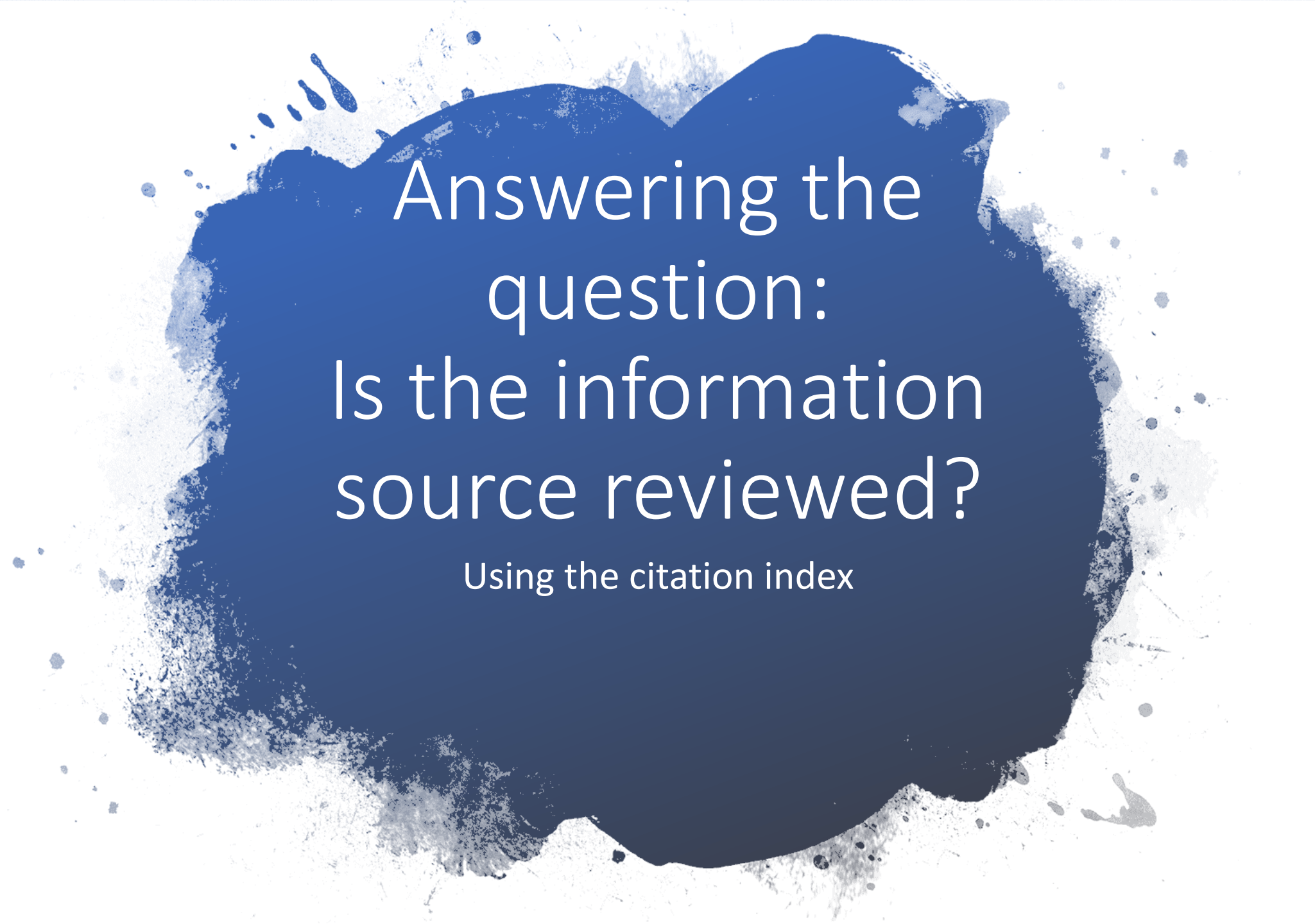
Without self citations

68

Citation spike in  
year 2009



ADDITIONAL GRAPH DESCRIBES  
AUTHOR'S CITATIONS OVER TIME



Answering the  
question:  
Is the information  
source reviewed?

Using the citation index

Is the  
information  
source  
reviewed?

- If citation index contains information about journal, then the journal is reviewed.
- Citation index enables us also to evaluate quality of journals.



Journal citation  
reports

Web of Science

InCites

Journal Citation Reports

Essential


Web of Science



# Assesing the quality of the Journal

Find journal by name

Enter a journal name

**Browse by Journal**



**Browse by Category**



**Custom Reports**

By browsing a category

Find journal by name

- Use the name „Economic policy“ to find an economic journal that interests you.
- At the top of the page general information about the journal is displayed.
- Journal standard numbers ISSN, eISSN.
- Journal Publisher and its address.

# ECONOMIC POLICY

ISSN: 0266-4658

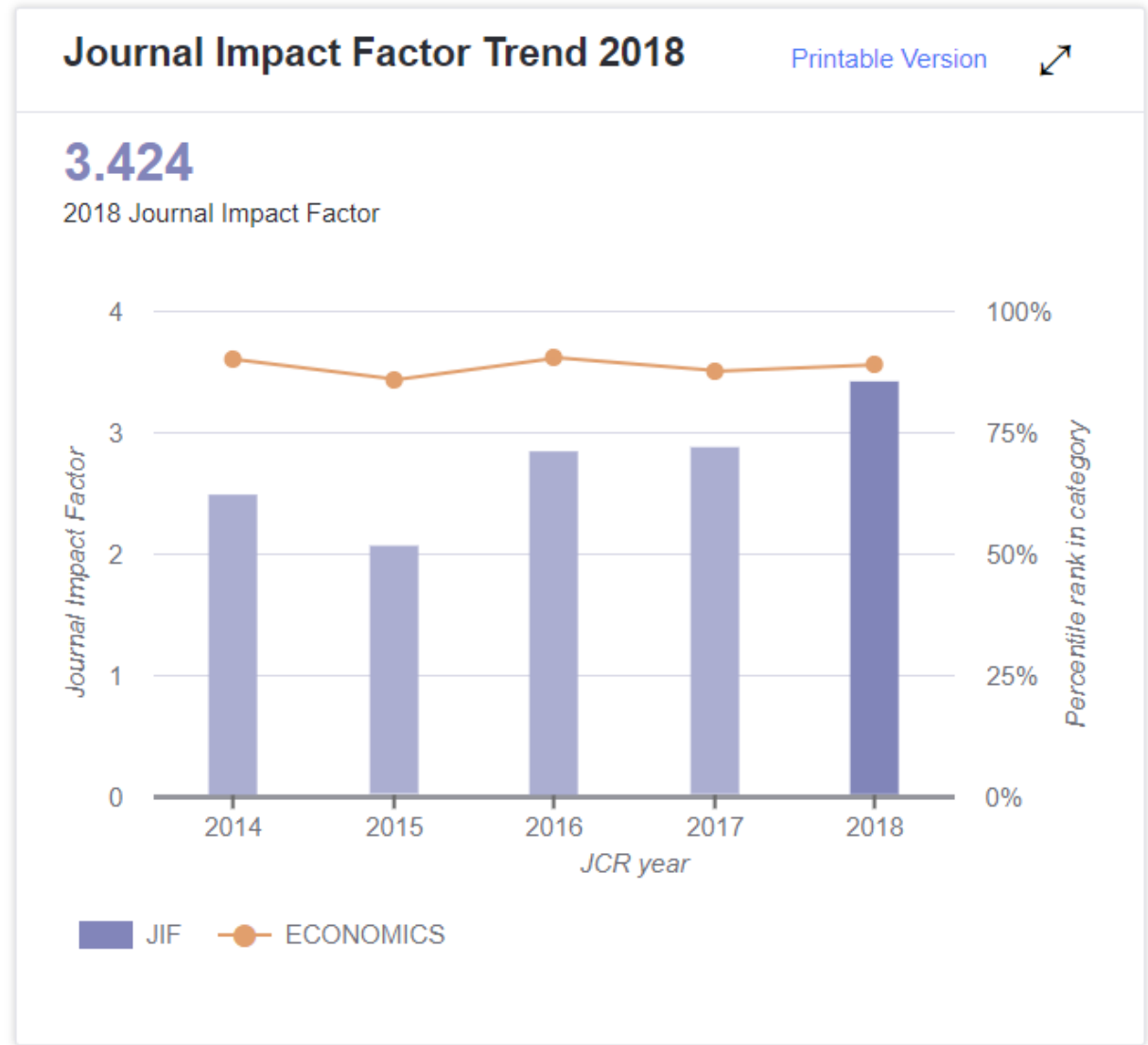
eISSN: 1468-0327

OXFORD UNIV PRESS

GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND  
ENGLAND

# Journal impact factor

- Quality of a journal is determined by its „impact factor“.
- This graph shows:
  - Absolute value of IF (3.424)
  - Relative position of the journal in the category of Economics (89%).



## Journal impact factor

- How is impact factor calculated?
- Number of citations is divided by number of citable items.

$$\text{JIF} = \frac{\text{Citations in 2018 to items published in 2016 (72) + 2017 (41)}}{\text{Number of citable items in 2016 (16) + 2017 (17)}} = \frac{113}{33}$$

## Citation distribution

- The next graph shows citation distribution.
- The most items were cited 1-3 times.
- One item was cited 20 times.

### Citation distribution 2018

[Printable Version](#)

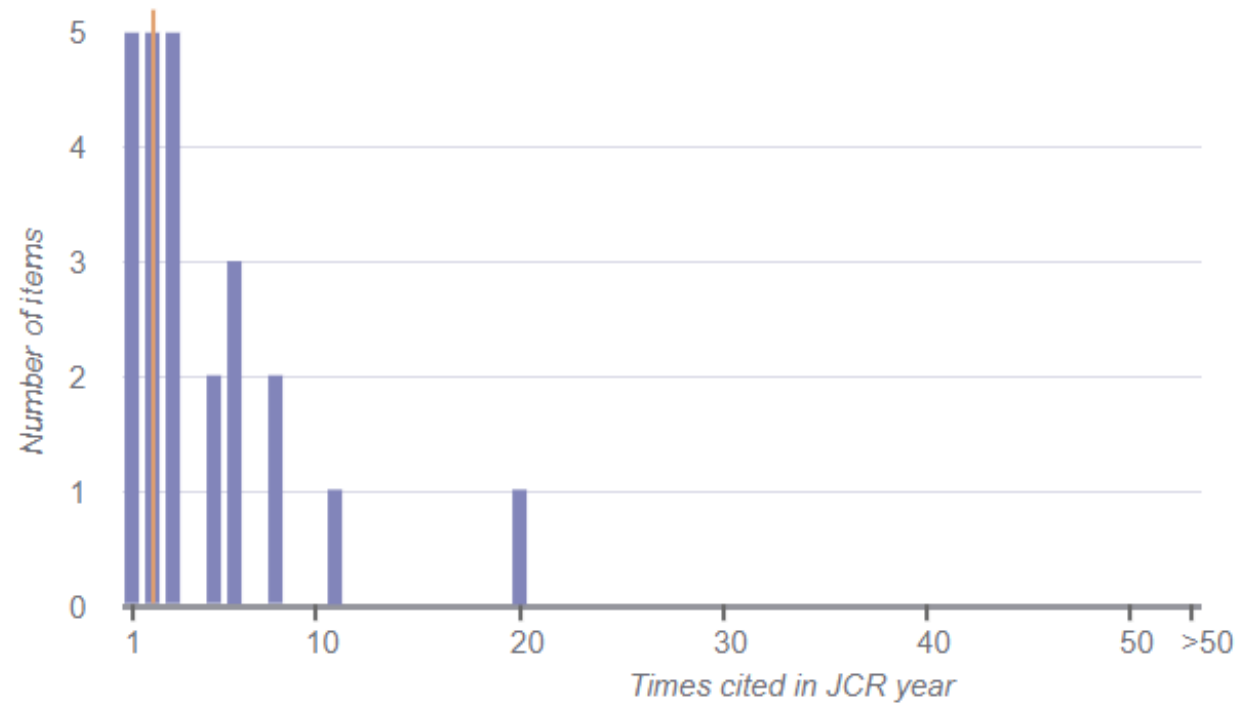


2

n/a

Article citation median

Review citation median



## Citation distribution

- The next graph shows citation distribution.
- The most items were cited 1-3 times.
- One item was cited 20 times.

### Citation distribution 2018

[Printable Version](#)

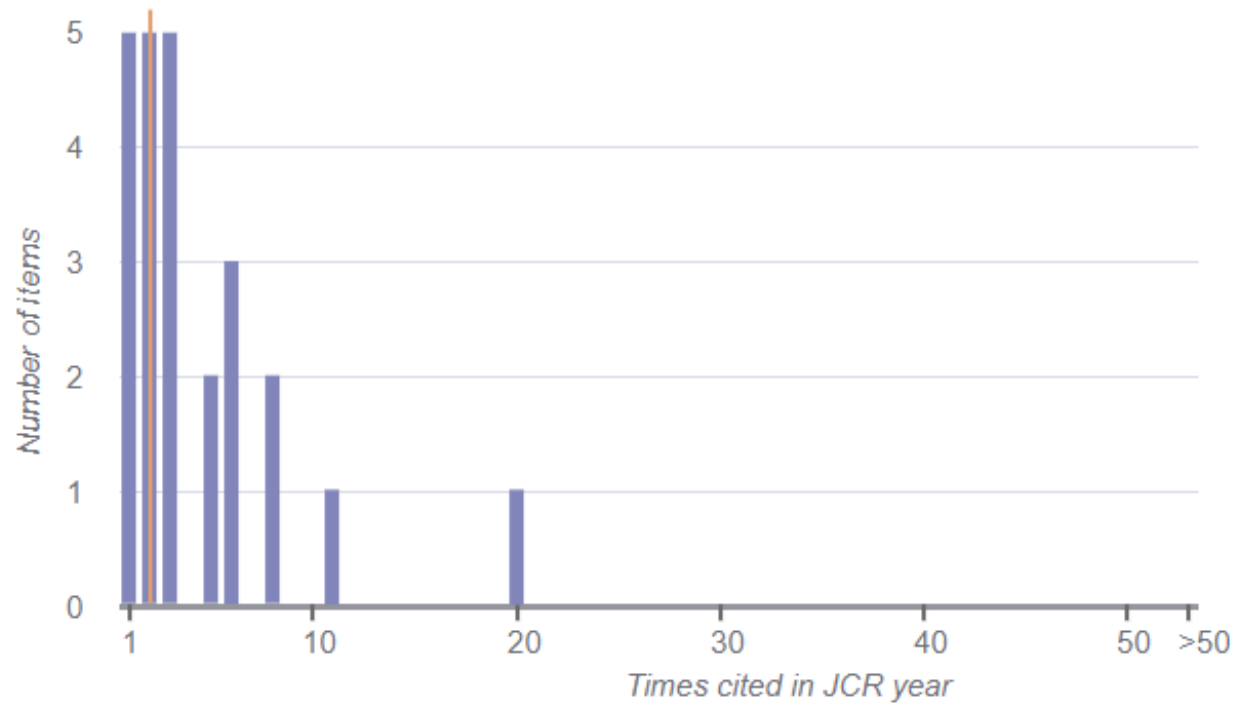


2

n/a

Article citation median

Review citation median



## The most cited items

- Page of the journal also contains the list of the most cited published items.

TITLE	CITATIONS COUNTED TOWARDS JIF
The great mortgaging: housing finance, crises and business cycles By: Jorda, Oscar; Schularick, Moritz; Taylor, Alan M. Volume: 31 Page: 107-152 Accession number: WOS:000370157100004 Document Type: Article	20
Bank bias in Europe: effects on systemic risk and growth By: Langfield, Sam; Pagano, Marco Volume: 31 Page: 51-106 Accession number: WOS:000370157100003 Document Type: Article	11
Did export promotion help firms weather the crisis? By: Van Biesebroeck, Johannes; Konings, Jozef; Martincus, Christian Volpe Volume: 31 Page: 653-702 Accession number: WOS:000387580800003 Document Type: Article	8
Who voted for Brexit? A comprehensive district-level analysis By: Becker, Sascha O.; Fetzer, Thiemo; Novy, Dennis Volume: 32 Page: 601-650 Accession number: WOS:000412829800002 Document Type: Article	8



## Other key indicators of journal quality

- Impact factor
- 5 year Impact factor average.
- Immediacy index = the average number of times an article is cited in the year it is published.

IMPACT METRICS	
<b>Total Cites</b>	1,518
<b>Journal Impact Factor</b>	3.424
<b>5 Year Impact Factor</b>	4.207
<b>Immediacy Index</b>	0.500
<b>Impact Factor Without Journal Self Cites</b>	3.333

## Other key indicators of journal quality

- Eigenfactor score
- Journals are rated according to the number of incoming citations,
- However, citations from highly ranked journals weighted to make a larger contribution to the eigenfactor than those from poorly ranked journals.

### INFLUENCE METRICS

<b>Eigenfactor Score</b>	0.00340
<b>Article Influence Score</b>	3.141
<b>Normalized Eigenfactor</b>	0.40410

## Other key indicators of journal quality

- Article influence score
- Determines the average influence of a journal's articles over the first five years after publication.
- Calculated by multiplying the Eigenfactor Score by 0.01 and dividing by the number of articles in the journal, normalized as a fraction of all articles in all publications.

### INFLUENCE METRICS

<b>Eigenfactor Score</b>	0.00340
------------------------------	---------

<b>Article Influence Score</b>	3.141
------------------------------------	-------

<b>Normalized Eigenfactor</b>	0.40410
-----------------------------------	---------

## Other key indicators of journal quality

- Normalized eigenfactor
- Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1

### INFLUENCE METRICS

**Eigenfactor Score** 0.00340

**Article Influence Score** 3.141

**Normalized Eigenfactor** 0.40410

## Other key indicators of journal quality

- The most important value in source metrics in Average JIF Percentile.
- It enables us to compare journal with other journals in the same category.

### SOURCE METRICS

<b>Citable Items</b>	16
<b>% Articles in Citable Items</b>	100.00
<b>Average JIF Percentile</b>	89.394
<b>Cited Half-Life</b>	10.9
<b>Citing Half-Life</b>	7.8

# Thank you for your attention

Národohospodářská fakulta, VŠE v Praze



This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.