

**MUNI**  
**ARTS**

# **Bibliometrie**

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# Bibliometrie

- Bibliometrie měří, sleduje a analyzuje vědeckou literaturu (ROEMER a BORCHARDT 2015)
  - Pritchard (1969) explained the term ***bibliometrics*** as “the application of mathematical and statistical methods to books and other media of communication”.
  - Nalimov and Mulchenko (1969) defined ***scientometrics*** as “the application of those quantitative methods which are dealing with the analysis of science viewed as an information process”.
- Cíl bibliometrie:
  - Dříve spíše pro knihovny (rozvoj fondu), nyní pro hodnocení/financování vědy a strategické rozhodování (mimo kontext vzniku).

# Citační databáze

## Web of Science

- Impact factor
- AIS (Article Influence Score)
- H-Index
- Citovanost
- ResearcherID (WoS)
- ORCID ID

## Scopus

- CiteScore
- SJR (SCImago journal rank)
- SNIP (Source-Normalized Impact per Paper)
- H-Index
- Citovanost
- ORCID ID

# (Journal) Impact Factor

## Journal Impact Factor Calculation

$$\begin{array}{l} \text{2019} \\ \text{Journal} \\ \text{Impact} \\ \text{Factor} \end{array} = \frac{74,521}{1,742} = 42.779$$

How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\begin{array}{l} \text{Citations in 2019 to} \\ \text{items published in 2017} \\ (40,796) + \text{2018} \\ (33,725) \end{array}}{\begin{array}{l} \text{Number of citable items} \\ \text{in 2017 (838) + 2018} \\ (904) \end{array}} = \frac{74,521}{1,742} <$$

# Article Influence Score/EigenFactor Score

## Calculating Eigenfactor Score and Article Influence Score

The 2006 JCR indexes the citations from 7611 "source" journals for the Sciences and Social Sciences. From these data, we extract a 5-year cross citation matrix  $\mathbf{Z}$ . For 2006, the entries of this matrix would be:

$\mathbf{Z}_{ij}$  = Citations from journal  $j$  in 2006 to articles published in journal  $i$  during 2001–2005.

When constructing  $\mathbf{Z}$ , we omit all self-citations<sup>2</sup>, setting all of the diagonal elements of this matrix to 0. We normalize  $\mathbf{Z}$  by the column sums (i.e., by the total number of outgoing citations from each journal) to create a column-stochastic matrix  $\mathbf{H}$ :

$$\mathbf{H}_{ij} = \frac{\mathbf{Z}_{ij}}{\sum_k \mathbf{Z}_{kj}}$$

$$EF = 100 \frac{\mathbf{H} \pi^*}{\sum_i [\mathbf{H} \pi^*]_i}$$

$\frac{0.01 * \text{EigenFactor Score}}{X}$

The equation is as follows:

$X$

where  $X$  = 5-year Journal Article Count divided by the 5-year Article Count from All Journals.

# CiteScore

## CiteScore 2016 methodology



CiteScore 2016 counts the citations received in 2016 to documents published in 2013, 2014 or 2015, and divides this by the number of documents published in 2013, 2014 and 2015.



### 3-year publication window

The 3-year CiteScore time window was chosen as a best fit for all subject areas. Research shows that a 3-year publication window is long enough to capture the citation peak of the majority of disciplines.

### Frequency

	CiteScore	CiteScore Tracker (on Scopus.com)
Calculated	Annually	12 times per year
Updates	None	Monthly

### Document types

All types of documents (research articles, review articles, conference proceedings, editorials errata, letters, notes, and short surveys) are included in the CiteScore calculation. Although articles in press are included in Scopus they are not included in the calculation.

# SCImago Journal Rank (SJR)

$$SJR_i = \frac{(1-d-e)}{N} + e \cdot \frac{Art_i}{\sum_{j=1}^N Art_j} + d \cdot \sum_{j=1}^N \frac{C_{ji} \cdot SJR_j}{C_j} \cdot \frac{1 - \left( \frac{\sum_{k \in \{Dangling\text{-nodes}\}} SJR_k}{\sum_{h=1}^N \sum_{k=1}^N \frac{C_{kh} \cdot SJR_k}{C_k}} \right)}{\sum_{h=1}^N \sum_{k=1}^N \frac{C_{kh} \cdot SJR_k}{C_k}} + d \cdot \left[ \frac{\sum_{k \in \{Dangling\text{-nodes}\}} SJR_k}{\sum_{j=1}^N Art_j} \right] \cdot \frac{Art_i}{\sum_{j=1}^N Art_j}$$

$$SJRQ_i = \frac{SJR_i}{Art_i}$$

$SJR_i$  - Scimago Journal Rank of the Journal  $i$ .

$C_{ji}$  - Citation from journal  $j$  to journal  $i$ .

$C_j$  - Number of References of journal  $j$ .

$d$  - Constant, normally 0.85.

$e$  - Constant, normally 0.10.

$N$  - Number of Journals

$Art_j$  - Number of Articles of journal  $j$



# Seznam časopisů

Journal Data Filtered By: Selected JCR Year: 2019 Selected Editions: SCIE,SSCI Selected

Categories: 'ETHICS','HISTORY & PHILOSOPHY OF SCIENCE','MULTIDISCIPLINARY SCIENCES' Selected Category Scheme: WoS

- NATURE	- Journal of Tabriz University for Science	- ECONOMICS AND PHILOSOPHY	- International Journal of Feminist Approaches To Bioethics
- SCIENCE	- Journal of Radiation Research and Applied Sciences	- SCIENTIST	- JOURNAL FOR THE HISTORY OF ASTRONOMY
- National Science Review	- BIOETHICS	- INQUIRY: AN INTERDISCIPLINARY JOURNAL OF PHILOSOPHY	- Early Science and Medicine
- Science Advances	- ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	- PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES	- Historical Studies in the Natural Sciences
- Nature Human Behaviour	- Medicine Health Care and Philosophy	- Ethics & International Affairs	- Historical Studies in the Natural Sciences
- Nature Communications	- SCIENCE AS CULTURE	- KENNEDY INSTITUTE OF ETHICS JOURNAL	- Theology and Science
- Science Bulletin	- SCIENTIFIC AMERICAN	- BRITISH JOURNAL FOR THE HISTORY OF SCIENCE	- HERALD OF THE RUSSIAN ACADEMY OF SCIENCES
- PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	- HASTINGS CENTER REPORT	- East Asian Science Technology and Society-An International Journal	- SOCIAL PHILOSOPHY & POLICY
- AMERICAN JOURNAL OF BIOETHICS	- RENDICONTI Lincei-Scienze Fisiche E Naturali	- Proceedings of the Estonian Academy of Sciences	- AGRICULTURAL HISTORY
- Journal of Advanced Research	- HEALTH CARE ANALYSIS	- Iranian Journal of Science and Technology Transaction A-Science	- AGRICULTURAL HISTORY
- DigSci@ence	- Philosophy Ethics and Humanities in Medicine	- HISTORY AND PHILOSOPHY OF THE LIFE SCIENCES	- CRYPTOLOGIA
- Scientific Data	- Philosophy Ethics and Humanities in Medicine	- HISTORY AND PHILOSOPHY OF THE LIFE SCIENCES	- JOURNAL OF VALUE INQUIRY
- Research Synthesis Methods	- European Physical Journal H	- DISCRETE DYNAMICS IN NATURE AND SOCIETY	- SCIENCE&SIA
- ANNALS OF THE NEW YORK ACADEMY OF SCIENCES	- JOURNAL OF AGRICULTURAL & ENVIRONMENTAL ETHICS	- JOURNAL OF THE PHILOSOPHY OF SPORT	- ACTA SCIENTIARUM-TECHNOLOGY
- FRACTALS.COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY	- JOURNAL OF AGRICULTURAL & ENVIRONMENTAL ETHICS	- Journal of Media Ethics	- NATIONAL ACADEMY SCIENCE LETTERS-INDIA
- iScience	- SYNTHESIS	- JOURNAL OF THE HISTORY OF BIOLOGY	- JOURNAL OF THE NATIONAL SCIENCE FOUNDATION OF SRI LANKA
- GLOBAL CHALLENGES	- SYNTHESIS	- JOURNAL OF THE HISTORY OF BIOLOGY	- Antike
- JOURNAL OF BUSINESS ETHICS	- Developing World Bioethics	- RADICAL PHILOSOPHY	- HYLE
- SOCIAL STUDIES OF SCIENCE	- MEDICAL HISTORY	- JOURNAL OF THE ROYAL SOCIETY OF NEW ZEALAND	- HYLE
- SOCIAL STUDIES OF SCIENCE	- MEDICAL HISTORY	- European Journal for Philosophy of Science	- Notes and Records-The Royal Society Journal of the History of Science
- Scientific Reports	- Journal of Bioethical Inquiry	- LAW AND PHILOSOPHY	- Journal of the History of the Neurosciences
- JOURNAL OF KING SAUD UNIVERSITY SCIENCE	- HECI Forum	- JOURNAL OF THE HISTORY OF MEDICINE AND ALLIED SCIENCES	- COMPTES RENDUS DE L'ACADEMIE BULGARE DES SCIENCES
- Journal of the Royal Society Interface	- PHILOSOPHY OF SCIENCE	- JOURNAL OF THE HISTORY OF MEDICINE AND ALLIED SCIENCES	- ANNALS OF SCIENCE
- Frontiers in Bioengineering and Biotechnology	- PHILOSOPHY OF SCIENCE	- TECHNOLOGY AND CULTURE	- ANNALS OF SCIENCE
- NPJ Microgravity	- Proceedings of the Romanian Academy Series A-Mathematics Physics Technical Sciences Information Science	- TECHNOLOGY AND CULTURE	- HISTORY AND PHILOSOPHY OF LOGIC
- PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES	- ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS	- PHILOSOPHICAL PSYCHOLOGY	- Historical Records of Australian Science
- Journal of Responsible Innovation	- Frontiers in Life Science	- SOCIAL HISTORY OF MEDICINE	- History of Geo- and Space Sciences
- PROCEEDINGS OF THE JAPAN ACADEMY SERIES B-PHYSICAL AND BIOLOGICAL SCIENCES	- Science & Education	- SOCIAL HISTORY OF MEDICINE	- History of Geo- and Space Sciences
- Advanced Theory and Simulations	- JOURNAL OF POLITICAL PHILOSOPHY	- BULLETIN OF THE HISTORY OF MEDICINE	- Nexus Network Journal
- SCIENCE AND ENGINEERING ETHICS	- NEW GENETICS AND SOCIETY	- BULLETIN OF THE HISTORY OF MEDICINE	- Journal of Social Philosophy
- SCIENCE AND ENGINEERING ETHICS	- Journal of Empirical Research on Human Research Ethics	- JOURNAL OF THE INDIAN INSTITUTE OF SCIENCE	- Mago International Journal of Science and Technology
- PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES	- STUDIES IN HISTORY AND PHILOSOPHY OF SCIENCE	- IEEE ANNALS OF THE HISTORY OF COMPUTING	- Chang Mai Journal of Science
- PLoS One	- STUDIES IN HISTORY AND PHILOSOPHY OF SCIENCE	- Philosophia Mathematica	- Eiskl / Praksis
- Royal Society Open Science	- Journal of Applied Philosophy	- TRANSACTIONS OF THE ROYAL SOCIETY OF SOUTH AUSTRALIA	- ENDEAVOUR
- Symmetry-Basel	- OSIRIS	- DEFENCE SCIENCE JOURNAL	- Revue d'Histoire des Mathématiques
- BUSINESS ETHICS QUARTERLY	- OSIRIS	- CURRENT SCIENCE	- HISTORIA MATHEMATICA
- BRITISH JOURNAL FOR THE PHILOSOPHY OF SCIENCE	- Public Health Ethics	- PHILOSOPHY OF THE SOCIAL SCIENCES	- HISTORIA MATHEMATICA
- BRITISH JOURNAL FOR THE PHILOSOPHY OF SCIENCE	- Neuroethics	- AMERICAN SCIENTIST	- Berichte zur Wissenschaftsgeschichte
- NURSING ETHICS	- Engineering Studies	- Studies in History and Philosophy of Science Part C-Studies in History and Philosophy of Biological and Biomedical Sciences	- Berichte zur Wissenschaftsgeschichte
- INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS	- Engineering Studies	- Studies in History and Philosophy of Science Part C-Studies in History and Philosophy of Biological and Biomedical Sciences	- ENVIRONMENTAL ETHICS
- COMPLEXITY	- Jove-Journal of Visualized Experiments	- HISTORY OF THE HUMAN SCIENCES	- NEW SCIENTIST
- BMC Medical Ethics	- Science and Technology Studies	- HISTORY OF THE HUMAN SCIENCES	- Ethics & Global Politics
- AGRICULTURE AND HUMAN VALUES	- JOURNAL OF MEDICINE AND PHILOSOPHY	- Foundations of Chemistry	- STUDIES IN EAST EUROPEAN THOUGHT
- AGRICULTURE AND HUMAN VALUES	- BIOLOGY & PHILOSOPHY	- Politics Philosophy & Economics	- Nodus-Journal of the History of Science
- PeerJ	- BIOLOGY & PHILOSOPHY	- Foundations of Science	- Nodus-Journal of the History of Science
- MIT Technology Review	- ETHICS & BEHAVIOR	- ISIS	- CENTAURUS
- PUBLIC UNDERSTANDING OF SCIENCE	- PHILOSOPHY & PUBLIC AFFAIRS	- ISIS	- CENTAURUS
- Journal of Law and the Biosciences	- JOURNAL OF LAW MEDICINE & ETHICS	- ISIS	- Imago Mundi-The International Journal for the History of Cartography
- ENVIRONMENTAL VALUES	- STUDIES IN HISTORY AND PHILOSOPHY OF MODERN PHYSICS	- ISIS	- EARTH SCIENCES HISTORY
- Science of Nature	- Biomimetics	- Journal of Moral Philosophy	- EARTH SCIENCES HISTORY
- MINERVA	- Biomimetics	- Journal of Moral Philosophy	- PHYSICS IN PERSPECTIVE
- Ethics and Information Technology	- HISTORY OF SCIENCE	- Journal of Moral Philosophy	- PHYSICS IN PERSPECTIVE
- JOURNAL OF MEDICAL ETHICS	- HISTORY OF SCIENCE	- Journal of Moral Philosophy	- Dynamics
- NanoEthics	- ISSUES IN SCIENCE AND TECHNOLOGY	- Journal of Moral Philosophy	- Dynamics
- NanoEthics	- Social Epistemology	- Journal of Moral Philosophy	- SCIENCE IN CONTEXT
- SCIENCE PROGRESS	- ADVANCES IN COMPLEX SYSTEMS	- Journal of Moral Philosophy	- SCIENCE IN CONTEXT
- ETHICS	- PERSPECTIVES IN BIOLOGY AND MEDICINE	- Journal of Moral Philosophy	- ARCHIVES FOR HISTORY OF EXACT SCIENCES
- SOUTH AFRICAN JOURNAL OF SCIENCE	- THEORETICAL MEDICINE AND BIOETHICS	- Journal of Moral Philosophy	- HUMAN STUDIES
		- Kuwait Journal of Science	- Bollettino di Storia delle Scienze Matematiche



# Seznam časopisů

Journal Data Filtered By: Selected JCR Year: 2019 Selected Editions: SCIE,SSCI Selected

## Categories: 'COMMUNICATION' Selected Category Scheme: WoS

- JOURNAL OF ADVERTISING
- POLITICAL COMMUNICATION
- Journal of Computer-Mediated Communication
- Communication Methods and Measures
- JOURNAL OF COMMUNICATION
- NEW MEDIA & SOCIETY
- Information Communication & Society
- Digital Journalism
- COMMUNICATION MONOGRAPHS
- COMMUNICATION RESEARCH
- International Journal of Advertising
- HUMAN COMMUNICATION RESEARCH
- Comunicar
- Journalism
- Social Media + Society
- Policy and Internet
- International Journal of Press-Politics
- Mobile Media & Communication
- EUROPEAN JOURNAL OF COMMUNICATION
- PUBLIC OPINION QUARTERLY
- MEDIA PSYCHOLOGY
- INFORMATION SOCIETY
- JOURNAL OF SOCIAL AND PERSONAL RELATIONSHIPS
- Journalism Studies
- PUBLIC UNDERSTANDING OF SCIENCE
- SCIENCE COMMUNICATION
- PUBLIC RELATIONS REVIEW
- TELECOMMUNICATIONS POLICY
- JOURNAL OF ADVERTISING RESEARCH
- JOURNALISM & MASS COMMUNICATION QUARTERLY
- MEDIA CULTURE & SOCIETY
- HEALTH COMMUNICATION
- COMMUNICATION THEORY
- Journal of Public Relations Research
- International Communication Gazette
- INTERNATIONAL JOURNAL OF CONFLICT MANAGEMENT
- Mass Communication and Society
- Environmental Communication-A Journal of Nature and Culture
- INTERNATIONAL JOURNAL OF PUBLIC OPINION RESEARCH
- Journal of Information Technology & Politics
- WRITTEN COMMUNICATION
- Convergence-The International Journal of Research into New Media Technologies
- CRITICAL STUDIES IN MEDIA COMMUNICATION
- JOURNAL OF BROADCASTING & ELECTRONIC MEDIA
- Feminist Media Studies
- JOURNAL OF HEALTH COMMUNICATION
- RESEARCH ON LANGUAGE AND SOCIAL INTERACTION
- Profesional de la Informacion
- Journalism Practice
- PERSONAL RELATIONSHIPS
- DISCOURSE STUDIES
- Discourse & Communication
- Management Communication Quarterly
- Media and Communication
- DISCOURSE & SOCIETY
- Games and Culture
- Discourse Context & Media
- Chinese Journal of Communication
- Cyberpsychology-Journal of Psychosocial Research on Cyberspace
- Journal of Media Psychology-Theories Methods and Applications
- International Journal of Mobile Communications
- International Journal of Business Communication
- Communications-European Journal of Communication Research
- Communication & Sport
- Critical Discourse Studies
- Communication Culture & Critique
- Journal of Children and Media
- LANGUAGE & COMMUNICATION
- JOURNAL OF BUSINESS AND TECHNICAL COMMUNICATION
- International Journal of Communication
- QUARTERLY JOURNAL OF SPEECH
- JOURNAL OF LANGUAGE AND SOCIAL PSYCHOLOGY
- Social Semiotics
- Communication and Critical-Cultural Studies
- JAVNOST-THE PUBLIC
- IEEE TRANSACTIONS ON PROFESSIONAL COMMUNICATION
- Interaction Studies
- Rhetoric Society Quarterly
- JOURNAL OF APPLIED COMMUNICATION RESEARCH
- Argumentation
- Journal of Media Ethics
- Television & New Media
- NARRATIVE INQUIRY
- Asian Journal of Communication
- Media International Australia
- Translator
- Visual Communication
- African Journalism Studies
- Continuum-Journal of Media & Cultural Studies
- Text & Talk
- Journal of African Media Studies
- Tijdschrift voor Communicatiewetenschap

# Literatura

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