

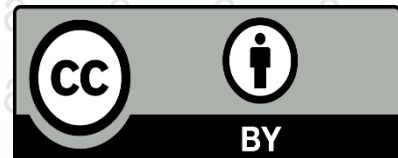


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Alternativní metriky a open peer review

Mgr. Jakub Szarzec | jakub.szarzec@ruk.cuni.cz

Odbor pro vědu a výzkum, Univerzita Karlova



Tato prezentace byla podpořena projektem OP VVV Rozvoj kapacit pro výzkum a vývoj UK II, CZ.02.2.69/0.0/0.0/18_054/0015222



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


MINISTERSTVO ŠKOLSTVÍ,
MLÁDEŽE A TĚLOVÝCHOVY


HR EXCELLENCE IN RESEARCH

Bibliometrie a scientometrie na UK

- Fakulty a jednotlivá pracoviště.
- Vědecko-výzkumní pracovníci.
- Nabídka na:

<https://cuni.cz/UK-11097.html>

Citovanost

Ukazuje souhrnně citovanost prací autora/ky v citačních databázích.

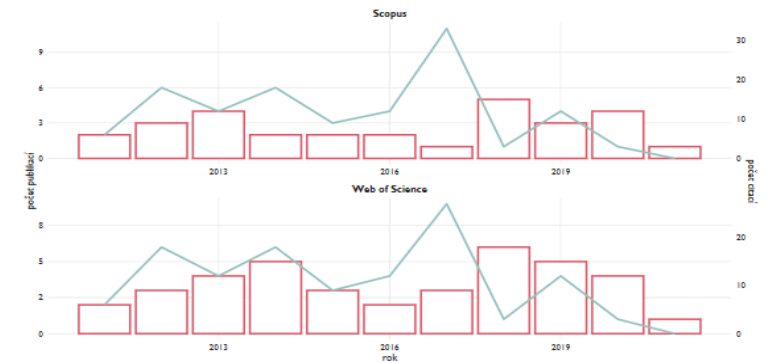
	Celkem prací	Počet citovaných prací	Počet necitovaných prací	Počet citací celkem	Počet citací bez autocitací	Počet citací bez autocitací za posl. 5 let (citace)*	Počet citací bez autocitací za posl. 5 let (publikace) [†]
Web of Science	20	15	5	256	220	90	12
Scopus	18	13	5	240	201	80	10

* počítáno dle citačního okna

† počítáno dle publikačního okna

Publikační aktivita a její celková citovanost

Počet prací a citovanosti vztahený na rok publikování.



h-index

h-index a jeho vybrané varianty odvozené z citovanosti prací autora/ky.

	h-index	h5-index	m-quotient	g-index	citační průměr
Web of Science	5	2	0.500	7	5.6
Scopus	5	2	0.500	7	5.6

Alternativní metriky

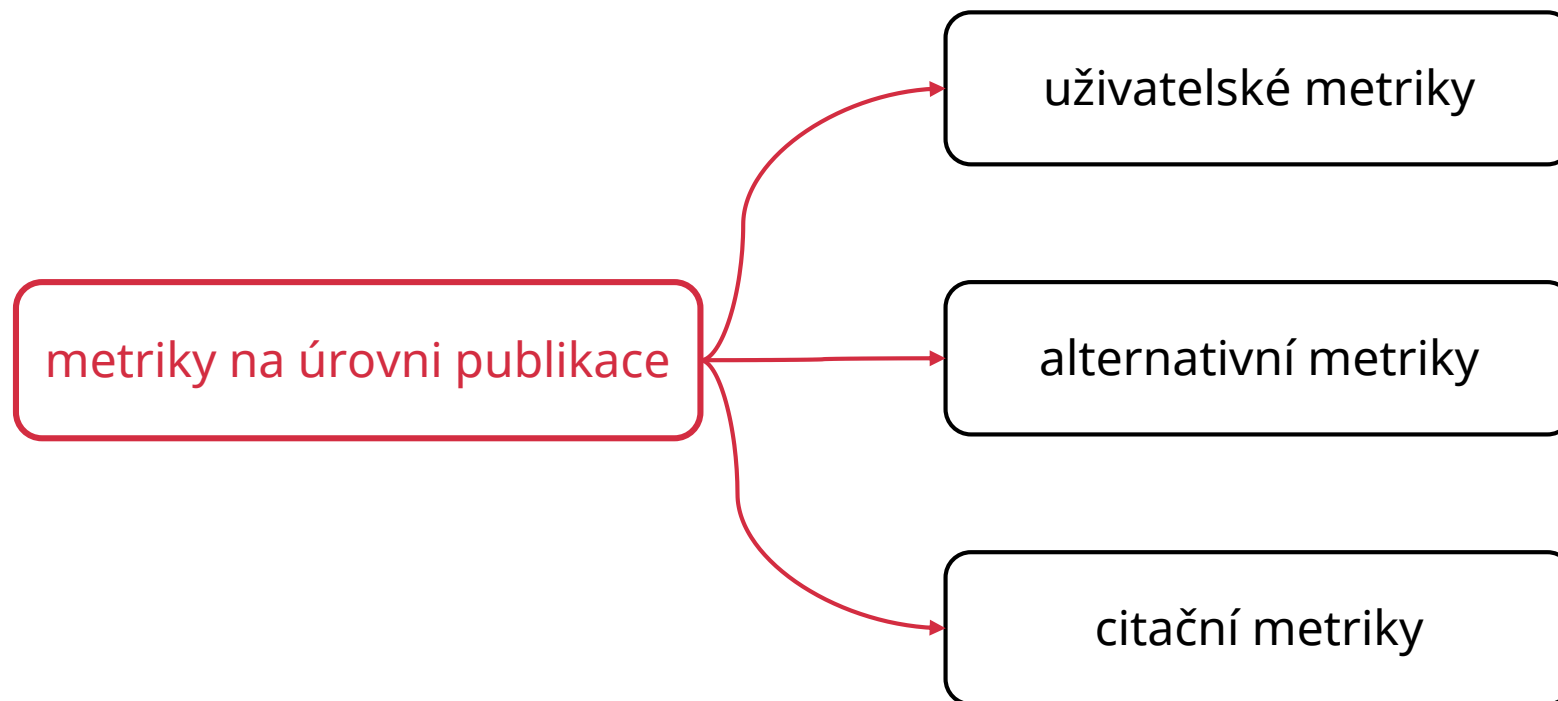
alternativní metriky

=

alternative metrics, altmetrics, altmetriky, alt-metriky

Definice

- „ Altmetrics is broad term that encapsulates the **digital collection, creation, and use of multiple forms of assessment** that are derived from **activity and engagement** among **diverse stakeholders and scholarly outputs** in the research ecosystem” [1]
- **Article-level metrics** (ALM) – metriky na úrovni jednotlivých publikací. [2]



Krátká exkurze do historie

- 2010 => Jason Priem et al: [altmetric: manifesto](#).
- 2009 => PLOS a Article-Level Metric
- Spojeno s historií indexace obsahu vědecké literatury a citačními rejstříky - vývoj v oblasti bibliometrie a scientometrie.
- Eugene Garfield a Institute for Scientific Information.
- Historie internetu a nástroje Webu 2.0 – statický web nahrazen kolektivním sdílením a tvorbou obsahu:
 - bookmarking, správa citací, diskuzní fóra, doporučení, komentování, Wiki, (mikro)blogování a sociální sítě.
- **Scientometrie 2.0** – nespoléhá pouze na tradiční bibliometrické metriky vytvořené citační analýzou. ^[4]
- Open Access a Open Science.

Altmetrics manifesto

- Kategorie těchto metrik a zdrojů.
- Představeny první nástroje.



Zdroj: <http://altmetrics.org/manifesto/>

"No one can read everything. We rely on filters to make sense of the scholarly literature, but the narrow, traditional filters are being swamped. However, the growth of new, online scholarly tools allows us to make new filters; these altmetrics reflect the broad, rapid impact of scholarship in this burgeoning ecosystem. We call for more tools and research based on altmetrics." [3]

--- Jason Priem

Důvody v Altmetrics manifesto

- „Peer-review has served scholarship well, but is beginning to show its age. **It is slow, encourages conventionality, and fails to hold reviewers accountable.** Moreover, given that most papers are eventually published somewhere, **peer-review fails to limit the volume of research.**“
- „Citation counting measures are **useful, but not sufficient.** Metrics like the h-index are even slower than peer-review: a work's first citation can take years. Citation measures are narrow; influential work may remain uncited. **These metrics are narrow; they neglect impact outside the academy, and also ignore the context and reasons for citation.**“
- „The JIF, which measures journals' *average citations per article*, is often **incorrectly used to assess the impact of individual articles.** It's troubling that the exact details of the JIF are a trade secret, and that significant gaming is relatively easy.“

Kategorie

- **Využití/Zobrazení**
 - vydavatelé a bibliografické a plnotextové databáze.
- **Uložení**
 - Mendeley, CiteULike, Zotero, bookmarking, repozitáře.
- **Zmínění/Komentáře/Diskuze**
 - Wikipedie, blogy, zpravodajské webové portály, StackExchange, Slideshare, Github, Reddit, YouTube, Pubpeer a Publons.
- **Sociální sítě/Doporučení**
 - Facebook, Twitter.
- **Citovanost**
 - CrossRef, Dimensions, PubMed Central, Scopus, USPTO, RePEc, atd.

V kontextu vědecké komunikace

- Elektronická publikace – perzistentní identifikátor.
- Výsledky publikační činnosti.
- Co není pokryto v tradičních (citačních) databázích:
 - datasey,
 - software,
 - šedá literatura, –postery a prezentace z konferencí,
 - blogy a další komunikace,
 - výukové materiály, atd.
- Podporováno vydavateli.
- Oborové repozitáře a digitální knihovny.
- Neomezený přístup.

V kontextu s citačními metrikami

- **E. Garfield** v roce 1966 popsal **důvody, proč vědci citují práce ostatních**^[5]:
 - upozornění na práci,
 - doporučení,
 - podpora vlastního stanoviska,
 - propagace vlastního výzkumu,
 - kritika práce nebo autora, který ji napsal, atd.
- **Jaká je motivace uživatele sociálních sítí odkazovat na vědecké práce?**
- **Kdo to je?**

„Mr. X, an impossible idiot, has recently published a paper on gobbledegook. The conclusions reported in his paper are wrong as are the data on which the conclusions are based. The recommendations made by Mr. X, on the basis of his conclusions, will be calamity for mankind.“ [5]

--- Eugene Garfield

Jak to funguje?

- **Persistentní identifikátory:**
 - DOI => elektronická verze publikace
 - ORCID => identifikace autora.

<https://doi.org/10.1093/bioinformatics/btu202>

<https://academic.oup.com/bioinformatics/article/30/16/2389/2748167>

The screenshot shows the article page for 'ThunderSTORM: a comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging' in the journal Bioinformatics. The page includes the journal logo, navigation links, a search bar, and the article title. The article is by Martin Ovesný, Pavel Křížek, Josef Borkovec, Zdeněk Svindych, and Guy M. Hagen. It was published in Volume 30, Issue 16, on August 15, 2014. The page also features an 'Article Contents' section with links to the introduction, features and methods, summary, and references. There are also options for PDF, split view, cite, permissions, and share. A summary box provides a brief overview of the software's capabilities. On the right side, there are sections for 'View Metrics', 'Email alerts', and 'Related articles'.

Nástroje

- Agregátory.
- Komerční:
 - [Almetric](#),
 - [Plum Analytics](#).
- Volně:
 - [Impactstory](#)

Altmetric

<https://www.altmetric.com/>

- **Euan Adie** v roce 2011.
- Digital Science (Holtzbrinck Publishing Group) v roce 2012.
- Altmetric Donut Badge.
- Altmetric Attention Score:
 - **vážený součet** získaných metrik,
 - znamená **množství pozornosti**, kterou výsledek získal.
- Kategorie podle zdroje dat.



ThunderSTORM: a comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging

Overview of attention for article published in Bioinformatics, May 2014



About this Attention Score

In the top 25% of all research outputs scored by Altmetric

MORE...

Mentioned by

- 1 blog
- 10 tweeters
- 3 patents

Citations

673 Dimensions

Readers on

650 Mendeley
1 CiteULike

What is this page?

- SUMMARY
- Blogs
- Twitter
- Patents
- Dimensions citations

You are seeing a free-to-access but limited selection of the activity Altmetric has collected about this research output. [Click here to find out more.](#)

Title	ThunderSTORM: a comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging
Published in	Bioinformatics, May 2014
DOI	10.1093/bioinformatics/btu202 ↗
Pubmed ID	24771516 ↗
Authors	Martin Ovesný, Pavel Křížek, Josef Borkovec, Zdeněk Švindrych, Guy M. Hagen
Abstract	ThunderSTORM is an open-source, interactive and modular plug-in for ImageJ designed for automated... [show]

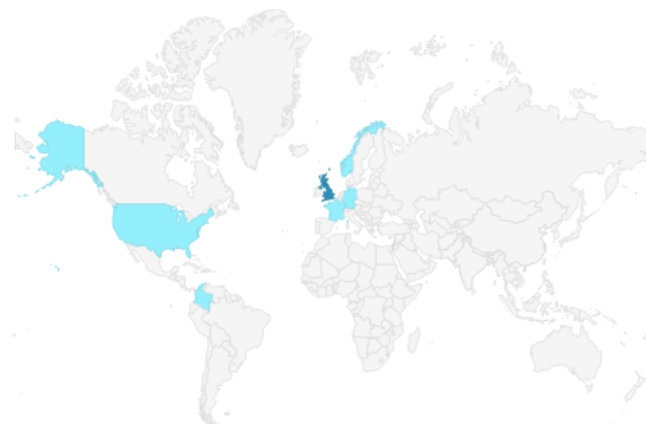
- [View on publisher site](#)
- [Alert me about new mentions](#)

TWITTER DEMOGRAPHICS

MENDELEY READERS

ATTENTION SCORE IN CONTEXT

The data shown below were collected from the profiles of 10 tweeters who shared this research output. [Click here to find out more about how the information was compiled.](#)



Geographical breakdown

Country	Count	As %
United Kingdom	2	20%
United States	1	10%
Norway	1	10%
France	1	10%
Germany	1	10%
Colombia	1	10%

Demographic breakdown

Type	Count	As %
Members of the public	7	70%
Scientists	2	20%
Science communicators (journalists, bloggers, editors)	1	10%

ThunderSTORM: a comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging

Overview of attention for article published in Bioinformatics, May 2014



About this Attention Score

In the top 25% of all research outputs scored by Altmetric

MORE...

Mentioned by

- 1 blog
- 10 tweeters
- 3 patents

Citations

- 673 Dimensions

Readers on

- 650 Mendeley
- 1 CiteULike

What is this page?

SUMMARY

Blogs

Twitter

Patents

Dimensions citations

You are seeing a free-to-access but limited selection of the activity Altmetric has collected about this research output. [Click here to find out more.](#)

Title ThunderSTORM: a comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging
Published in Bioinformatics, May 2014
DOI 10.1093/bioinformatics/btu202 [↗](#)
Pubmed ID 24771516 [↗](#)
Authors Martin Ovesný, Pavel Křížek, Josef Borkovec, Zdeněk Svindrych, Guy M. Hagen
Abstract ThunderSTORM is an open-source, interactive and modular plug-in for ImageJ designed for automated... [\[show\]](#)

[View on publisher site](#)

[Alert me about new mentions](#)

TWITTER DEMOGRAPHICS

MENDELEY READERS

ATTENTION SCORE IN CONTEXT

[?](#) This research output has an **Altmetric Attention Score of 20**. This is our high-level measure of the quality and quantity of online attention that it has received. This Attention Score, as well as the ranking and number of research outputs shown below, was calculated when the research output was last mentioned on **10 November 2020**.

ALL RESEARCH OUTPUTS

#1,206,251

of 17,663,872 outputs

OUTPUTS FROM BIOINFORMATICS

#745

of 10,685 outputs

OUTPUTS OF SIMILAR AGE

#15,076

of 197,239 outputs

OUTPUTS OF SIMILAR AGE FROM BIOINFORMATICS

#23

of 174 outputs

Altmetric has tracked 17,663,872 research outputs across all sources so far. Compared to these this one has done particularly well and is in the 93rd percentile: it's **in the top 10% of all research outputs ever tracked** by Altmetric.

<https://www.altmetric.com/details/2306505>

Altmetric – další nástroje

- [Altmetric Bookmarklet](#):
 - Instalace přes prohlížeč Chrome, Firefox a Safari.
- [Altmetric Badge](#) a Altmetric Details Page.
- [Altmetric API](#).

PlumX

<https://plumanalytics.com/>

- Plum Analytics –PlumX Metrics.
- **Andrea Michalek a Mike Buschman** v roce 2012:
 - 2014 - EBSCO Information Services,
 - 2017 - Elsevier Ltd.
- PlumX Dashboard.
- Výsledky výzkumu jako artefakty:
 - 67 druhů podle 5 kategorií metrik,
 - Usage, Captures, Mentions, Social Media a Citations.
- Součást citační databáze Scopus.





ThunderSTORM: A comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging

Citation Data: Bioinformatics, ISSN: 1460-2059, Vol: 30, Issue: 16, Page: 2389-2390
 Publication Year: 2014

530 Citations | 127 Usage | 665 Captures | 8 Social Media

Home

Highlights

- Patent Family Citations
- Twitter

Metrics Details	
CITATIONS	530
Citation Indexes	529
Scopus ↗	529
PubMed Central ↗	275
CrossRef	124
Patent Family Citations	1
Patent Families	1
USAGE	127
Abstract Views	126
*EBSCO <small>Historical data only</small>	126
Link-outs	1
*EBSCO <small>Historical data only</small>	1
CAPTURES	665
Readers	659
Mendeley ↗	650
Mendeley ↗	5
Mendeley ↗	3
*CiteULike <small>Historical data only</small>	1
Exports-Saves	6
*EBSCO <small>Historical data only</small>	6
SOCIAL MEDIA	8
Tweets	8
Twitter	8

Most Recent Tweet See all tweets >

 **Anandolnजीव** @animesh1977

ThunderSTORM: a comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging ift.tt/1sqlHqt

2:20 PM · Aug 21, 2014

♡ 💬 🔗 Copy link to Tweet

Article Description

Summary: ThunderSTORM is an open-source, interactive and modular plug-in for ImageJ designed for automated processing, analysis and visualization of data acquired by single-molecule localization microscopy methods such as photo-activated localization microscopy and stochastic optical reconstruction microscopy. ThunderSTORM offers an extensive collection of processing and post-processing methods so that users can easily adapt the process of analysis to their data. ThunderSTORM also offers a set of tools for creation of simulated data and quantitative performance evaluation of localization algorithms using Monte Carlo simulations. © The Author 2014.

Bibliographic Details

DOI: [10.1093/bioinformatics/btu202](https://doi.org/10.1093/bioinformatics/btu202) ↗
 PMID: [PMC4207427](https://pubmed.ncbi.nlm.nih.gov/24771516/) ↗
 PMID: [24771516](https://pubmed.ncbi.nlm.nih.gov/24771516/) ↗
 URL ID: <http://www.scopus.com/inward/record.url?partnerID=HzOxMe3b&scp=84906239598&origin=inward> ↗; <http://dx.doi.org/10.1093/bioinformatics/btu202> ↗; <http://www.ncbi.nlm.nih.gov/pubmed/24771516> ↗; <https://academic.oup.com/bioinformatics/article-lookup/doi/10.1093/bioinformatics/btu202> ↗; <https://dx.doi.org/10.1093/bioinformatics/btu202> ↗; <https://academic.oup.com/bioinformatics/article/30/16/2389/2748167> ↗; <http://bioinformatics.oxfordjournals.org/content/30/16/2389> ↗; <https://academic.oup.com/bioinformatics/article-pdf/30/16/2389/16917738/btu202.pdf> ↗

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https://plu.mx/plum/a/?elsevier_id=2-s2.0-84906239598&theme=plum-scopus-theme



ThunderSTORM: A comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging

Citation Data: Bioinformatics, ISSN: 1460-2059, Vol: 30, Issue: 16, Page: 2389-2390
Publication Year: 2014

530 Citations | 127 Usage | 665 Captures | 8 Social Media

Home

Overview

Highlights

Patent Family Citations

Twitter

This article has 8 Twitter interactions across 2 URLs.
It has received 4 tweets and 4 retweets.

 **Anandesh Jeeva**
@animesh1977

ThunderSTORM: a comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging ift.tt/1sqlHqt

2:20 PM · Aug 21, 2014

Copy link to Tweet

 **BioTechniques**
@MyBioTechniques

ThunderSTORM: a comprehensive ImageJ plug-in for #PALM and #STORM data analysis and super-resolution imaging ow.ly/zYrgW

4:20 PM · Aug 6, 2014

Copy link to Tweet

 **Bioinformatics Feeds**
@BioinformaticsP

OB: ThunderSTORM: a comprehensive ImageJ plug-in for PALM and STORM data analysis and super-resolution imaging... bit.ly/1tSnF5T

5:20 PM · Aug 5, 2014

Copy link to Tweet

 **Super Res Microscopy**
@SRMicro_papers

ThunderSTORM: a comprehensive ImageJ plugin for PALM and STORM data analysis and super-resolution imaging. by... ift.tt/1hLVsXT

12:06 PM · Apr 29, 2014

2 Copy link to Tweet

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RELX Group

https://plu.mx/plum/a/?elsevier_id=2-s2.0-84906239598&theme=plum-scopus-theme

PlumX – další nástroje

- Přes [PlumX Widgets](#) je možný přístup ke všem metrikám:
 - připojení k webovým stránkám autora pomocí HTML.
- [PlumX Metrics API](#).

Impactstory

<https://profiles.impactstory.org/>

- **Jason Priem a Heather Piwowar** v roce 2011.
- **Open source software** pracující s otevřenými datovými zdroji.
- Impactstory profiles:
 - **profil** autora s metrikami hodnotícími výsledky jeho vědecké práce,
 - achievements.
- Přihlášení přes Twitter.
- Integrace s **ORCID**.



Ethan White   
University of Florida Associate Professor

OVERVIEW ACHIEVEMENTS TIMELINE PUBLICATIONS

ACHIEVEMENTS [view all](#)



Open Hero Top 10%
Every single one of your papers is free to read online. Wow! That's a level of access only 2% of other researchers achieve. Open access [helps real people](#), and that's pretty heroic.




Global Reach
Your research has been saved and shared in 17 countries.



Greatest Hit
Your top publication has been saved and shared 5 times.

TIMELINE [view all](#)


5 Online mentions over 1 years  

3 2

PUBLICATIONS [view all](#)

 **DeepForest: A Python package for RGB deep learning tree crown delineation**
2020 *Methods in Ecology and Evolution*
5  

 **Automated data-intensive forecasting of plant phenology throughout the United States**
2020 *Ecological Applications*

 **A simulation study of the use of temporal occupancy for identifying core and transient species**
2020

 All the data you see here is open for re-use.

 [view as JSON](#)

Ostatní

 Open dataset

 Preprint



 Statistics


 @BipFinder


BIP! Finder for COVID-19

This version of [BIP! Finder](#) aims to ease the exploration of [COVID-19](#)-related literature by enabling *ranking articles based on various impact metrics*.

Last Update: 17 - 05 - 2021

Provided impact measures:

 **Popularity:** Citation-based measure reflecting the current impact.


 **Influence:** Citation-based measure reflecting the total impact.


 **Reader Attention:** The current number of Mendeley readers.


 **Social Media Attention:** The number of recent tweets related to this article.


*More details on these impact measures can be found [here](#).

Score interpretations:

 Exceptional score (in top 0.01%).


 Substantial score (in top 1%).


 Average score (in bottom 99%).


 ? Score not available.

Main data sources:

 [CORD-19 dataset](#)⁽¹⁾ (list of papers)

 [LitCovid hub](#)⁽²⁾ (list of papers)

 [PMC & PubMed](#) (citations)


 [Mendeley](#) (number of readers)


 [COVID-19-TweetIDs](#)⁽³⁾ (tweets)

Search...




Rank by:

 Popularity

 Influence

 Reader Attention

 Social Media Attention

<<

1

2

3

4

5

>>

Title	Venue	Year	Impact	Source
1 Safety and Efficacy of Imatinib for Hospitalized Adults with COVID-19: A structured summary of a study protocol for a randomised controlled trial	Trials	2020	  	LitCov and CORD-19
2 Clinical features of patients infected with 2019 novel coronavirus in Wuhan, China	Lancet	2020	  	LitCov and CORD-19
3 Controlled, double-blind, randomized trial to assess the efficacy and safety of hydroxychloroquine chemoprophylaxis in SARS CoV2 infection in healthcare personnel in the hospital setting: A structured summary of a study protocol for a randomised controlled trial	Trials	2020	  	LitCov and CORD-19
4 Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study	Lancet	2020	  	LitCov and CORD-19
5 Epidemiological and clinical characteristics of coronavirus disease cases at a screening clinic during the early outbreak period: a single-center study	J Med Microbiol	2020	  	LitCov and CORD-19

<https://bip.covid19.athenarc.gr/index.php>

Jsou alt-metriky v citačních databázích?

- Ano, částečně.
- Na úrovni jednotlivých publikací.
- Pouze PlumX Metrics v databázi Scopus.
- Vydavatelé = plnotextová databáze [SpringerLink](#).
- PLOS.

Document details

[< Back to results](#) | 1 of 1

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Entitled full text [SFX](#) [Library Catalogue](#) [EzB](#)

PLoS ONE [Open Access](#)

Volume 10, Issue 4, 15 April 2015, Article number e0123923

What are the main drivers of the bitcoin price? Evidence from wavelet coherence analysis (Article) [\(Open Access\)](#)

Kristoufek, L.^{a,b,c} [✉](#) [i](#)

[Save all to author list](#)

^aWarwick Business School, University of Warwick, United Kingdom

^bInstitute of Information Theory and Automation, Academy of Sciences of the Czech Republic, Pod Vodarenskou vezi 4, Prague 8 EU, 182 08, Czech Republic

^cInstitute of Economic Studies, Charles University, Opletalova 26, Prague , EU, 110 00, Czech Republic


Abstract

[View references \(19\)](#)

The Bitcoin has emerged as a fascinating phenomenon in the Financial markets. Without any central authority issuing the currency, the Bitcoin has been associated with controversy ever since its popularity, accompanied by increased public interest, reached high levels. Here, we contribute to the discussion by examining the potential drivers of Bitcoin prices, ranging from fundamental sources to speculative and technical ones, and we further study the potential influence of the Chinese market. The evolution of relationships is examined in both time and frequency domains utilizing the continuous wavelets framework, so that we not only comment on the development of the interconnections in time but also distinguish between short-term and long-term connections. We find that the Bitcoin forms a unique asset possessing properties of both a standard financial asset and a speculative one. © 2015 Ladislav Kristoufek.

SciVal Topic Prominence [i](#)

Topic: [Exchange Rates](#) | [Prices](#) | [Bitcoin](#)

Prominence percentile: 99,533  [i](#)

Indexed keywords

EMTREE medical terms:

[analytic method](#) [Article](#) [Bitcoin price index](#) [Chinese](#) [economic aspect](#) [financial information system](#)
[financial management](#) [marketing](#) [money](#) [search engine](#) [statistical analysis](#) [time series analysis](#)
[wavelet coherence analysis](#) [commercial phenomena](#) [economic model](#) [human](#) [statistics and numerical data](#)

Metrics [?](#)

[View all metrics >](#)

290 Citations in Scopus
98th percentile

6.13 Field-Weighted Citation
Impact [i](#)



PlumX Metrics

Usage, Captures, Mentions,
Social Media and Citations
beyond Scopus.

Citations

Citation Indexes: 72

Usage

Clicks: 13
Abstract Views: 1081
Full Text Views: 51402
Link-outs: 32
Views: 80
Downloads: 22

Captures

Exports-Saves: 119
Readers: 539

Mentions

Q&A Site Mentions: 2

Social Media

Shares, Likes & Comments: 21
Tweets: 29

[see details](#)

<https://www.scopus.com/record/display.uri?eid=2-s2.0-84928818221&origin=resultslist>

OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

What Are the Main Drivers of the Bitcoin Price? Evidence from Wavelet Coherence Analysis

Ladislav Kristoufek

Published: April 15, 2015 • <https://doi.org/10.1371/journal.pone.0123923>

Article Authors Metrics Comments Media Coverage

550 Save	377 Citation
52,479 View	67 Share

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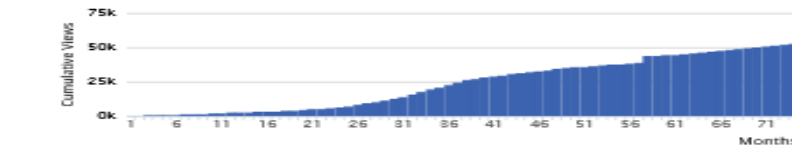
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 - Economics
 - Coherence
 - Wavelet transform
 - Information retrieval
 - Monte Carlo method
 - Online encyclopedias
 - Financial markets

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Výhody

- Různorodost zdrojů.
- Relativně přístupná data.
- Okamžitý přístup
- Ověřitelnost.
- Excelentní výzkum.
- Mezinárodní spolupráce

Nevýhody

- Kontroverze – spam/gaming.
- Využívanost sociálních sítí.
- Rozdíly mezi vědními obory.
- Elektronická verze vědeckých publikací.
- Technické bariéry.

Bariéry

- Neukazuje kvalitu publikace.
- Kvantitativní indikátor.
- Technicky náročné získat.

Standardy a doporučení

- National Information Standards Organization (NISO)
 - [Alternative Assessment Metrics Project](#) doporučení.
- Požadavky na:
 - transparentnost,
 - reprodukovatelnost,
 - přesnost.
- Reakce:
 - Altmetric: [Standards in Altmetrics](#),
 - Plum: [Plum Analytics Code of Conduct Report](#).
- Doporučení a standardy pro hodnocení vědy a výzkumu z pohledu scientometrie:
 - [San Francisco Declaration on Research Assessment](#),
 - [Leiden Manifesto for Research Metrics](#).

Shrnutí

- Neodrážejí automaticky obsahovou kvalitu vědeckých publikací.
- Trpí stejnými problémy jako citační metriky a indikátory.
- Ukazují dosah výzkumu. Neukazují kvalitu.
- Základní vs. aplikovaný výzkum.
- Rozšíření hodnocení institucí.
- Zkreslený obraz na úrovni institucí a oborů.
- Relevantní ve spojení s citačními metrikami a post peer-review.

Open peer review

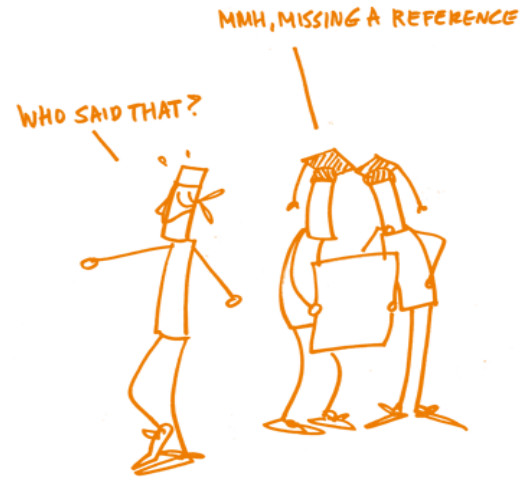
Peer review

- Slouží k posouzení pravdivosti, kvality a originality vědeckých publikací a výsledků.
- Z pohledu vydavatele jako filtr obsahu = záruka kvality časopisu.
- Nutnost zajištění robustního systému hodnocení.
- Oborová specifika - STM x SSH.
- Časopisy, knihy a konferenční sborníky. Grantové a projektové žádosti. Hodnocení institucí.

Peer review

- Má své výhody:
 - Integrita a etika,
 - Odstranění nekvalitního obsahu,
 - Přidaná hodnota.
- Má své nedostatky:
 - Nespolehlivé a nekonzistentní.
 - Spoléhá na lidský úsudek, spolehlivost a objektivnost,
 - Časová a finanční náročnost,
 - Nedostatky v odpovědnosti.
- Různé varianty.

MODES OF PEER REVIEW:



BLIND PEER REVIEW



OPEN IDENTITIES



OPEN REPORTS

Druhy peer review

- Blind peer review,
- Double-blind peer review,
- Open peer review,
- Triple blind peer review,
- Collaborative review,
- Transparent peer review,
- Post publication review,
- Transferrable peer review.

Definice open peer review

- Open peer review (OPR) = Otevřené recenzní řízení.
- Identitu autora a recenzenty znají všichni účastníci.
- Čtenáři publikace vidí identitu recenzentů a jejich komentáře.
- Některé z časopisů publikují recenze až s finální verzí článku.
- Kombinované formy s tradičním peer review.
- Autor/Recenzent mají na výběr.
- Jeden z pilířů open science.

Pilíře open science

open data

open access

open methodology

open source

open peer review

open education

...

Vlastnosti OPR I.

OPR by mělo nabízet: [6]

Otevřené identity

- Autor a recenzent znají svou identitu – [ORCID](#).

Otevřené zprávy

- Všichni mají přístup k výsledkům recenzního řízení.
- Jsou součástí vydané publikace.

Otevřená účast

- Kdokoliv může přispět k procesu recenzního řízení.
- Rozšíření komunity.

Otevřená interakce

- Přímá a vzájemná komunikace mezi autorem a recenzentem.
- Zapojení čtenářů.

Vlastnosti OPR II.

Otevřená kontrola rukopisu před vydáním

- Okamžité zveřejnění rukopisů na některý z preprintových serverů - [arXiv](#).
- Zrychlení postupů peer review.

Otevřené komentování finální verze publikace

- Verze publikace ve vydavatelském procesu – záznam o verzích a úpravách.

Otevřené platformy

- Recenzi zajišťuje jiná organizace než ta, která publikaci vydává.
- Oddělené recenzování – „decoupled peer review“.

Formy OPR

- Existují 3 hlavní podoby:
- **Otevřené recenze/komentář** (open peer/public commentary)
 - Rukopis je zkontrolován a vydán na otevřené platformě. Ponecháno komentářům.
 - [The Winnower](#).
- **Recenzování po vydání** (post-publication peer review)
 - Po publikování je recenzní řízení na čtenářích - komentáře.
 - [F1000Research](#), [ScienceOpen](#).
- **Oddělené recenzování** (decoupled peer review)
 - Nezávislá služba odděluje recenzní řízení od vydavatele.
 - [Peerage of Science](#), [Publons](#) a [ResearchSquare](#)

SHOWING 2 REVIEWS



Brent Thoma

WRITTEN ON DEC 16, 2014

ORIGINALITY OF WORK



CONFIDENCE IN PAPER



QUALITY OF WRITING



2



Dr. Juurlink,

Thanks for the work that you've done on this paper! Medical students and residents have a lot of advice available to them but rarely has it been compiled in this fashion. I think you have produced a valuable resource and I will be referring medical students to it in the future.

Formatting

-I believe the standard formatting does not include indentations for each paragraph. Could these be removed from the introduction and conclusion?

Methods

-For the purposes of reproducibility and clarity, I think the inclusion of a brief Methods section describing how this advice was solicited and distilled would help to contextualize the article. Would it be possible to provide the number of individuals approached for advice, the criteria for deciding who should be asked, how the advice was solicited and provided, any distillation or modification of the advice that occurred to get it into its final form, was all advice included, etc. I expect that much of this was informal, but the details are still of value to help the reader understand where this advice came from.

Results

-I believe the advice that was provided warrants the title of 'Results' with the rest of the other headings becoming subheadings.
-Would it be possible to provide the demographic information of those that solicited advice? e.g. age, gender, specialty, number of years since residency.

Conclusion

I would suggest revising and expanding this section. It may also be appropriate to retitile it as a 'Discussion.' This would allow further reflection upon the process.

[Home](#) » [Browse](#) » [HPAStainR: a Bioconductor and Shiny app to query protein expression...](#)

SOFTWARE TOOL ARTICLE

Check for updates

REVISED HPAStainR: a Bioconductor and Shiny app to query protein expression patterns in the Human Protein Atlas [version 2; peer review: 3 approved]

Tim O. Nieuwenhuis ^{1,2}, Marc K. Halushka ¹

Author details



This article is included in the **RPackage** gateway.



This article is included in the **Bioconductor** gateway.

Abstract

The Human Protein Atlas is a website of protein expression in human tissues. It is an excellent resource of tissue and cell type protein localization, but only allows the query of a single protein at a time. We introduce HPAStainR as a new Shiny app and Bioconductor/R package used to query the scored staining patterns in the Human Protein Atlas with multiple proteins/genes of interest. This allows the user to determine if an experimentally-generated protein/gene list associates with a particular cell type. We validated the tool using the Panglao Database cell type specific marker genes and a Genotype Expression (GTEx) tissue deconvolution dataset. HPAStainR identified 92% of the Panglao cell types in the top quartile of confidence scores limited to tissue type of origin results. It also appropriately identified the correct cell types from the GTEx dataset. HPAStainR fills a gap in available bioinformatics tools to identify cell type protein expression patterns and can assist in establishing ground truths and exploratory analysis. HPAStainR is available from: <https://32tim32.shinyapps.io/HPAStainR/>

Keywords

protein staining, Human Protein Atlas, marker genes, marker proteins, exploratory analysis

Corresponding author: Tim O. Nieuwenhuis

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Version 1 08 Oct 20	 read	 read	 read

1. **Mazdak Salavati** , University of Edinburgh, Edinburgh, UK
2. **Laurent Gatto** , UCLouvain, Brussels, Belgium
3. **Yasin Kaymaz** , Harvard University, Boston, USA

Comments on this article

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Vydavatelé a OPR

- BioMed Central ,
- BMJ Group,
- Copernicus Publications,
- European Molecular Biology Organization (EMBO Journal),
- F1000,
- eLife.

Vědecká komunikace a OPR

- Větší transparentnost a účast na vědeckém publikování
- Možnost pro obě strany – autor/recenzent.
- Autory učí zodpovědnosti. Usnadňuje komunikaci
- Recenzent má možnost se zapojit do nového výzkumu a získává zkušenosti. Usnadňuje vzdělávání nových.
- Kontrola kvality akademické práce je zajištěna.

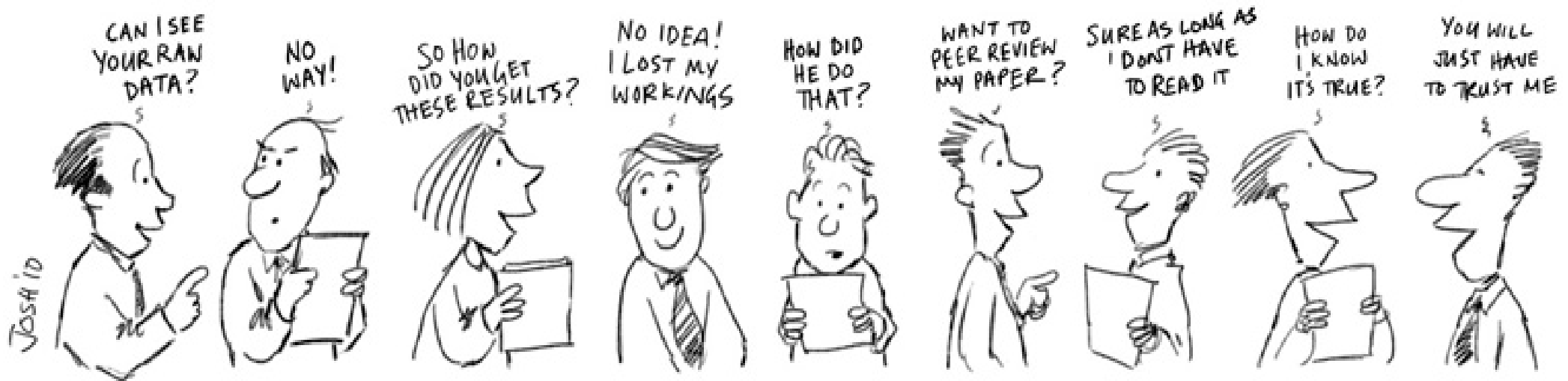
Výhody

- Transparentnost.
- Hledání vhodných recenzentů.
- Snížení cenových nákladů.
- Obohacení publikace o další data.

Nevýhody

- Recenzenti jsou „bez ochrany“.
- Nežádoucí jevy = odplata.
- Kritika.
- Snaha o gaming (pozvánky).

NO TRANSPARENCY NO CONSENSUS



<https://thelukewarmersway.wordpress.com/2016/02/07/climate-scientists-in-like-flint/>

Shrnutí

- Neexistuje jediný správný způsob recenzního řízení.
- Otevřenost.
- Podporuje open access a open science.
- Nástroj pro výuku.
- Postupná transformace.
- Je nutný další výzkum.

Závěrem

- Alternativní metriky.
- Open peer review.

Děkuji Vám za pozornost...

Diskuze a dotazy

Použitá literatura I.

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- [8] FOSTER CONSORTIUM. *Open Peer Review* [online]. FOSTER consortium, 2018 [cit. 2021-06-02]. DOI: 10.5281/zenodo.2640675. Dostupné z: <https://zenodo.org/record/2640675#.YLYcsKEzWUk>

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Slide č. 40: BEZJAK, Sonja et al. *Open Science Training Handbook* [online]. FOSTER consortium, 2018 [cit. 2021-06-02]. DOI: 10.5281/zenodo.1212496. Dostupné z: https://github.com/Open-Science-Training-Handbook/Open-Science-Training-Handbook_EN/blob/master/Images/02%20Open%20Science%20Basics/02_open_peer_review.png

Slide č. 53: *Climate Scientists: In Like Flint?* [online]. 2016 [cit. 2021-06-02]. Dostupné z: <https://thelukewarmersway.wordpress.com/2016/02/07/climate-scientists-in-like-flint/>