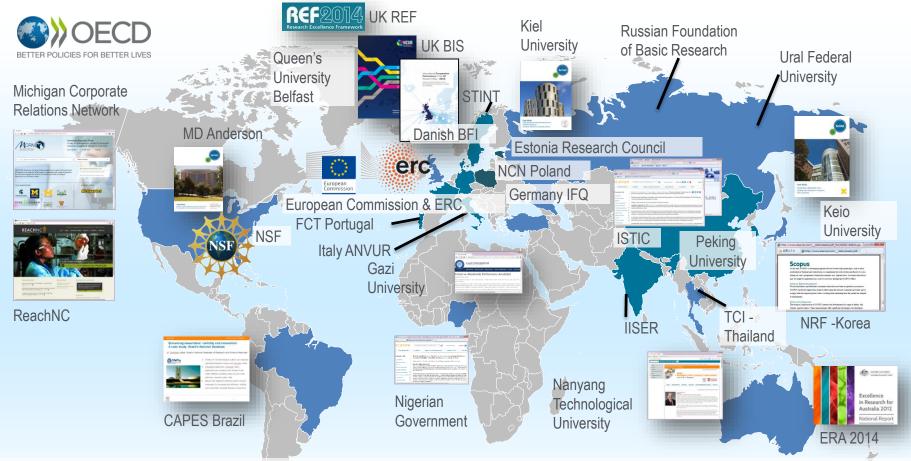


Scopus & SciVal have experience with responsible use of metrics for research assessment





Rankings:











Research metrics: our approach



We must offer:

- A basket of metrics
- For all peers
- Generated in an automated and scalable way

When implementing / using metrics:

- Always use judgment with metrics
- There is no perfect or leading metric; always use at least 2
- Selection differs depending on the question
- Take variables into account.
- We can't prevent stupidity or irresponsibility

Best practice

- Research community who judge and are judged should ideally define metrics
- No methodological black boxes no exceptions
- Independent of business and access models
- No aggregate / composite metrics



Response to HEFCE's call for evidence: independent review of the role of metrics in research assessment



30 June 2014

Yes, Elsevier would be interested in participating in a workshop / event to discuss the use of metrics in research assessment and management.

This response covers the following section

- A. Why is Elsevier responding?
- B. For what purposes are research metrics used
 - Guiding principles for use of metrics in research assessment
- D. A model for generating and using metrics in research assessmen
- E. Implications for using metrics in research assessment
- F. Response to the specific questions posed by HEFCE

Empowering Knowledge

Composite metrics should be avoided and all calculation methods must be freely available, not proprietary





Snowball Metrics approach to altmetrics



Vision: Snowball Metrics enable benchmarking by driving quality and efficiency across higher education's research and enterprise activities, regardless of system and supplier

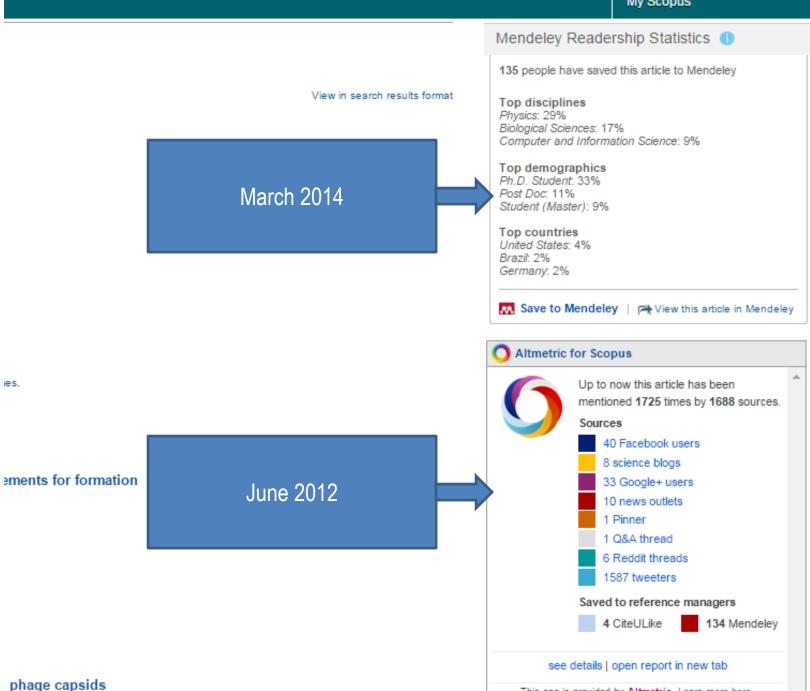
Bottom-up initiative: *Universities define and endorse metrics* to generate a strategic dashboard. The community is their guardian.

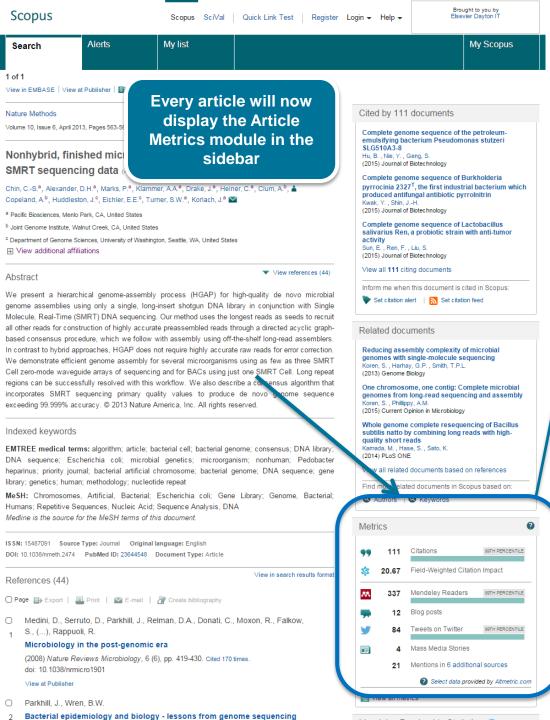
There are 4 Snowball Metrics altmetrics buckets:

- Scholarly Activity * Number of times that an output has been posted in online tools that are typically used by academic scholars e.g. Mendeley, Zotero
- Scholarly Commentary : Number of times that an output has been commented on in online tools that are typically used by academic scholars e.g. research blogs, F1000 Prime
- Mass Media * Number of times that an output has been referred to by e.g. newspapers, specialized publications
- Social Activity * Number of times that an output has stimulated social media posts e.g. Facebook, Twitter



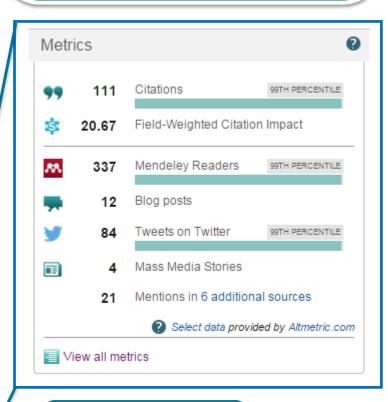
This applie provided by Altmotrie Learn more here.





The Article Metrics module in the sidebar provides at-a-glance information for the researcher. They can quickly see citation impact and scholarly community engagement with the article.

This can help them decide whether they want to read the article.



Clicking on "View all metrics" opens up the module for this article.

Metric details

Nonhybrid, finished microbial genome assemblies from long-read SMR1

Chin C.-S., Alexander D.H., Marks P., Klammer A.A., (...), Korlach J. (2013) Nature Methods, 10(6), pp. 563-569

Overview

Citations

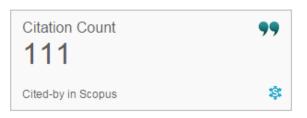
Scholarly Activity
Mendeley, CiteULike, etc.

Scholarly Cor Blogs, Reviews, W

Overview tab includes:

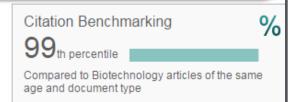
- Citation and Engagement metric highlights
- Introduces the 4 Snowball Metrics
 Categories of altmetrics

Overview





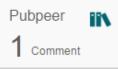
















Engagement highlights

MENDELEY

Scholarly Activity - 349 readers from 2 sources

Downloads and posts in common research tools

Mendeley: 337 Readers

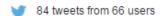
Top Discipline: Biological Sciences
Top Demographic: Ph D Student

Save to Mendeley

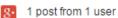
citeulike CiteULike: 12 Copies

Social Activity - 89 mentions from 3 sources

Mentions characterized by rapid, brief engagement on platforms used by the general population, such as Twitter, Facebook and Google +.

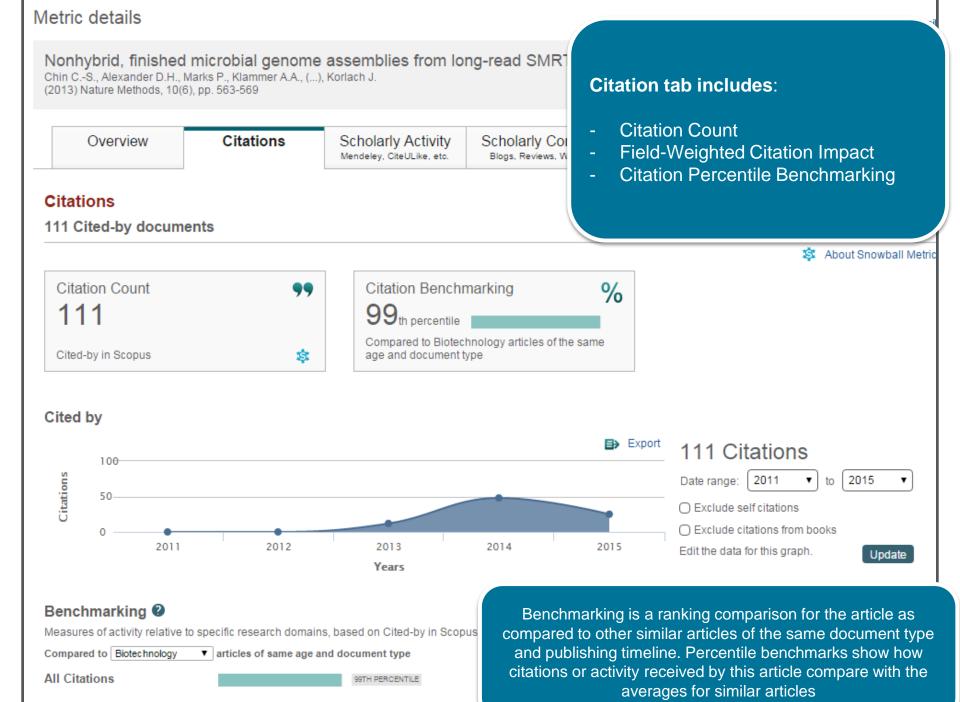


4 posts from 4 users





Compared to Riotechnology articles of same age and document type



Metric details

Nonhybrid, finished microbial genome assemblies from long-read SMR1

Chin C.-S., Alexander D.H., Marks P., Klammer A.A., (...), Korlach J. (2013) Nature Methods, 10(6), pp. 563-569

Overview

Citations

Scholarly Activity
Mendeley, CiteULike, etc.

Scholarly C Blogs, Reviews

Scholarly Activity tab includes:

- Mendeley readership and demographics
- CiteULike* readership

Scholarly Activity

349 readers from 2 sources

Indirect measurement of activity by people using scholarly platforms such as Mendeley, and CiteULike.

88.

About Snowball Metric

Mendeley Readers

337 Readers

Save to Mendeley

CiteULike

12

Mendeley Reader demographics

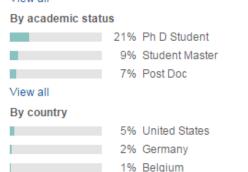
View publication in Mendeley

By discipline



View all

View all





indirect measurement of activity by people using scholarly platforms such as Mendeley, and CiteOLike.

Mendeley Readers

337 Readers

Save to Mendeley

CiteULike

12

Scholarly Activity tab includes:

Percentile Benchmarks for Scholarly Activity, Mendeley, and CiteULike

Mendeley Reader demographics

View publication in Mendeley

By discipline



1% Arts And Literature

View all

By academic status



By country



5% United States

2% Germany

1% Belgium

View all

Benchmarking 2

Measures of activity relative to specific research domains, based on all sources of Scholarly Activity

Compared to Biotechnology ▼ articles of same age and document type



Scholarly Commentary tab includes:

Noi Chin (201)

Blog posts, reviews, Wikipedia articles, etc. by experts and scholars*

long-read SMRT sequencing data Back to article

Scholarly Commentary

Blogs, Reviews, Wikipedia, etc.

Mass Media

Social Activity Twitter, Facebook, etc.

Email

Scholarly Commentary

16 mentions

Reviews, articles and blogs by experts and scholars, such as F1000Prime, research blogs, and Wikipedia.



About Snowball Metrics



Blogs

Microbial sequencing at Nature Methods

Methagora

29 September 2014

Over the years, Nature Methods has published sequence data for microbial studies. We cover the stage for a molecular taxonomy of microb

Our review of "Nonhybrid, finished microbial sequencing data", aka the HGAP paper

In between lines of code 19 June 2014

As it is out in the open that I was one of the r though I could as well make my review public February 2013) online at Publons. The review

Our review of "Nonhybrid, finished microbial sequencing data", aka the HGAP paper

In between lines of code

19 June 2014

As it is out in the open that I was one of the though I could as well make my review public February 2013) online at Publons. The review



Post-publication peer reviews

Pubpeer

1 comment from PubPeer

P Publons

2 comments from Publons Massive parallel sequencing

George Church 01 January 2014

Massive parallel sequencing or massively parallel sequencing is any of several high-throughput approaches to DNA sequencing using the concept of massively parallel processing; it is also called next-generation sequencing (NGS) or second-generation sequenci

An outsiders guide to bacterial genome sequencing on the Pacific Biosciences RS

Pathogens: Genes and Genomes 27 February 2014

It had to happen eventually. My Twitter feed in recent times had become unbearable with the insufferably smug PacBio mafia (that's you Keith, Lex, Adam and David) crowing about

* Data provided by altmetric.com

Noi

Chin (201

Mass Media tab includes:

✓ Email

 Coverage of this article in the mass media, e.g. newspapers and trade magazines* long-read SMRT sequencing data Back to article

Scholarly Commentary Blogs, Reviews, Wikipedia, etc. Mass Media

Social Activity

Mass Media

4 stories from 4 sources

Coverage of research output in the mass media



定序間的釘孤枝!-淺談次世代基因定序技術

Pansci 26 May 2015

次世代基因定序技術已然發展10年,而為什麼叫做次世代(Next-Generation)呢?那第一代去哪裡了?我為何要關心次世代定序技術?乾我何事?要回答到你懂這些問題以前,你必須必備大一生物學;不難拉,大概有點概念就可以。再來要有基礎的統計學概念以及數理概念,一樣不難拉,高中程度就可以。可是你問我,我高中都在談戀愛怎辦?沒關係,就讓我娓娓道來。

New Cost-Effective Genome Assembly Process

Medical News Today 08 May 2013

The U.S. Department of Energy Joint Genome Institute (DOE JGI) is among the world leaders in sequencing the genomes of microbes, focusing on their potential applications in the fields of bioenergy and environment. As a national user facility, the DOE JGI i

A new cost-effective genome assembly process

Nanowerk 05 May 2013

A new cost-effective genome assembly process

EurekAlert! 05 May 2013

(DOE/Joint Genome Institute) Genome assembly, the molecular equivalent of trying to put together a multi-million piece jigsaw puzzle without knowing what the picture on the cover of the box is, remains challenging due to the very large number of very sma

Select data provided by Altmetric.com



ong-read SMRT sequencing data Back to article

Scholarly Commentary Mass Media Social Activity
Blogs, Reviews, Wikipedia, etc.

Mass Media Social Activity
Twitter, Facebook, etc.

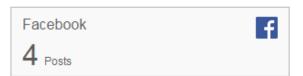
Social activity

89 mentions from 3 sources

media*

Mentions characterized by rapid, brief engagement on platforms used by the general population, such as Twitter, Facebook and Google +.







₩ Twitter – 84 tweets from 66 accounts



Jason Chin @infoecho | 07 January



Moon♥ @LovelyMoonB | 31 October 2014



Nicole Cloonan @ncloonan | 14 October 2014



Joon @joonomics | 14 October 2014

View 10 more

Facebook – 4 posts from 4 accounts



Vaccini - Clínica de Vacinação | 01 April

Vacinas da rede pública e privada são de boa qualidade. Mesmo que você já tenha tido HPV, deve tomar a vacina.



Sociedade Brasileira de Imunizações (SBIm) | 26 March

"Existe diferença entre as vacinas da rede pública e da rede particular?" "Quem esquece de tomar a 2ª dose de uma vacina na data prevista deve recomeçar o esquema vacinal?" "Já tive hepatite B, preciso me vacinar?" Confira as respostas para essas perguntas



Integromics- IT for Life Sciences | 06 May 2013

Hierarchical Genome Assembly: New de novo assembly method , uses @PacBio 's technology http://t.co/zbS5rFqla7



Molecular Creativity | 06 May 2013

Nonhybrid, finished microbial genome assemblies from long-read SMRT sequencing data

http://www.nature.com/nmeth/journal/vaop/ncurrent/full/nmeth.2474.html

* Data provided by altmetric.com

Benchmarking 2

Measures of activity relative to specific research domains, based on all sources of Social Activity

99TH PERCENTILE

INSUFFICIENT DATA

Compared to Biotechnology

articles of same age and document type

All Social Activity - 89

99TH PERCENTILE

Twitter - 84

Facebook - 4 Google + - 1

Social Activity tab includes:

- Percentile Benchmarks for Social Activity and underlying data sources
- Twitter demographic map

Twitter demographics

