

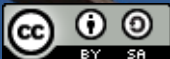
OPEN SCIENCE DALLA A ALLA Z 1-COMUNICAZIONE SCIENTIFICA OGGI

<https://doi.org/10.5281/zenodo.4483434>

INRIM,
febbraio 2021

Elena Giglia
Università di Torino
elena.giglia@unito.it

 @egiglia



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La strada davanti a noi



1

Comunicazione scientifica oggi: funziona?

L'alternativa Open

2

Open Access in pratica

Cosa succede in Europa: EOSC e FAIR

3

La gestione dei dati; FAIR e Open

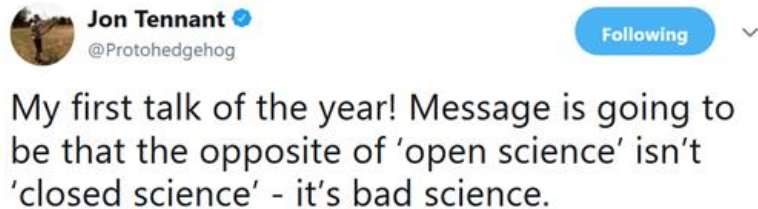
4


Rendere i dati FAIR; Data Management Plan

Qualcosa da portare via

Open Science: opportunità, non minaccia né noia burocratica

...il COVID l'ha dimostrato nei fatti...



Jon Tennant 
@Protohedgehog

My first talk of the year! Message is going to be that the opposite of 'open science' isn't 'closed science' - it's bad science.

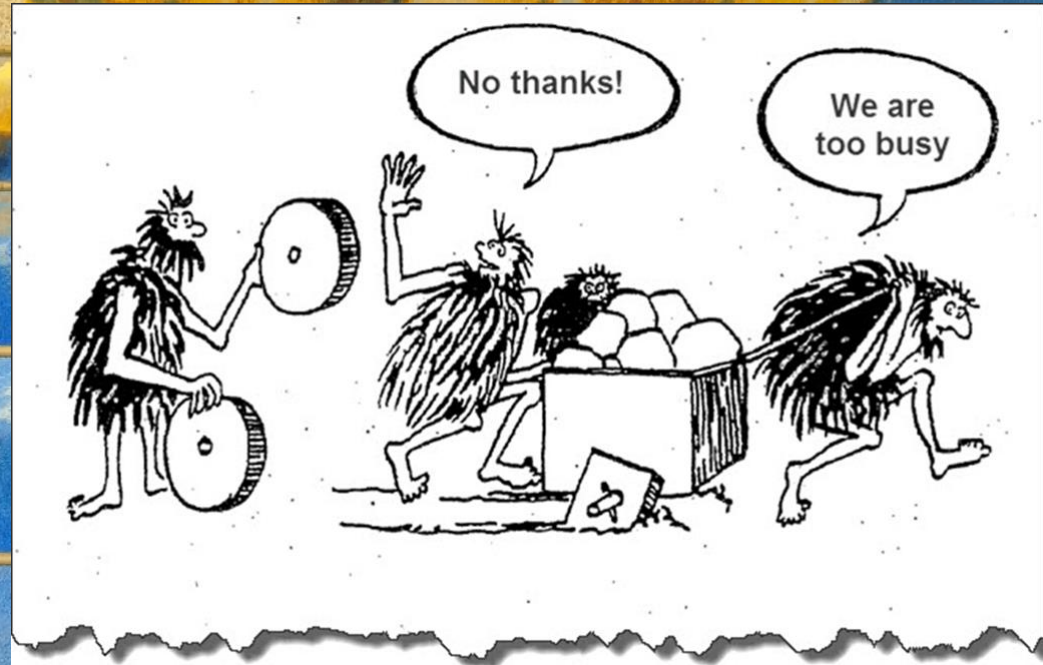
...il contrario di Open Science è «Bad Science», non «Closed»

...Open Science [diverso da Open Access] è un modo diverso di fare scienza, non una serie di regolette

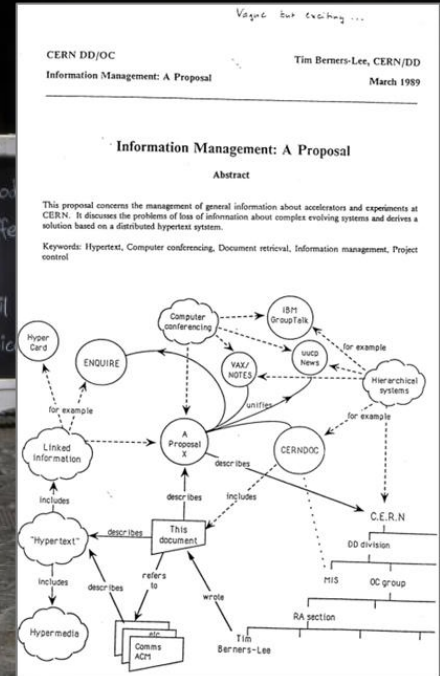
...si può fare Open Science a piccoli passi, non «tutto e subito»... però occorre iniziare!

Open Science, Open Innovation, EOSC, FAIR: esserci!

Open Science?



SE NON SI RAGIONA SUL
REALE VALORE E IL POTENZIALE TRASFORMATIVO
DELLA OPEN SCIENCE, LA VEDRETE SOLO COME
L'ENNESIMO FARDELLO AMMINISTRATIVO



...il migliore esempio di Open Science?



Impareremo in questo modulo

1. cosa non va nel sistema attuale di comunicazione scientifica
2. quanti soldi e interessi girano intorno a un articolo

MESSAGGI CHIAVE

- oggi, pubblicare e leggere non è gratis
- non credete ciecamente nella peer review, Impact Factor, citazioni...
Siate critici e informati!

1 DOMANDA

PERCHÉ FATE
RICERCA?

MENTIMETER

WWW.MENTI.COM

60 86 85 3

Occhi nuovi (e critici)

Three fluffy golden retriever puppies are sitting on a red tiled floor. They are looking towards the camera with curious expressions. The puppy in the center is slightly higher than the other two. The puppy on the right is looking slightly to the side.

...proviamo per oggi a vedere la ricerca e la comunicazione scientifica in modo diverso...

...che non vuol dire non credere alla scienza,
ma non scadere nello scientismo...

Comunicazione scientifica è ...

Accesso

CONSERVAZIONE

GESTIONE DEI
DIRITTI
(autori, lettori,
editori)

Produzione

Economia
(e profitti)

Costi

(reali e di mercato – «anelastico»)

Tecnologia

Nuovi modelli
(e loro sostenibilità)

Canali
(monografie, riviste...)

VALUTAZIONE
DELLA RICERCA

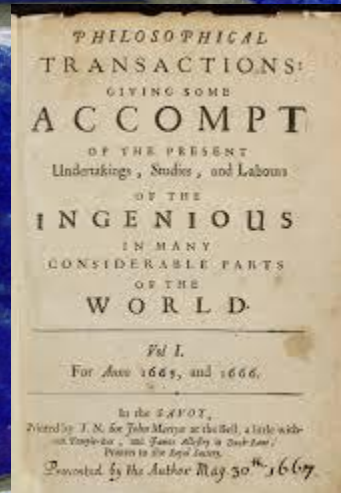
Comunicazione scientifica, le funzioni

REGISTRAZIONE

[Impact Factor]

CERTIFICAZIONE

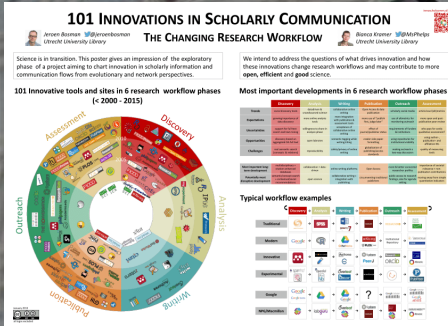
RICOMPENSA



**PUBBLICITÀ
[AWARENESS]**

ARCHIVIAZIONE

Comunicazione scientifica, il processo



101 innovations

Submission

AUTORI E REVISORI
NON SONO PAGATI.
RITORNO ATTESO:
PRESTIGIO/CITAZIONI

Peer review

SPESSE LA RICERCA
È VALIDA, MA NON
MAINSTREAM. RE-
SUBMISSION...E IL
TEMPO PASSA

Acceptance/
rejection

Publication

IN ABBONAMENTO O
IN OPEN ACCESS

- PUBBLICAZIONE NECESSARIA
- RICERCA = PROCESSO INCREMENTALE
- PER NON REINVENTARE LA RUOTA
- PER NON ESSERE FINANZIATI DUE VOLTE

STESSI COSTI DI
PRODUZIONE,
DIVERSA
DISSEMINAZIONE

...bye bye gratis peer review...



Rasgon, Jason Laurence

Fri 1/15/2021 2:43 PM

To: Val [REDACTED]@elsevier.com>

Hi [REDACTED]

As Elsevier is a for-profit company, and one which has recently forced the takedown of several of my papers from public depositories (including ones where I paid for Open Access), I no longer donate my time to the company in the form of submissions, reviews, or editorial activities.

I will, however, be happy to consult on this work at my normal rates, which at present are \$450 per hour, with an 8 hour minimum. If this interests you, I will be happy to give you an estimate and draw up a contract.

Sincerely,

Jason Rasgon, PhD

Jan 15, 2021

«COMUNICAZIONE»?

raise questions about the way science-as-usual is practised.

Vincent Larivière is an information scientist and professor at the University of Montreal, who studies the way science is disseminated. He said the move to speed up publication and share research is a tacit admission that business-as-usual in research slows down science.

"[They say] we're opening everything because it's important that we advance things fast. Well, the flip side of this argument is that your normal behaviour is to put barriers to science."

"This virus is dangerous and deadly, but there's lots of other diseases that are dangerous and deadly, and for which opening could save lives. So if you really want to go in that direction, just open everything."



University of Montreal researcher Vincent Larivière said the current climate of open science suggests that science-as-usual creates barriers. (Arémie Philibert)

Health · Second Opinion

'We're opening everything': Scientists share coronavirus data in unprecedented way to contain, treat disease Feb.1, 2020

...GLI SCIENZIATI **ADESSO** STANNO APRENDO DATI E ARTICOLI SU COVID-19...
SIGNIFICA CHE IL COMPORTAMENTO «NORMALE» INVECE È QUELLO DI METTERE BARRIERE ALLA CONOSCENZA

nature

Feb 4, 2020

Subscribe

EDITORIAL · 04 FEBRUARY 2020

Calling all coronavirus researchers: keep sharing, stay open

As the new coronavirus continues its deadly spread, researchers must ensure that their work on this outbreak is shared rapidly and openly.

...accesso a tempo d

RICONOSCONO DI AVERE UN RUOLO
CRUCIALE...

- HANNO ABBATTUTO QUALCHE MURO...
- MA CREATO ACCESSO DIFFICILE
- E SOLO PER LA DURATA DELLA CRISI

TECNICAMENTE,
FACILE. DECISIONE DI
«CHIUDERE» RICERCA
VITALE È ECONOMICA

?)

response to the rapid worldwide spread of COVID-1

Jon Tennant @Protohedgehog · 7 apr

When a scientific publisher provides free access to life-saving research during a pandemic, they show us that this decision is technically simple. Flip a switch.

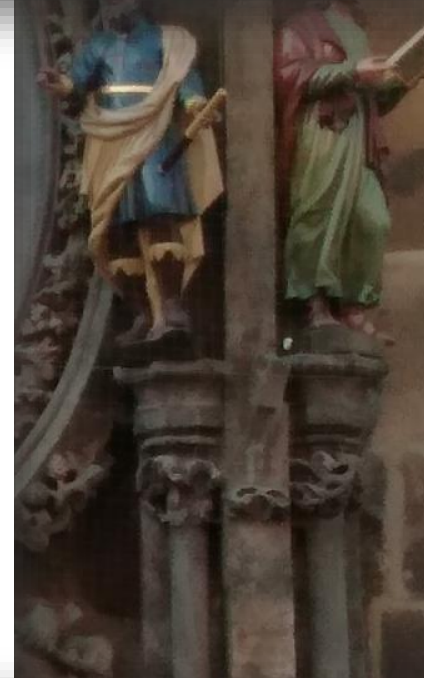
The decision to prevent access to similar life-saving research for literally EVERYTHING ELSE is purely financial.

1 23 73

Sharing the worldwide concern about the spread and impact of COVID-19, publishers recognize the crucial role they can play in supporting the response to this crisis and advancing the research that will be critical in combating the virus.

In immediate response to the epidemic announcement by the World Health Organization (WHO), members of the International Association of Scientific, Technical and Medical Publishers (STM) moved to:

- Provide immediate free access to all relevant peer-reviewed publications to ensure that for the duration of the outbreak, research and data quickly reaches the widest possible audiences. More than 32,000 articles, chapters, and other re



NEWS RELEASE



...cosa hanno fatto gli e

IRREALE. SANNO CHE SALVANO
VITE MA APRONO SOLO PER
UNA MALATTIA E PER UN
TEMPO LIMITATO



Heather Joseph @hjoseph ·

Unreal. Acknowledging that making these papers [#openaccess](#) will help speed speed progress and save lives but at the same time only doing it for limited time - and for a single disease.

SI RENDONO CONTO CHE L'ACCESSO
IMMEDIATO SALVA VITE...

NEWS RELEASE

or Immediate Release

March 13, 2020



Speaking of the announcement, Ian Moss STM's CEO said "We are all gravely concerned about the significant threat that COVID-19 represents to public health. In order to aid the efforts to slow the spread of the virus and, fundamentally, to save lives, STM publishers are committed to work collectively to ensure that research findings are shared quickly to advance cutting-edge research. As a community, we hope that the provision of immediate access will aid the global response and make a difference."

...accesso è vitale per OGNI ricerca



SPARC
@SPARC_NA

Jan. 25, 2020

"Open" should be the default for science - not just in case of emergencies. When we *know* that their openness speeds discovery, why do we lock up articles and data? #OAintheUSA

Traduci il Tweet



Scientists are unraveling the Chinese core
Scientists are racing to stop the new coro
time around the world. The effort shows
washingtonpost.com



Heather Joseph

10 h · 👤

It's time to make Open Access the default for ALL scientific research once and for goddamn all. Please.

SOLO CORONAVIRUS?
ALZHEIMER, CANCRO,
CAMBIAMENTO
CLIMATICO, VIOLENZA
SULLE DONNE SONO
MENO IMPORTANTI?...

È ORA DI RENDERE TUTTO
OPEN, UNA VOLTA E PER
SEMPRE

Comunicazione scientifica oggi...

WONKHE ABOUT US EVENTS LATEST JOBS SUBSCRIPTION SUS Q
Apr. 22, 2020

**The purpose of publications
in a pandemic and beyond**

for publications in journals that were more about distinction than dissemination. And when it comes to a global emergency, we're still having to beg publishers for access to our own research so that we might save large swathes of the human race from an unnecessary death.

**E DURANTE LA PANDEMIA DOBBIAMO PREGARLI PER
AVER ACCESSO ALLE NOSTRE RICERCHE...**

**... PAGHIAMO GLI EDITORI COMMERCIALI PERCHÉ
METTANO SOTTO CHIAVE IL NOSTRO CONTENUTO...**

Comunicazione scientifica. Qualche cifra

Indovinate cosa rappresentano

4

2 milioni €

7.6 miliardi \$

38%

521%

Comunicazione scientifica. Qualche cifra

For researchers, it's like going to a restaurant, bringing all of your own ingredients, cooking the meal yourself, and then being charged \$40 for a waiter to bring it out on a plate for you.

You are the provider, the product, and the consumer.
J. Tennant, 2018

4

VOLTE PER CUI OGNI ENTE PAGA LA RICERCA

STIPENDIO

FONDI RICERCA

SI PUBBLICANO I RISULTATI

ABBONAMENTI

2 milioni €

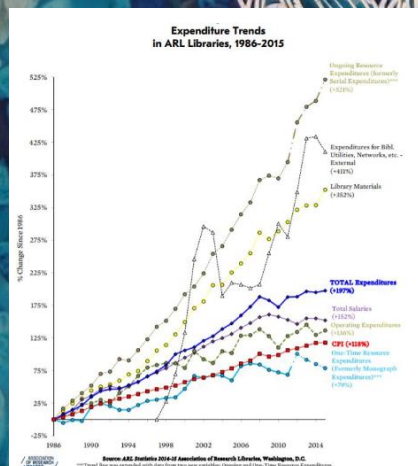
DIRITTI DI RIUSO

521%

AUMENTO DEI PREZZI DELLE RIVISTE 1986-2015

INDOVINATE: I BUDGET BIBLIOTECA SONO CRESCIUTI 521%?

TAGLI, TAGLI, TAGLI



Comunicazio

Qualche cifra



OGGI LEGGERE NON È GRATIS

IN REGIME DI ABBONAMENTO PAGHIAMO 3800/5000 € PER ARTICOLO

SOLO CHE PAGHIAMO PER CHIUDERE

7.6 miliardi \$

[SOTTOSTIMATO] CIFRA SPESA GLOBALMENTE PER ABBONAMENTI 2016

38%

GUADAGNO NETTO ELSEVIER

Science

A new mandate highlights costs, benefits of making all scientific articles free to read

By Jeffrey Brainard | Jan. 1, 2021, 12:01 AM Jan 1, 2021



Eloy Rodrigues 20 h · 🌐

This is the publishers perspective (from the concluding paragraphs):
 "The journal publishing industry's annual revenues of about \$10 billion represent less than 1% of total global spending on R&D—and, in this view, it's reasonable to divert more of the total to scholarly communications that are essential to making the entire enterprise run."
 So it doesn't matter if there is growing evidence that we could have a much better scholarly communication system (more efficient, more innovative, more inclusive, more transparent and self-correcting) for a fraction of this \$10 billion. Let's focus on maintaining the current system, and especially the current big commercial companies that benefit from it, even if we (research institutions, governments and their taxpayers) need to use more resources to feed it. Right?
 Wrong!

The Guardian view on academic publishing: disastrous capitalism 2019
Editorial
 The giants of the scientific publishing industry have made huge profits for decades. Now they are under threat

LICENZA DI STAMPARE DENARO [MERCATO ANELASTICO]

Profit	Company	Industry
10%	BMW	automobiles
23%	Rio Tinto	mining
25%	Google	search
29%	Apple	premium computing
35%	Springer	scholarly pu
37%	Elsevier	scholarly pu

...E NE VORREBBERO ALTRI...

Il meraviglioso mondo di Elsevier



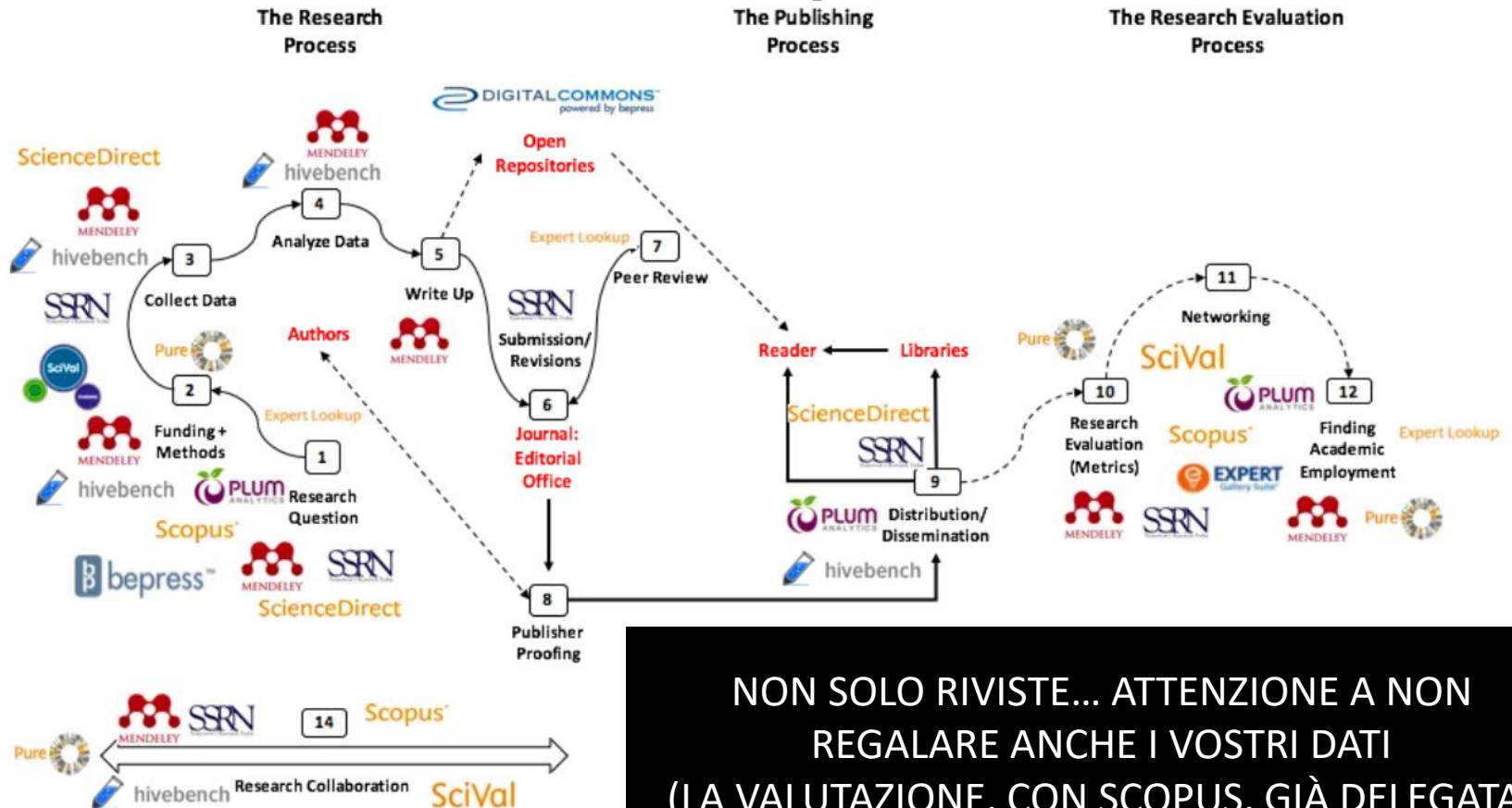
Publishers are increasingly in control of scholarly infrastructure and why we should care

A Case Study of Elsevier

Written by: Alejandro Posada and George Chen, University of Toronto Scarborough

2017

The Academic Knowledge Production Process



NON SOLO RIVISTE... ATTENZIONE A NON REGALARE ANCHE I VOSTRI DATI (LA VALUTAZIONE, CON SCOPUS, GIÀ DELEGATA)

Jean-Sebastien Caux
@jscaux

Following

The prospectus for the IPO of Springer Nature
[proxy.dbagproject.de/mediacenter/re ...](http://proxy.dbagproject.de/mediacenter/re...)
should be compulsory reading for any funder/university/agency representative negotiating with publishers. You can then question whether you should support #SciPost and similar initiatives, or can afford not to.

Traduci il Tweet

13:38 - 5 May 2018

22 Retweet 28 Mi piace



CAUTION

Prospectus dated April 25, 2018

SPRINGER NATURE

Prospectus

for the public offering

Focus on Research, with a High-Quality Brand Portfolio, Global Scale Benefit from Strong Growth in the Open Access Publishing Market.

increasingly important, as market participants increasingly differentiate in the open access market with regard to APCs according to a journal's impact factor. Our open access portfolio includes a large number of leading brands, such as such as Nature Communications, Scientific Reports and Springer Open, and high impact factor publications, positioning us well to command premium APCs from authors.

Springer Prospectus Apr. 25



PROFESSIONAL JOBS SUMMITS RANKINGS

Linking impact factor to 'open access' charges creates more inequality in academic publishing

needed to fulfil our obligations. This has seen us stop using journal impact factors in isolation in our marketing (note: a prospectus is a legal document aimed at potential investors, not a marketing tool for authors or librarians). In fact, for more than 10 years, long before DORA, Nature editorials have expressed concerns about the overuse

[vostra sc
gioco è spo

10.2.5 Increasing Share in Revenues from Open Access

LA LOGICA DEL PRESTIGIO...
ABERRANTE

Springer Nature was one of the first academic publishers to actively embrace the opportunities offered by open access, which provides us additional opportunities to generate revenues, as open access publications are funded by authors and/or their funders or the relevant research institutions, not libraries. Accordingly, revenues stemming from APCs are in the short- to medium-term supplementary to the subscription business, not cannibalistic. Some of our journals are among the open access journals with the highest impact factor, providing us with the ability to charge higher APCs for these journals than for journals with average impact factors.

Accesso?

Who needs access? You need access!

Public access to scientific research makes all our lives better

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Newest Stories

<https://whoneedsaccess.org/>

Home

...e have a problem

Governments spend billions on funding research. But most people don't have access to it including the taxpayers who ultimately funded the research.

Scientists, mostly funded by government money or charities, do the research. They write up their results as papers, format the manuscripts, prepare figures, and send them to publishers. Other

Search

Recent Posts

- Martin Eve, humanities researcher, open access innovator and cerebral



Joanne Kamens ✓

@JKamens

Segui

In risposta a @jasonpriem e @unpaywall

and btw the "everyone who needs it has access" is completely wrong. I have worked in small biotechs for the last 10 years and hit frustrating paywalls EVERY DAY trying to do good science.

Traduci dalla lingua originale: inglese

15:14 - 4 gen 2018

permesso di accesso

Posta in arrivo x



Niccolò [redacted] gmail.com >

a me ▾

Buongiorno,
sono uno studenti UNIMI e sto preparando la tesi, spesso nelle mie ricerche per il materiale, mi imbatto nel vostro sito IRIS ma non posso accedere all'articolo a cui sono interessato. Come posso ottenere il permesso?

PMI, START-UP, PROFESSIONISTI,
STUDENTI NEOLAUREATI...

NESSUNO PUÒ LEGGERE I RISULTATI DELLE RICERCHE
(FINANZIATE CON FONDI PUBBLICI)

CON LE BIBLIOTECHE
CHIUSE IN LOCKDOWN I
NOSTRI STUDENTI HANNO
AVUTO ENORMI
DIFFICOLTÀ CON IL
MATERIALE DIDATTICO...
POSSIBILE CHE UNA
UNIVERSITÀ PUBBLICA
NON POSSA GARANTIRE
DISPENSE O TESTI
PUBBLICI???

What's "Open" During COVID-19? In Global Pandemic, OER and Open Access Matter More than Ever

Posted April 14, 2020

By Lindsey Gumb

Higher education

Jan. 29, 2021

'Price gouging from Covid': student ebooks costing up to 500% more than in print

Call for inquiry into academic publishers as locked-down unable to access study material online

In Italia è successo che certi editori, in maniera programmatica, hanno deciso di vendere l'elettronico solo ai singoli e non alle biblioteche. Altri, pur avendo praticamente solo testi e collane universitarie, non hanno nessuna versione elettronica: stampano le singole copie coi torchi???



Examples librarians have given include an education textbook called An

The university is so exasperated by what Ayris calls "the scandal of ebooks", that it has just decided it will begin publishing its own open-access textbooks. "This is a direct response to this crisis," he says. "We fed up with paying these prices when our academics are writing the textbooks. In the future, universities need to club together and take control of their own publishing."

The Guardian approached the Publishers' Association but it declined to comment.

Integrated Play-based Curriculum for Young Children, published by Routledge, offered to libraries for £36.99 in print but for £480 for an ebook that can only be read by one student at a time. The cost to libraries for one business studies book, Fundamentals of Corporate Business, published by McGraw Hill, was £65.99 in print and £528 as a single user ebook.

... se no, Sci-Hub non es



Science Home News

Who's downloading pirated papers?

EVERYONE

In rich and poor countries, researchers turn to the Sci-Hub website.

2016



Bernard Rentier @bernardrentier Following

The single fact that providing free information on universal Science is illegal tells us a lot about how absurd it has become, in the Internet era, to rely on the old research publication model. #FreeOpenAccessNow

Jon Tennant @Protohedgehog

... like anyone can now create their own @sci_hub mirror ... sidio/sci-hub You can use this to help accelerate research and society by ... access to millions of research articles. But it's probably illegal, so don't

Elsevier and Wiley Declare War on Research Community in India

Without access to the journals available on websites like Sci-Hub and Libgen, against which the copyright holders have filed a case in the Delhi High Court, it is almost impossible to do quality research.

Prabir Purkayastha 26 Dec 2020

Dec. 20, 2020

RELATED STORIES

- India's Right to Education is a Failing in Reality
- The Impact of COVID-19 on Education
- Paraguayan Students and Peasants Demand Greater Budget for...
- Teachers' Unions Mount

2018 2018

[come ottenerne un pdf]

HOW TO GET THE PDF?

Alternatives to the publisher version of full-text journal articles

updated: February 20, 2018

1 UNPAYWALL

Get full-text of research papers as you browse, using Unpaywall's index of 10 million legal, open access articles. For CHROME | Firefox <http://unpaywall.org/>



2 GOOGLE SCHOLAR BUTTON

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4 OPEN ACCESS BUTTON

Free, legal research articles and data delivered instantly or automatically requested from authors. You can do this from the website, or install a browser extension/API. <https://openaccessbutton.org/>



5 HASHTAG #ICANHAZPDF

Use the hashtag #icanhazpdf together with a link to the requested publication; if somebody has access, they can send you the PDF. <https://twitter.com/search?q=%23icanhazpdf>



HOW TO GET THE PDF?

Alternatives to the publisher version of full-text journal articles

8 NARCIS

NARCIS provides access to scientific information, including open access publications from the repositories of all the Dutch universities, KNAW, NWO and a number of research institutes, datasets from some data archives as well as descriptions of research projects, researchers and research institutes. <http://www.narcis.nl/>

9 OSF PREPRINTS

OSF offers access to over 2 million open access preprints. <https://osf.io/preprints/>

10 DIRECTORY OF OPEN ACCESS JOURNALS

DOAJ offers access to over 10,000 open access journals. <https://doaj.org/>

11 SCIENCE OPEN

Science Open contains over 37 million articles, a large part in open access. <http://www.scienceopen.com/>

12 SCI-HUB

If all else fails, you may be tempted to use Sci-Hub. Do realize, however, that in many countries, including The Netherlands, the use of Sci-Hub is considered as an illegal act, as it involves content protected by copyright laws and licensing contracts.

open access.nl

News and events

What is open access? In the Netherlands You

Alternative ways to access journal articles

Feb. 27, 2018

unpaywall

Unpaywall ... but it works only IF authors self-archive

An open database of 17.025.907 free scholarly articles.

We harvest Open Access content from over 50,000 publishers and repositories, and make it easy to find, track, and use.

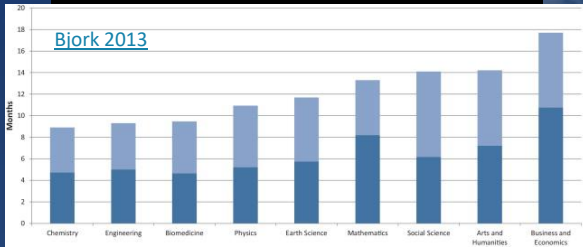
LEARN MORE

GET THE EXTENSION

Comunicazione scientifica: funziona?

ALTRI NUMERI... INDOVINATE COSA RAPPRESENTANO...

TEMPI MEDI DI PUBBLICAZIONE



9-18 MESI



Paola Masuzzo
@pcmasuzzo

Today I witnessed the celebration of a research article published in a (famous & glam) journal after 2 and a half years of revisions. I do feel happy for the authors, of course, but I cannot help wondering what's there to celebrate in such a slow scientific dissemination process.

Traduci il Tweet

6:58 PM · 9 mag 2019 · Twitter for Android

[P.Masuzzo, Sept. 2019](#)

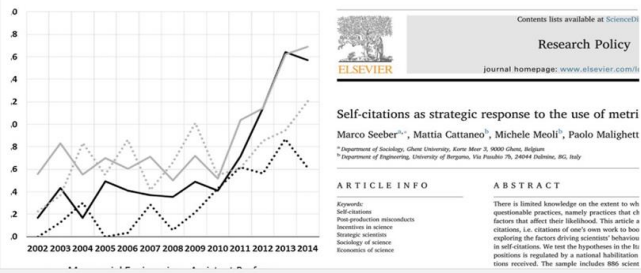
AUMENTO DELLE AUTOCITAZIONI IN ITALIA

← Tweet March 2018



Jelte Wicherts
@JelteWicherts

Gaming the system: When in 2010 Italian universities incorporated citations in promotion decisions, self-citation rates among social scientists went up by 81-179% sciencedirect.com/science/articl...



Contents lists available at ScienceDirect
ELSEVIER
Research Policy
journal homepage: www.elsevier.com/locate/ris

Self-citations as strategic response to the use of metrics
Marco Seebacher^{a,*}, Mattia Cattaneo^b, Michele Meoli^c, Paolo Malighetti^d

^aDepartment of Sociology, Ghent University, Korte Meer 3, 9000 Ghent, Belgium
^bDepartment of Engineering, University of Bergamo, Via Piazze 79, 24121 Dalmine, Italy

ARTICLE INFO **ABSTRACT**

Keywords:
Self-citation
Peer production
Incentives in science
Strategic response
Sociology of science
Economics of science

There is limited knowledge on the extent to which questionable practices, namely practices that do not follow the rules of the game, affect their likelihood. This article examines the factors driving academic behavior in self-citations. We test the hypotheses in the literature regarding the factors driving self-citation practices in a national habilitation exercise. The sample includes 896 scientists.

179%

70%

43%

Home + Research + Research projects [The Turing way, 2019](#)

'The Turing Way' - A handbook for reproducible data science

Developing a handbook for best practice in academic data science

RICERCHE NON RIPRODUCIBILI

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Archive > Volume 533 > Issue 7604 > News Feature > Article

[Nature 2016](#)

1,500 scientists lift the lid on reproducibility

Survey sheds light on the 'crisis' rocking research.

[Houston, abbiamo un problema]

No academic post for fraudster Diederik Stapel, after all

Recently, we reported that social psychologist and renowned data faker Diederik Stapel had found himself a [new gig supporting research at a vocational university in the Netherlands](#) — but it appears that was short-lived.



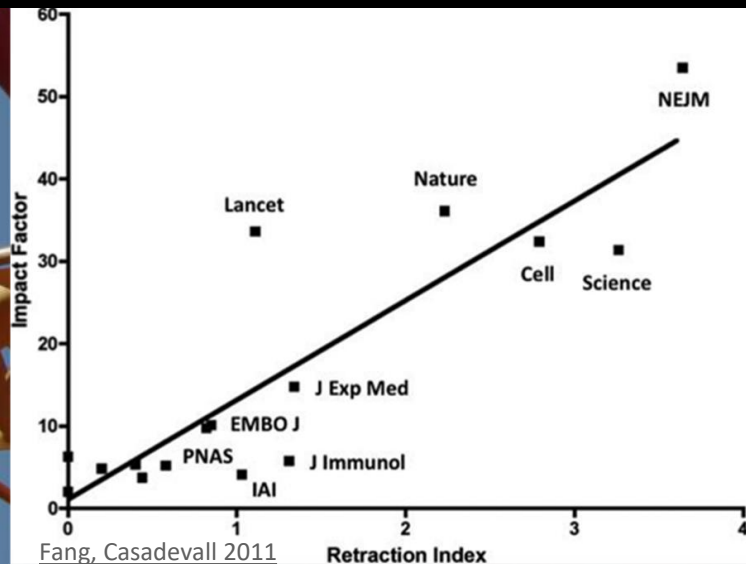
Diederik Stapel

According to multiple news reports, NHTV Breda will not be employing Stapel, after all.

Here's our Google translate of a portion from [De Telegraaf](#): [Continue reading](#) →

Does scientific misconduct cause patient harm? The case of Joachim Boldt 2013

CORRELAZIONE DIRETTA #RITRAZZAZIONI/IMPACT FACTOR



<https://retractionwatch.com/>

Retraction Watch

Tracking retractions as a window into the scientific process

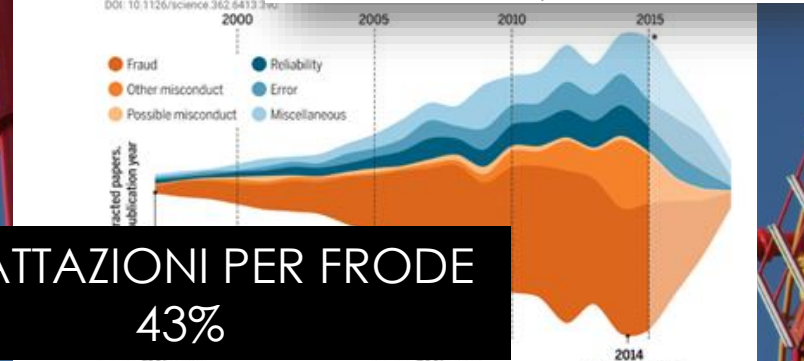
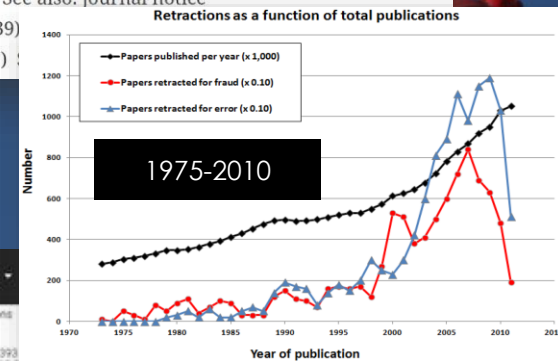
The Retraction Watch Leaderboard

Who has the most retractions? Here's our unofficial list (see notes on methodology), which we'll update as more information comes to light:

1. [Yoshitaka Fujii](#) (total retractions: 183) See also: [Final report of investigating committee](#), [our reporting](#), [additional coverage](#)
2. [Joachim Boldt](#) (96) See also: [Editors-in-chief statement](#), [our coverage](#)
3. [Diederik Stapel](#) (58) See also: [our coverage](#)
4. [Adrian Maxim](#) (48) See also: [our coverage](#)
5. [Chen-Yuan \(Peter\) Chen](#) (43) See also: [SAGE](#), [our coverage](#)
6. [Hua Zhong](#) (41) See also: [journal notice](#)
7. [Shigeaki Kato](#) (39)
8. [Yuhji Saitoh](#) (37)

Science Contents

See all authors and affiliations
 Science 26 Oct 2018;
 Vol. 362, Issue 6413, pp. 390-393
 DOI: 10.1126/science.362.6413.390



RITRAZZAZIONI PER FRODE 43%

ROYAL SOCIETY OPEN SCIENCE

rsos.royalsocietypublishing.org

The natural selection of bad science

[P.Smaldino, 2016](#)

All retractions: 62
 Fraud: 29

All retractions: 419
 Fraud: 252

2014
 All retractions: 946
 Fraud: 411

J.Brainard, [Rethinking retractions](#), Science 2018

Retracted coronavirus (COVID-19) papers
Retraction watch



60 RITRATTAZIONI
19 PREPRINT
41 ARTICOLI SU RIVISTE
PEER REVIEWED

THE LANCET

ew: funziona??

Retraction—Hydroxychloroquine or chloroquine with or without macrolide for treatment of COVID-19: a multinational registry a

Mandeep R Mehra • Frank Ruschitzka • Amit N Patel

Published: June 05, 2020 • DOI: [https://doi.org/10.1016/S0140-6736\(20\)31324-6](https://doi.org/10.1016/S0140-6736(20)31324-6) • Check for updates

After publication of our *Lancet* Article,¹ several concerns were raised with respect to the veracity of the data and analyses conducted by Surgisphere Corporation and its founder and our co-author, Sapan Desai. We launched an independent third-party audit of Surgisphere with the consent of Sapan Desai to



The NEW ENGLAND JOURNAL of MEDICINE

Retraction: Cardiovascular Disease, Drug Therapy, and Mortality in Covid-19. *N Engl J Med*. DOI: 10.1056/NEJMoa2007621.

June 25, 2020

RITRATTATI DOPO CHE I LETTORI HANNO ESPRESSO DUBBI. GLI ARTICOLI AVEVANO PASSATO LA PEER REVIEW TRADIZIONALE (SENZA AVER VISTO I DATI GREZZI)

Because all the authors were not granted access to the raw data and the raw data could not be made available to a third-party auditor, we are unable to validate the primary data sources underlying our article, "Cardiovascular Disease, Drug Therapy, and Mortality in Covid-19."¹ We therefore request that the article be retracted. We apologize to the editors and to readers of the *Journal* for the difficulties that this has caused.

Related Articles

ORIGINAL ARTICLE JUN 18, 2020

Cardiovascular Disease, Drug Therapy, and

Dec. 2020

Elsevier looking into “very serious concerns” after student calls out journal for fleet of Star Trek articles, other issues

An undergraduate student in the United Kingdom has taken to task the editors of a purportedly scholarly journal for having

Grech is a pediatric cardiologist, and, evidently a huge Star Trek fan. He’s also a prolific author, and seems to have turned *EHD* into something of a personal fanzine. As Gaddy notes in his letter, Grech has written at least 113 papers in *EHD*, an Elsevier title, 57 as sole author:

19 of these 113 ar

Star Trek. 1

that are rel

of this stop

l practices,

Many of t

category of

Early Human Development

An international journal concerned with the continuity of fetal and postnatal life

Editor-in-Chief: [E. F. Maalouf](#)

[View Editorial Board](#)

[CiteScore: 3.1](#) [Impact Factor: 1.969](#)

Established as an authoritative, highly cited voice on early human development, *Early Human Development* provides a unique opportunity for researchers and clinicians to bridge the communication gap between disciplines. Creating a forum for the productive exchange of ideas concerning early human growth...

EARLY HUMAN
DEVELOPMENT
PUBBLICATO DA
ELSEVIER
«AUTOREVOLE,
MOLTO CITATO»

[Impact Factor?]

jadranka stojanovski
@jaca99

Segui

Everyone using impact factor is statistically illiterate, @Protohedgehog at #osfair2017

00:59 - 7 set 2017

10 Retweet 16 Mi piace

1 10 16

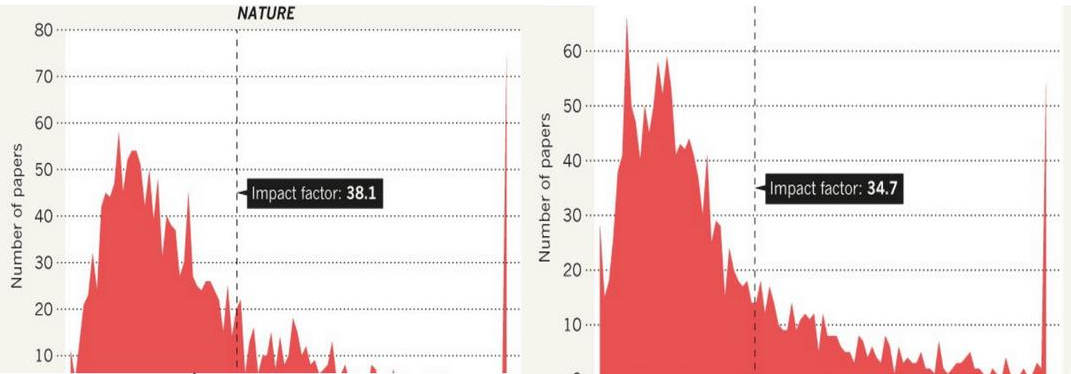
@Gr@h@M Steel @McDawg · 7 set
In risposta a @jaca99



occamstypewriter.org/scurry/2012/08/13/sick-of-impact-factors/

The Impact Factor is a bullshit statistic

J.Tennant 2017



is imposed by a very small number of highly cited papers

ISI Web of Knowledge™
Journal Citation Reports®

Journal: CURRENT BIOLOGY

Mark	Journal Title	ISSN	Total Cites	Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
<input type="checkbox"/>	CURR BIOL	0960-9822	22589	11.910	2.683	331	3.8	4.0

Journal Impact Factor

Cites in 2003 to items published in: 2002 = 3628
2001 = 3923
Sum: 7551

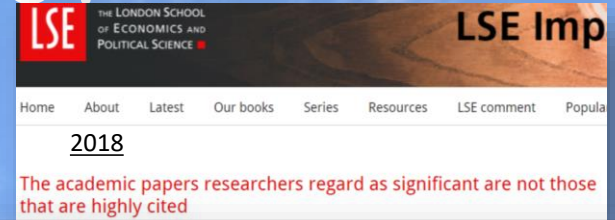
Number of items published in: 2002 = 334
2001 = 300
Sum: 634

Calculation: Cites to recent items 7551 = 11.910
Number of recent items 634

ni nell'anno X
sciti anni X-1 X-2

ticoli «citabili»
ati in X-1 X-2

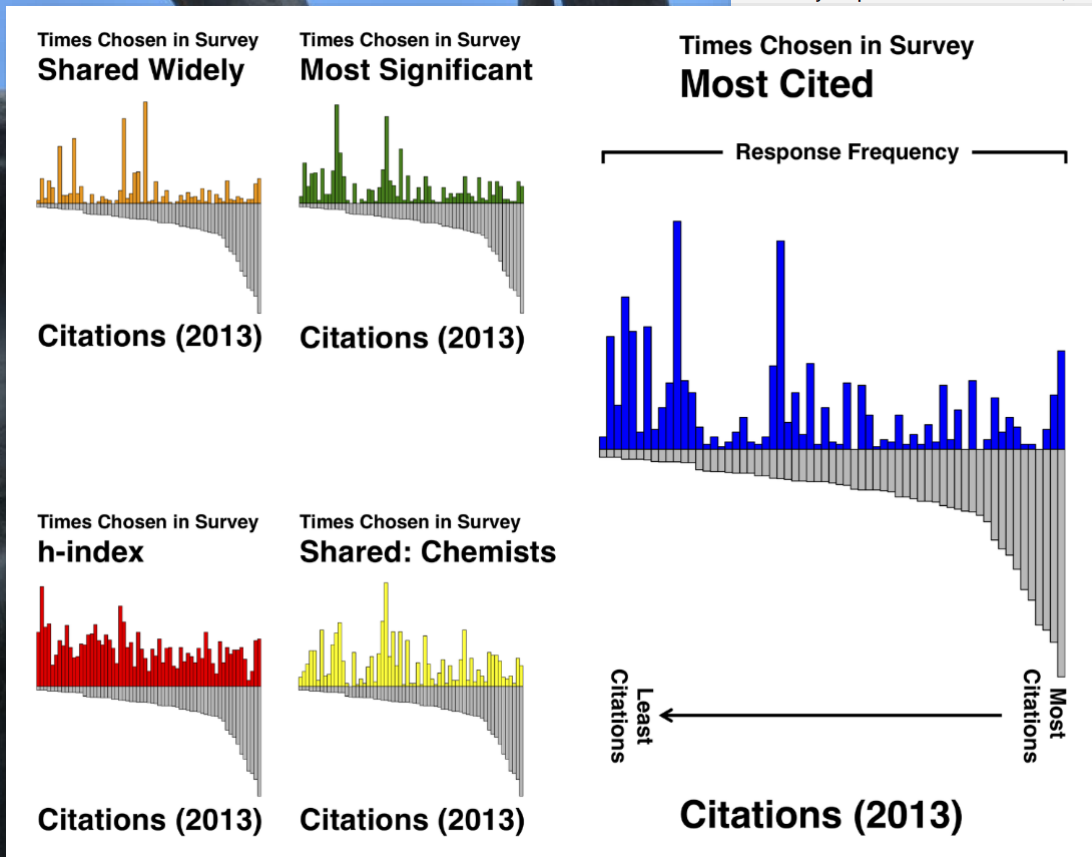
...citazioni? Cosa misurano?



So what now? We think this work clearly highlights a major issue with metrics – they aren't measuring what everyone commonly assumes we are measuring, or at least, are not accurately representing the more abstract perceptions of impact and importance that we measured in our survey.

As hinted earlier, we think our research shows that impact goes beyond citation count, and beyond scholarly impact. Recent articles, such as that in *PLoS Biology* and *Nature*, also call out current

what can we do to change current practice?



... perché valutazione = ossessione

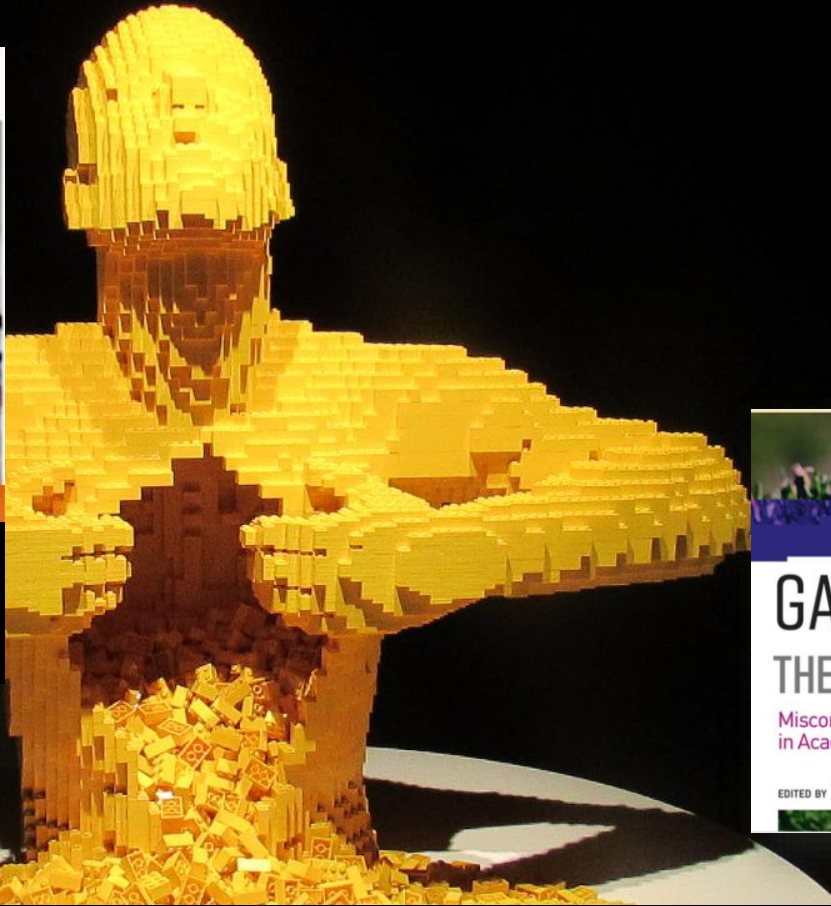
I was told impact metrics could make or break careers. Instead, they broke my faith in scientific research 2018



Performance-driven culture is ruining scientific research

The Guardian

COBRA EFFECT: QUANDO DURANTE UNA INVASIONE DI COBRA GLI INGLESI PAGAVANO PER UN COBRA MORTO, GLI INDIANI INIZIARONO AD ALLEVARLI



THE ROYAL SOCIETY

The future of scholarly scientific communication
2015
Conference 2015

LA VALUTAZIONE È DIVENTATA UN'OSSESSIONE

- «not only are we failing to provide the right incentives, we are providing perverse ones»
- Goodhart's law: «**when a measure becomes a target, it ceases to be a good measure**»
- «**people game the system at every level**»

VALUTAZIONE DISTORCE LE SCELTE

- **PERPETUA IL SISTEMA PER CUI SI PAGA IL PRESTIGIO DELLE RIVISTE**
- **CREA COMPETIZIONE E NON COLLABORAZIONE**
- **IMPEDISCE DI RICONOSCERE DATI, SOFTWARE COME «PRODOTTI»...**

metrics designed to assess the importance and impact of research as an aid to evaluation, with publication outputs in traditional scientific journals being the major focus. These metrics in turn affect the behaviour of researchers, such as their choice of journals, as they seek to maximize their performance as measured by the metrics used. They can contribute to the maintenance of high journal prices, promote intense competition rather than openness and sharing, and fail to recognize research contributions such as the production of datasets, software, code, blogs, wikis and forums.

ICSU 2014

We recognise that researchers need to be given a maximum of freedom to choose the proper venue for publishing their results and that in some jurisdictions this freedom may be covered by a legal or constitutional protection. However, our collective duty of care is for the science system as a whole, and researchers must realise that they are doing a gross disservice to the institution of science if they continue to report their outcomes in publications that will be locked behind paywalls.

We also understand that researchers may be driven to do so by a misdirected reward system which puts emphasis on the wrong indicators (e.g. journal impact factor). We therefore commit to fundamentally revise the incentive and reward system of science, using the San Francisco Declaration on Research Assessment (DORA)⁴ as a starting point.

PlanS Preamble

- **PAYWALLS SONO UN DISSERVIZIO ALLA SCIENZA E ALLE ISTITUZIONI**
- **I RICERCATORI POSSO ESSERE MOSSI DA UN SISTEMA DI INCENTIVI FUORVIANTE**

The scientific communication system has hardly been modernised in recent decades and has even become archaic in view of the modern developments in communication. Delays between submission and publication of articles and monographs are excessively long : by the time they appear, some research is already out of date. In addition, publication costs are far too high in relation to the real cost of electronic dissemination.

The pitfall also lies in the way researchers are evaluated. Based on the number of their publications and the prestige of the journals that publish them, assessment urges scientists to focus on writing articles as if it were a goal in itself. This type of evaluation does not do justice to the merits of the researcher and its effects on science are perverse: a plethora of publications and a decline in their quality (1). In the humanities and social sciences, it depreciates the use of vernacular languages, which is important in research related to a more local context.

It is therefore urgent, for the general interest, to learn the lessons of this dramatic episode and to take steps to ensure a completely free flow of information from public research, whatever its nature. We must begin now to reallocate our resources into open community infrastructures and services that are in line with current research and societal concerns (5). Let's not go back to the way things were after the pandemic disappears eventually. The challenges facing our society will never again tolerate locked-up knowledge.

SISTEMA ARCAICO
RITARDI INSOSTENIBILI
COSTI INSOSTENIBILI

LA VALUTAZIONE HA CREATO
EFFETTI PERVERSI

NON POSSIAMO TORNARE
INDIETRO, DOPO LA PANDEMIA
LE SFIDE GLOBALI NON
SOPPORTANO PIÙ UNA
CONOSCENZA RINCHIUSA

07
samedi
Nov 2020

*The need for Open Science, in times of
pandemic and far beyond*

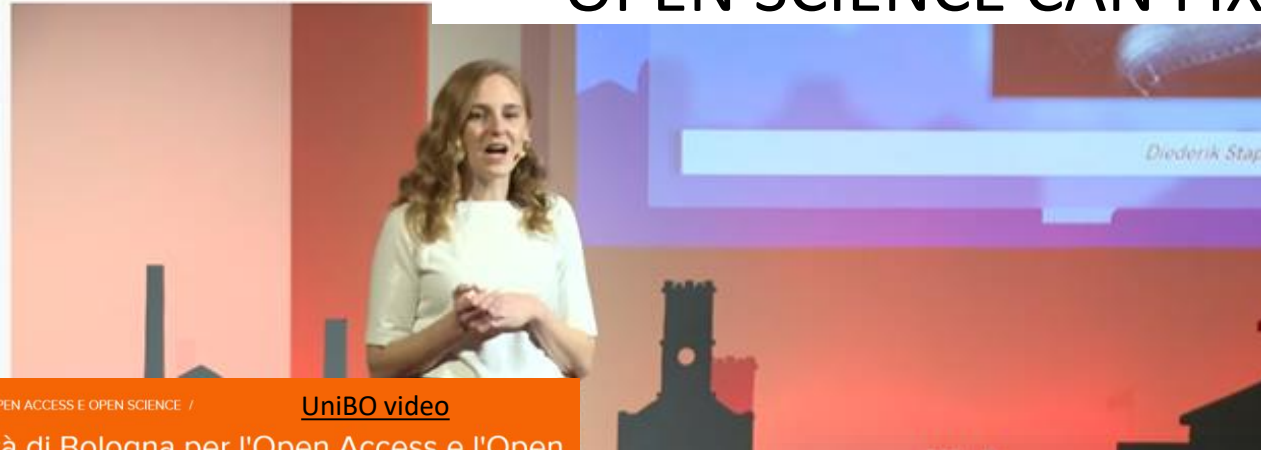
POSTED BY BERNARDRENTIER01 | [B.Rentier, Nov. 7, 2020](#) ≈ 1

Il sistema è rotto

RESEARCH CULTURE IS BROKEN, OPEN SCIENCE CAN FIX IT

YouTube

June 2019



HOME / ALMADL / OPEN ACCESS E OPEN SCIENCE /

[UniBO video](#)

L'Università di Bologna per l'Open Access e l'Open Science

Rassegna di video su principi, policy, infrastrutture e servizi di supporto per l'Open Access e l'Open

Video 2: [I colori dell'Open Access](#) (durata min. 4:15)

Open Access è accesso libero e senza barriere al sapere scientifico. Ci sono molti modi per pubblicare in Open Access: green, gold, red, bronze... il video ti aiuta a scegliere le strategie migliori per pubblicare in Open Access e aumentare l'impatto della tua ricerca.

Video 3: [Obblighi e opportunità per la ricerca finanziata](#) (durata min. 5:00)

Numerosi enti di finanziamento della ricerca promuovono l'Open Science e richiedono una disseminazione in Open Access delle pubblicazioni e dei dati di progetto; la legge italiana, seguendo le raccomandazioni della Commissione Europea, riconosce l'Open Access come modalità di pubblicazione dei risultati delle ricerche finanziate in modo prevalente dai fondi pubblici. L'Open Access non è solo un obbligo ma un'opportunità per la ricerca aumentandone l'impatto e la visibilità. Occorre seguire attentamente le clausole previste dai bandi di finanziamento per usufruire delle agevolazioni e dei vantaggi dell'Open Access e non incorrere in sanzioni.

Video 4: [Diritti d'autore e licenze aperte](#) (durata min. 5:09)

Non è necessario cedere in via esclusiva tutti i diritti d'autore per pubblicare i propri lavori di ricerca. I diritti d'autore di natura patrimoniale possono essere trasferiti singolarmente, in modo non esclusivo e per un tempo determinato. E' fondamentale scegliere editori che consentano ai ricercatori di mantenere la titolarità sui propri lavori di ricerca e ne consentano la distribuzione con licenze aperte che ne permettano il riuso etico come le Creative Commons.

Video 5: [Dati della ricerca: la European Open Science Cloud e i principi FAIR](#) (durata min. 4:08)

I dati della ricerca sono tutte le evidenze alla base dei risultati della ricerca stessa. La conservazione e la condivisione in forma aperta dei dati della ricerca sono fra i pilastri della strategia europea a favore dell'Open Science.

Rachael Ainsworth

Open Science TV
223 iscritti

HOME VIDEO PLAYLIST CANALI DISCUSSIONE INFORMAZIONI

9 circles of hell of a scientific paper publishing, or the world is ...
201 visualizzazioni • 1 settimana fa

What is a difference between a news paper article and a scientific article? "Elephants on the street" versus "There are no elephants but they should be there". During the third part of our interview with Björn Brembs we talked about the traditional scientific publishing in commercial journals. In highly digitalized era, this process is certainly old-fashioned, as it is not scrutinised as it needs to be which can lead to a lot of mistakes

ULTERIORI INFORMAZIONI

Video caricati ▶ RIPRODUCI TUTTI

 Cost of scientific prestige and why it is so expensive f... 64 visualizzazioni • 19 ore fa Sottotitoli	 9 circles of hell of a scientific paper publishing, or the wor... 201 visualizzazioni • 1 settimana fa Sottotitoli	 L'editoria scientifica è una macchina per fare un sacco... 600 visualizzazioni • 1 mese fa Sottotitoli	 Open Science is a tool which creates a new infrastructure... 339 visualizzazioni • 2 mesi fa Sottotitoli	 What is Open Science: even a 12-year old child can... 1058 visualizzazioni • 3 mesi fa Sottotitoli
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Il sistema è rotto

Mail di Francesco, PhD candidate, 27 maggio 2020

Davanti a tutte queste situazioni (realtà purtroppo) del mondo della ricerca universitaria italiana, noi giovani siamo delusi e demoralizzati perchè vediamo che quell'ideale "cambiare/migliorare il mondo" non è più alla base della ricerca.

Cosa è diventata la ricerca scientifica? Pubblicare, pubblicare e pubblicare.

Non importa l'IF, non importa se la statistica usata nel lavoro sia giusta, non importa se si ha davvero indagato a fondo per tale lavoro...l'importante è pubblicare. Da aggiungere, inoltre, che la paura di essere "scoopati" e la fretta che essa comporta contribuisce inevitabilmente alla mediocrità dei lavori (mai così evidente come in questo periodo).

Per questo ormai l' 80-90% delle pubblicazioni scientifiche (stima personale ma verosimile) sono tutte bad science ed è questa la motivazione per cui molti PhD student, una volta raggiunto il traguardo del titolo, non continuano sul sentiero della ricerca.

I would need to add

- That questionable **academic** practices like power abuse, sexism, racism, and gaslighting are subtle, pervasive, and impactful
- That mental health issues among doctoral candidates are real, prevalent, and preventable
- That good people, especially women and non-white men, are leaving academia because of it's systemic issues

And *that*, that is definitely not sustainable.

This is not **just** the way things are.

It's how things have been built and we reproduce it with our everyday choices.

It is how things are, but not how they have to remain.

Reflections on my PhD and building sustainable science



Chris Hartgerink Following
Apr 20 · 5 min read

[April 20, 2020](#)



Comunicazione o competizione?

INCENTIVI PERVERSI+
IPERCOMPETIZIONE =
FRODI/DATI FALSI

FIDUCIA DEL PUBBLICO A RISCHIO



ENVIRONMENTAL ENGINEERING SCIENCE

Mary Ann Liebert, Inc. publishers

Journals

Search

Alerts

[Environ Eng Sci](#) 2017 Jan 1; 34(1): 51–61.

Published online 2017 Jan 1. doi: [10.1089/ees.2016.0223](#)

PMCID: PMC5206685

Academic Research in the 21st Century: Maintaining Scientific Integrity in a Climate of Perverse Incentives and Hypercompetition

Marc A. Edwards^{1,†} and Siddhartha Roy[†]

Abstract

Go to:

Over the last 50 years, we argue that incentives for academic scientists have become increasingly perverse in terms of competition for research funding, development of quantitative metrics to measure performance, and a changing business model for higher education itself. Furthermore, decreased discretionary funding at the federal and state level is creating a hypercompetitive environment between government agencies (e.g., EPA, NIH, CDC), for scientists in these agencies, and for academics seeking funding from all sources—the combination of perverse incentives and decreased funding increases pressures that can lead to unethical behavior. If a critical mass of scientists become untrustworthy, a tipping point is possible in which the scientific enterprise itself becomes inherently corrupt and public trust is lost, risking a new dark age with devastating consequences to humanity. Academia and federal agencies should better support science as a public good, and incentivize altruistic and ethical outcomes, while de-emphasizing output.

...un abbraccio mortale



But let's not ignore the facts: the science system is in landslide transition from data-sparse to data-saturated. Meanwhile, scholarly communication, data management methodologies, reward systems and training curricula do not adapt quickly enough if at all to this revolution. **Researchers, funders and publishers (I always thought that meant making things public) keep each other hostage in a deadly embrace by continuing to conduct, publish, fund and judge science in the same way as in the past century.**

So far, no-one seems to be able to break this deadlock. Open Access articles are solve only a fraction of the problem. Neither 'open research data' alone will do. W



Ssssst...sta o

qualcosa?

Apr. 27, 2020

Publisher collaboration to keep COVID research moving

Researchers



A cross publisher collaboration aims to ensure research related to COVID-19 is reviewed and published as quickly as possible. An Open Letter of Intent encourages academics to sign up to a reviewer database, authors to use preprint servers and calls on other publishers to action with a focus on open data and encouraging preprints.

Opinion | 21 May 2020

May 21, 2020

Open access: how COVID-19 will change the way research findings are shared



Robert Kiley
Head of Open Research
Wellcome

During the COVID-19 pandemic, researchers and publishers have pulled together to publish their outputs at an unprecedented rate. So, how have they responded? And how will this change research culture and the way findings are disseminated in future?

Business Ethics
A EUROPEAN REVIEW

May 19, 2020

EDITORIAL | Free Access

Open Access, Open Science, and Coronavirus: Mega trends with historical proportions

Dima Jamali, Ralf Barkemeyer, Jennifer Leigh, Georges Samara

First published: 19 May 2020 | <https://doi.org/10.1111/beer.12289>

WHY OPEN ACCESS AND OPEN SCIENCE NOW?

There have been an impressive number of immediate natural science initiatives in response to COVID-19. For example, COVID-19-related Open Access data repositories have been created (Xu et al., 2020), modeling those established for research into the human genome (Yozwiak, Schaffner, & Sabeti, 2015); real-time data visualization tools are provided by various actors (e.g., John Hopkins University, 2020; Roser, Ritchie, & Ortiz-Ospina, 2020; WHO, 2020); and Nature has established an "Open Peer Review platform" (Johansson & Saderi, 2020). Closer to (our disciplinary) home, noteworthy initiatives include the "COVID-19 Insights" series operated by a number of business sustainability networks (e.g., GRONEN, 2020) or the Academy of Management Learning & Education COVID-19 "Call for Questions" proposal (AMLE, 2020).

All of these initiatives have in common that they aim to make research more inclusive and more immediately available, and thus blend into more general developments that have been labeled as Open Access and Open Science. While Open Access refers to the free availability of research outputs, typically in digital format, Open Science goes beyond that in

Building a better research culture and improving publication practices are within our grasp. Seizing this opportunity and ensuring that all research is published open access must become one of the positive outcomes from the COVID-19 pandemic.

A lot of power lies in the hands of a few core publishing houses, but it is the choice of universities and researchers to chase the prestige that those publishers hand out, and the rankings success that follows it that maintains that power. It is the choices of governments to pay greater attention to simplistic rankings and of assessment that reinforces those choices. To build a knowledge production capable of responding to today's challenges we need alternatives to and entrenched success measures of the 20th century.

THE AUSTRALIAN
Thursday, May 7, 2020 Today's Paper Mood Games

HOME THE NATION WORLD BUSINESS COMMENTARY SPORT ARTS

HOME / HIGHER EDUCATION

The COVID-19 experience shows the value of sharing information

CAMERON NEYLON

Apr. 23, 2020

Lo scopo della comunicazione scientifica

The virus is reminding us that the purpose of scholarly communication is not to allocate credit for career advancement, and neither is it to keep publishers afloat. Scholarly communication is about, well, scholars communicating with each other, to share insights for the benefit of humanity. And whilst we've heard all this before, in a time of crisis we realise afresh that this isn't just rhetoric, this is reality.

the coffin will be closed?!" If we've created a generation of scholars who are just in it for the glory of papers in glamorous journals, and not to do good research that changes the world a little bit, then we really are in trouble.

So please UKRI, when you come to make your difficult policy decisions about open access, please put front and centre at every stage a very simple question: "Will this help scholars communicate more effectively and do better research?". Everything else is a distraction. Progress has been impeded by two butts for twenty years. It's time to focus.

No butts.

WONKHE ABOUT US* EVENTS LATEST* JOBS* SUBSCRIPTIONS* **Apr. 22, 2020**

The purpose of publications in a pandemic and beyond

COMUNICAZIONE
SCIENTIFICA=CONDIVIDERE LE SCOPERTE
PER IL BENE DELL'UMANITÀ

SE ABBIAMO CREATO UNA GENERAZIONE DI RICERCATORI CHE PENSANO SOLO ALLA GLORIA DI UN ARTICOLO IN RIVISTE PRESTIGIOSE E NON A FARE BUONA RICERCA CHE CAMBI IL MONDO, SIAMO NEI GUAI

UNICA DOMANDA: «QUESTI FONDI AIUTERANNO A COMUNICARE MEGLIO E FARE UNA RICERCA MIGLIORE»? IL RESTO SONO DISTRAZIONI

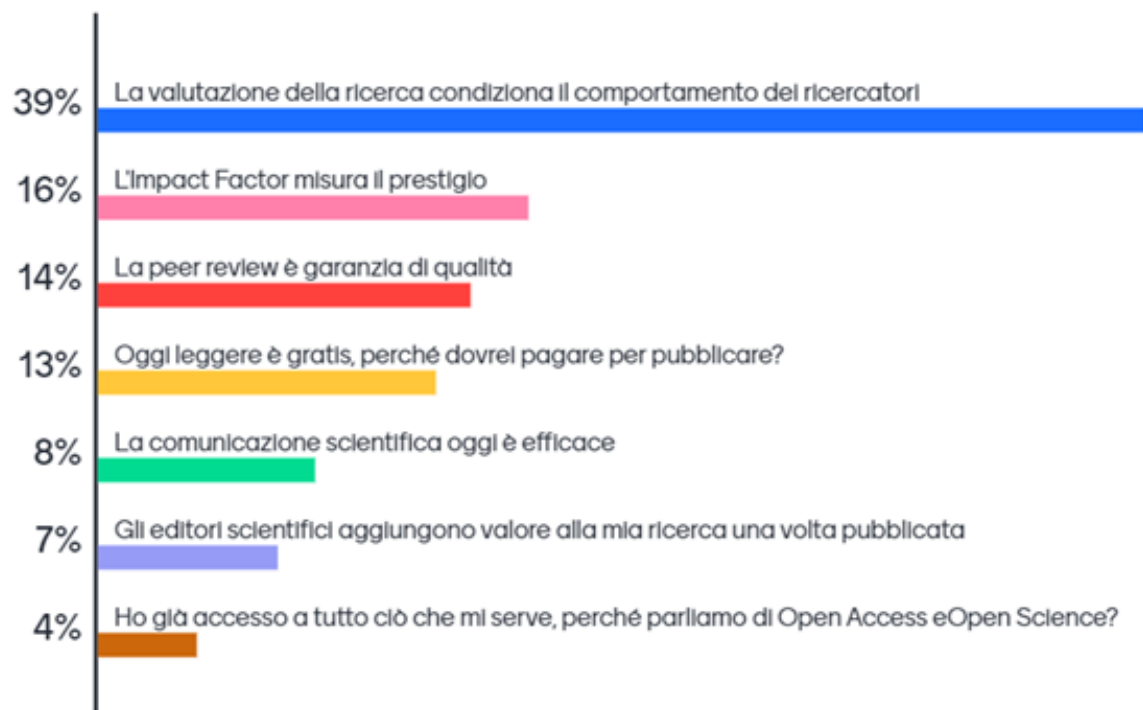


...pausa?

WWW.MENTI.COM

60 86 85 3

Con quale di queste frasi siete più d'accordo?



...sarebbe interessante riproporre la domanda a corso terminato!

Tre parole o tre concetti che vi hanno colpito

