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Does COUNTER Release 5 finally give us a level playing field?

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Does COUNTER Release 5 finally give us a level playing field?

Andrea Imre, Southern Illinois University Carbondale

And

Lorraine Estelle, COUNTER

Looking for a level playing field

- In 2017, COUNTER set about developing a Release 5 of the Code of Practice
- The objective was to create a standard which provided libraries and library consortia with usage reports that are:
 - Consistent
 - Credible
 - Comparable

In effect a level playing field



Why the Release 4 field was uneven?

there remain substantial “publisher effects”, with some publishers reporting significantly more downloads than would be predicted by the characteristics of their journals. These cross-publisher differences suggest that the currently available download statistics, which are supplied by publishers, are not sufficiently reliable to allow libraries to make subscription decisions based on price and reported downloads, at least without making an adjustment for publisher effects in download reports.

WOOD-DOUGHTY, Alex; BERGSTROM, Ted; STEIGERWALD, Douglas G.. Do Download Reports Reliably Measure Journal Usage? Trusting the Fox to Count Your Hens?. *College & Research Libraries*, [S.l.], v. 80, n. 5, p. 694, July 2019. ISSN 2150-6701. Available at: <<https://crl.acrl.org/index.php/crl/article/view/17824>>. Date accessed: 24 Mar. 2021. doi:<https://doi.org/10.5860/crl.80.5.694>.



Platform effects

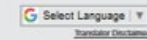
- Some journal platforms take a user to an abstract – the user can then decide whether to view the HTML format or download the PDF, or do both.
- Other platforms take a user directly to the HTML format.
- This second type of platform was showing significantly higher usage than the first
- As a result, librarians did not trust Reporting Period Total and calculated cost per use based on PDF download only.

Floquet dynamical phase transition and entanglement spectrum

R. Jeffer and Alireza Atilgan
Phys. Rev. A 103, 012204 – Published 8 January 2021



Article References No Citing Articles PDF HTML Export Citation



Insect Visitors of Lavender (*Lavandula officinalis* L.): Comparison of Quantitative and Qualitative Interactions of the Plant with Its Main Pollinators

K. Benachour

Author Affiliations

African Entomology, 25(2):435-444 (2017) <https://doi.org/10.6000/1933.025.0435>

ARTICLE FIGURES & TABLES REFERENCES CITED BY

Abstract

An inventory of insects visiting *Lavandula officinalis* flowers was established during three years (2009, 2010 and 2013) in a plot in the Constantine region (northeast Algeria). Three orders of insects were recorded on the flowers: Hymenoptera, Lepidoptera and Diptera. The majority (81 %) of taxa identified on the plant showed very low average abundances (≤ 1 individual/day) and 73 % of these taxa were bees and included the honeybee, *Apis mellifera*, the bumblebee, *Bombus terrestris*, *Ceratina cucurbitina* and two Megachilidae, *Anthidium florentinum* and *A. manicatum*. The bees had higher visitation rates than Lepidopterans (*Iphiclides podalirius*, *Pieris rapae* and *Polyommatus dorylas*). The 'quantitative' interaction of the plant with its main visitors, determined by the abundance and the visitation rate, showed that *B. terrestris* and *A. mellifera* are the most dominant pollinators of the plant. Analysis of the 'qualitative' component of the interaction of *L. officinalis* with the five major bees by counting pollen grains transported on their bodies revealed that *B. terrestris*, in addition to its dominance, was also the most efficient pollinator of the plant.

INTRODUCTION

Lavender (*Lavandula* spp.) is an unbranched subshrub belonging to the family of Lamiaceae. It is widely cultivated for its many medicinal benefits but also for its use in cosmetics industry including perfumery. The genus *Lavandula* has about 39 described species, including *Lavandula angustifolia* Miller also named *L. officinalis* Chaix and commonly known as true lavender, *L. latifolia* Medik and *L. intermedia* which is the natural hybrid between *L. angustifolia* and *L. latifolia*. The flowers of lavender are hermaphroditic and arranged in spikes. The corolla of *L. officinalis* is blue-violet and formed of five fused petals in a narrow tube about 7 mm in length and 4mm wide. Nectaries are located at the base of the corolla. There are four stamens with ovoid anthers and one pistil with two elongated yellowish stigma (Belmont 2013).

During flowering, lavender attracts various insects such as Hymenoptera, Lepidoptera and Diptera. However, hymenopterans are the most common visitors of the plant (McGregor 1978; Herrera 1989; Delgado Garcia 2000; Denisov & Bock 2008; Macukanovic-Jovic 2011; Balfour et al 2013). They are mainly represented by honeybees, *Apis mellifera*, but other species belonging to different genera such as *Bombus*

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ARTICLE SOURCE
African Entomology
Vol. 25 • No. 2
September 2017

KEYWORDS

foraging behaviour

ARTICLE
CLICK TO EXP

REFEREN

1. S. Sachdev in The Handbook of Magnetism and Advanced Magnetic Materials edited by H. Kojmuller and S. Parkin (Wiley, 2007).

different mechanisms. See <http://dx.doi.org/10.1103/PhysRevA.75.012404> for further instructions.

New metrics

- Total_Item_Requests
- Unique_Item_Requests
- Total_Item_Investigations
- Unique_Item_Investigations

These allow librarians to compare use across different platforms and finally overcome the shortcomings of previous COUNTER releases where platform design strongly influenced usage statistics often resulting in double counting PDF downloads and HTML views.

Title	Publisher	Metric_Type	Reporting_Period_Total	Aug-2018	Sep-2018	Oct -2018
Academic Perspectives	Ind Rev	Total_Item_Requests	983	257	209	517
Academic Perspectives	Ind Rev	Unique_Item_Requests	645	153	136	356
Archeology Today	Ind Rev	Total_Item_Requests	533	210	164	159
Archeology Today	Ind Rev	Unique_Item_Requests	345	129	110	106
Avian Bioengineering N	Ind Rev	Total_Item_Requests	3	1	2	0
Avian Bioengineering N	Ind Rev	Unique_Item_Requests	3	1	2	0

Here is an example of the Release 5 Standard View TR_J1. For convenience, we have hidden some of the columns from view.

Unique_Item

Overcoming the
'platform effect'.

Sarah is doing a literature review on Platform A which takes her directly to the full text HTML format of articles, she views the full text *and* downloads the PDF.

- Total_Item_Investigations = 2
- Unique_Item_Investigations = 1
- Total_Item_Requests = 2
- Unique_Item_Requests = 1

Sarah continues her search on Platform B, which shows article abstracts. Having read an abstract, she decides she does not need to view the HTML and downloads the PDF.

- Total_Item_Investigations = 2
- Unique_Item_Investigations = 1
- Total_Item_Requests = 1
- Unique_Item_Requests = 1

R5 Access_Types attributes



Cell Death & Disease

Explore content ▾ Journal information ▾ Publish with us ▾

nature > cell death & disease > articles > article

Article **Open Access** Published: 24 March 2021

Inhibition of HECT E3 ligases as potential therapy for COVID-19

Giuseppe Novelli , Jing Liu, [...] Pier Paolo Pandolfi 

Cell Death & Disease **12**, Article number: 310 (2021) | [Cite this article](#)

9197 Accesses | 241 Altmetric | [Metrics](#)

Abstract

SARS-CoV-2 is responsible for the ongoing world-wide pandemic which has already taken more than two million lives. Effective treatments are urgently needed. The enzymatic activity of

OA_Gold: content available under a Gold Open Access license from the point of publication.

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Access via your institutional login or Purchase PDF \$31.50

Access via your institutional email



Pregnant Women with and without Asthma

Megan E. Jensen BNutrDiet(Hons), PhD, AdvAPD^a , Annelies L. Robijn BSc, MSc^a, Peter G. Gibson MBBS, FRACP^{b, c}, Christopher Oldmeadow BMaths(Hons), PhD^d

Managing Asthma in Pregnancy study collaborative group

Breathing for Life Trial collaborative group

[Show more](#) ▾

+ Add to Mendeley  Share  Cite

<https://doi.org/10.1016/j.jaip.2020.10.061> [Get rights and content](#)

Controlled: everything not OA_Gold.

COUNTER R4 to R5 transition – librarian's perspective

- Rollout of R5 by publishers – different timelines
- R4 vs R5 metrics
- Change of report layout (using pivot tables)
- Manual harvesting vs. SUSHI or other automated services
- How do R4 and R5 compare?



R5 rollout

- COUNTER compliance requirement
 - R5 from January 2019
- Publisher actions
 - Start of R5 at different times
 - End of R4 at different times



Vendor compliance - COUNTER Registry at <https://www.projectcounter.org/about/register/>

« BACK TO REGISTRIES OF COMPLIANCE



Scholarly iQ

Address:
20 Ludlow Drive, West Kirby,
Wirral, UK CH48 3JQ

Phone:

Email:
sushi@scholarlyiq.com

Website address:
<http://www.scholarlyiq.com/>

Last Audit Date:
Jun 20

Audit Passed:
Jan 21

Audit due:
Sep 21

PLATFORMS COVERED

- Accessible Archives, Inc.
- American Meteorological Society
- American Psychological Association/APA PsycNET
- American Society of Animal Sciences (ASAS)
- BioOne
- BMJ Publishing Group
- Brill Books and Journals Online
- Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- Computing Reviews
- DRAM (dramonline.org)
- EDP Sciences
- IMAIOS
- Irish Newspaper Archives (INA)
- Optical Society of America (OSA)
- Oxford University Press
- Philosophy Documentation Center
- Physicians Postgraduate Press
- SPIE (Society of Photo-Optical Instrumentation Engineers)
- Wolters Kluwer Law and Business

« BACK TO REGISTRIES OF COMPLIANCE



Oxford University Press

Address:
Great Clarendon Street Oxford
OX2 6DP UK

Phone:

Email:
michael.zeffert@oup.com

Last Audit Date:
Feb 2019

Website address:
<http://global.oup.com/>

Audit Passed:
Nov 2019

Audit due:
Jun 2020

Supporting Audited Entity:
Scholarly iQ

AUDITED REPORTS PRODUCED

SUSHI DATA

COUNTER Version:	5	About Requestor ID:	The Requestor ID is a 128-bit integer (16 bytes) GUID that is generated upon registering with our SUSHI service. The format is alpha-numeric and similar to the following 00000000-0000-0000-0000-000000000000.
Platform:	Oxford University Press	About Customer ID:	The Customer ID is a platform specific identifier that dictates which account you are requesting usage statistics for during harvesting. Customer ID(s) are provided by the above platform after successfully registering for SUSHI access. This may be referred to as the Site ID.
SUSHI Contact Name:	Oxford University Press	About Security:	Each SUSHI request will validate the Requestor ID, Customer ID, Date Range, Report Code, and Report Release.
SUSHI Contact Email:	sushi@scholarlyiq.com	Other Notes:	Documentation for the Scholarly iQ SUSHI Web Service can be found at http://www.scholarlyiq.com/media/pdf/ScholarlyIQ_SUSHI_Guide_R4.pdf .
Instructions:	The Scholarly iQ SUSHI Web Service is accessible to all subscribers for the above platform. A unique authorization key (Requestor ID) is required to successfully access our service. A Requestor ID is provided after successfully registering for SUSHI access through the platform listed above. Each SUSHI request will validate the Requestor ID, Customer ID, Date Range, Report Code, and SUSHI Version. Each SUSHI request should be limited to a date range of one month for best performance and no more than 1 calendar year for historical requests. Visit http://oupreports.com to register for SUSHI access.	Submitted:	15/01/2021
Server URL:	http://sushi4.scholarlyiq.com/SushiService.svc		

REPORT A CHANGE

COUNTER 4 JR1

- COUNTER 4 JR1 (includes gold open access)
- First row of data always Total for all journals
- One row per journal title
- HTML and PDF metrics
- Usage data was generated for each calendar year
- Significant differences found between different publishers' HTML/PDF ratio

Period covered by Report:											
2019-01-01 to 2019-12-31											
Date run:											
2/1/2021											
Journal	Publisher	Platform	Journal DC	Proprietary	Print ISSN	Online ISSN	Reporting Period Total	Reporting Period HTML	Reporting Period PDF	Jan-19	Feb-19
Total for all journals		BioOne					1976	1019	957	173	122
Acta Chiro	Museum a	BioOne	10.3161/ac	BIOONE:a	1508-1109	1733-5329	0	0	0	0	0
Acta Ornith	Museum a	BioOne	10.3161/ac	BIOONE:a	0001-6454	1734-8471	0	0	0	0	0
Acta Palae	Institute of	BioOne	10.4202/ac	BIOONE:a	0567-7920	1732-2421	0	0	0	0	0
Adansonia	Muséum n	BioOne	10.5252/ac	BIOONE:a	1280-8571	1639-4798	0	0	0	0	0
African En	Entomolog	BioOne	10.4001/af	BIOONE:a	1021-3589	0013-8789	0	0	0	0	0

Period covered by Report:												
2020-01-01 to 2020-12-31												
Date run:												
2021-01-29T18:53:38Z												
Journal	Publisher	Platform	Journal DC	Proprietary	Print ISSN	Online ISSN	Reporting Period Total	Reporting Period HTML	Reporting Period PDF	Jan-20	Feb-20	Mar-20
Total for all journals							997	8	989	114	161	92
Physical Review A	APS	APS		PRA	2469-9926	2469-9934	256	4	252	28	45	15
Physical Review Applied	APS	APS		PRAPPLIED		2331-7019	12	0	12	1	5	5
Physical Review B	APS	APS		PRB	2469-9950	2469-9969	316	1	315	30	47	37
Physical Review C	APS	APS		PRC	2469-9985	2469-9993	3	0	3	1	0	0
Physical Review D	APS	APS		PRD	2470-0010	2470-0029	8	0	8	1	0	2

R5 new metrics

- Metic_Type (investigations and requests)
- Data_Type (type of content: e.g article, book, journal, multimedia)
- Section_Type (primarily used for book usage)
- YOP
- Access_Type (OA_Gold or Controlled)
- Access_Method (Regular or TDM)

COUNTER5 Reports

Identity

Southern Illinois University

Format

TSV

Custom

From

November, 2018

To

March, 2021

Report

Title Master Report (TR)

Metric Type

Data Type

Section Type

YOP

In YYYY, YYYY-YYYY, or YYYY|YYYY|YYYY-YYYY format

Access Type

Access Method

Attributes to Show

Granularity

Title Master Report - Manually harvested data

The screenshot displays the BioOne COMPLETE interface for configuring a Title Master Report. The main navigation bar includes 'Home', 'Report Sidebar', 'Options', 'Discovery Panel', 'Report Designer', 'Help', and 'Inbox'. The 'REPORT DATES' section is set to 2021, with 'Mar' selected. The 'AVAILABLE REPORTS' list includes 'COUNTER Master', 'PR - Platform Master Report', 'DR - Database Master Report', 'TR - Title Master Report', 'IR - Item Master Report', 'COUNTER Standard', and 'COUNTER R4'. The 'Title Master Report' configuration panel shows the following settings:

- Access Methods: All
- Access Types: All
- Attributes: All
- Data Types: All
- Granularity: Month
- Item Identifiers: All
- Metric Types: All
- Section Types: All
- YOP: All
- Hidden Columns: (empty)

A 'Select Access Types' dialog box is open, showing 'Controlled' and 'OA Gold' in the 'Available' list and 'All' in the 'Selected' list. A 'Continue' button is visible at the bottom of the dialog.

The 'Title Master Report' data table is displayed below the configuration panel:

Title	Publisher	Publisher_ID	Platform	DOI
American Malacological Bulletin	American Malacological Society		BioOne	10.4003/malb
American Malacological Bulletin	American Malacological Society		BioOne	10.4003/malb
American Malacological Bulletin	American Malacological Society		BioOne	10.4003/malb
American Malacological Bulletin	American Malacological Society		BioOne	10.4003/malb
Ornithology	American Ornithological Society		BioOne	10.1093/ornith
Ornithology	American Ornithological Society		BioOne	10.1093/ornith
Ornithology	American Ornithological Society		BioOne	10.1093/ornith
Ornithology	American Ornithological Society		BioOne	10.1093/ornith
The Auk	American Ornithological Society		BioOne	10.1642/tauk
The Auk	American Ornithological Society		BioOne	10.1642/tauk

On the left side of the interface, there are several filter sections:

- Access Type:** A dropdown menu with 'All' selected. A red box highlights the dropdown list, which includes 'All', 'Controlled', 'OA_Gold', and 'Other_Free_To_Read'.
- Access Method:** A dropdown menu with 'All' selected.
- YOP:** A dropdown menu with 'All' selected.

On the right side, the 'COUNTER5 Reports' section is partially visible, showing a date range from 'March, 2018' to 'March, 2021' and a 'Report (TR)' dropdown menu. A red box highlights a section of the report output area.

COUNTER 5 Title Report (TR)

- No Total for all journals
- More columns with different attributes
- A journal will have several rows of data
- No HTML and PDF metrics
- Journals with zero usage are not included

Report_Name	Title Master Report																	
Report_ID	TR																	
Release	5																	
Institution_Name	SO IL Univ Carbondale																	
Institution_ID	APS:SO794600																	
Metric_Types																		
Report_Filters																		
Report_Attributes	Attributes_To_Show=Access_Method Access_Type Data_Type Section_Type YOP																	
Exceptions	3040: Partial Data Returned																	
Reporting_Period	Begin_Date=2020-01-01; End_Date=2020-12-31																	
Created	2021-04-14T18:28:31Z																	
Created_By	APS																	
Title	Publisher	Publisher	Platfo	DOI	Proprieta	ISBN	Print_ISSN	Online_IS	URI	Data_Type	Section_Type	Access_Type	Access_Method	Metric_Type	Reporting	Jan-20	Feb-20	Mar
Physical Review A	APS		APS		APS:PRA	2469-9926	2469-9934			Journal	Article	Controlled	Regular	Unique_Item_Requests	228	20	41	
Physical Review A	APS		APS		APS:PRA	2469-9926	2469-9934			Journal	Article	Controlled	Regular	Unique_Item_Investigations	280	33	50	
Physical Review A	APS		APS		APS:PRA	2469-9926	2469-9934			Journal	Article	Controlled	Regular	Total_Item_Requests	256	28	45	
Physical Review A	APS		APS		APS:PRA	2469-9926	2469-9934			Journal	Article	OA_Gold	Regular	Total_Item_Investigations	1	0	0	
Physical Review A	APS		APS		APS:PRA	2469-9926	2469-9934			Journal	Article	Controlled	Regular	Total_Item_Investigations	488	56	86	
Physical Review A	APS		APS		APS:PRA	2469-9926	2469-9934			Journal	Article	OA_Gold	Regular	Unique_Item_Investigations	1	0	0	
Physical Review Appli	APS		APS		APS:PRAPPLIED		2331-7019			Journal	Article	Controlled	Regular	Unique_Item_Requests	12	1	5	
Physical Review Appli	APS		APS		APS:PRAPPLIED		2331-7019			Journal	Article	Controlled	Regular	Total_Item_Investigations	22	2	11	
Physical Review Appli	APS		APS		APS:PRAPPLIED		2331-7019			Journal	Article	Controlled	Regular	Total_Item_Requests	12	1	5	
Physical Review Appli	APS		APS		APS:PRAPPLIED		2331-7019			Journal	Article	Controlled	Regular	Unique_Item_Investigations	14	1	6	

Demo of pivot table with R5 Title report

SUSHI feeds for ERMS and LMS

- Add R5 SUSHI vendor account information to your system
- Monitor SUSHI load reports
- Update SUSHI data after any platform migration
- Manually load data not harvested via SUSHI
- Check data quality






Title usage stats analysis per year  

Table xyz  

Platform 	Load File COUNTER Release	Usage Date Year	TR_J3 - Total Item Investigations	TR_J3 - Total Item Requests	TR_J3 - Unique Item Investigations	TR_J3 - Unique Item Requests	JR1 - Journal Usage Counter (total)	JR1 - Journal Usage Counter (html)	JR1 - Journal Usage Counter (pdf)
ACS	R5	2019	32,635	21,624	21,021	17,301	0	0	0
ACS Publications	R4	2019	0	0	0	0	21,823	0	0
Accessible Archives	R4	2019	0	0	0	0	70	0	0
IEEE Xplore	R4	2019	0	0	0	0	18,191	0	0
	R5	2019	26,490	18,072	24,882	16,927	0	0	0

Standard Views

Offer prefiltered usage data

Identity
SOUTHERN ILLINOIS UNIV CARBONDALE ▼

Format
TSV ▼

Last Year (2020) ▼

Title Master Report (TR)

Book Requests (Excluding OA_Gold) (TR_B1)

Book Access Denied (TR_B2)

Book Usage by Access Type (TR_B3)

Journal Requests (Excluding OA_Gold) (TR_J1)

Journal Access Denied (TR_J2)

Journal Usage by Access Type (TR_J3)

Journal Requests by YOP (Excluding OA_Gold)
(TR_J4)

Platform Master Report (PR)

TR_J1

- only controlled access usage
- Two metrics per journal: Total_Item_Requests and Unique_Item_Request
- Journals with zero usage are NOT included
- No *Total for all journals* row
- Allows calculating cost per use based on Controlled Access

Report_Name	Journal Requests (Excluding OA_Gold)												
Report_ID	TR_J1												
Release													
Institution_Name	SOUTHERN ILLINOIS UNIV CARBONDALE												
Institution_ID	achs:2256790												
Metric_Types	Total_Item_Requests; Unique_Item_Requests												
Report_Filters	Data_Type=Journal; Access_Type=Controlled; Access_Method=Regular												
Report_Attributes													
Exceptions													
Reporting_Period	Begin_Date=2018-11-01; End_Date=2021-03-31												
Created	2021-04-19T14:11:09Z												
Created_By	Atypon Systems LLC.												
Title	Publisher	Publisher	Platform	DOI	Proprietary	Print_ISSN	Online_ISSN	URI	Metric_Type	Reporting	Nov-18	Dec-18	Jan-19
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/acs	achs:aaembp		2637-6113		Total_Item_Requests	159	0	1	5
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/acs	achs:aaembp		2637-6113		Unique_Item_Requests	115	0	1	5
ACS Applied Energy Materials	American	achs:acs	ACS	10.1021/acs	achs:aaemcq		2574-0962		Total_Item_Requests	191	1	3	2
ACS Applied Energy Materials	American	achs:acs	ACS	10.1021/acs	achs:aaemcq		2574-0962		Unique_Item_Requests	136	1	3	2
ACS Applied Materials & Interfaces	American	achs:acs	ACS	10.1021/acs	achs:aami	1944-8244	1944-8252		Total_Item_Requests	2334	73	33	53
ACS Applied Materials & Interfaces	American	achs:acs	ACS	10.1021/acs	achs:aami	1944-8244	1944-8252		Unique_Item_Requests	1694	53	23	43
ACS Applied Nano Materials	American	achs:acs	ACS	10.1021/acs	achs:aanmf6		2574-0970		Total_Item_Requests	219	1	0	1
ACS Applied Nano Materials	American	achs:acs	ACS	10.1021/acs	achs:aanmf6		2574-0970		Unique_Item_Requests	147	1	0	1
ACS Applied Polymer Materials	American	achs:acs	ACS	10.1021/acs	achs:aapmcd		2637-6105		Total_Item_Requests	59	0	0	1
ACS Applied Polymer Materials	American	achs:acs	ACS	10.1021/acs	achs:aapmcd		2637-6105		Unique_Item_Requests	43	0	0	1

TR_J3

- Includes controlled AND OA_Gold access
- Usage generated within institution's IP range or by off campus users authenticated by institution
- 4 metric types associated with each access type
- Easily identify amount of Controlled access vs. OA_Gold access content

Report_Name	Journal Usage by Access Type												
Report_ID	TR_J3												
Release	5												
Institution_Name	SOUTHERN ILLINOIS UNIV CARBONDALE												
Institution_ID	achs:2256790												
Metric_Types	Total_Item_Investigations; Total_Item_Requests; Unique_Item_Investigations; Unique_Item_Requests												
Report_Filters	Data_Type=Journal; Access_Method=Regular												
Report_Attributes													
Exceptions													
Reporting_Period	Begin_Date=2018-11-01; End_Date=2020-12-31												
Created	2021-01-27T20:34:01Z												
Created_By	Atypon Systems LLC.												
Title	Publisher	Publisher	Platform	DOI	Proprietary	Print_ISSN	Online_ISSN	URI	Access_Type	Metric_Type	Reporting	Nov-18	Dec-18
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/aa	achs:aaembp		2637-6113		Controlled	Total_Item_Investigations	188	0	1
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/aa	achs:aaembp		2637-6113		Controlled	Total_Item_Requests	146	0	1
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/aa	achs:aaembp		2637-6113		Controlled	Unique_Item_Investigations	119	0	1
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/aa	achs:aaembp		2637-6113		Controlled	Unique_Item_Requests	106	0	1
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/aa	achs:aaembp		2637-6113		OA_Gold	Total_Item_Investigations	2	0	0
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/aa	achs:aaembp		2637-6113		OA_Gold	Total_Item_Requests	2	0	0
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/aa	achs:aaembp		2637-6113		OA_Gold	Unique_Item_Investigations	1	0	0
ACS Applied Electronic Materials	American	achs:acs	ACS	10.1021/aa	achs:aaembp		2637-6113		OA_Gold	Unique_Item_Requests	1	0	0
ACS Applied Energy Materials	American	achs:acs	ACS	10.1021/aa	achs:aaemcq		2574-0962		Controlled	Total_Item_Investigations	224	1	3
ACS Applied Energy Materials	American	achs:acs	ACS	10.1021/aa	achs:aaemcq		2574-0962		Controlled	Total_Item_Requests	174	1	3

Long term data analysis

- The new metrics mean that COUNTER reports are comparable across platforms, but libraries need to compare usage across time.
- Release 5 *Total_Item_Requests* measure the same thing as the Release 4 *Reporting Period Total*, so librarians can use these metrics when undertaking long term analysis.



But a word of
warning about which
reports to use when
comparing
Total_Item_Requests
with Reporting Period
Total



Comparing R4 JR1 Reporting Period Total to R5 TR_J3 Total_Item_Requests

- R4 JR1 measured all use, including Open Access
- R5 TR_J3 also includes all access
- R5 TR_J1 Only includes Controlled Access – DO NOTE USE for R4 to R5 comparison!
- Expect to find a difference of less than 3%

COUNTER Audited Entity	COUNTER Supported platform	Reporting period	TR_J3 Total item requests/JR1 Total
Athens Technology Centre form	American Physical Society	2019	100%
Athens Technology Centre form	American Physical Society	2020	100%
Atypon	ACS Publications	2019	99%
Atypon	ACS Publications	2020	99%
Atypon	AIP Publishing American Institute of Phy	2019	99%
Atypon	AIP Publishing American Institute of Phy	2020	99%
Atypon	American Physiological Society	2019	99%
Atypon	American Physiological Society	2020	99%
Atypon	American Roentgen Ray Society	2019	100%
Atypon	American Roentgen Ray Society	2020	100%
Atypon	Association for Computing Machinery (A	2020	99%
Atypon	Taylor & Francis	2019	99%
Atypon	Taylor & Francis	2020	99%
Atypon	The University of Chicago Press	2019	100%
Atypon	The University of Chicago Press	2020	100%
Atypon	Wiley	2019 Jan-March	102%
EBSCO Information Services	EBSCO	2019 Jan-Aug	95%
Elsevier ScienceDirect	Elsevier	2019	100%
Elsevier ScienceDirect	Elsevier	2020	100%
John Hopkins University/Project	Project Muse	2019	100%
JSTOR	JSTOR	2019 Jan-April	104%
MPS Technologies	IEEE Xplore	2019	99%
MPS Technologies	IEEE Xplore	2020	99%
MPS Technologies	IOP Publishing	2019	101%
SAGE Publications – SecureCent	Sage	2019	100%
SAGE Publications – SecureCent	Sage	2020	99%
Scholarly iQ	Accessible Archives	2020	111%
Scholarly iQ	BioOne	2019	98%
Scholarly iQ	Oxford University Press	2019	98%
Scholarly iQ	Oxford University Press	2020	99%
Silverchair	American Society of Mechanical Enginee	2020	77%
Silverchair	Duke University Press	2020	84%
Siverchair	American Medical Association	2020	77%
Springer Nature	Nature	2019	94%
Springer Nature	Nature	2020	100%
Springer Nature	SpringerLink	2019	100%
Springer Nature	SpringerLink	2020	100%

Example 1 – minor difference

2019 TR_J3													
Row Labels	Sum of Jan-19	Sum of Fe	Sum of Ma	Sum of Ap	Sum of Ma	Sum of Jun	Sum of Jul	Sum of Au	Sum of Se	Sum of Oc	Sum of No	Sum of De	Total 2019
Total_Item_Requests	1174	1304	1314	1998	978	1047	1280	1772	2280	2124	1647	1154	18072
Controlled	1078	1181	1177	1813	898	936	1142	1544	2090	1915	1508	1047	16329
OA_Gold	96	123	137	185	80	111	138	228	190	209	139	107	1743
Unique_Item_Requests	1142	1255	1264	1924	933	1016	1221	1671	2067	1894	1493	1047	16927
Controlled	1049	1138	1134	1748	862	909	1093	1457	1891	1707	1371	949	15308
OA_Gold	93	117	130	176	71	107	128	214	176	187	122	98	1619
2019 JR1 total and top 5													
Journal	Publisher	Platform	Journal DOI	Proprietar	Print ISSN	Online ISS	Reporting	Reporting	Reporting	Jan-19	Feb-19	Mar-19	Apr-19
Total for all Journals		IEEE Xplore					18191	8941	9250	1182	1306	1360	2010
Wireless Communicatio	IEEE	IEEE Xplor	10.1109/T	7693	1536-1276		1581	849	732	126	110	105	207
Access, IEEE (2013 -)	IEEE	IEEE Xplor	10.1109/A	6287639			1165	620	545	52	71	104	133
Communications, IEEE T	IEEE	IEEE Xplor	10.1109/T	26	0090-6778		822	419	403	43	73	85	94
Communications Letters	IEEE	IEEE Xplor	10.1109/C	4234	1089-7798		778	449	329	56	81	70	99
Selected Areas in Comm	IEEE	IEEE Xplor	10.1109/JS	49	0733-8716		721	399	322	65	59	78	167

Example 2 – significant difference (note: we contacted Silverchair and a solution will be implemented shortly)

2020 TR_J3																
Row Labels	Sum of Jan	Sum of Feb	Sum of Mar	Sum of Apr	Sum of May	Sum of Jun	Sum of Jul	Sum of Aug	Sum of Sep	Sum of Oct	Sum of Nov	Sum of Dec	Sum of Reporting Period			
Total_Item_Requests	660	859	611	289	532	545	526	599	635	640	503	443	6842			
Controlled	558	793	567	261	502	493	465	561	585	581	473	389	6228			
OA_Gold	102	66	44	28	30	52	61	38	50	59	30	54	614			
Unique_Item_Requests	535	649	493	247	431	444	443	504	522	559	438	395	5660			
Controlled	452	597	458	219	402	403	394	476	483	508	413	346	5151			
OA_Gold	83	52	35	28	29	41	49	28	39	51	25	49	509			
Journal Report 1 (R4) Number of Successful Full-Text Article Requests by Month and Journal																
Southern Illinois University - Carbondale																
Period covered by Report:																
2020-01-01 to 2020-12-31																
Date run:																
1/22/2021																
Journal	Publisher	Platform	Journal DC	Proprietary	Print	ISSN	Online	ISS	Reporting	Reporting	Reporting	Jan-20	Feb-20	Mar-20	Apr-20	May-20
Total for all journals		Silverchair							8872	6463	2409	771	1004	906	990	727
Total for all journals		JAMA Network Reader							0	0	0	0	0	0	0	0
AMA Code of Medical Ethics	American	Silverchair							0	0	0	0	0	0	0	0
AMA Code of Medical Ethics	American	JAMA Network Reader							0	0	0	0	0	0	0	0
AMA Journal of Ethics	American	Silverchair							527	527	0	55	121	58	138	69
AMA Journal of Ethics	American	JAMA Network Reader							0	0	0	0	0	0	0	0
AMA Medical Student Learning	American	Silverchair							0	0	0	0	0	0	0	0
AMA Medical Student Learning	American	JAMA Network Reader							0	0	0	0	0	0	0	0
AMA STEPS Forward	American	Silverchair							42	40	2	0	13	10	0	3

Ratio of Controlled vs. OA_Gold access

What percentage of content
is Controlled Access and
only available via your
library's subscription

COUNTER Supported platform	COUNTER Audited Entity	Reporting period	R5 TR_J3 Controlled Unique item requests/ TR_J3 total unique item requests
American Roentgen Ray Society	Atyon	2019	100%
American Roentgen Ray Society	Atyon	2020	100%
EBSCO	EBSCO Information Services	2019 Jan-Aug	100%
JSTOR	JSTOR	2019 Jan-April	100%
Accessible Archives	Scholarly iQ	2020	100%
American Society of Mechanical Engineers	Silverchair	2020	100%
American Physiological Society	Atyon	2019	100%
Project Muse	John Hopkins University/Project	2019	100%
Duke University Press	Silverchair	2020	99%
American Physical Society	Athens Technology Centre form	2019	99%
American Physiological Society	Atyon	2020	98%
American Physical Society	Athens Technology Centre form	2020	98%
The University of Chicago Press	Atyon	2020	96%
Association for Computing Machinery (ACM)	Atyon	2020	95%
The University of Chicago Press	Atyon	2019	94%
Sage	SAGE Publications – SecureCent	2020	94%
Sage	SAGE Publications – SecureCent	2019	94%
ACS Publications	Atyon	2020	93%
ACS Publications	Atyon	2019	92%
Wiley	Atyon	2019 Jan-March	91%
American Medical Association	Silverchair	2020	91%
IEEE Xplore	MPS Technologies	2019	90%
IEEE Xplore	MPS Technologies	2020	88%
SpringerLink	Springer Nature	2019	87%
Elsevier	Elsevier ScienceDirect	2020	87%
Taylor & Francis	Atyon	2020	86%
Oxford University Press	Scholarly iQ	2019	86%
AIP Publishing American Institute of Physics	Atyon	2020	85%
Elsevier	Elsevier ScienceDirect	2019	85%
Taylor & Francis	Atyon	2019	85%
BioOne	Scholarly iQ	2019	85%
AIP Publishing American Institute of Physics	Atyon	2019	85%
Oxford University Press	Scholarly iQ	2020	84%
SpringerLink	Springer Nature	2020	79%
Nature	Springer Nature	2019	61%
Nature	Springer Nature	2020	56%
IOP Publishing	MPS Technologies	2019	55%

Elimination of double-counting present in R4

- Calculating ratio of Unique/Total item requests in R5
- Affected by:
 - Backfile content access (this content may be offered in PDF only)
 - Interfaces offering mostly HTML or mostly PDF versions of articles
 - Linking (e.g. from Google Scholar and via DOI)

COUNTER Supported platform	COUNTER Audited Entity	Reporting period	R4 JR1 HTML/Total	R4 JR1 PDF/JR1 Total	TR_J3 Unique_item_requests / TR_J3 Total_item_requests
Association for Computing Machinery (A	Atypon	2020	4%	96%	96%
American Physical Society	Athens Technology Centre form	2019	1%	99%	94%
IEEE Xplore	MPS Technologies	2019	49%	51%	94%
American Physical Society	Athens Technology Centre form	2020	1%	99%	92%
Duke University Press	Silverchair	2020	32%	68%	91%
Accessible Archives	Scholarly iQ	2020	100%	0%	90%
American Roentgen Ray Society	Atypon	2019	48%	52%	88%
Sage	SAGE Publications – SecureCent	2019	29%	71%	86%
Sage	SAGE Publications – SecureCent	2020	33%	67%	86%
The University of Chicago Press	Atypon	2019	37%	63%	86%
Nature	Springer Nature	2019	73%	27%	85%
American Medical Association	Silverchair	2020	73%	27%	83%
American Society of Mechanical Enginee	Silverchair	2020	65%	35%	82%
Nature	Springer Nature	2020	73%	27%	80%
American Physiological Society	Atypon	2020	66%	34%	80%
ACS Publications	Atypon	2019	45%	55%	80%
Oxford University Press	Scholarly iQ	2019	69%	31%	80%
Project Muse	John Hopkins University/Project	2019	62%	38%	79%
EBSCO	EBSCO Information Services	2019 Jan-Aug	32%	68%	79%
Taylor & Francis	Atypon	2019	50%	50%	79%
The University of Chicago Press	Atypon	2020	46%	54%	79%
American Roentgen Ray Society	Atypon	2020	58%	42%	78%
Taylor & Francis	Atypon	2020	53%	46%	78%
IOP Publishing	MPS Technologies	2019	45%	55%	78%
SpringerLink	Springer Nature	2019	58%	42%	77%
AIP Publishing American Institute of Phy	Atypon	2019	51%	49%	76%
American Physiological Society	Atypon	2019	64%	36%	76%
JSTOR	JSTOR	2019 Jan-April	58%	42%	76%
ACS Publications	Atypon	2020	49%	51%	75%
BioOne	Scholarly iQ	2019	52%	48%	74%
Wiley	Atypon	2019 Jan-March	51%	49%	74%
Oxford University Press	Scholarly iQ	2020	67%	33%	73%
Elsevier	Elsevier ScienceDirect	2020	62%	38%	72%
AIP Publishing American Institute of Phy	Atypon	2020	55%	45%	72%
IEEE Xplore	MPS Technologies	2020	47%	53%	70%
Elsevier	Elsevier ScienceDirect	2019	60%	40%	69%
SpringerLink	Springer Nature	2020	55%	45%	69%

Google Scholar linking effect

"Only title links in Google Scholar were found to have a significant correlation to HTML-to-PDF ratios, suggesting that platforms for which Google Scholar links directly to full-text could have elevated usage counts."

- Kohn, K. (2018) Effects of Publisher Interface and Google Scholar on HTML and PDF Clicks: Investigating Paths That Inflate Usage. *The Journal of Academic Librarianship* 44 (6), 816-823. <https://doi.org/10.1016/j.acalib.2018.09.014>

Google Scholar Wireless Communications, IEEE Transactions on (2002 -)

Articles About 819,000 results (0.04 sec)

Any time
Since 2021
Since 2020
Since 2017
Custom range...

Sort by relevance
Sort by date

include patents
 include citations

Create alert

[HTML] [A review of wavelets for digital wireless communication](#) [HTML] [springer.com Full View](#)
MK Lakshmanan, H Nikookar - *Wireless personal communications*, 2006 - Springer
... Cox, "Speed Estimation in Wireless Systems Using Wavelets", *IEEE Transactions on Communications* ... from 1.8 GHz indoor wideband measurements", *Wireless Personal Communications*, Vol ... SD Mantis, "Localization of Wireless Communication Emitters Using Time ..."
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Methods for optimizing the location of base stations for indoor wireless communications [PDF] [ieee.org](#)
Z Ji, TK Sarkar, BH Li - *IEEE Transactions on Antennas and ...*, 2002 - [ieeexplore.ieee.org](#)
When designing wireless communication systems, it is very important to know the optimum locations for the base station antennas. In this paper, a model has been developed to set up an optimization problem, the solution of which provides the information for the optimum ...
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MIMO-OFDM for wireless communications: signal detection with enhanced channel estimation [PDF] [ieee.org](#)
YG Li, JH Winters ... - *IEEE Transactions on ...*, 2002 - [ieeexplore.ieee.org](#)
Multiple transmit and receive antennas can be used to form multiple-input multiple-output (MIMO) channels to increase the capacity by a factor of the minimum number of transmit and receive antennas. In this paper, orthogonal frequency division multiplexing (OFDM) for ...
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Turbo-BLAST for wireless communications: Theory and experiments [PDF] [ieee.org](#)
M Sellathurai, S Haykin - *IEEE Transactions on Signal ...*, 2002 - [ieeexplore.ieee.org](#)
Turbo-BLAST is a novel multitransmit multireceive (MTMR) antenna scheme for high-throughput wireless communications. It exploits the following ideas: the Bell Labs layered

Google Scholar American Journal of Orthodontics and Dentofacial Orthopedics

Articles About 30,200 results (0.03 sec)

Any time
Since 2021
Since 2020
Since 2017
Custom range...

Sort by relevance
Sort by date

include patents
 include citations

Create alert

... between study design and citation counts of articles published in the American Journal of Orthodontics and Dentofacial Orthopedics and Anglo Orthodontist [HTML] [sciedirect.com](#)
V Allareddy, MK Lee, A Shah ... - *ORTHODONTICS* ... 2012 - [search.ebscohost.com](#)
Objective: The scientific community views meta-analyses and systematic reviews, in addition to well-designed randomized controlled clinical trials, as the highest echelon in the continuum of hierarchy of evidence. The objective of this study was to examine the ...
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[HTML] Invisalign a to z [HTML] [sciedirect.com](#)
BH Wong - ... *journal of orthodontics and dentofacial orthopedics*, 2002 - Elsevier
Movement of teeth without the use of bands, brackets, or wires was described as early as 1945 by Dr HD Kesling. 1 who reported on the use of a flexible tooth positioning appliance. Later, Nahoum2 and others3-5 wrote about various types of overlay appliances such as ...
☆ 99 Cited by 193 Related articles All 8 versions Web of Science: 66 »

[HTML] Reporting quality of abstracts of randomized controlled trials published in leading orthodontic journals from 2006 to 2011 [HTML] [sciedirect.com](#)
PS Fleming, N Buckley, J Seehra ... - ... *Dentofacial Orthopedics*, 2012 - Elsevier
Introduction Optimal reporting of randomized trials and abstracts enhances transparency and facilitates assessment and identification of trials. The purpose of this study was to investigate the quality of reporting of abstracts of randomized controlled trials published in ...
☆ 99 Cited by 64 Related articles All 11 versions Web of Science: 46 »

[PDF] Orthodontics about face: the re-emergence of the esthetic paradigm [PDF] [sarverortho.com](#)
DM Sarvera, JL Ackermanb - *American Journal of Orthodontics and ...*, 2000 - [sarverortho.com](#)
576 Sarver and Ackerman *American Journal of Orthodontics and Dentofacial Orthopedics* May 2000 that an almost infinite variety of faces could be esthetic. That is as true now as it was then. It is a significant error to attempt to put everyone into the same esthetic framework ...
☆ 99 Cited by 198 Related articles All 6 versions Web of Science: 60 »

[HTML] Malocclusion as an etiologic factor in periodontal disease: a retrospective essay [HTML] [sciedirect.com](#)
AM Geiger - ... *journal of orthodontics and dentofacial orthopedics*, 2001 - Elsevier
American Journal of Orthodontics and Dentofacial Orthopedics Geiger 113 Volume 120, Number 2 ual. All data were recorded for the full dentition, segments, individual teeth, and surfaces of teeth. The intent of this study design was to seek etiologic relationships between ...
☆ 99 Cited by 143 Related articles All 6 versions Web of Science: 26 »

A word about platform migrations...

- Platform migrations can occur any time of the year
- During platform migrations data clean up (e.g. merging duplicate accounts and eliminating IP overlap) may result in significant changes to institutional usage data

The screenshot shows the homepage of the Journal of Experimental Biology on the HighWire platform. At the top, the logo for 'The Company of Biologists' is on the left, and the tagline 'supporting biologists inspiring biology' is on the right. Below the logo is the journal title 'Journal of Experimental Biology' in a large, bold font. A search bar is located in the top right corner, with a 'Log In' button next to it. Below the search bar are social media icons for RSS, Twitter, Facebook, and YouTube. A navigation menu is positioned below the journal title, containing links for 'Home', 'Articles', 'About us', 'For authors', 'Journal info', and 'Contacts'. A notice about COVID-19 is displayed below the navigation menu, stating that editorial operations continue as usual and providing contact information. The main content area features a featured article on the left with a cover image of a snake and a description of the journal's focus. To the right, there are two columns of 'Most-read' articles, including 'Contextual behavioural plasticity in Italian agile frog (Rana latastei) tadpoles exposed to native and alien predator cues' and 'Drosophila acquires seconds-scale rhythmic behavior'.

2021/04/13 - <https://jeb.biologists.org/> on Highwire

The screenshot shows the homepage of the Journal of Experimental Biology on the Silverchair platform. The layout is more modern and organized. At the top, the logo for 'The Company of Biologists' is on the left, and the journal title 'Journal of Experimental Biology' is in the center. A search bar is on the right, with a dropdown menu for 'Journal of Experimental Biol...' and a search icon. Below the search bar are navigation links for 'Articles', 'About us', 'For authors', 'Journal info', and 'Contacts'. A 'CURRENT ISSUE' section is prominently displayed, featuring a cover image of a snake and the text 'Volume 224, Issue 7 April 2021'. Below this, there is a section for 'ISSUES IN PROGRESS' with a link to 'Volume 224, Issue 8, 15 April 2021'. A 'Submit a manuscript' button and a 'Sign up to alerts' button are located at the bottom left of the main content area. On the right side, there is a large text block describing the journal's focus and a 'SPECIAL ISSUE - Predicting the Future: Species Survival in a Changing World' section with social media icons. At the bottom, there is a 'COVID-19 response' section with contact information and a 'Most read' section featuring an article titled 'It's cold out, but whale sharks stay warm within' by Kathryn Knight.

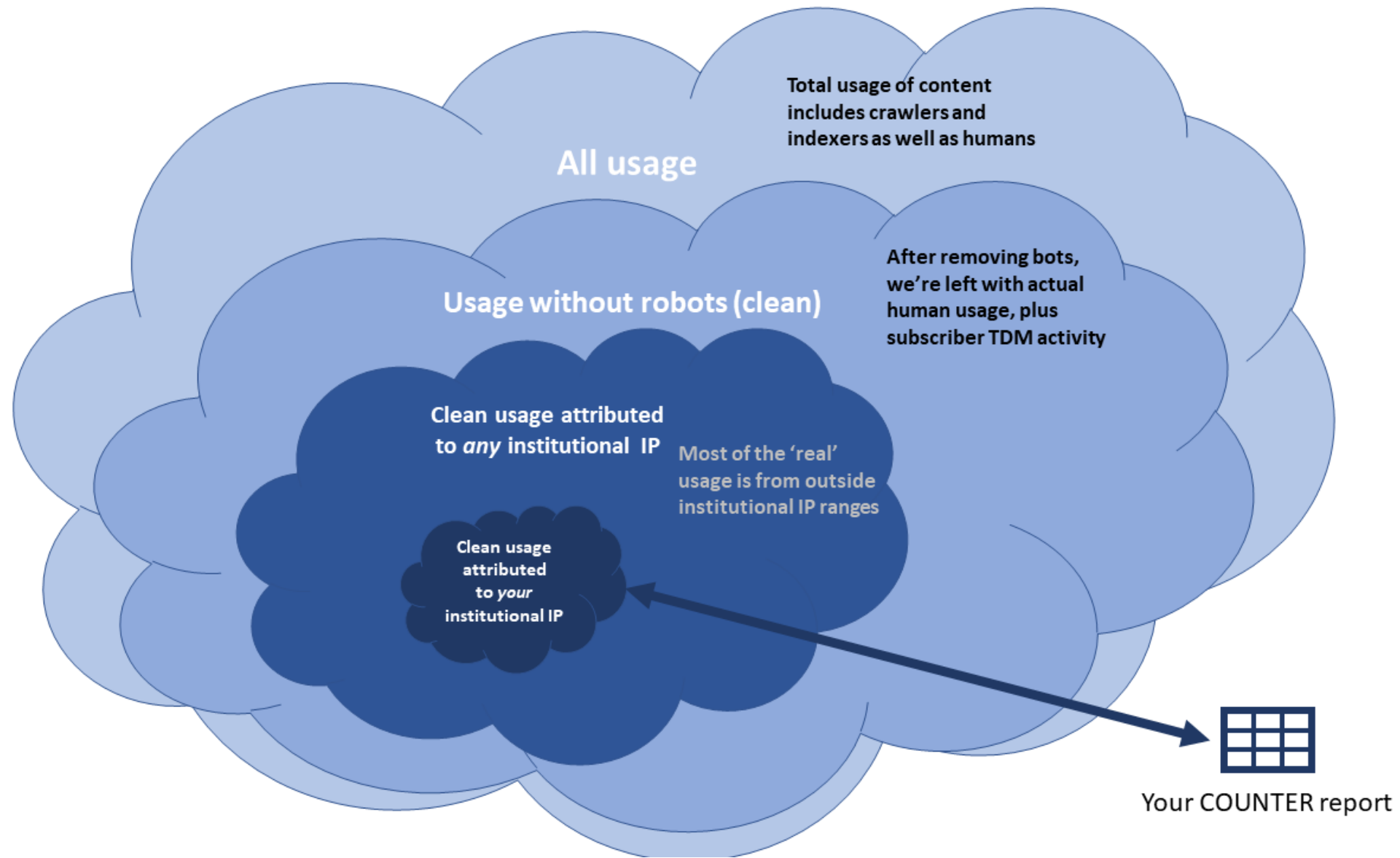
2021/04/26 <https://journals.biologists.com/jeb> on Silverchair

The Covid effect

Two things have happened as result of the pandemic, which cause lower than usual usage in your COUNTER reports:

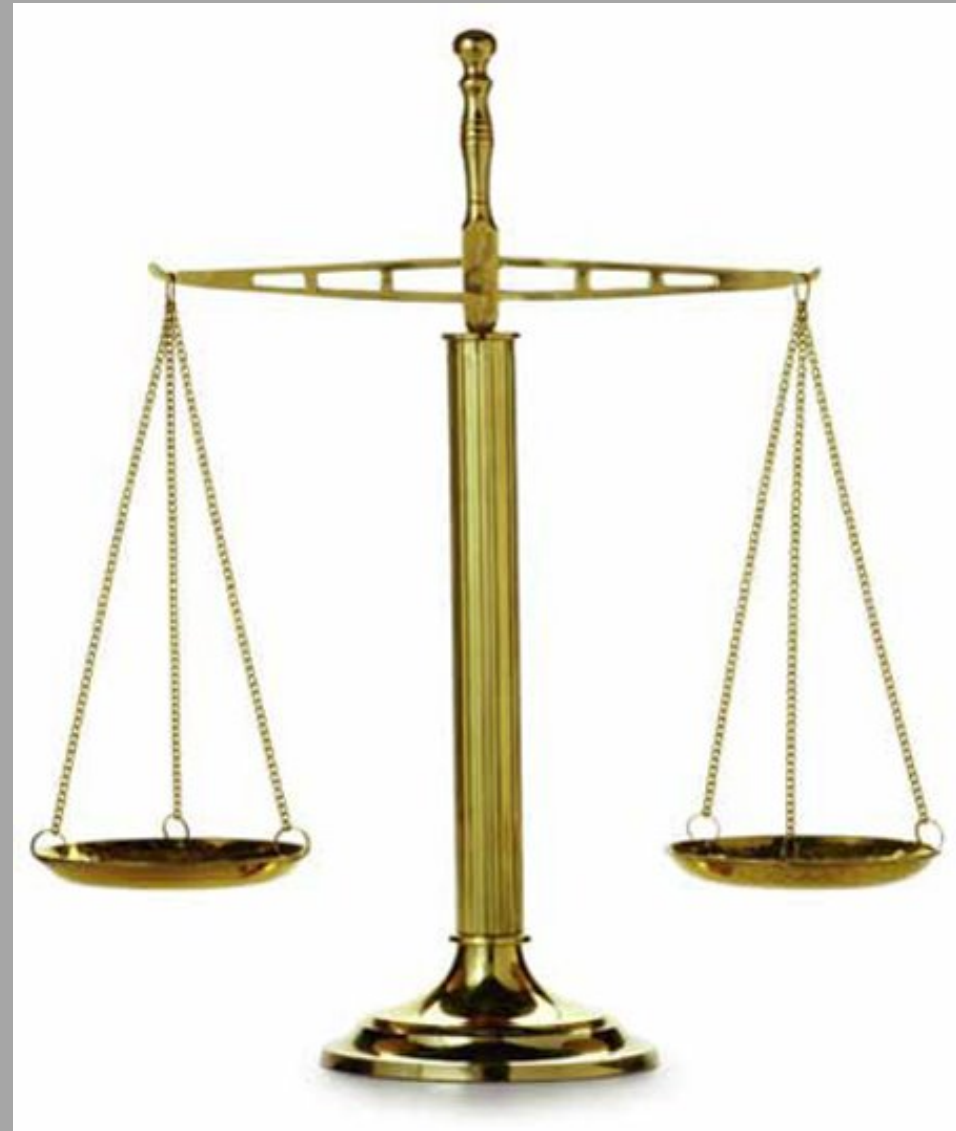
1. User behaviour – users are working from home.
 2. Some publishers have opened all or some content at least for the duration of the pandemic.
- When at home, users are not within your institution's IP addresses and so publishers do not know these users coming from your institution.
 - Unless another method is used for off-campus library access, these users *can* access open content, but cannot access subscription content.
 - Some users, may no not understanding how off-campus library access works, and simply give up, and only access open content.





Conclusions

- R5 Unique_Item_Requests provide a more useful metric than R4 Total, PDF, or HTML counts by eliminating the double counting that resulted from downloads of different versions of the same article within the same user session.
- The same user may still download the same article multiple times over different sessions
- Privacy issues prevent deep logging of individual user activity.



Conclusions

- Backfile access can impact the ratio of unique/total requests when older content is published in PDF only.
- Platform design, Google/Crossref linking performance, alert services, and user behavior continue to influence accuracy of statistics.
- Controlled access attribute allows calculating more accurate subscription cost/use



Recommended resources

COUNTER Foundation classes <https://www.projectcounter.org/counter-foundation-classes/>

Class 10: Working with COUNTER R5 Reports in Microsoft Excel
https://www.youtube.com/watch?v=AU_DBLi4hSo

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