Altmetrics: An overview of Romanian research impact around the world

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What we'll cover

What are altmetrics? What is tracked/How We track it

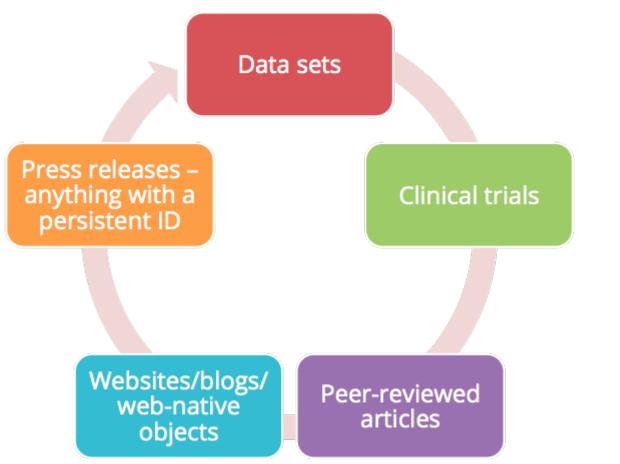
Attention to Romanian Research:

- Overview and totals
- Top coverage, recent coverage

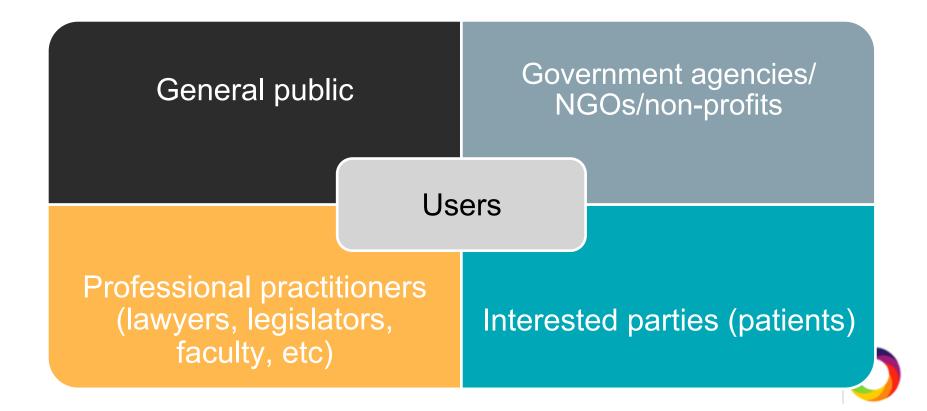


Altmetrics are non-traditional indicators proposed as an alternative to more traditional citation impact metrics, such as impact factor and h-index.

Altmetric automatically tracks many kinds of research...



By audiences *beyond* researchers



News outlets & Blogs

- Over 2,000 news sites
- Global coverage
 Data Mining

Post-publication peer review

Publons Pubpeer F1000

Reference managers

- Mendeley, Citeulike etc
- Reader counts

Other sources

Scopus Citations Open Syllabus Project Wikipedia YouTube Reddit

Policy Documents

- NICE Evidence
- Intergovernmental Panel on Climate Change
- Many more...Data Mining

Social media

Twitter, Facebook, Google+, Public posts only 9,000+ Blogs

...That *complement* existing journal-based metrics...

H-index

Citations

Impact Factor

of articles published

Time to publication

Rejection rates

Acceptance rates



Lag time: Months or years to accrue

Niche audience: Researchers who publish



Funders are noticing - "Broader Dissemination...Broader Impact"

Grant funders looking for proof of "**broader impacts**" often defined as "an effect, change, or benefit to the economy, **society, culture, public policies, health, th environment**, etc."



Research Excellence Framework, http://www.ref.ac.uk/panels/assessmentcriteriaandleveldefinitions/



Broaden dissemination to enhance scientific and technological understanding, for example, by presenting results of research and education projects in formats useful to students, scientists and engineers, members of Congress, teachers, and **the general public**.

http://www.nsf.gov/pubs/2007/nsf07046/nsf07046.jsp

Funders are noticing - "Broader Dissemination...Broader Impact"

"The primary aim of SEP assessments is to reveal and confirm the quality and *the relevance of the research to society* and to improve these where necessary."

Royal Netherlands Academy of Arts and Sciences https://www.knaw.nl/nl/actueel/publicaties/standard-evaluationprotocol-2015-2021



KNAW



H2020's 'Impact' Criterion

[E]nhancing innovation capacity and integration of new knowledge, to strengthening the competitiveness and growth of companies by developing and delivering innovations meeting market needs, and to other environmental or social impacts[...]

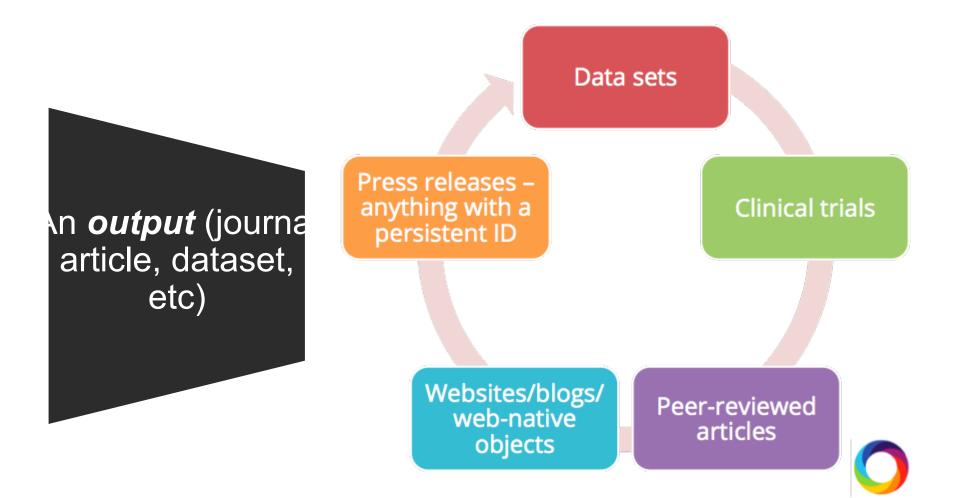
How do we gather data?

How do we populate our database? 3 things needed

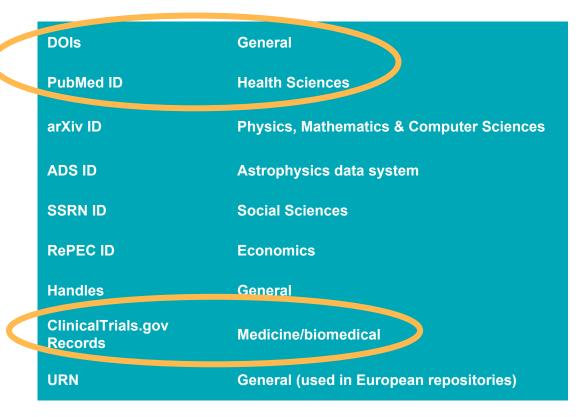
An *output* (journal article, dataset, etc) An *identifier* attached to the output (DOI, PMID, etc)

Mentions in a source we track





An *identifier* attached to the output (DOI, PMID, etc)





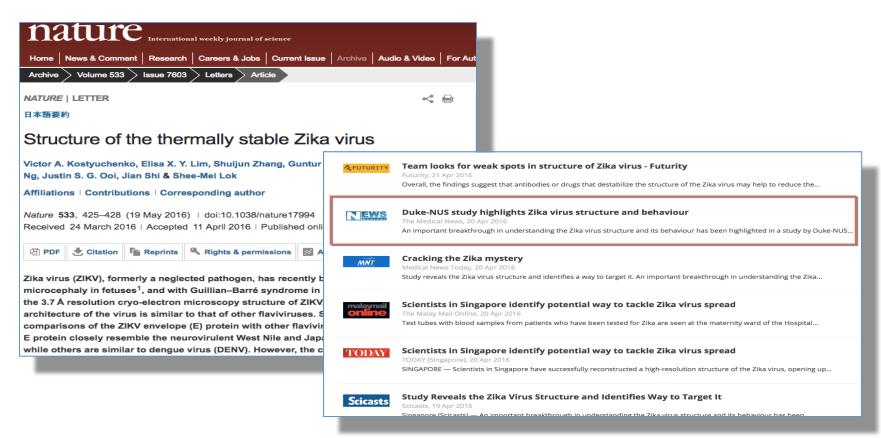


Data Mining: Mainstream News in Full



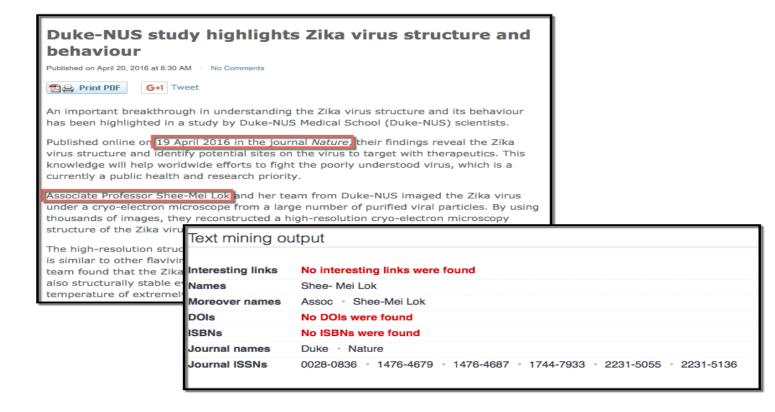
Data Mining:

Discovering coverage that doesn't directly cite research



Data Mining:

Discovering coverage that doesn't directly cite research



Policy Document Data Mining 44 Sources, 50,000 documents

British Thoracic Society Guidelines

AWMF - Association of Scientific Medical Societies

European Food Safety Authority (EFSA)

Food and Agriculture Organization

GOV.UK - Policy papers, Research & Analysis

International Committee of the Red Cross (ICRC)

CARE International - CARE Insights

Centers for Disease Control and Prevention (CDC)

Mental Health Foundation

Medicins Sans Frontieres – UK, American, International

National Institute for Health and Care Excellence

NICE Evidence Services

The Food and Drug Administration (FDA)

The Microbiology Society

UK Parliament Briefing Notes

World Bank

International Monetary Fund

Example: Research buried in PDF without identifer used

		NCL	21			
Online First	Current Issue	All Issues	Special Issues	Multimedia ~	Information for	Authors
		All Conte	ent	Search	Advanced Sear	ch
< Previous	Article V	olume 380	, No. 9859 , p209	5–2128, 15 Decem	ber 2012	Next Article >
Articles						

Global and regional mortality from 235 causes of death for 20

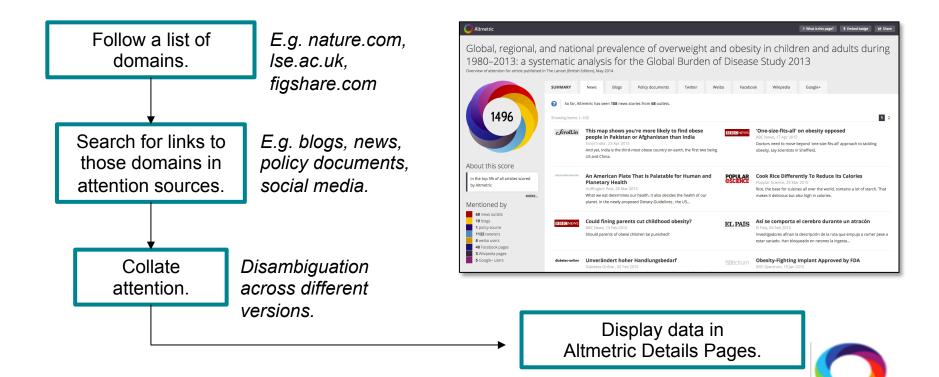
age groups in 1990 and 201 Global Burden of Disease S

Prof Rafael Lozano, MD, Mohsen Naghavi, PhD, Kyl Victor Aboyans, MD', Jerry Abraham, MPH', Timoth Mohammad A AlMazroa, MD', Miriam Alvarado, BA Andrews, MPH', Charles Atkinson, BS', Prof Larry M Michelle L Bell, PhD', Prof Emelia J Benjamin, MD', Abdulhak, MD', Prof Gretchen Birbeck, MD', Fiona B BPsych', Michael Burch, MD', Prof Peter Burney, M

REFERENCES

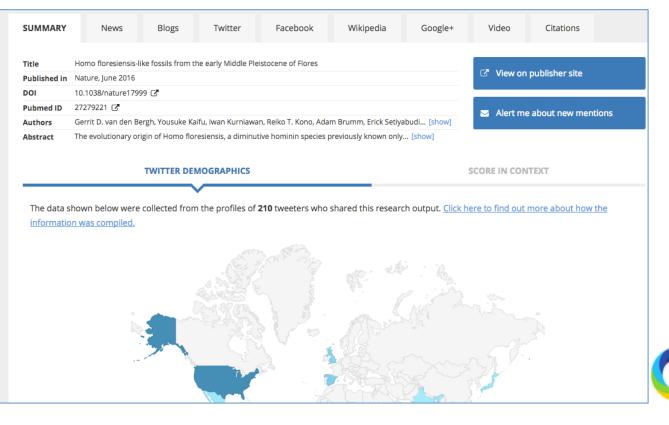
- Lozano R, Naghavi M, Foreman K, Lim S, Shibuya K, Aboyans V, et al. Global and regional mortality from 235 causes of death for 20 age groups in 1990 and 2010: a systematic analysis for the global burden of disease study 2010. Lancet. 2012;380 (9859):2095–128.
- WHO Executive Board (134th session). Hepatitis: improving the health of patients with viral hepatitis. Report by the Secretariat. Geneva: WHO; 2014 [EB134/36] (http://apps.who.int/gb/ebwha/pdf_files/ EB134/B134_36-en.pdf, accessed 10 June 2015).
- Resolution WHA63.18. Viral hepatitis. In: Sixty-third World Health Assembly, Geneva, 17 –21 May 2010. Geneva: WHO; 2010 (http://apps.who.int/gb/ebwha/pdf_files/WHA63/A63_R18-en.pdf, accessed 10 July 2015)..

A Homepage for every item



Research Output-Level Presentation





About this score

In the top 5% of all research outputs scored by Altmetric

MORE...

Mentioned by



210 tweeters

9 Facebook pages

3 Wikipedia pages

1 Google+ user

2 video uploaders

Brief interlude: What is the score? What does it indicate?

Volume	Sources	Authors
The score for an article rises as more people mention it.	Each source category contributes a different base amount to the final score.	Assess the author of each mention in terms of their reach, promiscuity and bias.
Mara info at	www.chroatria.com About altreatrice. The days	

More info at: www.altmetric.com - About altmetrics - The donut and score

It indicates amount of attention the output has received. You can glean attention sentiment by qualitative analysis.



Brief interlude: How do the colors/weightings work?



Tweeted by **293** Blogged by **4** On **200** Facebook pages Mentioned in **6** Google+ posts Picked up by **1** news outlets Mentioned in **1** LinkedIn forums Reddited by **2** On **1** videos

166 readers on Mendeley1 reader on Connotea3 readers on CiteULike

Mention type	Points
News	8
Blogs	5
Twitter	1
Facebook	0.25
Sina Weibo	1
Wikipedia	3
Policy Documents (per source)	3
Q&A	0.25
F1000/Publons/ Pubpeer	1
YouTube	0.25
Reddit/Pinterest	0.25
LinkedIn	0.5

More info at: www.altmetric.com - About altmetrics - The donut and score

It's all in the details...overview of Twitter/Mendeley demographics and score benchmarking

The data shown below were collected from the profiles of 24 tweeters who shared this research output. Click here to find out more about how the information was compiled.





About this score

In the top 5% of all research outputs scored by Altmetric

. .

MORE



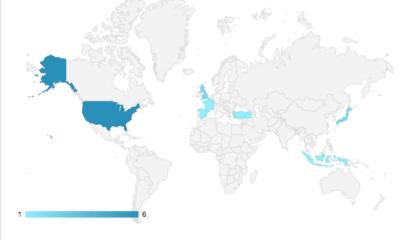


Readers on

10 Mendeley

Tools





Geographical breakdown

Country	Count	As %
United States	6	25%
Japan	2	8%
United Kingdom	2	8%
Spain	1	4%
France	1	4%
Indonesia	1	4%
Turkey	1	4%
Unknown	10	42%

Demographic breakdown

Туре	Count	As %
Members of the public	16	67%
Practitioners (doctors, other healthcare professionals)	4	17%
Scientists	4	17%

Institutional Account – Your Attention in one place

EXPLORE THE ALTMETRIC DA	TABASE		Lilliput University
Q Search for research outputs		● FULL	DATABASE OR O MY INSTITUTION ONLY
+ ADVANCED SEARCH (I FILTER ACTIVE)			
Showing all research outputs from the full Altmetric da	tabase with 5937 identifiers sorted by Altmetric Attention Score		=+ SAVE SEARCH 😵 RESET SEARCH
< 1 2 3 4 5 61 62 >		Sort by Altmetric Attention Score \$	OVERVIEW
Trends in adult body-mass index in 20 countries from 1975 to 2014; a pooled Article in The Lancet , April 2016		Planck intermediate results Article in Astronomy and Astrophysics, February 2016	Total mentions28,520Research outputs5,940
The genetic history of Ice Age Europe Article in Nature, May 2016	An early modern human from Romania with a recent Neanderthal ancestor. Article in Nature , June 2015	ESMO European Consortium Study on the availability, out-of-pocket costs and Article in Annals of Oncology , August 2016	Outputs with mentions 4,551 Sources of attention 15 Export results as CSV
Pleistocene Mitochondrial Genomes Suggest a Single Major Dispersal of Non Article in Current Biology , February 2016	A dinosaurian facial deformity and the first occurrence of ameloblastoma in Article in Scientific Reports , July 2016	School-based suicide prevention programmes: the SEYLE cluster- randomised, Article in The Lancet , January 2015	
Natural Products to Counteract the Epidemic of Cardiovascular and Metabolic Article in Molecules , June 2016	Global Mortality Estimates for the 2009 Influenza Pandemic from the GLaMOR Article in PLoS Medicine , November 2013	Observation of two new \$5_b^-\$ baryon resonances Article in Physical Review Letters , February 2015	2k 2012 2014 2016
Gibbon genome and the fast karyotyp evolution of small apes Article in Nature, September 2014	Observation of the resonant character of the \$Z(4430)^-\$ state Article in Physical Review Letters , June 2014	Precision measurement of the mass difference between light nuclei and anti Article in Nature Physics , August 2015	

What the World is Saying About Romanian Research

We searched for Romanian Data from 2012-2016



din IAŞI









We searched for All Romanian Data from 2012-2016

MENTION SUMMARY



15,351publications (Scopus)Almost 7,000 Posts about the research1,593 publications are mentioned14 Different sources of attention



We searched for All Romanian Data from 2012-2016

RESULTS ANALYSIS

Analyzing results for all research outputs from the full Altmetric database with 15348 identifiers sorted by Altmetric Attention Score.

MARY												
MARY	HIGHLIGHTS DEP	MOGRAPHICS	MENTIONS									
MENTION	I SUMMARY											
	NEWS	BLOGS	POLI	CY	TWITTER		PEER REVIEW		WEIBO	FACEBO	ок	WIKIPEDIA
.884	382	149	1		5,424		10		1	706		64
			_					_		_		
	COOCLE+ 101			reddit 27		F1000 7		Q&A		VIDEO 6		
	101	2		27		/		4		0		
OM 1 we	eek 1 month	3 months	6 mont	hs 1	year	All time						
												10
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Top Attention-Receiving Publication

42047140	Search	Go
nature International weekly journal of science	► <u>Adva</u>	anced search
Home News & Comment Research Careers & Jobs Current Issue Archive Audio & Video For Authors		
Archive > Volume 534 > Issue 7606 > Articles > Article > Article metrics		

Article metrics for:

< 🖶

The genetic history of Ice Age Europe

Qiaomei Fu, Cosimo Posth, Mateja Hajdinjak, Martin Petr, Swapan Mallick, Daniel Fernandes, Anja Furtwängler, Wolfgang Haak, Matthias Meyer, Alissa Mittnik, Birgit Nickel, Alexander Peltzer, Nadin Rohland, Viviane Slon, Sahra Talamo, Iosif Lazaridis, Mark Lipson, Iain Mathieson, Stephan Schiffels, Pontus Skoglund, Anatoly P. Derevianko, Nikolai Drozdov, Vyacheslav Slavinsky, Alexander Tsybankov, Renata Grifoni Cremonesi 🗉 *et al.*

Nature 534, 200-205 (09 June 2016) | doi:10.1038/nature17993

Last updated: 26 October 2016 20:32:49 EDT

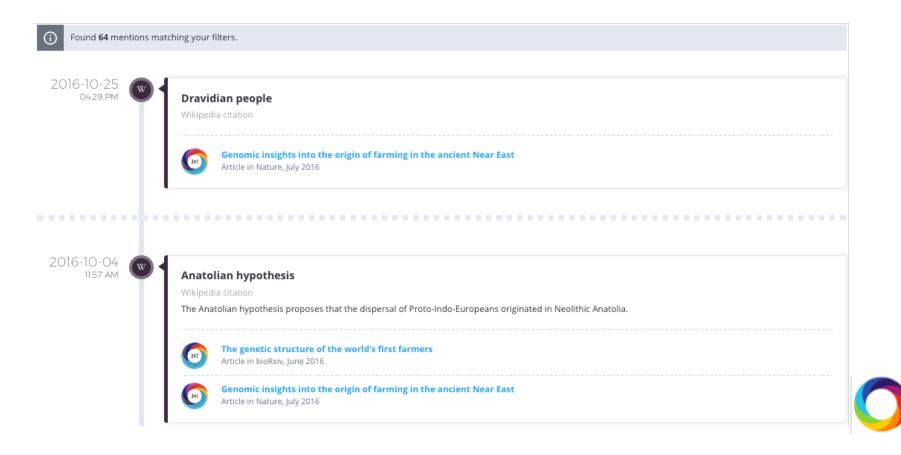


The Most recent attention – During this conference!

2016-10-25 06:19 PM	Tweet by James White (@JWhite211) RT @CEHPaperAlerts: #Ecosystemservices for water policy: Insights across Europe https://t.co/GyVyHiXcDP #openaccess Ecosystem services for water policy: Insights across Europe Article in Environmental Science & Policy, December 2016
04:29 PM	lian people la citation Genomic insights into the origin of farming in the ancient Near East Article in Nature, July 2016
03:03 PM	Tweet by CEH Paper Alerts (@CEHPaperAlerts) #Ecosystemservices for water policy: Insights across Europe https://t.co/GyVyHiXcDP #openaccess Ecosystem services for water policy: Insights across Europe Article in Environmental Science & Policy, December 2016
09:01 AM	Tweet by Joxe Bilbao (@Jspirulina) RT dr_fcmihai: Determining #rural areas vulnerable to #waste dumping using #GIS https://t.co/sCy1v7GWjZ salmanzafar1979 miketregent bio DETERMINING RURAL AREAS VULNERABLE TO ILLEGAL DUMPING USING GIS TECHNIQUES. CASE STUDY: NEAMT COUNTY , ROMANIA Article, June 2013

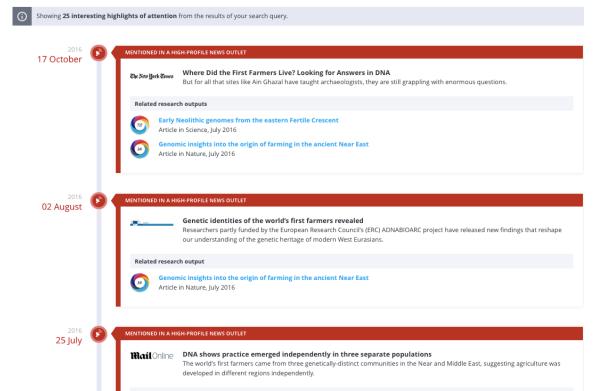


Yesterday (25th) someone added this to Wikipedia



Taking Credit: Positive Coverage!

HIGH-PROFILE ATTENTION HIGHLIGHTS

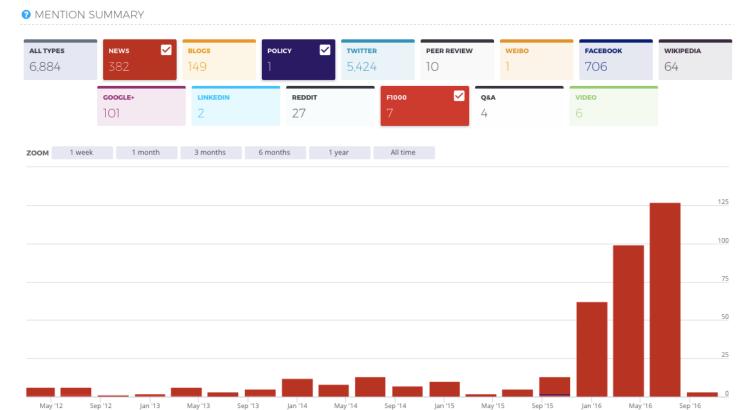


Related research output

Genomic insights into the origin of farming in the ancient Near East



Taking Credit: Big Increase in news, F1000 recommendations



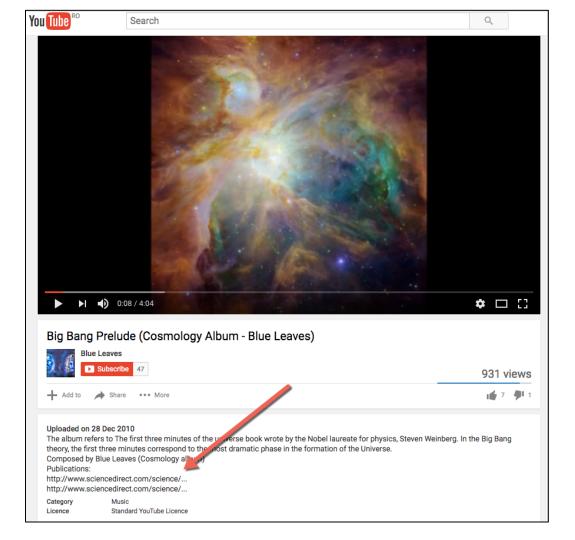
0

Unusual Impact and Attention

Two Physics papers from **Bucharest University** inspired a classical album about Cosmology called "The first Three Minutes" – in 2010!

2010-12-28 12:35 рм (©) <	Big Bang Prelude (Cosmology Album) Video The album refers to The first three minutes of the universe book wrote by the Nobel laureate for physics, Steven Weinberg. In the Big Bang theory, the first three minutes correspond to the most dramatic phase in the formation of the Universe. Composed
	 Visual tool for estimating the fractal dimension of images Article in Computer Physics Communications, October 2009 Code C# for chaos analysis of relativistic many-body systems Article in Computer Physics Communications, August 2010







Unusual Impact and Attention

You Tube ^{RO}	Search	Q
	Et respect, et pourquoi pas avec humour ?	utube.com/Pa
Le suicide - PS	/CHOPTIK #2	
Le PsyLab	e 67,811 10	63,920 views
🕂 Add to 🍌 Share	••• More	3,390 🟓 66

This French video is about suicide. It offers resources for help for vulnerable people.

It has almost 170,000 views

It is based on work conducted at The National School of Public Health and Health Services Management, Bucharest, Romania



Unusual Impact and Attention

Twelve Month Prevalence of and Risk Factors for Suicide Attempts in the WHO World Mental Health Surveys Guilherme Borges, ScD,¹ Matthew K. Nock, PhD,² Josep M. Haro Abad, MD, PhD,³ Irving Hwang, MA,⁴ Nancy A. Sampson, BA,⁴ Jordi Alonso, MD, MPH, PhD,⁵ Laura Helena Andrade, MD, PhD,⁶ Matthias C, Angermeyer, PhD,⁷ Annette Beautrais, PhD.⁸ Evelyn Bromet, PhD.⁹ Ronny Bruffaerts, PhD.¹⁰ Giovanni de Girolamo, MD.¹¹ Silvia Floresci MD.¹² Oye Gureje, MD, PhD, FRCPsych, ¹³ Chiyi Hu, MD, PhD, ¹⁴ Elie G Karam, MD, ¹⁵ Viviane Kovess-Masfety, MD, PhD,¹⁶ Sing Lee, MBBS, FRCPsych,¹⁷ Daphna Levinson, PhD,¹⁸ Maria Elena Medina-Mora, PhD,¹ Johan Ormel, PhD,¹⁹ Jose Posada-Villa, MD,²⁰ Rajesh Sagar, MD,²¹ Toma Tomov, PhD,²² Hidenori Uda, MD,²³ David R. Williams, PhD.²⁴ and Ronald C. Kessler, PhD⁴ ¹National Institute of Psychiatry, Mexico City, Mexico ²Department of Psychology, Harvard University, Cambridge, MA, United States ³Sant Joan de Deu-SSM. Barcelona, CIBERSAM, Instituto de Salud Carlos III, Spain ⁴Department of Health Care Policy, Harvard Medical School, Boston, MA, United States ⁵Health Services Research Unit, Institut Municipal d'Investigació Mèdica (IMIM-Hospital del Mar), CIBER en Epidemiología y Salud Pública (CIBERESP), Barcelona, Spain ⁶Section of Psychiatric Epidemiology - LIM 23 Institute of Psychiatry School of Medicine University of São Paulo São Paulo, Brazil ⁷Center for Public Mental Health, Gösing am Wagram, Austria ⁸Christchurch School of Medicine & Health Sciences, Otago, New Zealand ⁹SUNY Stony Brook, Stony Brook, NY ¹⁰University Hospital Gasthuisberg, Leuven, Belgium ¹¹Regional Health Care Agency, Emilia-Romagna Region, Bologna, Italy 12 Head of Health System Research Department, National School of Public Hea ¹³Department of Psychiatry, University College Hospital, Ibadan, Nigeria

This French video is about suicide. It offers resources for help for vulnerable people.

It has almost 170,000 views

It is based on work conducted at The National School of Public Health and Health Services Management, Bucharest, Romania



Action: Attention which needs a response

OPeer	Blog ments (1			Journals	Topics	Login	Display By:	;
	inches (1)-						
Ō	Statched	k : (Septer	m <mark>ber 12th,</mark> 20	16 12:04am l	JTC)			
, e	for statis	tical results	s (t, r, F, Chi2,		reported in		icle was scanned on 2 nat (for specifics, see	
	The scan detected 12 statistical results in APA format, of which 2 contained potentially incorrect statistical results, of which 0 may change statistical significance (alpha = .05). Potential one-tailed results were taken into account when 'one-sided', 'one-tailed', or 'directional' occurred in the text.							
	as:	-		· ·		the statis	tical significance) wer	e reported
	t(357) = 0.85, p = .30 (recalculated p-value: 0.39589) F(4, 101) = 8.48, p = .001 (recalculated p-value: 1e-05)							
			not definitive erroneous.	results and r	equire mar	nual inspe	ction to definitively as	sess
	prevalen	M. B., Hartg ce of statis		g errors in psy			5., & Wicherts, J. M. (2 Behavior Research N	
							Reply	Report
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Enter	new commen	t helow (Please	e read the How To	\ \				
	ieer connitien	is watow (ri683)	read the now to	7				
							Post New	Comment

STATCHECK – automatic statistical analysis posted to PubPeer – 2 potentialerrors spotted in one paper.

No response by author/institution yet.



Things to Consider

Only 10% of the publications from these 6 Unis is *ever* mentioned. The average in Europe is over 30% (60-70% for medical)

You need to claim positive coverage for your authors

You need to manage negative coverage with your authors

You need to demonstrate social impacts to H2020 and other European funders

...Altmetric offers you a way to do all of this.



Thanks! Q&A

Ben McLeish Ben@altmetric.com +44 750 6543635