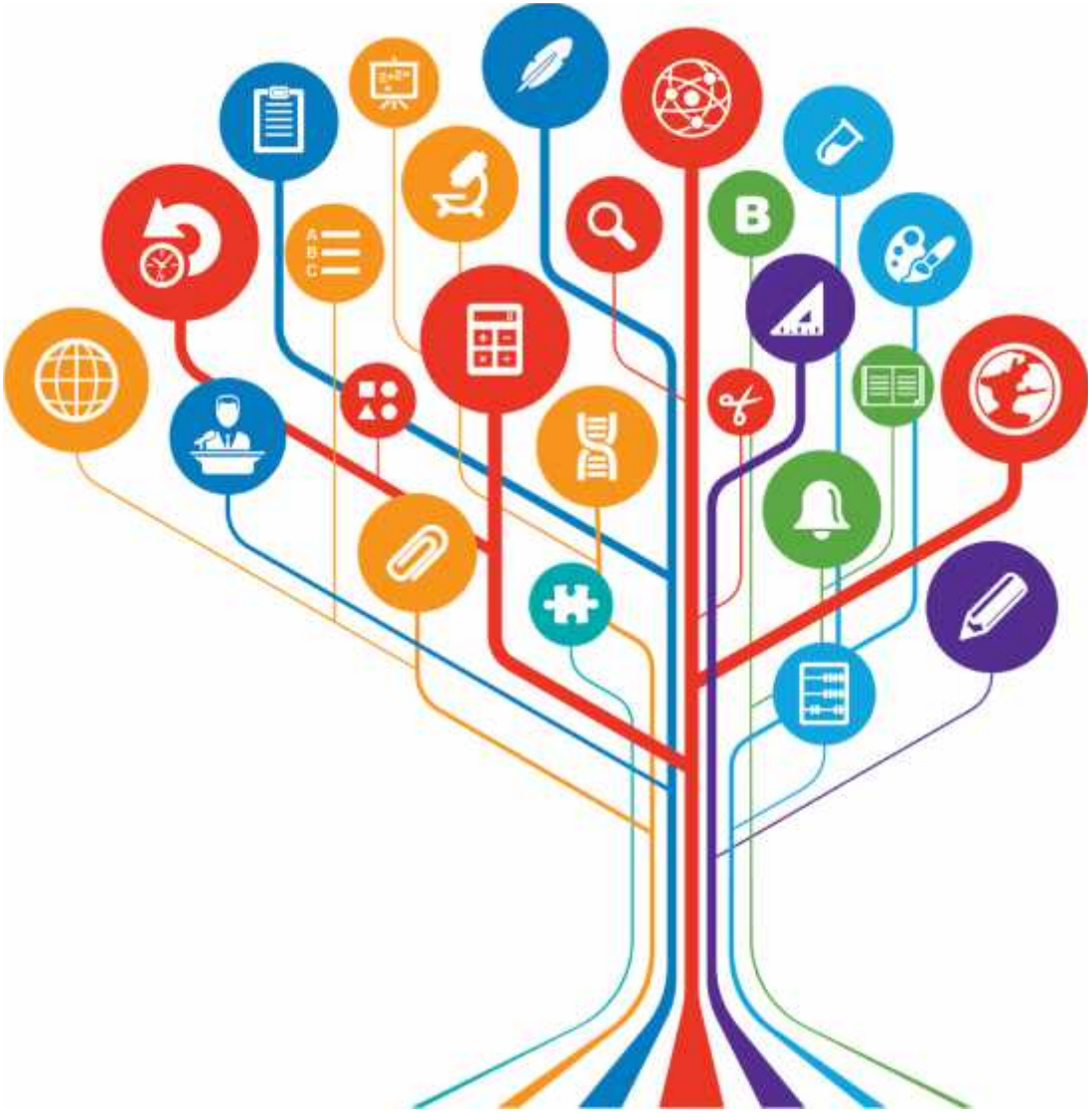
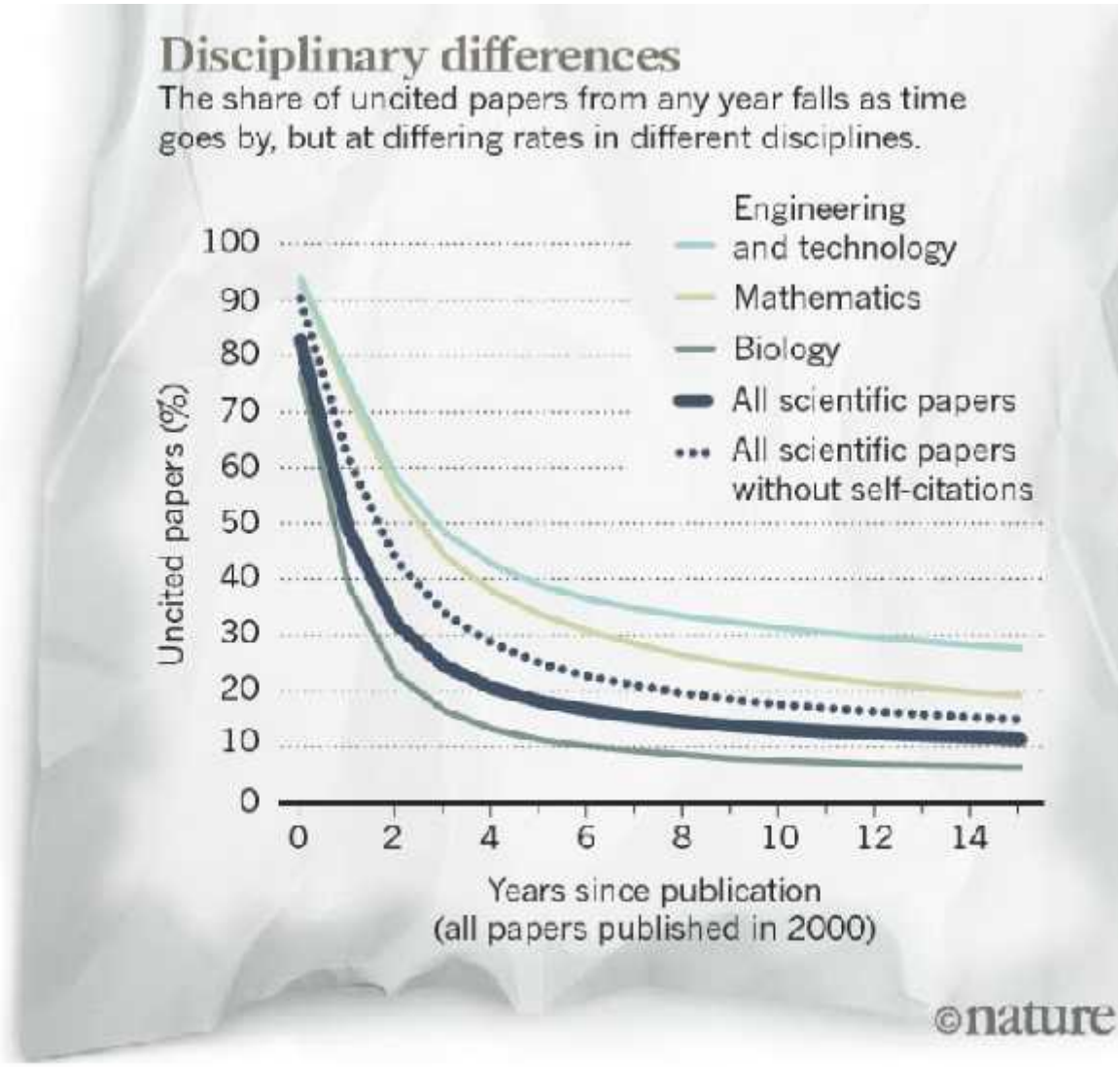
O que faz um artigo ser muito citado?



Paulo dos Santos Pompeu
Setor de Ecologia
Departamento de Biologia

Por que esta pergunta é relevante?



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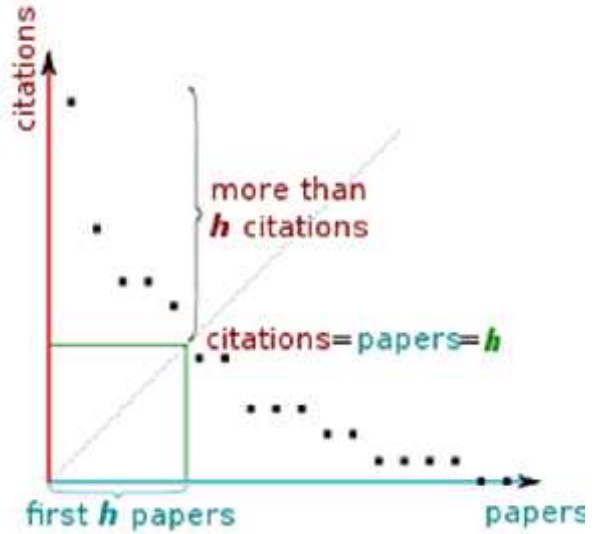
Por que esta pergunta é relevante?



Quais os artigos mais citados da história?

“The lowry paper,” as it is known, stands head-and-shoulders above all others. This 1951 article by **Oliver H. Lowry Nira J. Rosenbrough, A. Lewis Farr, and R.J. Randall**, published in the Journal of *Biological Chemistry*, 193,265-75, reported an improved procedure for measuring proteins. Although more sensitive methods have since been introduced, it still ranks as the King of the Classics, with over 180,000 citations by the end of 1987. It continues to receive 10,000 citations per year.

“A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein dye-binding” in *Analytical Biochemistry*, 72, 248-54.

Nature, 227, 680-5. “Cleavage of structural proteins during the assembly of the head of bacteriophage T4”

“Reliability of molecular weight determinations by dodecyl sulfate-polyacrylamide gel electrophoresis,” by **K. Weber and M. Osborn,**published in 1969 in the Journal of *Biological Chemistry*, 244, 4406-12.

Posted on October 29, 2010 by Jeremy Fox

← Previous

The most-cited ecology papers published in the last 10 years, and why thinking about them bums me out a bit

The most-cited ecology papers published in the last 10 years

1. Rockstrom et al. 2009 Nature. A safe operating space for humanity. Cited 3051 times as of mid-Oct. 2018. Yes, your mileage may vary on whether this counts as "ecology", but it's my list so I'm counting it.
2. Huttenhower et al. 2012 Nature. Structure, function, and diversity of the healthy human microbiome. 2979 citations.
3. Bolker et al. 2009 TREE. Generalized linear mixed models: a practical guide for ecology and evolution. 2960 citations.
4. Halpern et al. 2008 Science. A global map of human impact on marine ecosystems. 2372 citations.
5. Nakagawa and Schielzeth 2013 Methods Ecol Evol. A simple and general method for obtaining R^2 from generalized linear mixed-effects models. 2342 citations.
6. Diaz and Rosenberg 2008 Science. Spreading dead zones and consequences for marine ecosystems. 2278 citations.
7. Phillips and Miroslav 2008 Ecography. Modeling of species distributions with Maxent: new extensions and a comprehensive evaluation. 2152 citations.
8. Jones et al. 2008 Nature. Global trends in emerging infectious diseases. 2099 citations.
9. Hansen et al. 2013 Science. High-resolution global maps of 21st century forest cover change. 1984 citations.
10. Elith and Leathwick 2009 AREES. Species distribution models: ecological explanation and prediction across space and time. 1942 citations.

Mudanças globais

Métodos estatísticos

Serviços ecossistêmicos

Micróbios

The most-cited ecology papers published in the last 10 years that aren't about global change, statistical methods, ecosystem services, or microbiomes

1. Scheffer et al. 2009 Nature. Early-warning signals for critical transitions. 1316 citations.
2. Cavender-Bares et al. 2009 Ecology Letters. The merging of community ecology and phylogenetic biology. 927 citations.
3. Chave et al. 2009 Ecology Letters. Towards a worldwide wood economics spectrum. 921 citations.
4. Nathan et al. 2008 PNAS. A movement ecology paradigm for unifying organismal movement research. 901 citations.
5. Jetz et al. 2012 Nature. The global diversity of birds in space and time. 880 citations.
6. Vila et al. 2011 Ecology Letters. Ecological impacts of invasive alien plants: a meta-analysis of their effects on species, communities, and ecosystems. (Aside: yes, you can argue that this should count as a paper about global change.)
7. Kattge et al. 2011 Global Change Biology. TRY – a global database of plant traits. 840 citations.
8. Brooker et al. 2008 Journal of Ecology. Facilitation in plant communities: the past, the present, and the future. 840 citations.
9. Grimm et al. 2010 Ecological Modelling. The ODD protocol: a review and first update. 818 citations.
10. Cornwell et al. 2008 Ecology Letters. Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. 778 citations.

Revisões

Meta-análises

Compilações de dados

Opinião / Perspectiva

The most-cited ecology papers published in the last 10 years that aren't about global change, statistical methods, ecosystem services, or microbiomes, *and* that aren't reviews, meta-analyses, data compilations, or opinions/perspectives/frameworks

1. Schindler et al. 2008 PNAS. Eutrophication of lakes cannot be controlled by reducing nitrogen input: results of a 37-year whole-ecosystem experiment. 629 citations. This paper, like several others on this list, is about large-scale human impacts on the environment, so arguably could be omitted from this list on the grounds that it's about "global change".
2. Mulholland et al. 2008 Nature. Stream denitrification across biomes and its response to anthropogenic nitrogen loading. 610 citations.
3. Phalan et al. 2011 Science. Reconciling food production and biodiversity conservation: land sharing and land sparing compared. 565 citations.
4. Schindler et al. 2010 Nature. Population diversity and the portfolio effect in an exploited species. 549 citations.
5. Heaton et al. 2008 Global Change Biology. Meeting US biofuel goals with less land: the potential of *Miscanthus*. 506 citations.
6. Sims et al. 2008 Nature. Scaling laws of marine predator search behavior. 502 citations.
7. Carnaval et al. 2009 Science. Stability predicts genetic diversity in the Brazilian Atlantic forest hotspot. 497 citations.
8. Cornwell and Ackerly 2009 Ecological Monographs. Community assembly and shifts in plant trait distributions along an environmental gradient in coastal California. 491 citations.
9. Block et al. 2011 Nature. Tracking apex marine predator movements in a dynamic sea. 480 citations.
10. Kraft et al. 2008 Science. Functional traits and niche-based tree community assembly in an Amazonian forest. 474 citations.

Começando a pensar em estratégias.....

Impact factor is commonly used to evaluate the relative **importance** of a journal within its field and to measure the frequency with which the “average article” in a journal has been cited in a particular time period. Journal which publishes more review articles will get highest IFs.

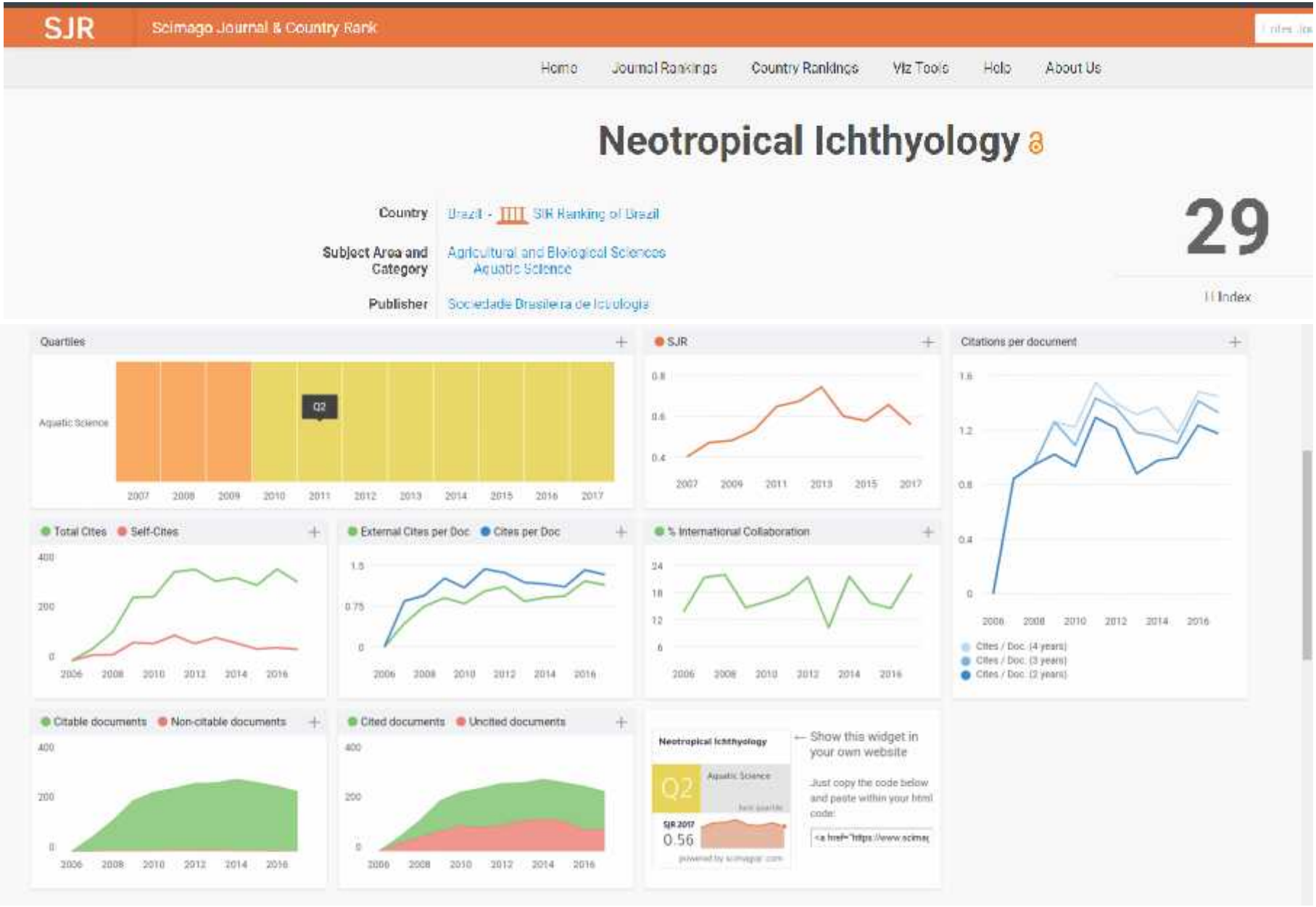
Impact Factors

Frequently requested information from JCR is a journal's Impact Factor which represents "the average number of times articles from the journal published in the past two years have been cited in the JCR year." It is calculated by dividing the number of times a journal is cited in the JCR year, by the number of articles published in the journal in the previous two or five years. Below is the Impact Factor calculation for **PLOS Biology** for 2008:

Cites in 2008 to items published in:	2007	=2573	Number of items published in:	2007	=228
	2006	=2754		2006	=192
	Sum:	5327		Sum:	420
Calculation: Cites to recent items		5327	=**12.683**		
Number of recent items		420			

2018 Journal Impact Factor (JCR 2018)

Rank	Full Journal Title	Total Cites	Journal Impact
1	CA-A CANCER JOURNAL FOR CLINICIANS	28,839	244.585
2	NEW ENGLAND JOURNAL OF MEDICINE	332,830	79.258
3	LANCET	233,269	53.254
4	CHEMICAL REVIEWS	174,920	52.613
5	Nature Reviews Materials	3,218	51.941
6	NATURE REVIEWS DRUG DISCOVERY	31,312	50.167
7	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	148,774	47.661
8	Nature Energy	5,072	46.859
9	NATURE REVIEWS CANCER	50,407	42.784
10	NATURE REVIEWS IMMUNOLOGY	39,215	41.982
11	NATURE	710,766	41.577
12	NATURE REVIEWS GENETICS	35,680	41.465
13	SCIENCE	645,132	41.058
14	CHEMICAL SOCIETY REVIEWS	125,900	40.182
15	NATURE MATERIALS	92,291	39.235
16	Nature Nanotechnology	57,369	37.490
17	LANCET ONCOLOGY	44,961	36.418
18	REVIEWS OF MODERN PHYSICS	47,289	36.367
19	NATURE BIOTECHNOLOGY	57,510	35.724
20	NATURE REVIEWS MOLECULAR CELL BIOLOGY	43,667	35.612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ISI Journal Citation Reports © Ranking: 2017: 5/106 (Marine & Freshwater Biology)
Online ISSN: 1365-2427

LATEST ISSUE >
Volume 63, Issue 11
November 2018

Introducing the Editor-in-Chief: Belinda Robson

Belinda Robson is based at Murdoch University in Western Australia, where her research currently focusses on the ecology of streams and wetlands in Mediterranean climate regions.

Early in her career, she developed a strong interest in the use of field experiments as tools for understanding ecological processes. More recently, she has worked in dryland, agricultural and urban areas investigating disturbance processes in intermittent and ephemeral streams and wetlands. Belinda maintains a long-standing interest in the restoration of rivers and wetlands and climate change adaptation has increasingly become a focus of her research.

Belinda has been President of the Australian Freshwater Sciences Society (formerly ASL) and is a co-author of the 2nd edition of Australian Freshwater Ecology: Processes and Management. She has served on the Editorial Boards of several international journals, including as an Associate Editor for Freshwater Biology.

Belinda Robson became Editor-in-Chief of Freshwater Biology in May 2018.

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by John C. Cannon on 28 July 2017 |

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January 9, 2018

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Consumo afeta tamanho e fartura do tambaqui em Manaus, afirma pesquisador

Biólogo e pesquisador britânico, Daniel J. Tregidgo conviveu com ribeirinhos e estudou hábitos alimentares

Portal Amazônia, com informações do G1 Eco


IMPACTO
SENSIBILIZACIÓN
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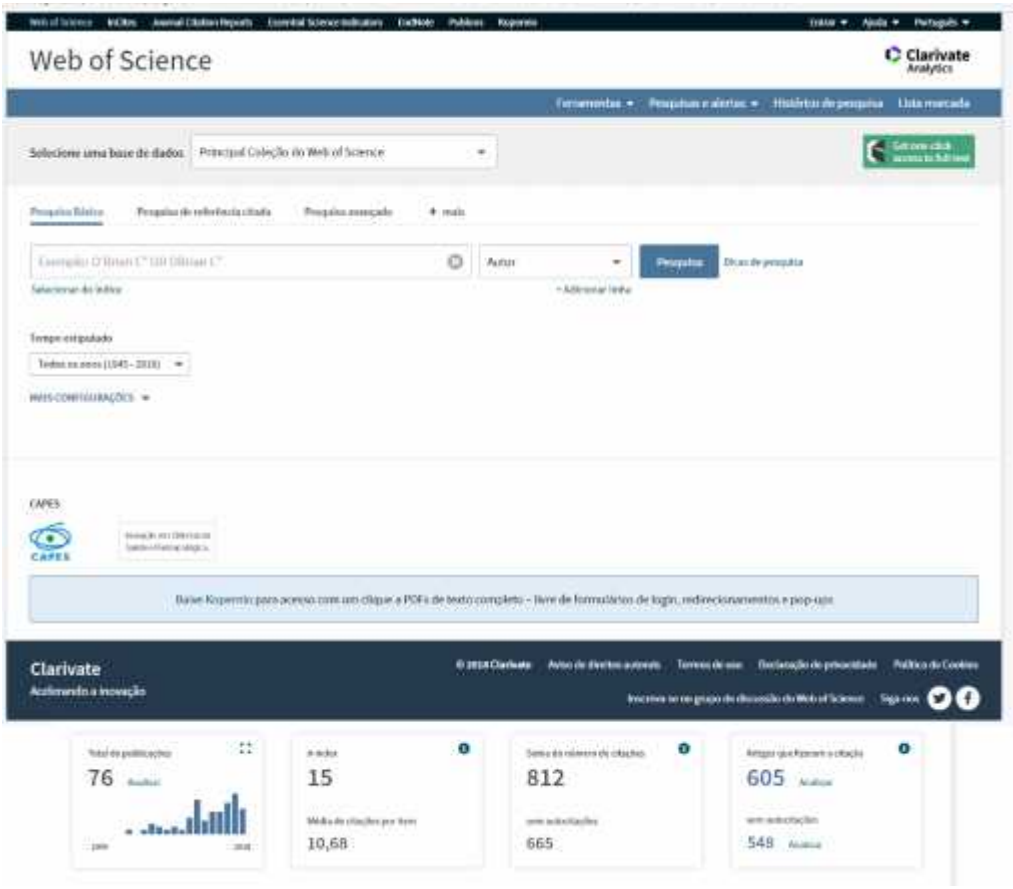
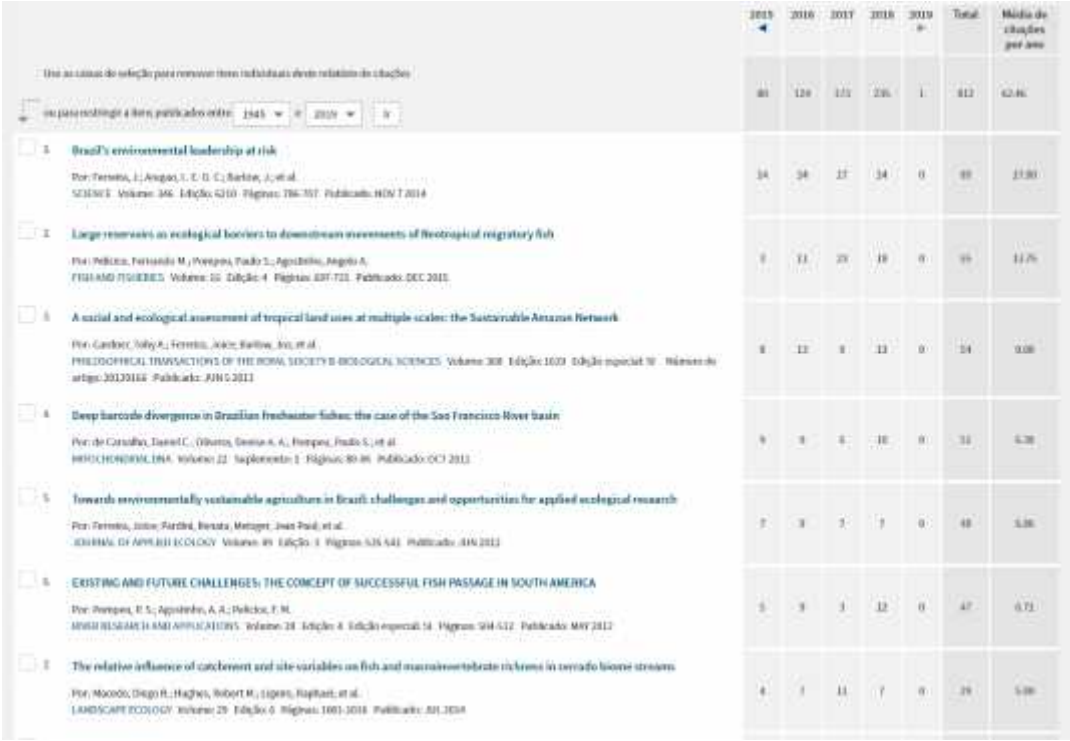
DE RECURSOS
PROYECTOS

Bom, mas como calcular quantas vezes um artigo foi citado?





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Ecology

TÍTULO	CITADO POR	ANO
Brazil's environmental leadership at risk J Ferreira, L Aragão, J Barlow, P Barreto, E Berenguer, M Bustamante, ... Science 346 (6210), 706-707	136	2014
Large reservoirs as ecological barriers to downstream movements of Neotropical migratory fish HM Pelicice, PS Pompeu, AA Agostinho Fish and Fisheries 16 (4), 697-715	98	2015
A social and ecological assessment of tropical land uses at multiple scales: the		

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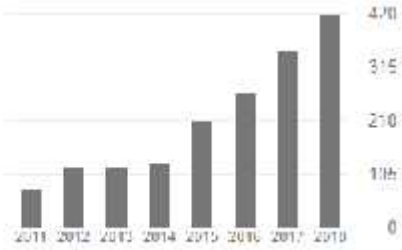
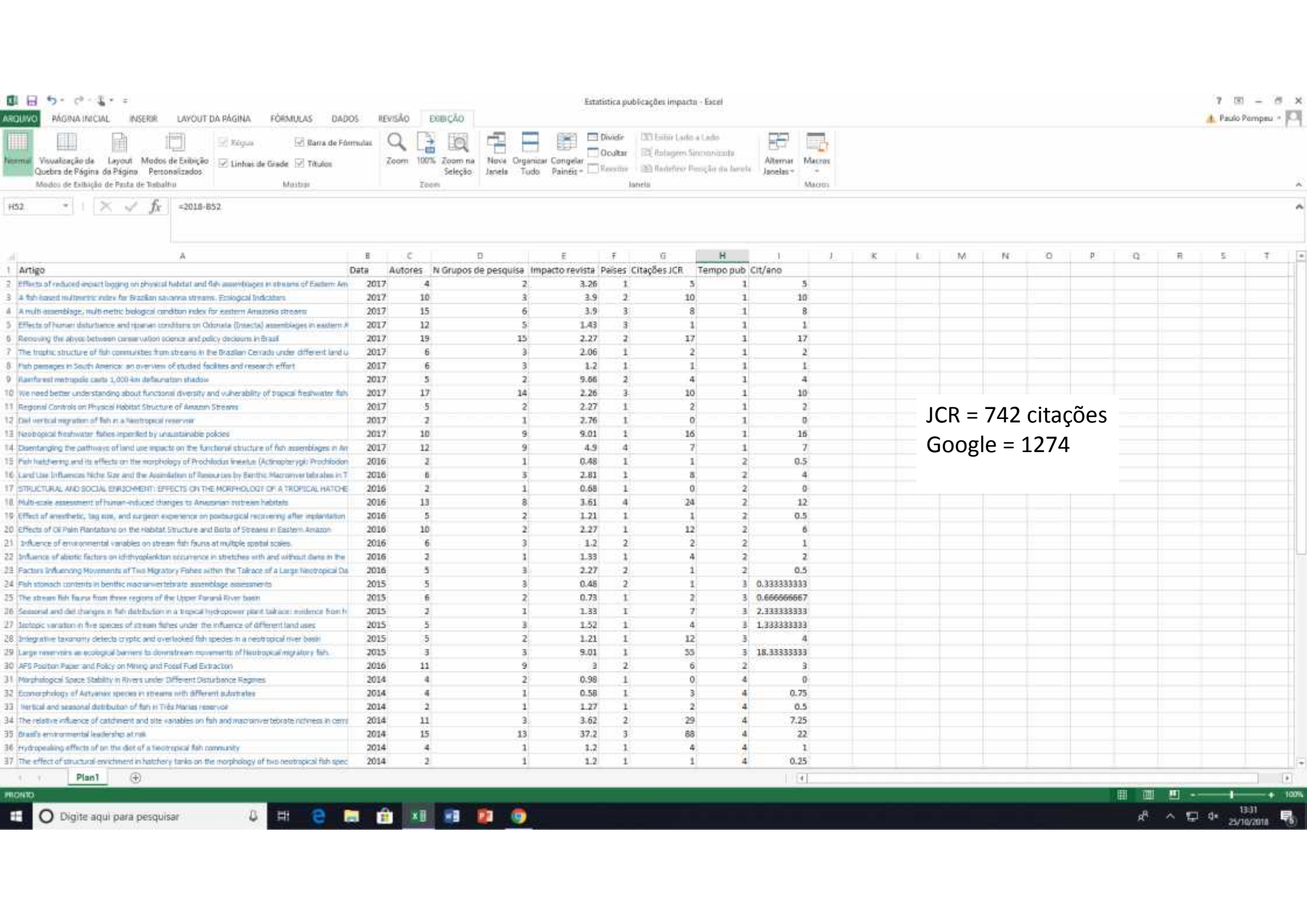
	Todos	Desde 2013
Citações	2030	1438
Índice h	24	17
Índice i10	53	39



Peixamentos: uma alternativa eficiente? F Vieira, PS Pompeu Ciência Hoje 30 (175), 28-33	40	2001

Mas será que a minha história pode me dar dicas de como ser mais citado?



Estatística publicações impacto - Excel

=2018-B52

Artigo	Data	Autores	N Grupos de pesquisa	Impacto revista	Países	Citações JCR	Tempo pub	Cit/ano
Effects of reduced-impact logging on physical habitat and fish assemblages in streams of Eastern Am	2017	4	2	3.26	1	5	1	5
A fish-based multimetric index for Brazilian savanna streams. Ecological Indicators	2017	10	3	3.9	2	10	1	10
A multi-assemblage, multi-metric biological condition index for eastern Amazonia streams	2017	15	6	3.9	3	8	1	8
Effects of human disturbance and riparian conditions on Odonata (Insecta) assemblages in eastern A	2017	12	5	1.43	3	1	1	1
Recovering the abyss between conservation science and policy decisions in Brazil	2017	19	15	2.27	2	17	1	17
The trophic structure of fish communities from streams in the Brazilian Cerrado under different land u	2017	6	3	2.06	1	2	1	2
Fish passages in South America: an overview of studied facilities and research effort	2017	6	3	1.2	1	1	1	1
Rainforest metropolis casts 1,000-km deforestation shadow	2017	5	2	9.66	2	4	1	4
We need better understanding about functional diversity and vulnerability of tropical freshwater fish	2017	17	14	2.26	3	10	1	10
Regional Controls on Physical Habitat Structure of Amazon Streams	2017	5	2	2.27	1	2	1	2
Diel vertical migration of fish in a Neotropical reservoir	2017	2	1	2.76	1	0	1	0
Neotropical freshwater fishes imperilled by unsustainable policies	2017	10	9	9.01	1	16	1	16
Disentangling the pathways of land use impacts on the functional structure of fish assemblages in An	2017	12	9	4.9	4	7	1	7
Fish hatchering and its effects on the morphology of Prochilodus lineatus (Actinopterygii: Prochilodon	2016	2	1	0.48	1	1	2	0.5
Land Use Influences Niche Size and the Assimilation of Resources by Benthic Macroinvertebrates in T	2016	6	3	2.81	1	8	2	4
STRUCTURAL AND SOCIAL ENRICHMENT: EFFECTS ON THE MORPHOLOGY OF A TROPICAL HATCHE	2016	2	1	0.68	1	0	2	0
Multi-scale assessment of human-induced changes to Amazonian instream habitats	2016	13	8	3.61	4	24	2	12
Effect of anesthetic, tag size, and surgeon experience on postsurgical recovering after implantation	2016	5	2	1.21	1	1	2	0.5
Effects of Oil Palm Plantations on the Habitat Structure and Biota of Streams in Eastern Amazon	2016	10	2	2.27	1	12	2	6
Influence of environmental variables on stream fish fauna at multiple spatial scales	2016	6	3	1.2	2	2	2	1
Influence of abiotic factors on ichthyoplankton occurrence in stretches with and without dams in the	2016	2	1	1.33	1	4	2	2
Factors Influencing Movements of Two Migratory Fishes within the Tailrace of a Large Neotropical Da	2016	5	3	2.27	2	1	2	0.5
Fish stomach contents in benthic macroinvertebrate assemblage assessments	2015	5	3	0.48	2	1	3	0.333333333
The stream fish fauna from three regions of the Upper Paraná River basin	2015	6	2	0.73	1	2	3	0.666666667
Seasonal and diel changes in fish distribution in a tropical hydropower plant tailrace: evidence from h	2015	2	1	1.33	1	7	3	2.333333333
Isotopic variation in five species of stream fishes under the influence of different land uses	2015	5	3	1.52	1	4	3	1.333333333
Integrative taxonomy detects cryptic and overlooked fish species in a neotropical river basin	2015	5	2	1.21	1	12	3	4
Large reservoirs as ecological barriers to downstream movements of Neotropical migratory fish	2015	3	3	9.01	1	55	3	18.33333333
AFS Position Paper and Policy on Mining and Fossil Fuel Extraction	2016	11	9	3	2	6	2	3
Morphological Space Stability in Rivers under Different Disturbance Regimes	2014	4	2	0.98	1	0	4	0
Ecomorphology of Astyanax species in streams with different substrates	2014	4	1	0.58	1	3	4	0.75
Vertical and seasonal distribution of fish in Três Marias reservoir	2014	2	1	1.27	1	2	4	0.5
The relative influence of catchment and site variables on fish and macroinvertebrate richness in cent	2014	11	3	3.62	2	29	4	7.25
Brazil's environmental leadership at risk	2014	15	13	37.2	3	88	4	22
Hydropeaking effects of on the diet of a Neotropical fish community	2014	4	1	1.2	1	4	4	1
The effect of structural enrichment in hatchery tanks on the morphology of two neotropical fish spec	2014	2	1	1.2	1	1	4	0.25

JCR = 742 citações
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PRONTO

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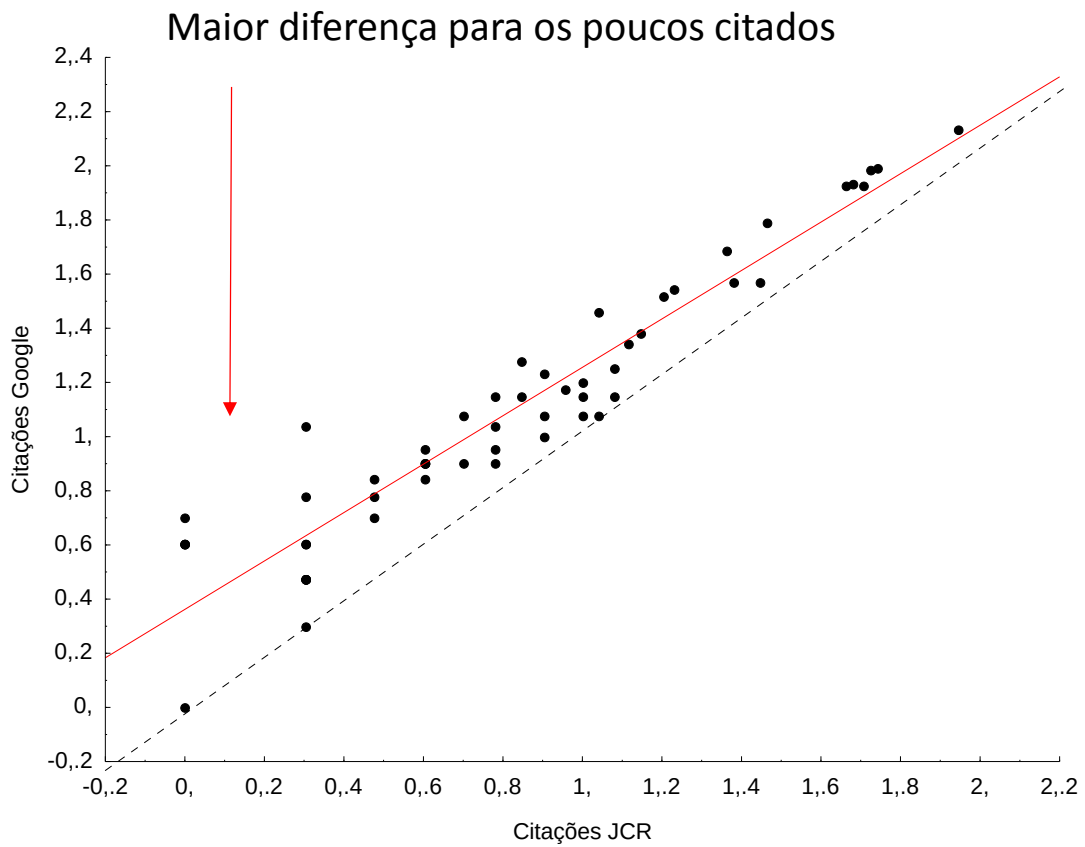
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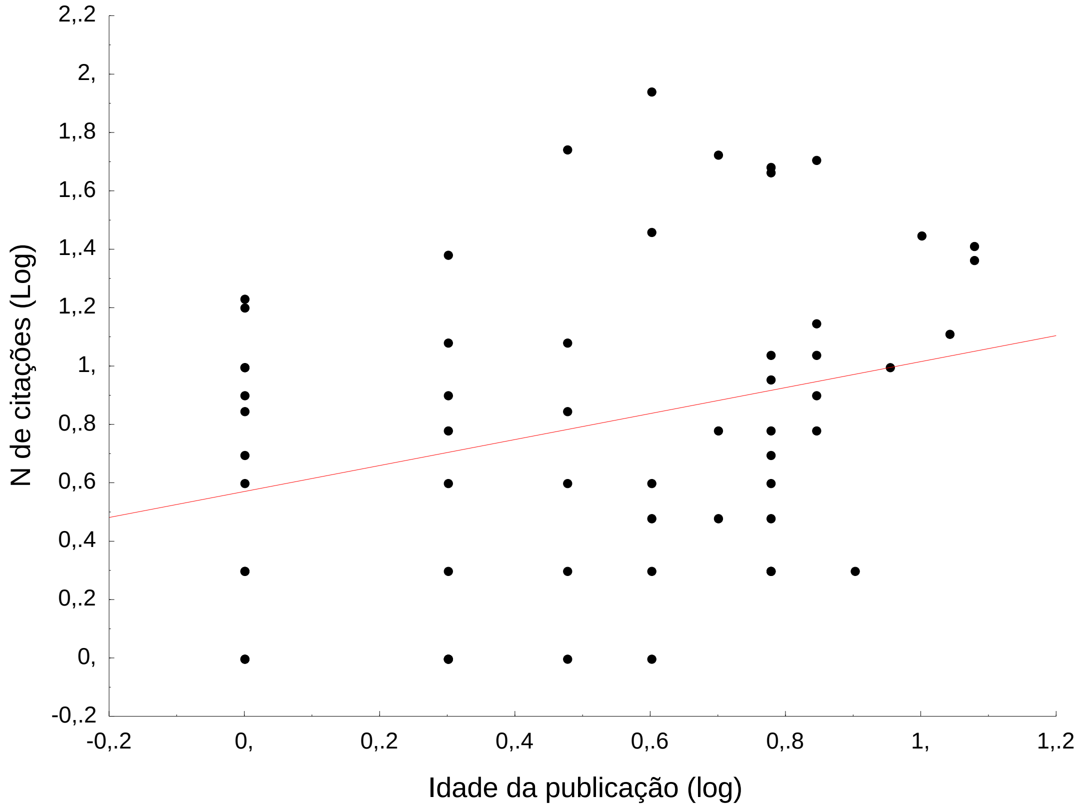
N=58	b*	Std.Err. of b*	b	Std.Err. of b	t(52)	p-value
Regression Summary for Dependent Variable: Citações JCR (Estatística publicações impacto) R= .73522672 R²= .54055823 Adjusted R²= .49638175 F(5,52)=12.235 p<.00000 Std.Error of estimate: .37068						
Intercept			-0.170112	0.195868	-0.872953	0.386656
Tempo pub	0.611301	0.106494	0.942188	0.164116	5.740975	0.000000
Fatores	0.079309	0.151137	0.213127	0.409064	0.522000	0.600060
Impacto revista	0.503419	0.122573	0.600149	0.150020	4.107100	0.000142
N Grupos de pesquisa	0.249149	0.199587	0.385122	0.308511	1.248325	0.217604
Autores	0.157400	0.180073	0.260096	0.297562	0.874091	0.386088



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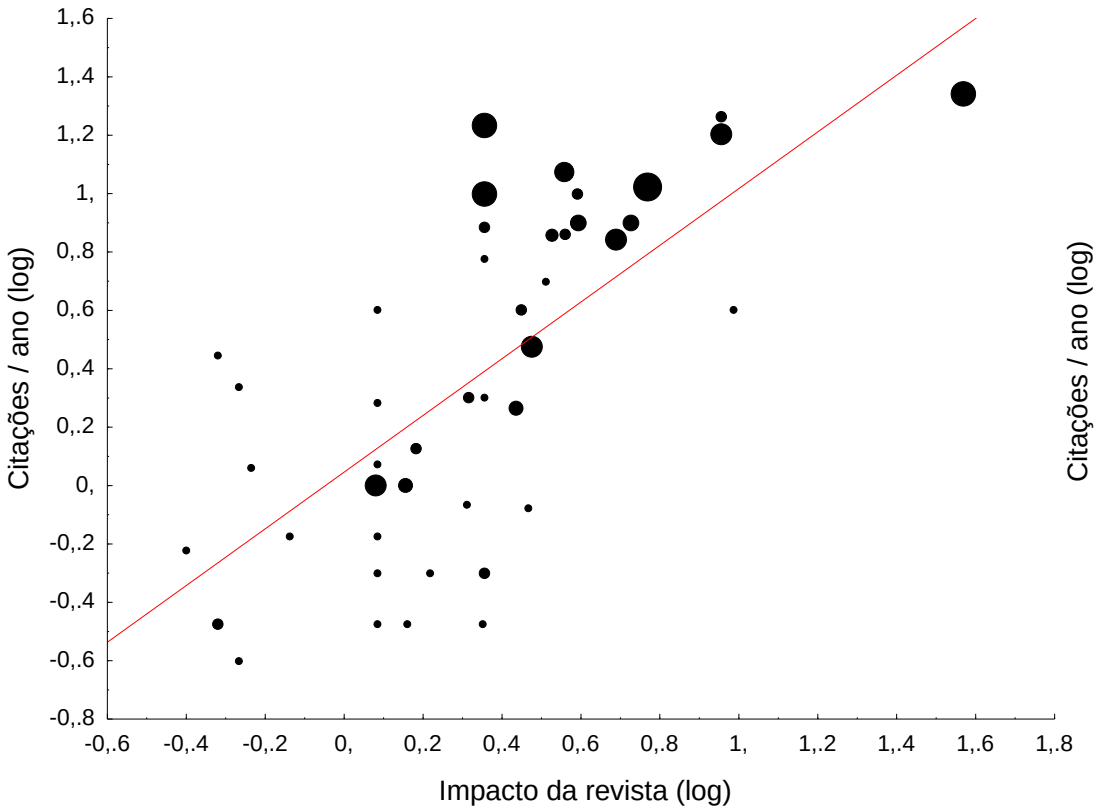

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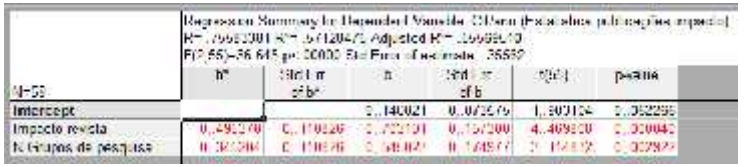
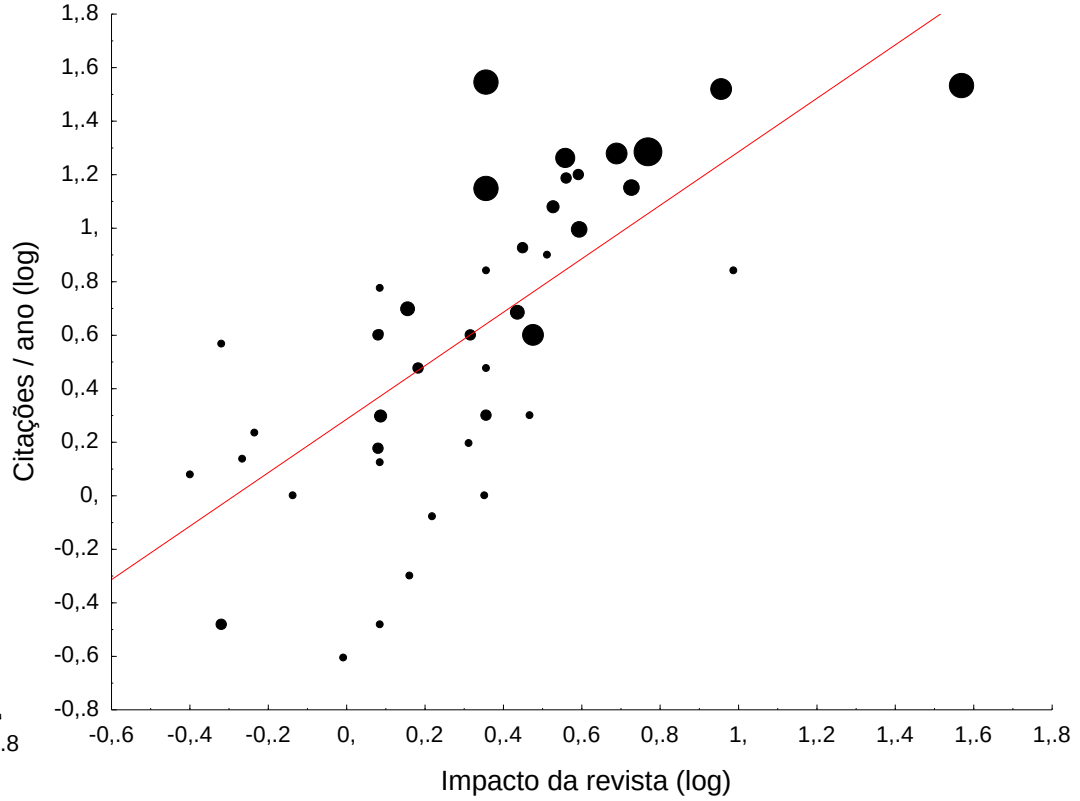
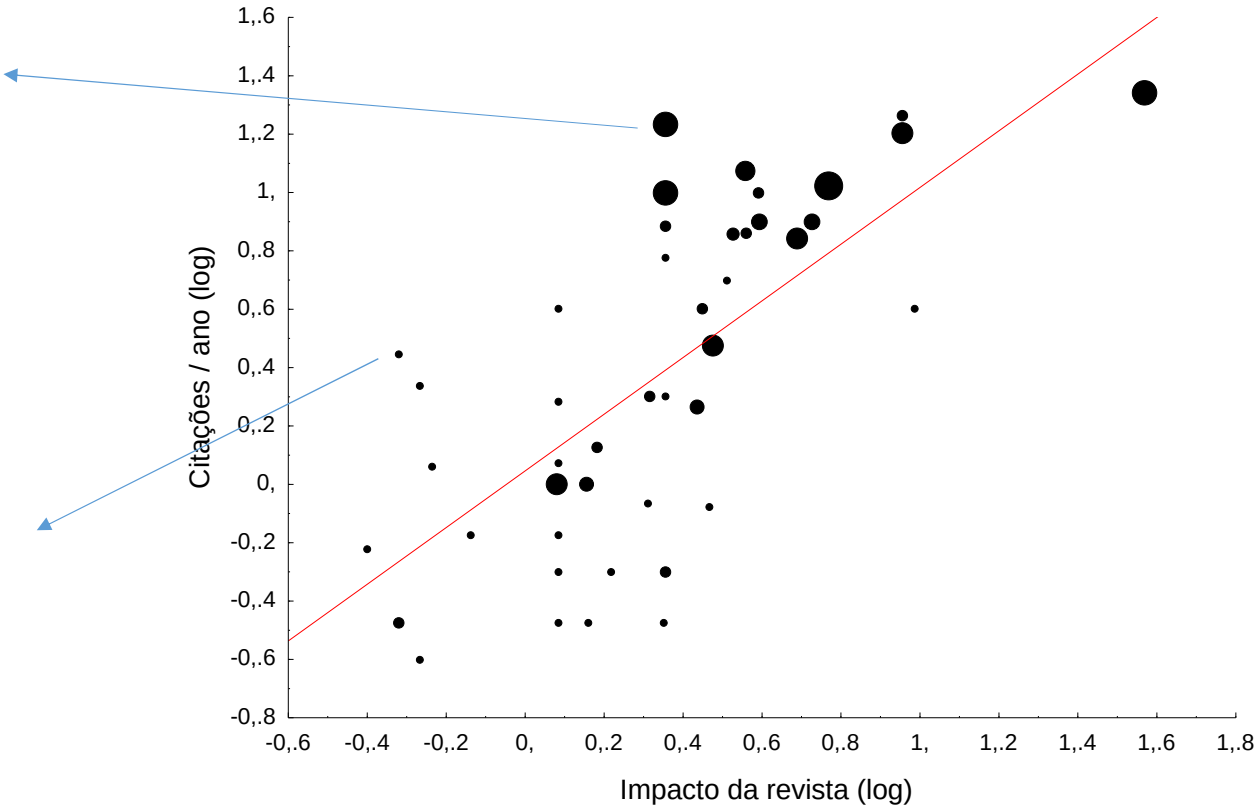




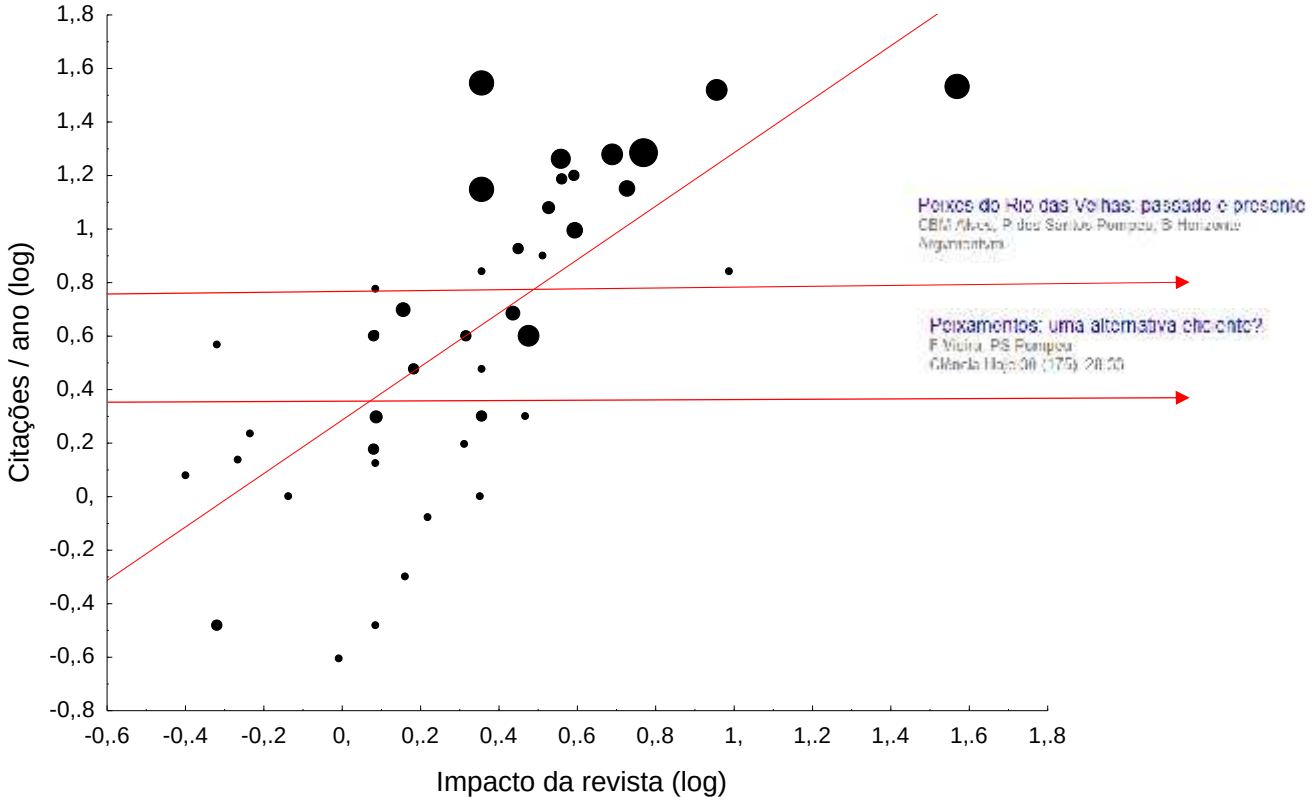
Dá para aprender com as surpresas positivas?

AZEVEDO-SANTOS, VM; FEARNSIDE, PM; OLIVEIRA, CS; PADIAL, AA; PELICICE, FM; LIMA, DP; SIMBERLOFF, D; LOVEJOY, TE; MAGALHÃES, ALB; ORSI, ML; AGOSTINHO, AA; ESTEVES, FA; Pompeu, PS; LAURANCE, WF; PETRERE, M; MORMUL, RP; VITULE, JRS. Removing the abyss between conservation science and policy decisions in Brazil. BIODIVERSITY AND CONSERVATION, v. 26, p. 1745-1752, 2017
(17 citações em um ano – JCR 2,27)

Santos, HA.; Pompeu, PS. ; Vicentini, GS. ; Martinez, CB. . Swimming performance of the freshwater neotropical fish: Pimelodus maculatus Lacepède, 1803. Brazilian Journal of Biology, v. 68, p. 433-439, 2008
(28 citações, 2,7 por ano – JCR 0,479).



E como ficariam as publicações que só o Google considera?



O que faz um artigo ser muito citado?

Ser publicado em uma boa revista

Ter uma boa divulgação

Parcerias não endogâmicas são fundamentais

Temas da moda

Mas um bom artigo tem grande chance de ser citado, mesmo que seja publicado em um periódico menos conhecido, mas o futuro destas publicações ainda é incerto

Mas ninguém produz um artigo nota 10 fruto de um projeto nota 5!


Obrigado
pompeups@gmail.com