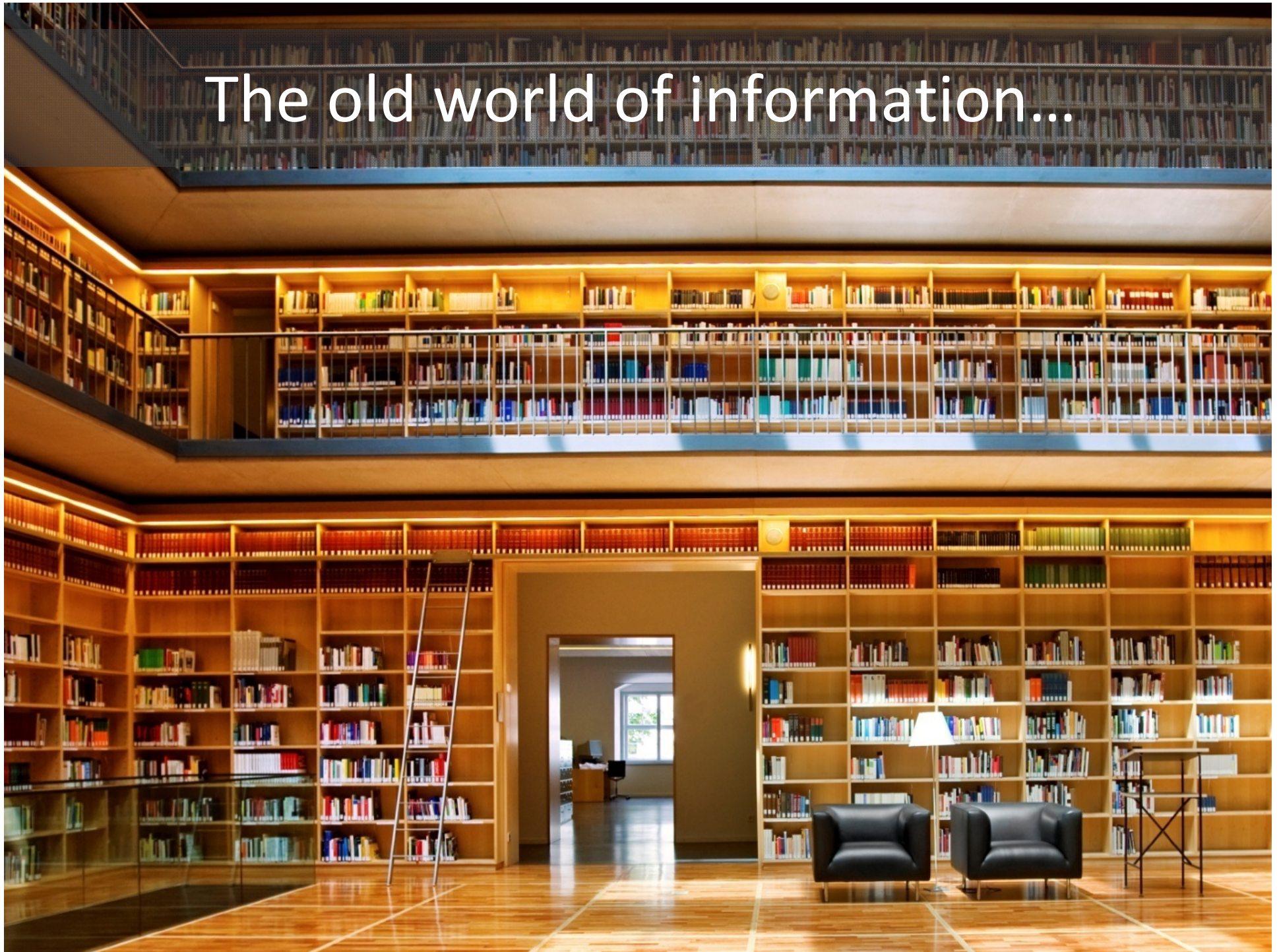


'Open Access Publishing with BioMed Central'



28th April 2014 – Ankara University
BioMed Central/SpringerOpen

The old world of information...



The new world of information...

<http://environmentalstudies.vassar.edu/major/fieldwork.html>

Agenda

- **Overview of open access**
- Benefits of open access
- Open access at Springer
- Open access at Ankara University

Two routes to open access (OA)

Green Open Access Route

- Self-archiving of accepted author version publication in a repository
- Embargo periods may apply
- An estimated 12% of all scholarly articles are available through some form of 'Green' OA



Gold Open Access Route

- Completely OA journals and OA option within subscription journals
- OA content is available to everyone everywhere in exchange for an article processing charge
- Eliminates restrictive barriers (license restrictions)



Open access publishing

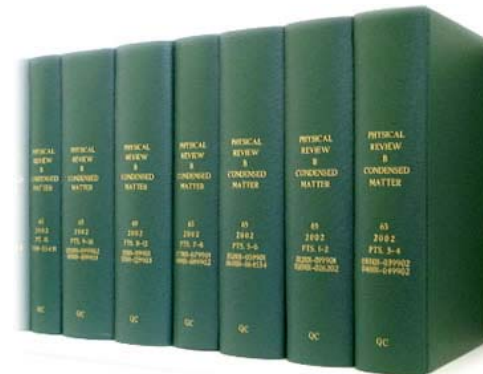
Different business model.....

- no subscription barriers
- universal access
- research is openly licensed to allow reuse



Same quality and standards

- Editors in chief
- Editorial boards
- Peer review
- Indexing
- Impact Factors



Why Open Access?

- Breaks down barriers between disciplines
 - Promotes public engagement with scientific and medical research
 - Creates an open global forum for scientific communication
-
- **For researchers:**
 - Very high visibility
 - Widely indexed
 - No barriers to dissemination (also social sharing) and access to research
 - Higher citations



Open Access Today

- Open access to research mandatory in 200+ institutions and by 80 funders in 47 countries
- 3,375 repositories in 101 countries
- Over 10,000 open access journals in the DOAJ
- 1,594,028 articles published in OA journals
- Almost 1000 open access journals now have an Impact factor
- 8.5% of peer reviewed articles now published in fully open access form*

*Study of open access – Bo Christer Bjork, PLOS One

(source ROARMAP, ROAR & DOAJ at March 1, 2013)



Senato Karar Tarihi: 08.10.2013

İZMİR YÜKSEK TEKNOLOJİ ENSTİTÜSÜ AÇIK ERİŞİM POLİTİKASI

POLİTİKA BAŞLIĞI:

İzmir Yüksek Teknoloji Enstitüsü (İYTE) bünyesinde yapılan akademik çalışmalar için açık erişim, kurumsal arşivleme, uzun dönemli derleme ve dijital koruma.

BAĞLAM:

Özellikle ileri düzeyde eğitim-öğretim, araştırma, üretim, yayın ve danışmanlık yapmak üzere 1992 yılında kurulmuş olan İYTE, Türkiye Cumhuriyeti'nin çıkarlarına ve kalkınmasına hizmet edecek, sanayinin ve toplumun ihtiyaçlarına cevap verecek nitelikte eğitim vermeyi, araştırmalar yapmayı ve araştırma sonuçlarının mümkün olan en geniş çevrelere sunulmasını ilke edinmiştir. Bir devlet üniversitesi olarak İYTE, lisans ve lisansüstü seviyelerde; araştırmacı, yaratıcı ve girişimci, eleştirel düşünceye yatkın ve karar vermede özgür, ekip çalışmasında başarılı, kendi teknolojimizin üretilmesine katkısı olacak, hammadde kaynaklarımızı değerlendirecek, katma değeri yüksek üretime önderlik edecek, kendi iş ortamını yaratacak bilim insanları, mühendisler, mimarlar ve planlılar yetiştirerek ülkemize katkıda bulunmayı hedeflemekte ve bir araştırma üniversitesi olarak geniş kitlelere karşı taşıdığı sorumluluklarının önemini çok iyi bilmektedir.

Türkiye'nin sanayi alanında gelişimi ve Türkiye ekonomisinin geleceği, yeni teknolojilerden yararlanılmasına ve bu teknolojilerin geliştirilmesinde oynanacak aktif role bağlı olacaktır. Bunun içindir ki, ileri ülkelerde, özellikle teknolojik alanda üst düzeyde eğitim-öğretim ve araştırma yapma temel amacıyla benimsenen en gelişmiş teknik üniversite modeli, teknoloji enstitüleridir. Ülkemizde böylesi bir misyonu yüklenmesi için kurulan iki teknoloji enstitüsünden biri olan İYTE'nin akademik çalışmalarının açık erişim olarak paylaşılması, bu çalışmaların görünürlüğünü ve tanınırlığını arttırmayı mümkün kılarak, yapılacak yeni araştırmalarda kamu ve özel sektörden daha fazla proje desteği sağlanmasına olanak tanıyacaktır. Bu nedenle İYTE, mensuplarına ait akademik çalışmaları mümkün olan en geniş kitlelere ulaştırabileceği bir açık erişim mekanizması ve bu kapsamda hizmet verecek bir açık erişim arşivi kurmaya karar vermiştir. İYTE Kütüphanesi, üniversite araştırmacılarına ait çalışmaların uygun formatlarda derlenmesinde, uzun dönemli korunmasında ve en geniş şekilde erişime sunulmasında stratejik bir rol oynayacaktır.



DSpace Repository

Dspace@IZTECH showcases and preserves the scholarly work of anyone affiliated with Izmir Institute of Technology (faculty, staff, students or groups and organizations) established by the Library to support the dissemination of knowledge by the University community to the wider community locally and globally. Whenever possible, the outputs available from Dspace@IZTECH can be downloaded or viewed online, free of charge. This ensures the widest possible dissemination for the outputs of IZTECH researchers and contributes to the growing body of research literature that is now freely available online. The repository software used for Dspace@IZTECH is using is called Dspace, an open source software originally developed by MIT in the USA. Please contact the Dspace@IZTECH coordinator with any questions.

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The Changing Landscape of OA Publishing

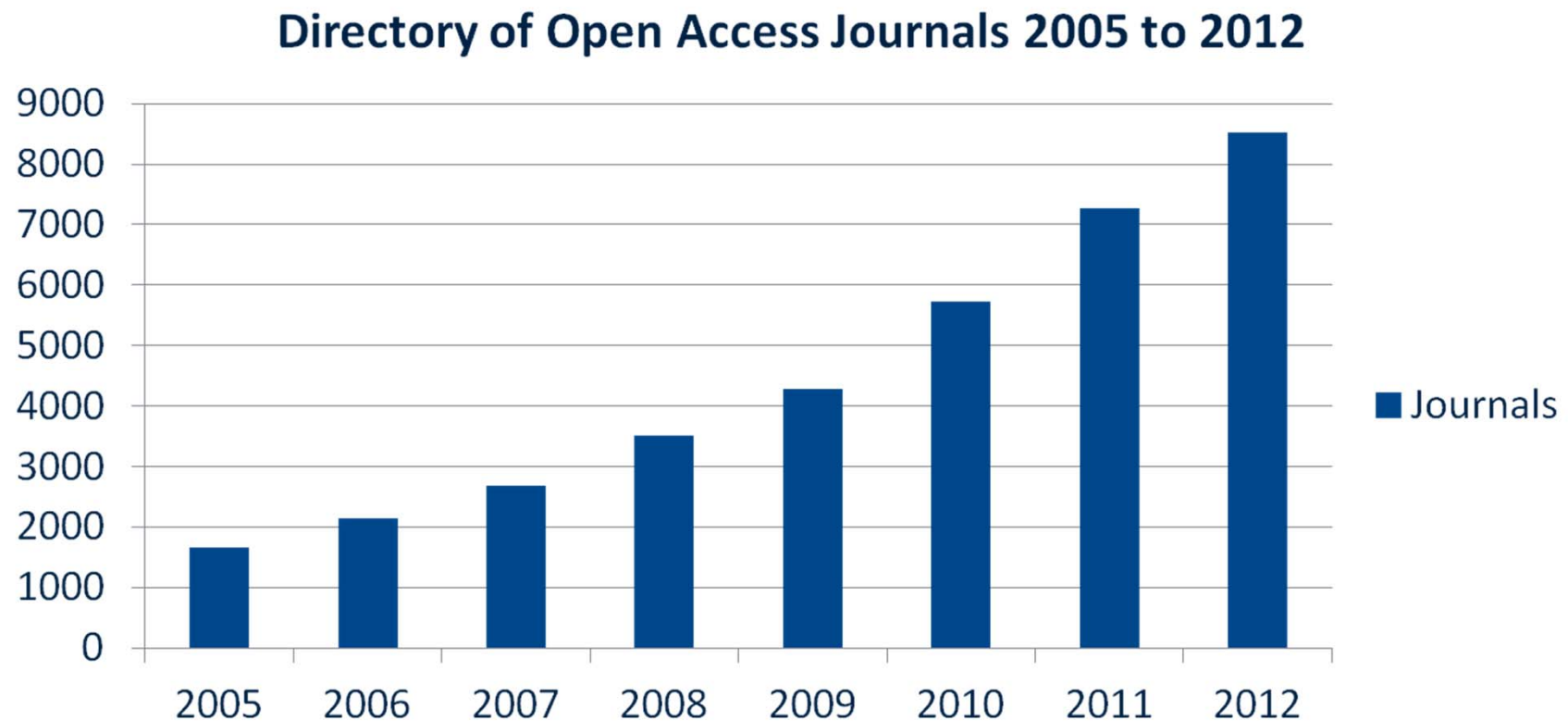
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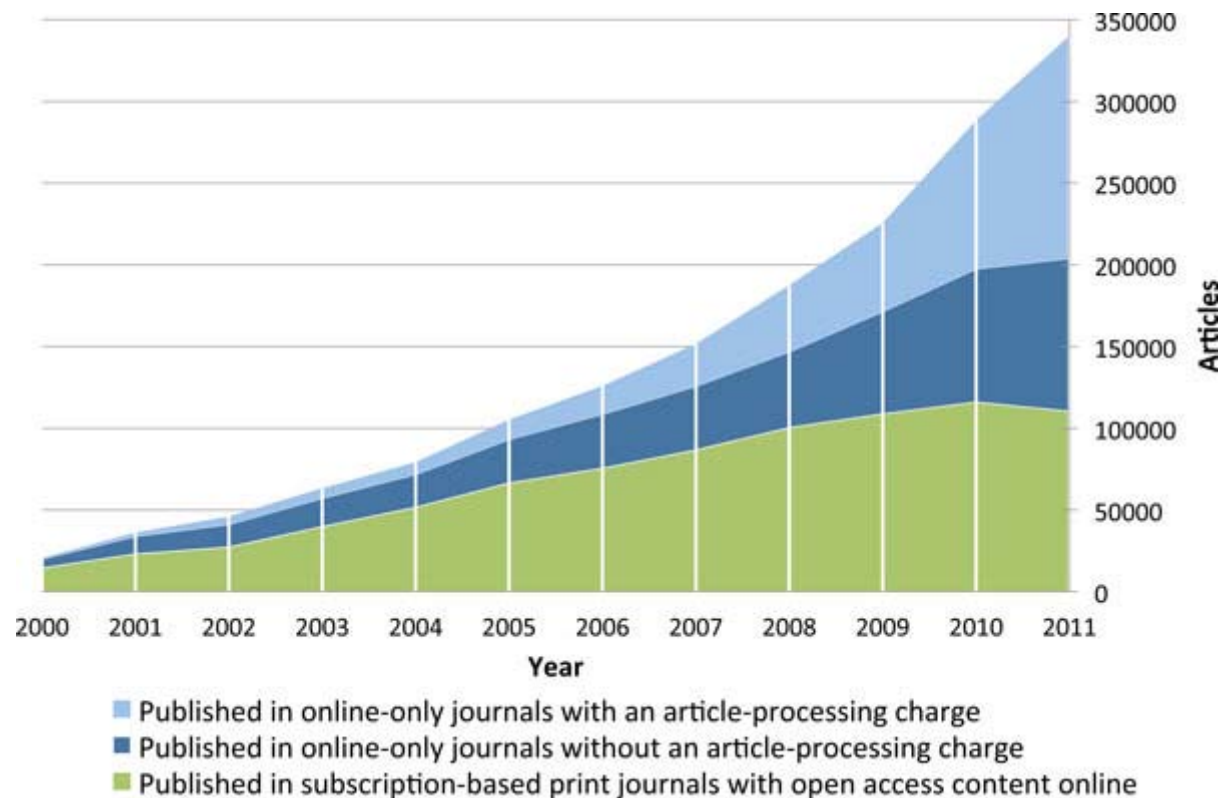


Overall open access market growth: fully open access journals

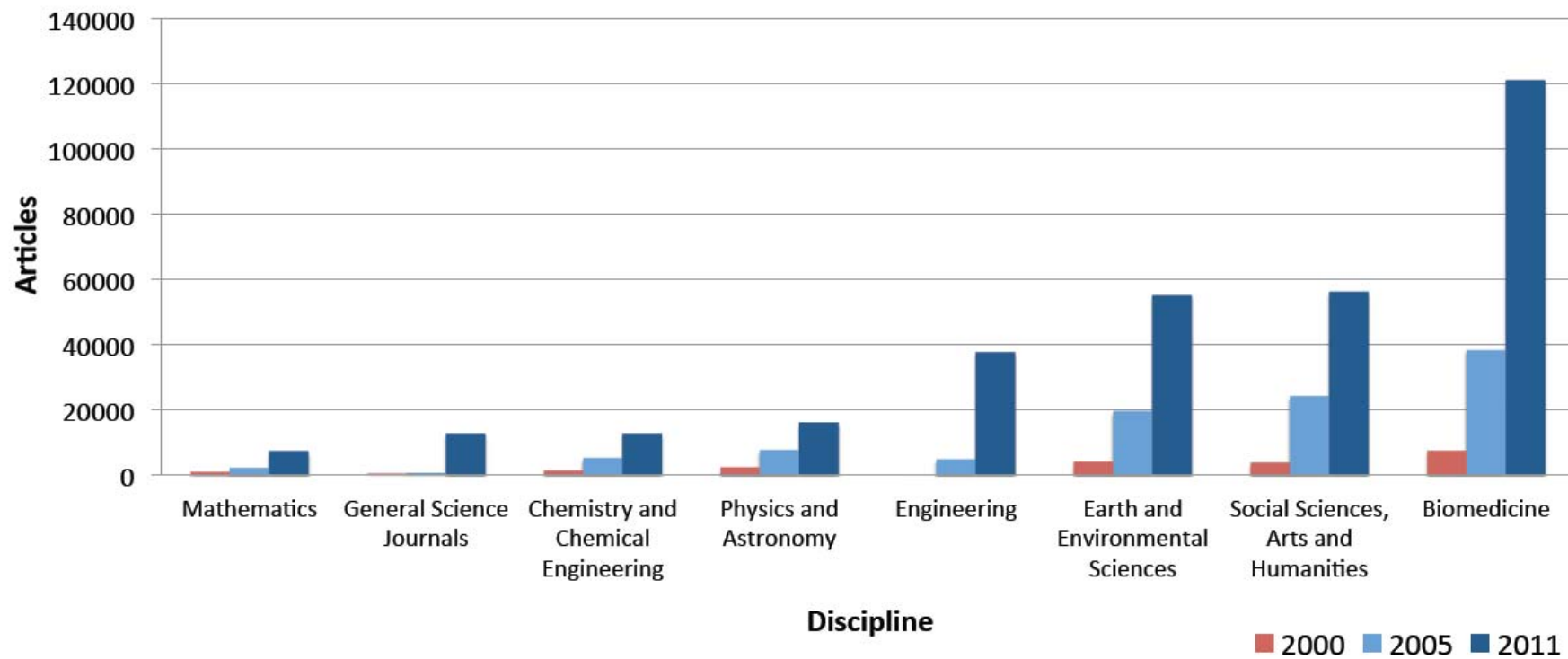


Growth of OA articles

Laakso and Björk *BMC Medicine* 2012 **10**:124 <http://www.biomedcentral.com/1741-7015/10/124>

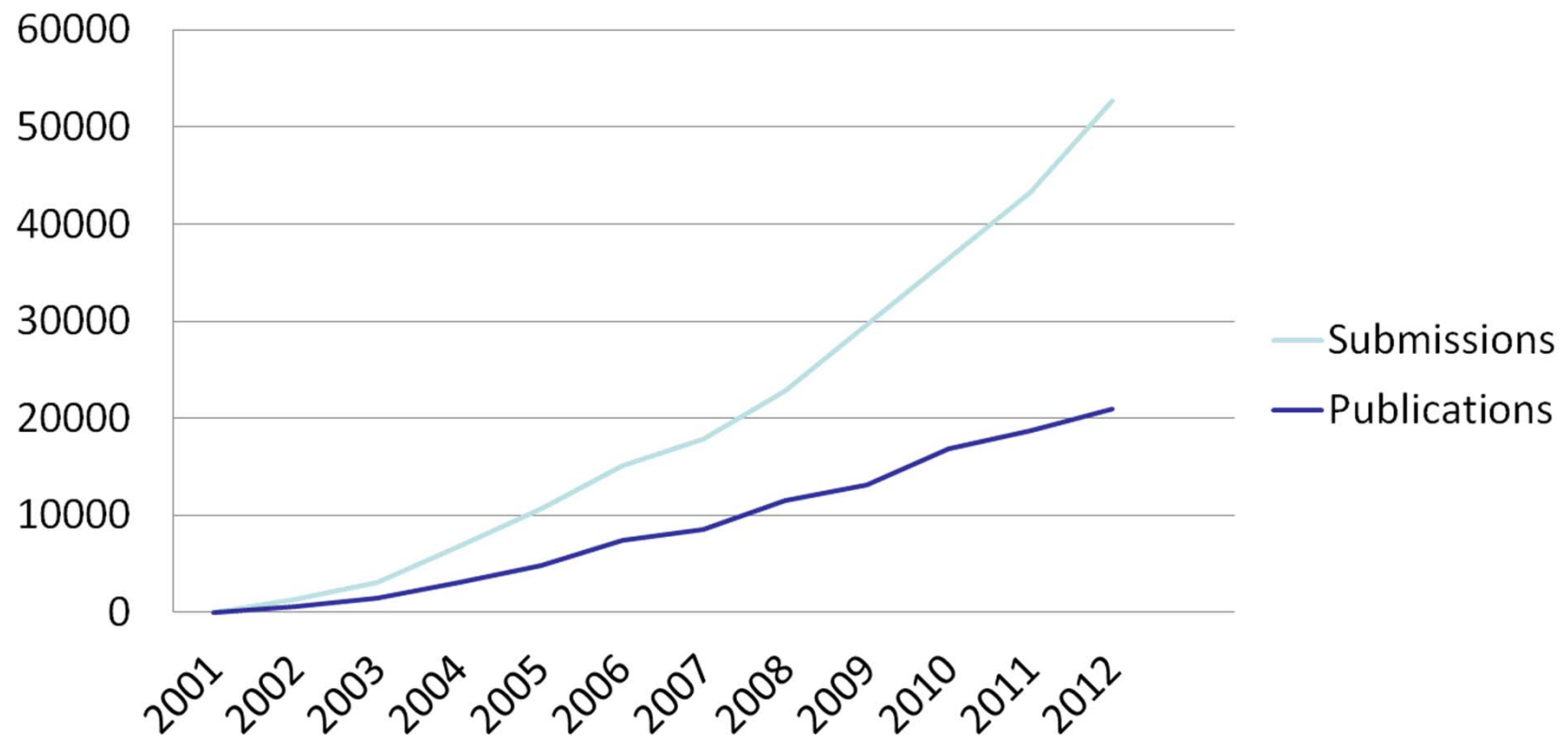


Across all subject areas



Anatomy of open access publishing: a study of longitudinal development and internal structure, Mikael Laakso and Bo-Christer Björk ,
BMC Medicine, 2012, 10: 124

Growth in Submissions and Publications



Agenda

- Overview of open access
- **Benefits of open access**
- Open access at Springer
- Open access at Ankara University

Benefits of open access

- for readers
- for authors and research funders
- for editors/journal owners (societies)

Readers - academics and lay persons (patient education!)

"I will be seeing a doctor who is new to me..... I have a lesion in my shoulder that is causing a lot of pain. I read and copied both the publications on surgical and pain management. They are precise and informative. I believe these articles will prove to be invaluable for all of us as we seek proper care for this disease."

Reader of Orphanet Journal of Rare Diseases

Authors, funders, and universities: visibility

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1. **Review** Open Access Highly accessed
20045 **Metabolic adaptation to weight loss: implications for the athlete**
Accesses Eric T Trexler, Abbie E Smith-Ryan, Layne E Norton
Journal of the International Society of Sports Nutrition 2014, **11**:7 (27 February 2014)
[Abstract](#) | [Full text](#) | [PDF](#) | [ePUB](#) | [PubMed](#) | [Editor's summary](#)
2. **Research** Open Access Highly accessed
13916 **Dogs are sensitive to small variations of the Earth's magnetic field**
Accesses Vlastimil Hart, Petra Nováková, Erich Malkemper, Sabine Begall, Vladimír Hanzal, Miloš Ježek, Tomáš Kušta, Veronika Němcová, Jana Adámková, Kateřina Benediktová, Jaroslav Červený, Hynek Burda
Frontiers in Zoology 2013, **10**:80 (27 December 2013)
[Abstract](#) | [Full text](#) | [PDF](#) | [ePUB](#) | [PubMed](#) | [2 comments](#)
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13709 **Nutrient timing revisited: is there a post-exercise anabolic window?**
Accesses Alan Albert Aragon, Brad Jon Schoenfeld
Journal of the International Society of Sports Nutrition 2013, **10**:5 (29 January 2013)
[Abstract](#) | [Full text](#) | [PDF](#) | [PubMed](#) | [Cited on BioMed Central](#) | [Editor's summary](#)
4. **Research** Open Access
10703 **Decoding the massive genome of loblolly pine using haploid DNA and novel assembly strategies**
Accesses David B Neale, Jill L Wegrzyn, Kristian A Stevens, Aleksey V Zimin, Daniela Puiu, Marc W Crepeau, Charis Cardeno, Maxim Koriabine, Ann E Holtz-Morris, John D Liechty, Pedro J Martínez-García, Hans A Vasquez-Gross, Brian Y Lin, Jacob J Zieve, William M Dougherty, Sara Fuentes-Soriano, Le-Shin Wu, Don Gilbert, Guillaume Marçais, Michael Roberts, Carson Holt, Mark Yandell, John M Davis, Katherine E Smith, Jeffrey FD Dean, W Walter Lorenz, Ross W Whetten, Ronald Sederoff, Nicholas Wheeler, Patrick E McGuire, Doreen Main, Carol A Loopstra, Keithanne Mockaitis, Pieter J deJong, James A Yorke, Steven L Salzberg, Charles H Langley *et al.*
Genome Biology 2014, **15**:R59 (20 March 2014)
[Abstract](#) | [Provisional PDF](#) | [Editor's summary](#)

<http://www.jissn.com/content/11/1/7>

5. **Research article** Open Access Highly accessed

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regulation of innate
immune response in
rheumatic diseases

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smoking cessation in
relation to risk of
rheumatoid arthritis in
women

Granulocyte colony
stimulating factor

Visibility for BioMed Central authors

- 20 million page views a month
- 4 million user sessions per month
- Over 1 million registered users
- Over 400,000 recipients to fortnightly BioMed Central newsletter
- 13,000 new registrants a month
- Springer platform (16,000 customers, 13 million users)

Editors/journal owners...

- More and more journals transfer to OA publication
- Wider dissemination and more international reach
- Increase in number and quality of submissions
- Improvement of bibliometric performance / impact factor
- Increasing demand from authors within mandating institutions/funding bodies
- APCs can be lower than colour or page charges in subscription journals

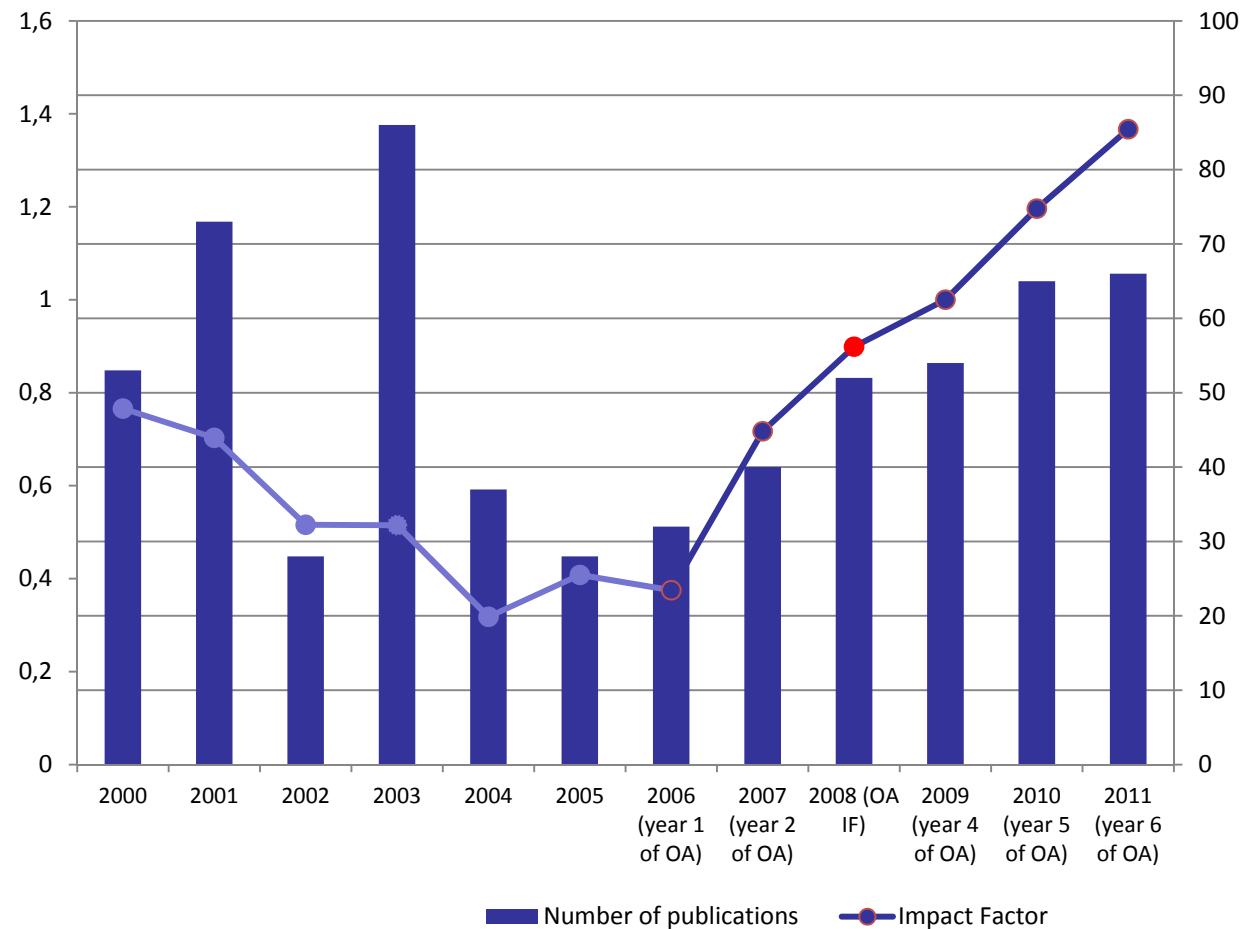
Editor's quote

“Acta Veterinaria Scandinavica moved to BioMed Central in 2006, along with its Impact Factor. As an effect of the much improved visibility of the journal's content we have seen a significant rise in submissions, often from countries where researchers would not have considered publishing with us in the past.”

Mats Forsberg, Editor-in-Chief (2005 – 2012)

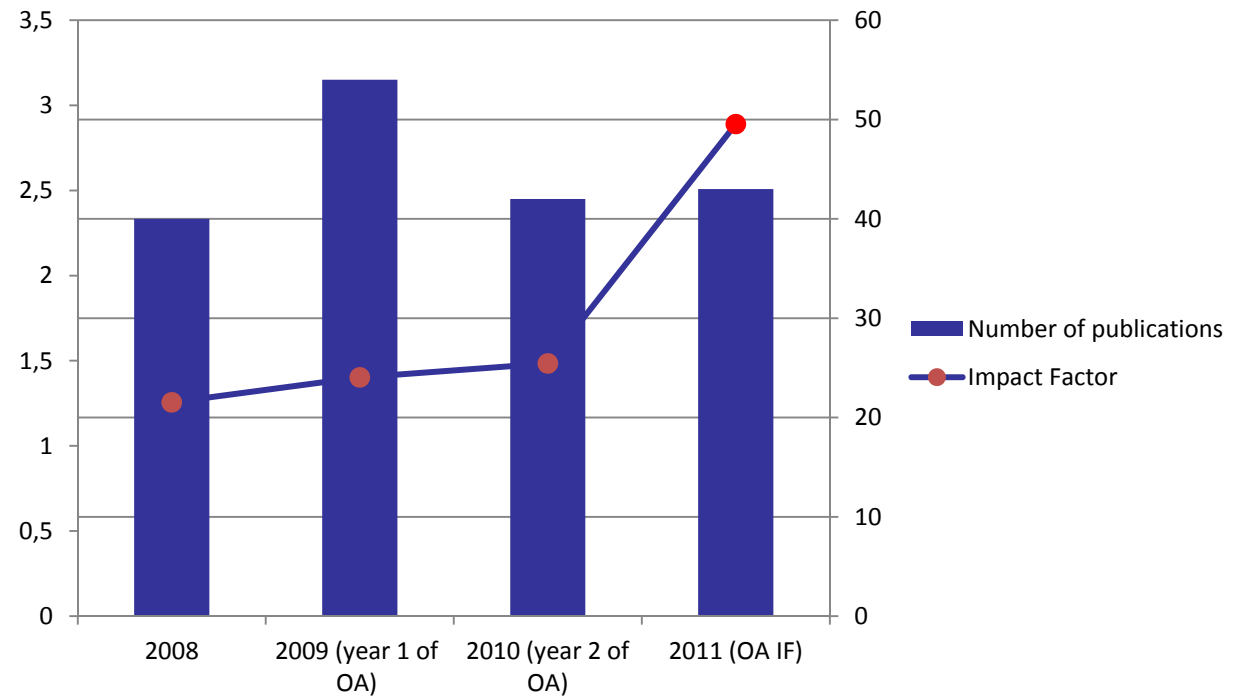
Case study 1: *Acta Veterinaria Scandinavica*

- Fifty year old journal
- Transferred 2006
- Impact Factor has increased more than 3x due to open access effect

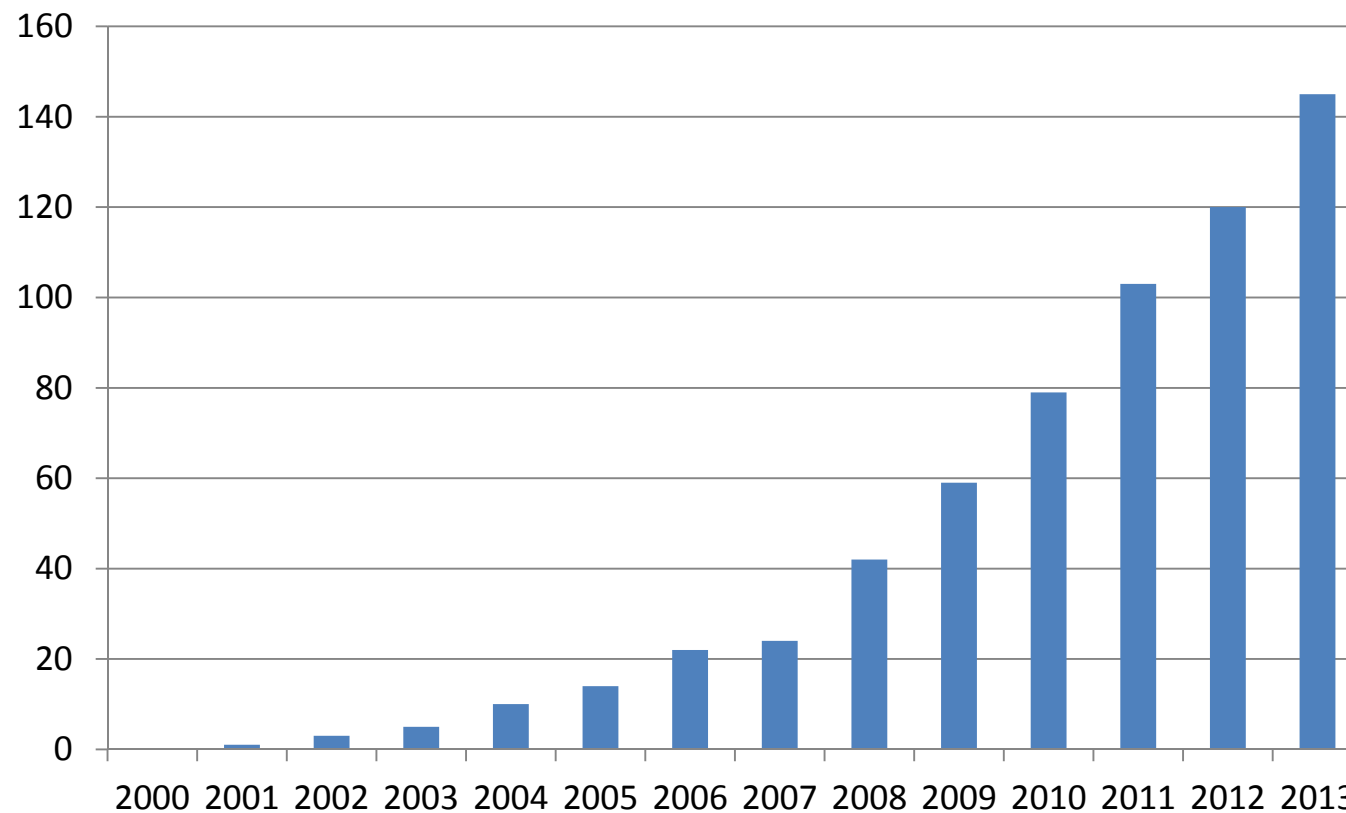


Case Study 2: *Genetics Selection Evolution*

- Now in its 45th volume
- Moved to open access in 2009
- Impact Factor has doubled since then



BioMed Central Impact Factors



BioMed Central Impact Factors

Genome Biology	10.3
BMC Biology	6.53
BMC Genomics	4.40
BMC Medicine	6.68
BMC Public Health	2.08
Breast Cancer Research	5.87
Critical Care	4.72
Stem Cell Research & Therapy	3.65
BMC Plant Biology	4.65
Journal of Translational Medicine	3.46
Malaria Journal	3.40
Parasites & Vectors	3.25
Arthritis Research & Therapy	4.30
Retrovirology	6.47



Agenda

- Overview of open access today
- Benefits of open access
- **Open access at Springer**
- Open access at Ankara University

Open Access publishing at Springer

Author Rights / Green route

- Self-archiving of author's accepted version

Hybrid open access

- Springer Open Choice
- Creative Commons

'Full' OA

-  **BioMed Central**
The Open Access Publisher
-  **Springer Open**
-  **Chemistry Central**
open access to chemistry
- **Books** (NEW!)
- Creative Commons

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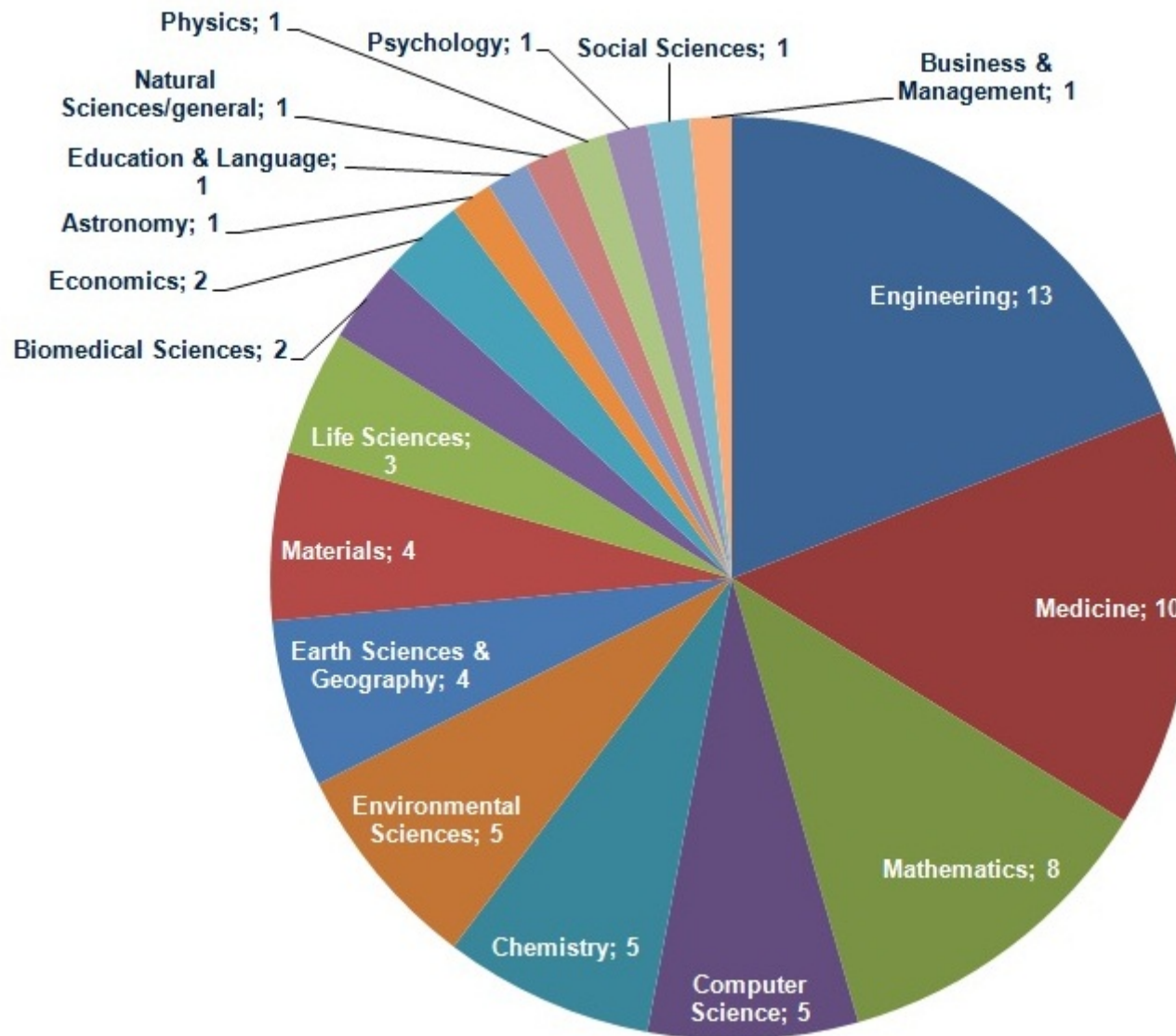
BioMed Central

- Launched first open access journal in 2000
- Now publishes 260+ OA titles
- Over 140,000 peer-reviewed OA articles published
- More than 10 million article downloads per month
- Creative Commons
- Costs covered by 'article processing charge' (APC)
- Became part of Springer in 2008
- SpringerOpen

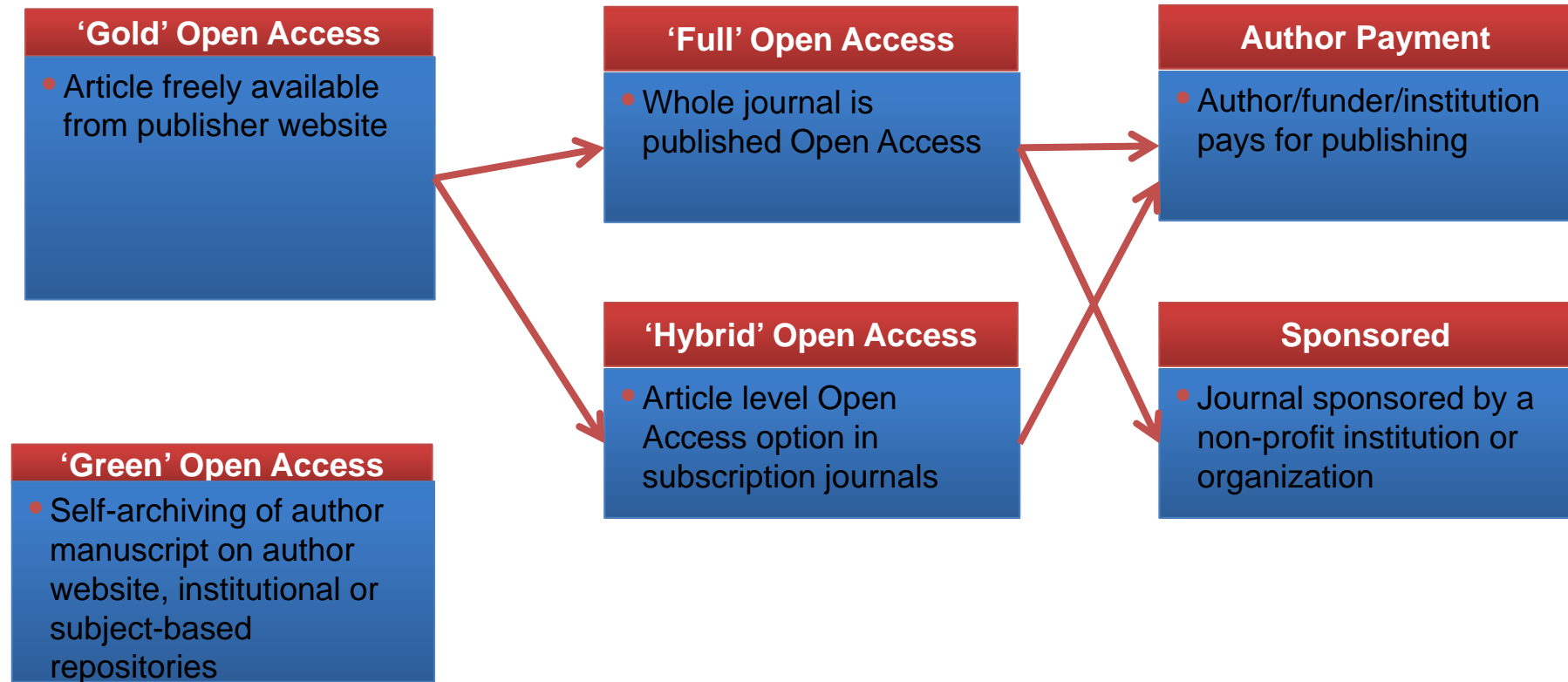
SpringerOpen[®]

- Open access journals covering all disciplines
- Creative Commons
- 127 journals already, 15 already have impact factors
- Administered by BioMed Central

SpringerOpen subject fields



Models of Open Access Publishing



The business model

- No subscription revenue
- Small amount of revenue from reprints and advertising.
- Revenue from APCs - payable on editorial acceptance of articles
- APCs paid from..
 - research grants
 - by research funders
 - universities
 - societies
 - governmental agencies
 - charities
- Membership...

Article-processing charges

The article-processing charge covers:

- **Editorial:** handling of manuscripts
- **Technical:** development, maintenance and operation of online journal platforms and manuscript handling systems
- **Production:** Formatting and mark up of articles, inclusion in indexing services
- **Marketing:** Making sure readers and authors know about the journal
- **Customer service:** Responding to authors/readers

No extra charge for inclusion of colour figures, videos/animations or large data sets (no limits on article length)

BioMed Central and SpringerOpen Institutional Agreements

Prepay Agreement

- Organisation covers the article cost (APC) for their researchers by deposit
- No membership fee
- Researchers do not pay anything
- Discount on the APC for institution
- Deposit available without time limits

Shared Support Agreement

- Cost shared equally between institution and researcher
- No membership fee
- Additional discount on APC's for researchers
- Deposit available without time limits

Supporter Agreement

- Organisation does not cover the APC for the researchers
- Annual membership fee for institution
- 15% discount on APC's – researchers pay less

For all agreement types:

- Automated article feeds
- Institutional Members Page
- Marketing and PR support
- Automatic IP recognition or submission by code

Members

BioMed Central now has 469 Members in 52 countries. Browse our Members and their pages by country below, or search for a particular organization using the search box on the right. Each Member's page lists the articles published by its authors in a BioMed Central, Chemistry Central and SpringerOpen journal.

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Czech Republic (1)	Italy (16)	Norway (4)	Uganda (1)
Denmark (2)	Kenya (3)	Poland (2)	United Kingdom (49)
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The Scientific Publishing Sting: a Missed Opportunity?

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Flawed sting operation singles out open access journals

by Martin Eve, The Conversation



Isn't open access better? Credit: fuzzcaminski

In a sting operation, John Bohannon, a correspondent of *Science*, claims to have exposed dodgy open access journals. His argument seems to be that, because of their business model, some journals are biased towards accepting scientific articles, regardless of their quality. Sadly, Bohannon's operation adds little to what we already know.

Much new knowledge, often created by the

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What happened?

- Versions of a fake science paper submitted to 304 Open Access journals, claiming miracle cure for cancer had been found
- Papers include very serious mistakes; experiments are obviously flawed and therefore meaningless
- Of 304 journals..
 - 255 said that they would review the study
 - 157 journals accepted the paper to be published.

What does this mean?

- Bad news for Open Access?
The study did not include any non-OA journals
Where is the fair comparison??
- Peer Review system is flawed
- It's the ethics of the publisher / journal, not the business model that determines quality and sound publishing and peer review
- BioMed Central, Plos and Hindawi rejected the paper
- Remember to please be aware of....



Predatory Open Access Publishers

Beall's List: Potential, possible, or probable predatory scholarly open-access publishers

- Ethical standards established by membership organisations such as OASPA (Open Access Scholarly Publishers Association) or COPE
- Editor and staff
- Business management
- Integrity

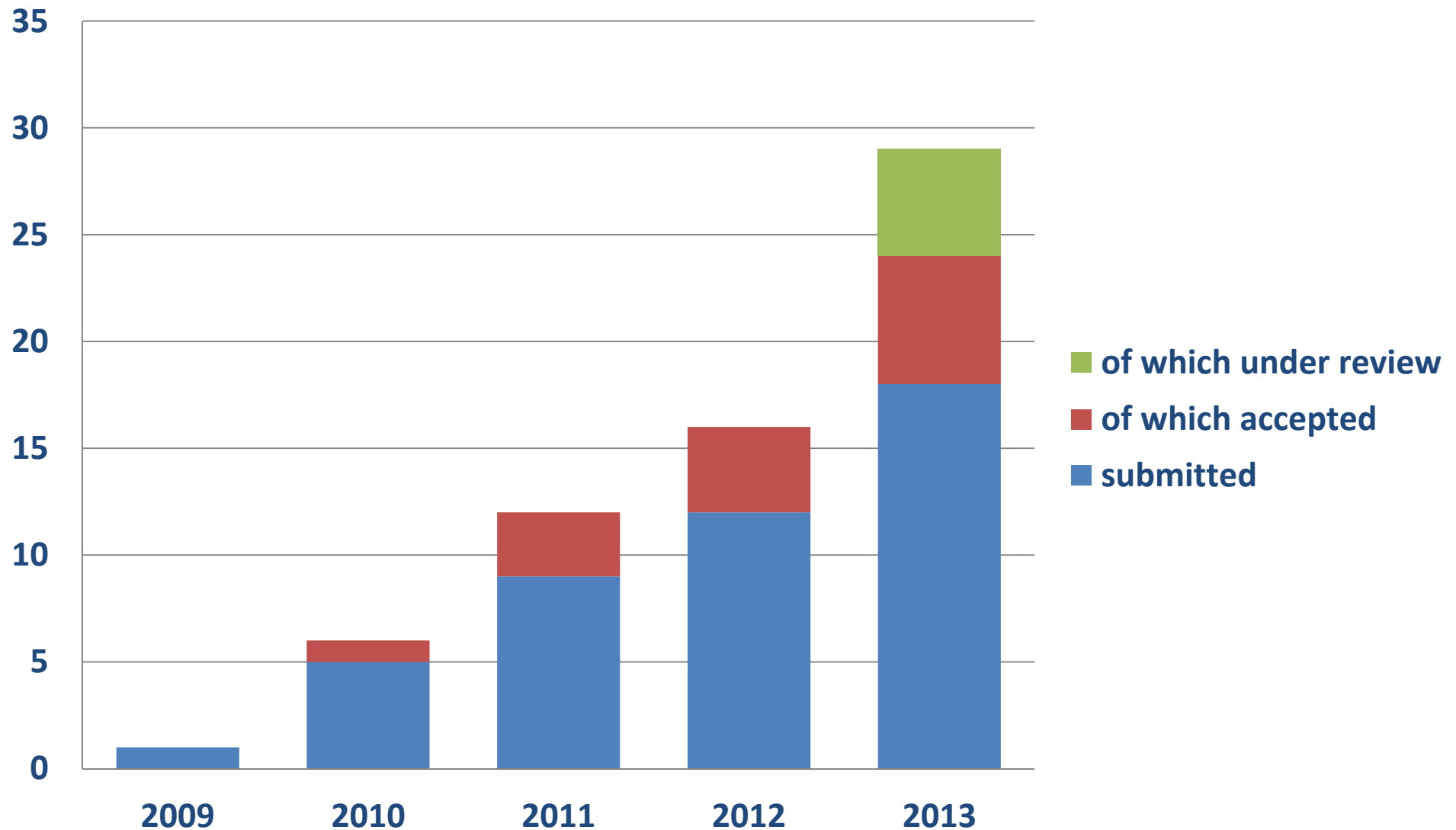
.... predatory publishers



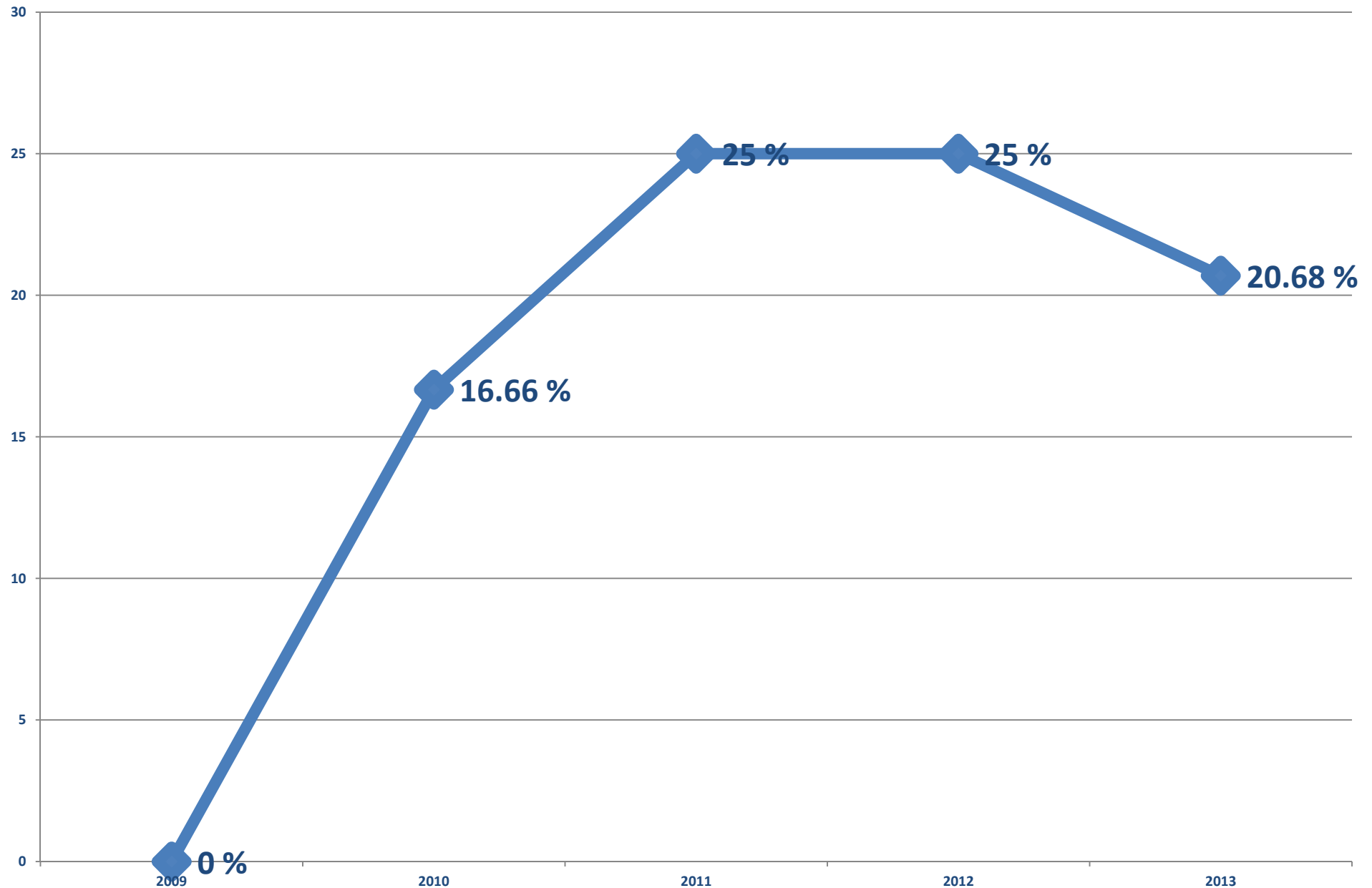
Agenda

- Overview of open access
- Benefits of open access
- Open access at Springer
- **Open access at Ankara University**

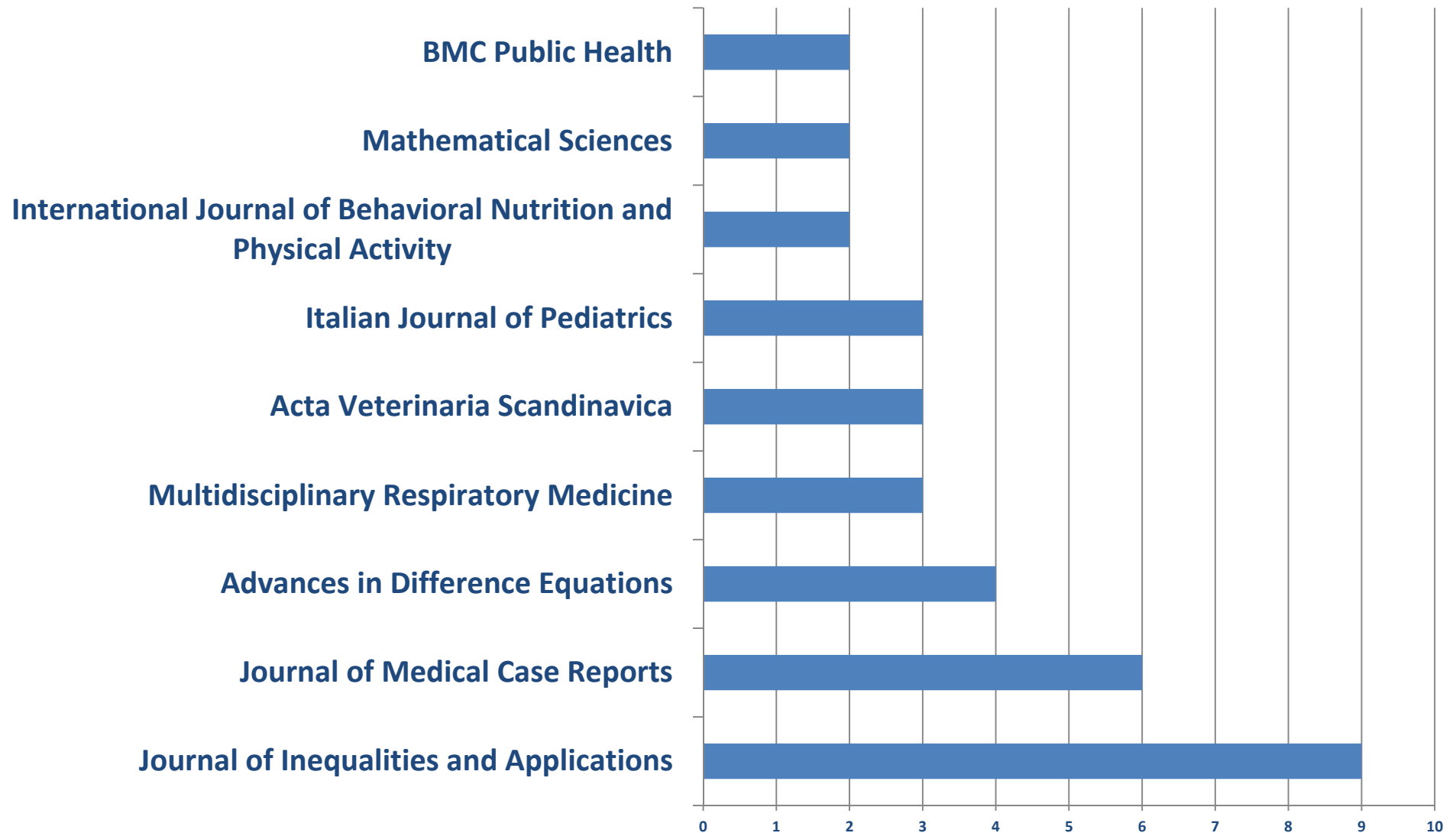
BMC submissions by first author



Acceptance rate



Most popular journals for submissions



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Berinde V and Păcurar M
Journal of Inequalities and Applications 2014, **2014**:149 (11 April 2014)

Research [Open Access](#)

High order Riesz transforms and mean value formula for generalized translate operator

Ekincioglu I, Sayan HH and Keskin C
Journal of Inequalities and Applications 2014, **2014**:148 (11 April 2014)

Research [Open Access](#)

Certain Grüss type inequalities involving the generalized fractional integral operator

Wang G, Agarwal P and Chand M
Journal of Inequalities and Applications 2014, **2014**:147 (9 April 2014)

Research [Open Access](#)

Proximality in Banach space valued Musielak-Orlicz spaces

Xu J
Journal of Inequalities and Applications 2014, **2014**:146 (9 April 2014)

Research [Open Access](#)

Aims & scope



The aim of this journal is to provide a multi-disciplinary forum of discussion in mathematics and its applications in which the essentiality of inequalities is highlighted. This Journal accepts high quality articles containing

original research results and survey articles of exceptional merit. Subject matters should be strongly related to inequalities, such as, but not restricted to, the following: inequalities in analysis, inequalities in approximation theory, inequalities in combinatorics, inequalities in economics, inequalities in geometry, inequalities in mechanics, inequalities in optimization, inequalities in stochastic analysis and applications.

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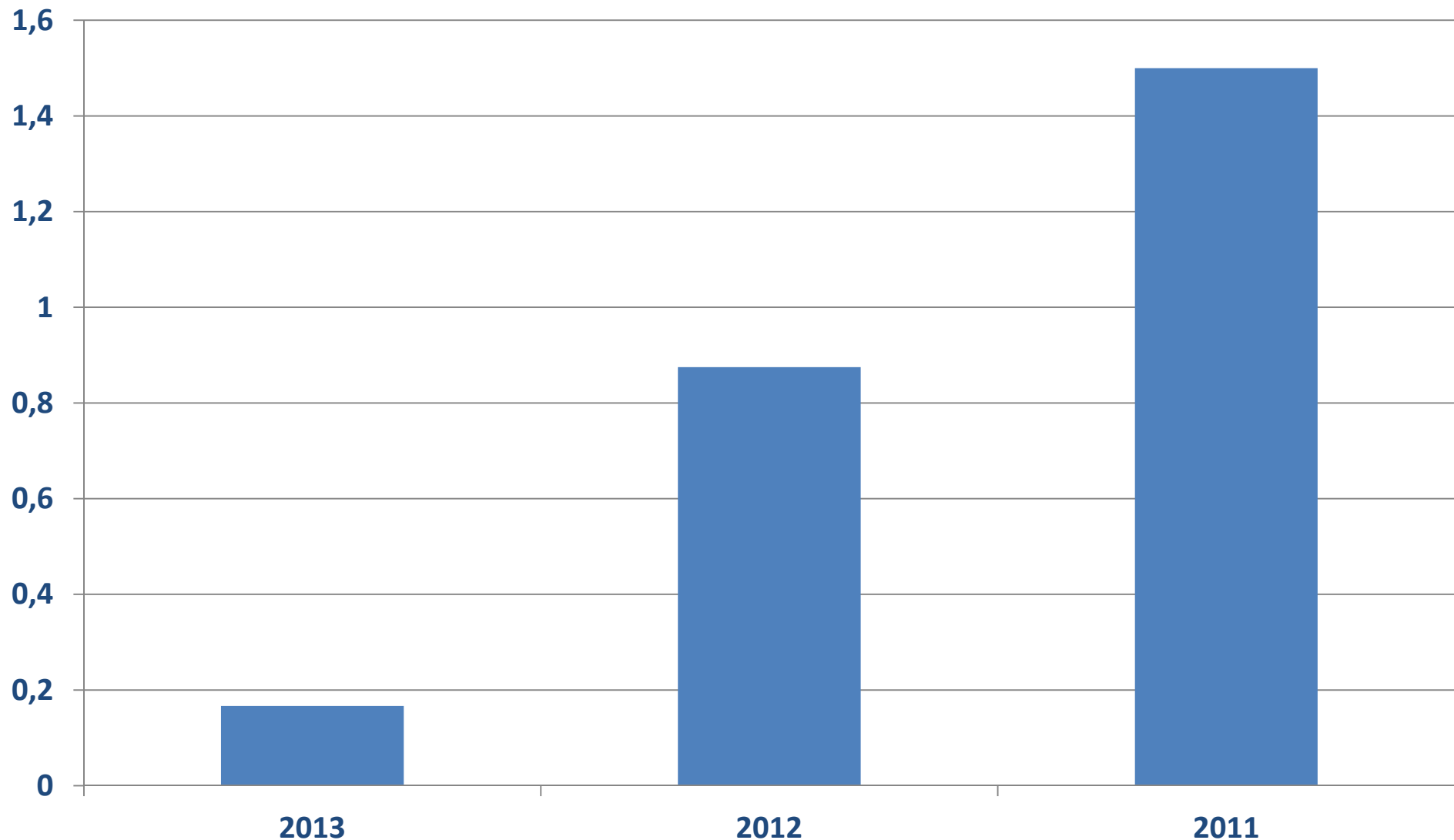
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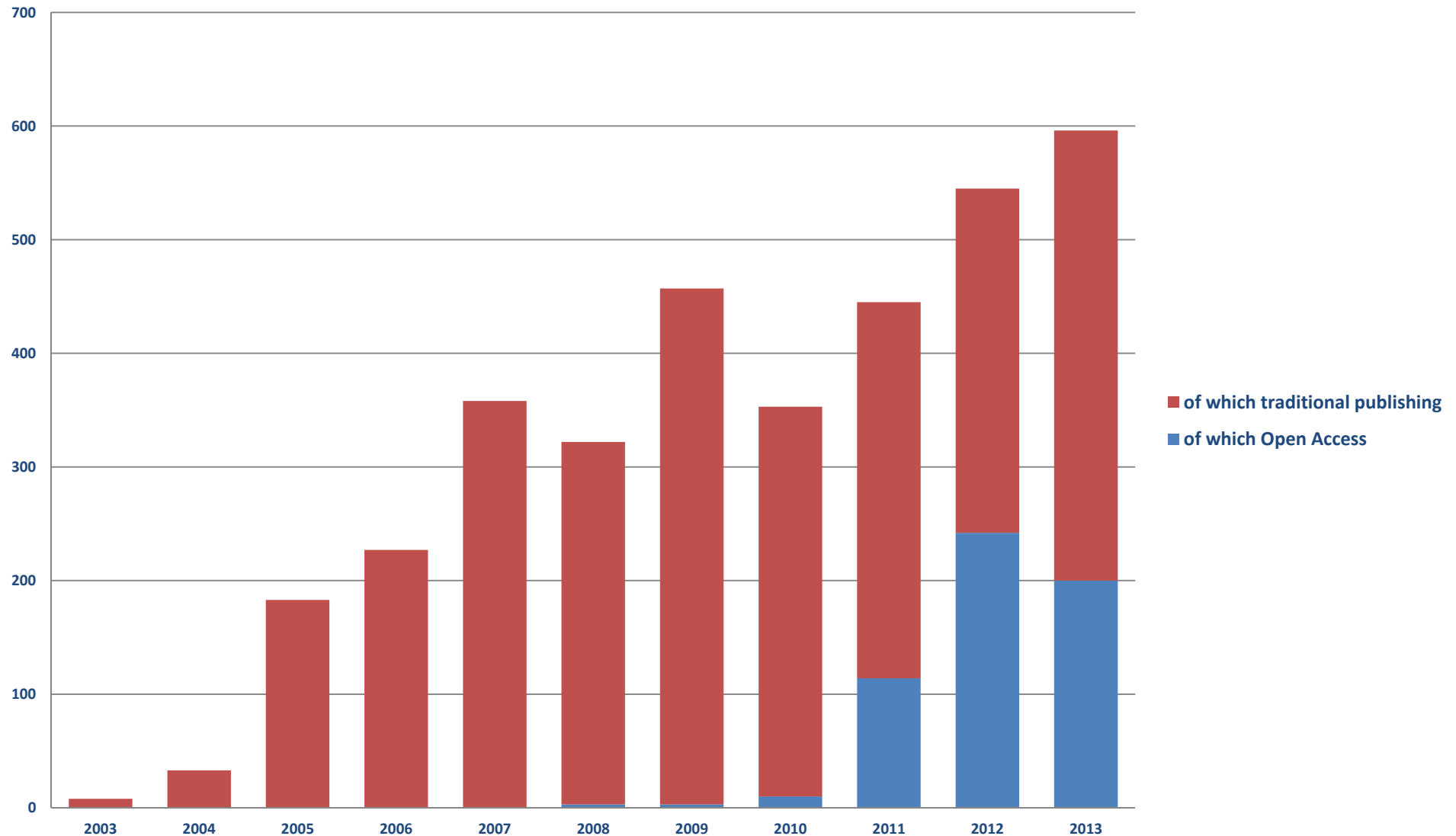
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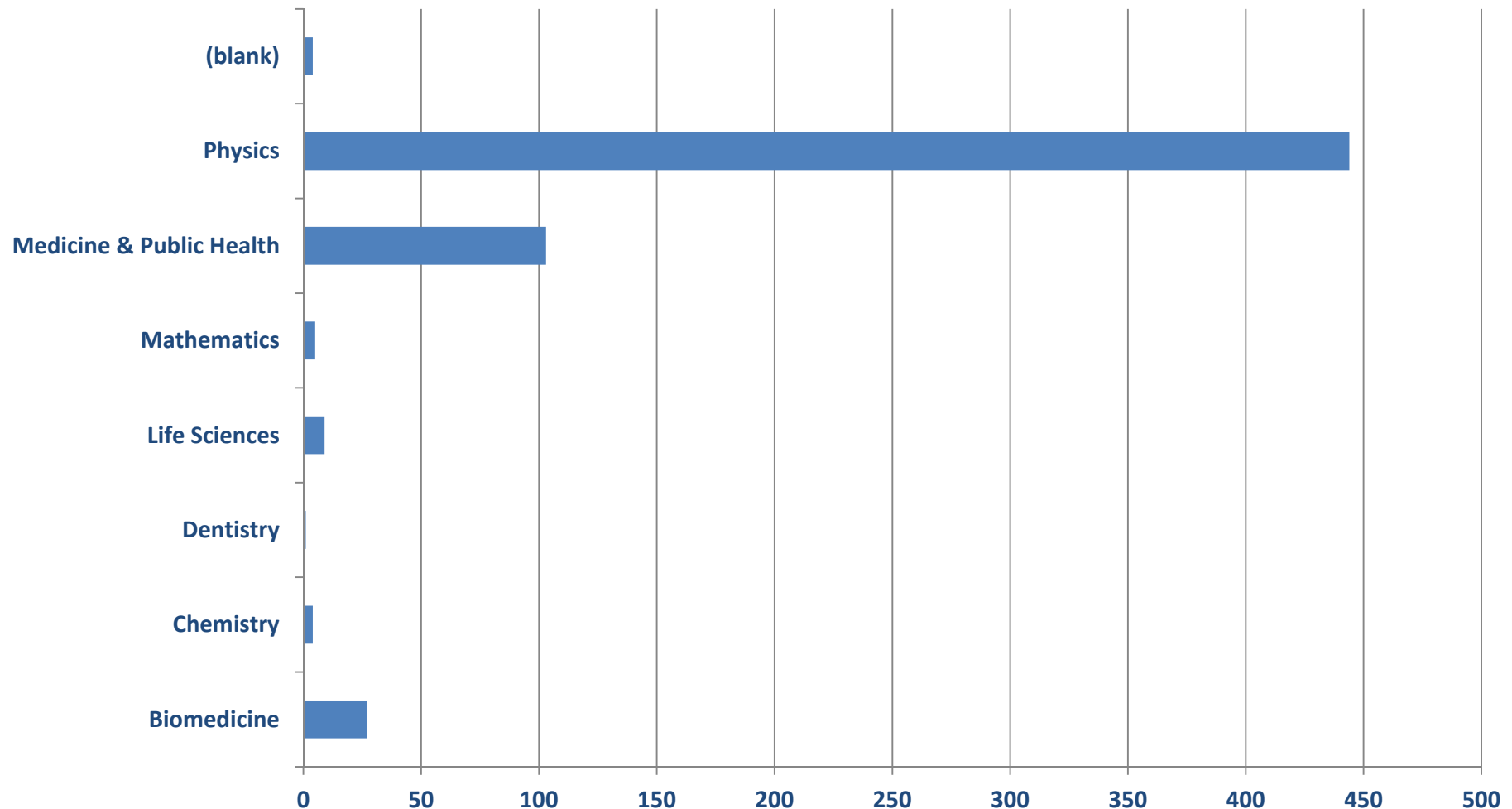
Average citations for articles published each year ^{Springer}



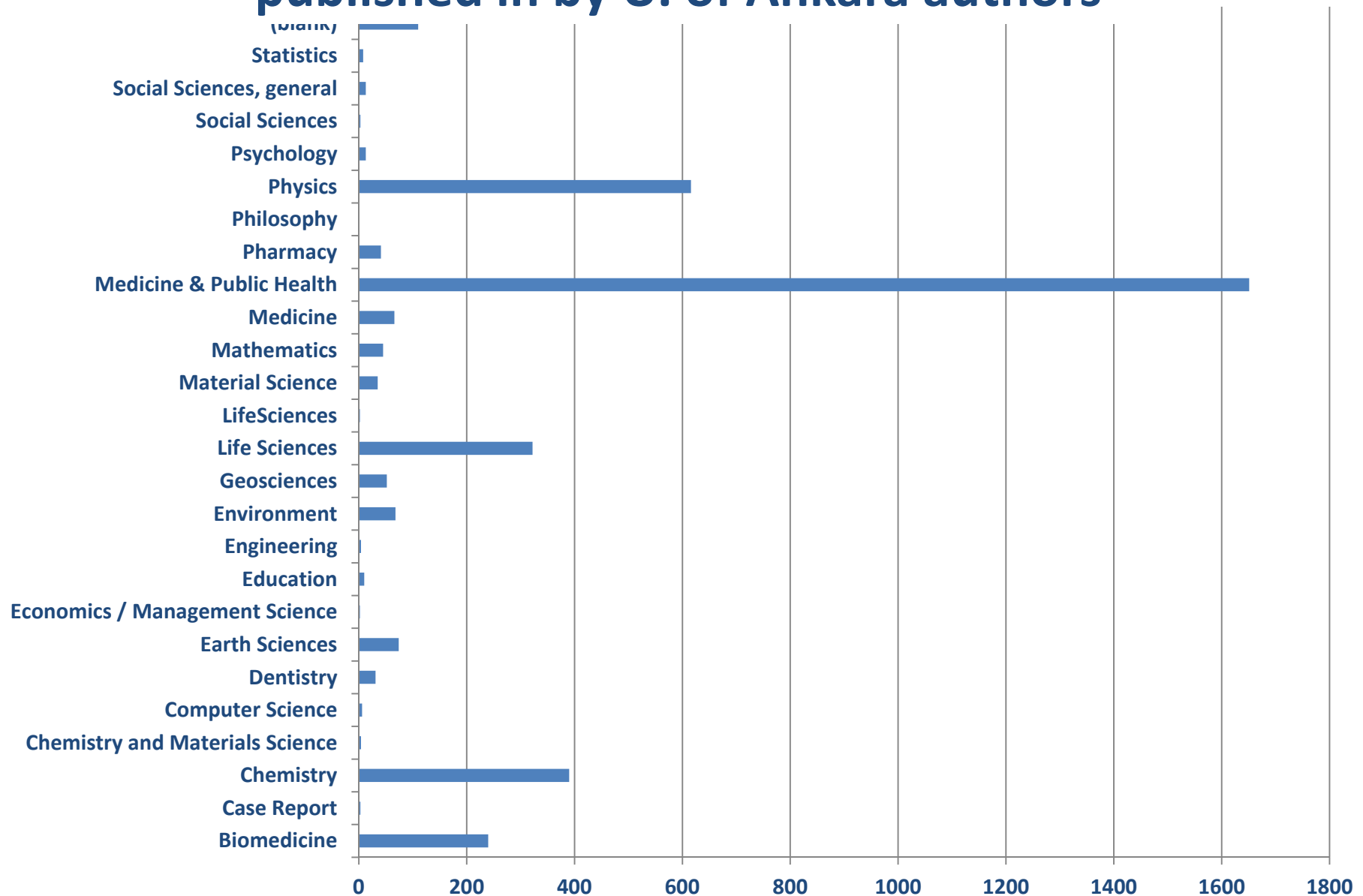
Publications from Ankara University in all of Springer



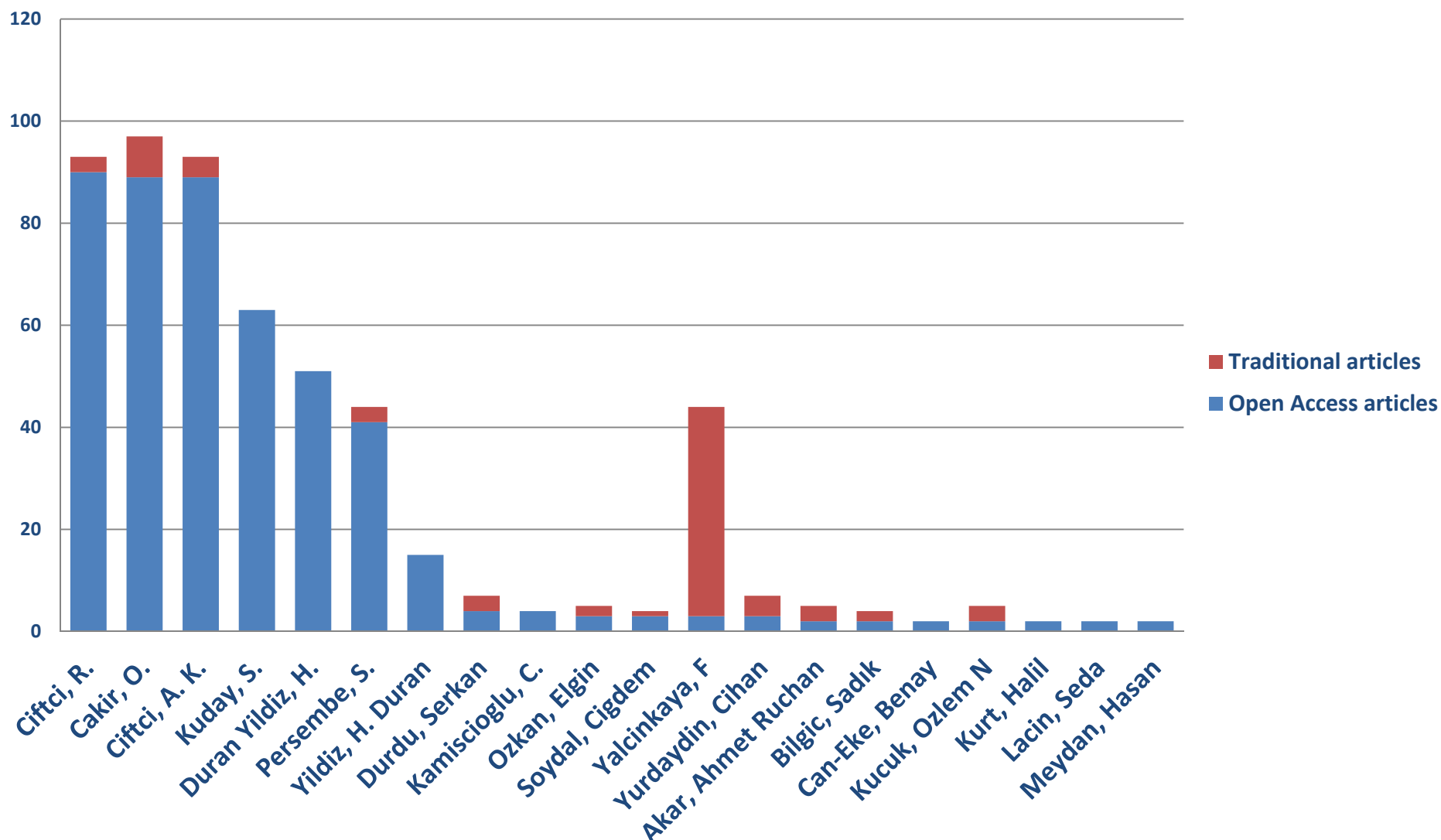
Subject areas for Open Access journals at Springer published in by U. of Ankara authors



Subject areas for all Springer journals published in by U. of Ankara authors

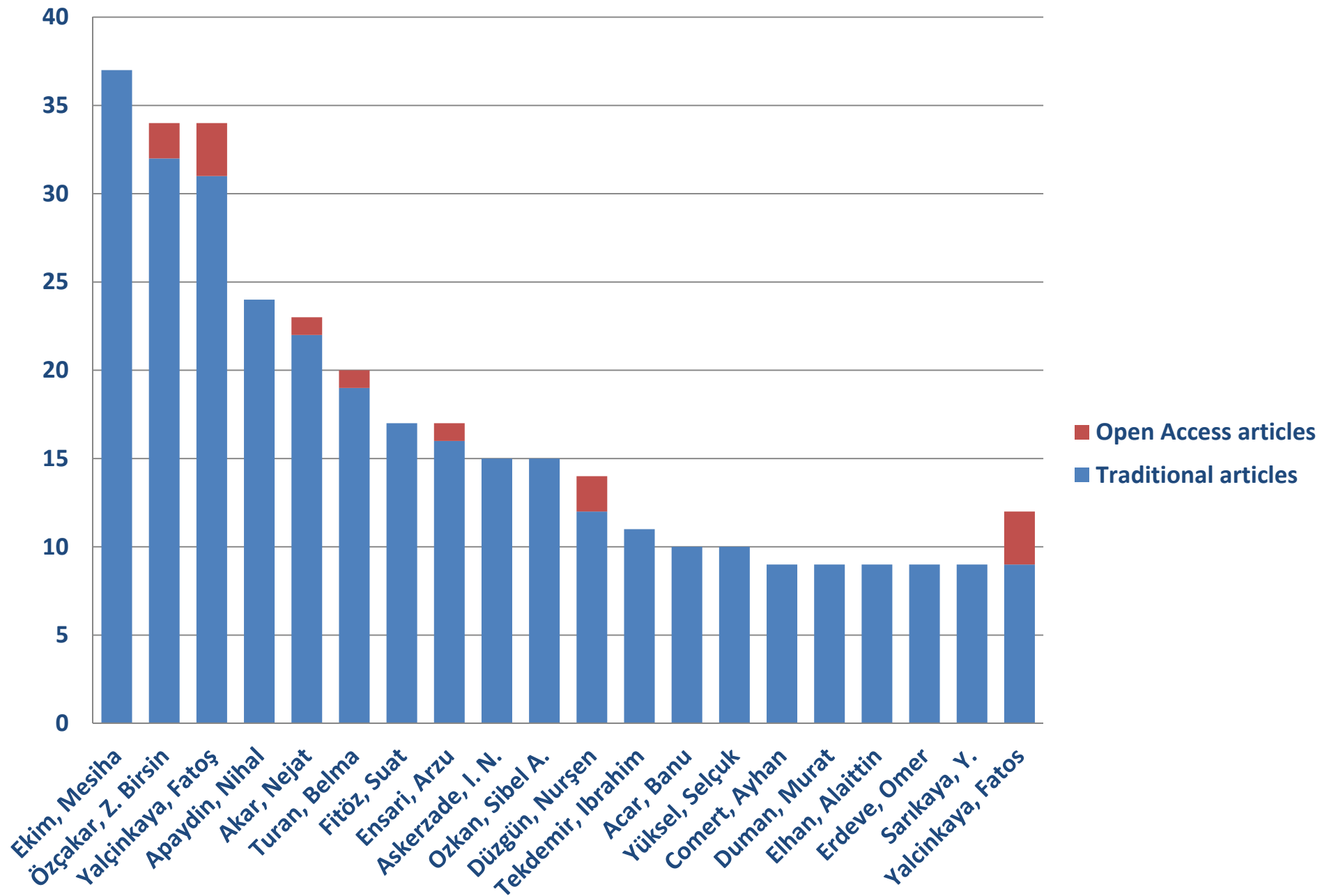


Top 20 authors for Open Access articles at Springer

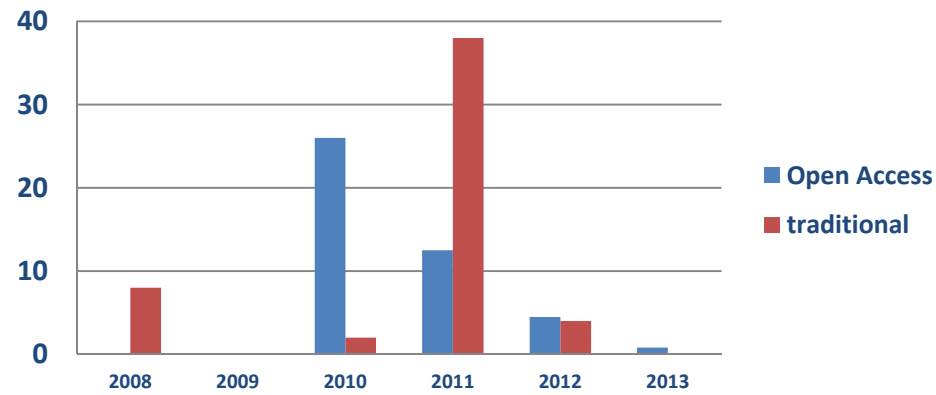




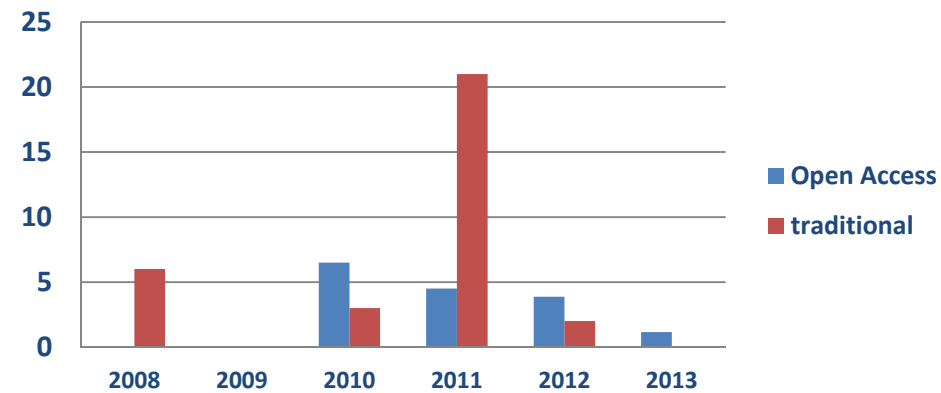
Top 20 authors for traditional articles at Springer^{inger}



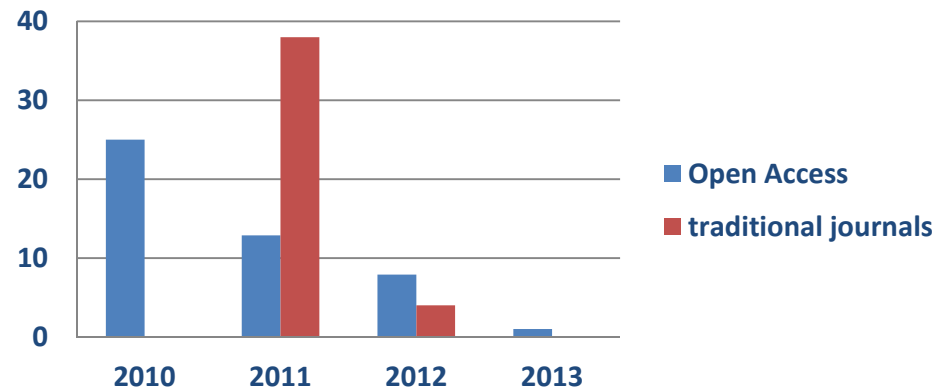
Cakir, O.: Average citations per article from WoS



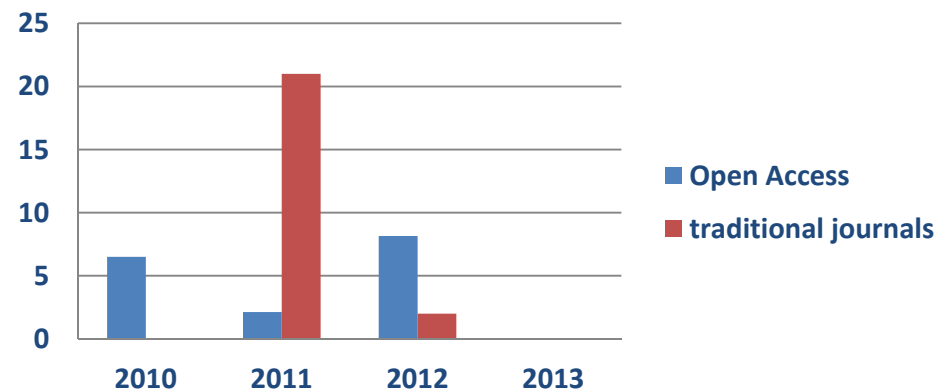
Cakir, O.: Average citations per article from Scopus



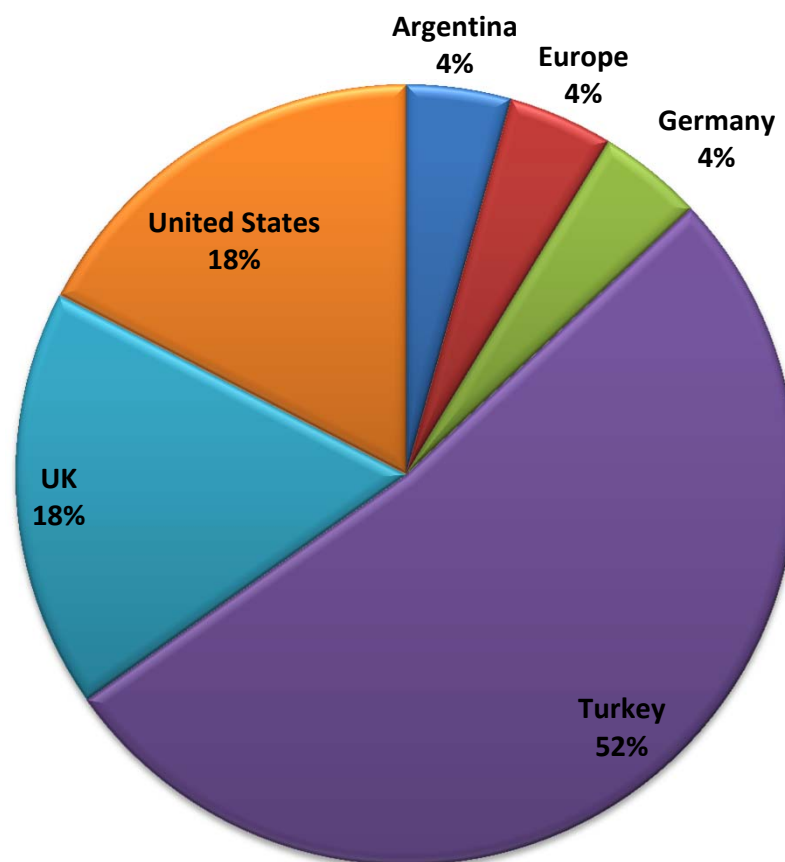
Perşembe, S.: Average citations per article from WoS



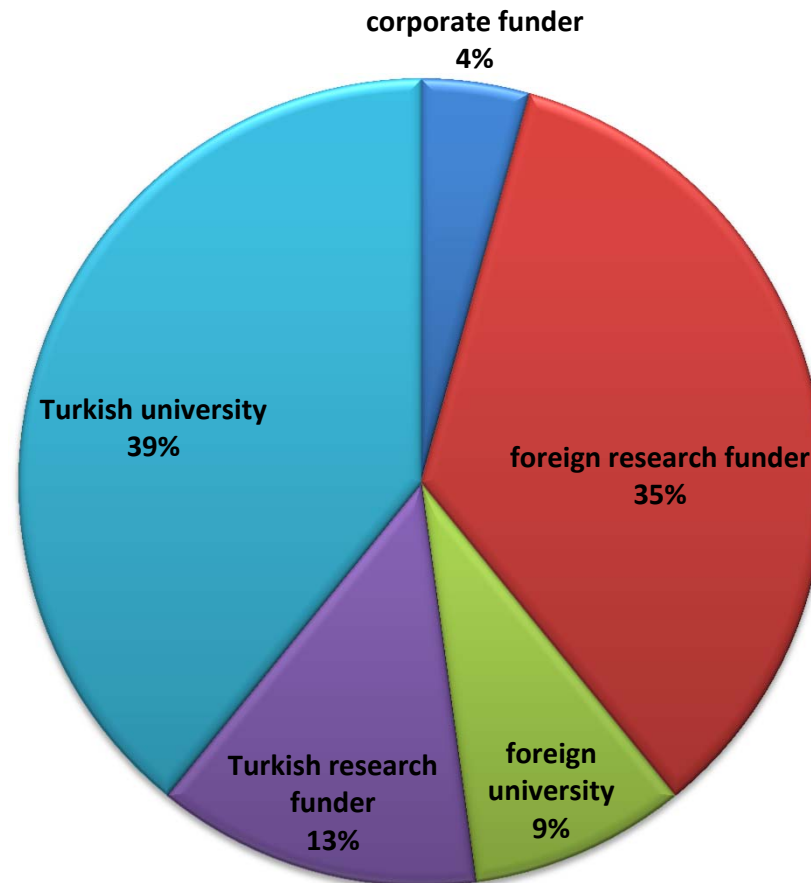
Perşembe, S.: Average citations per article from Scopus



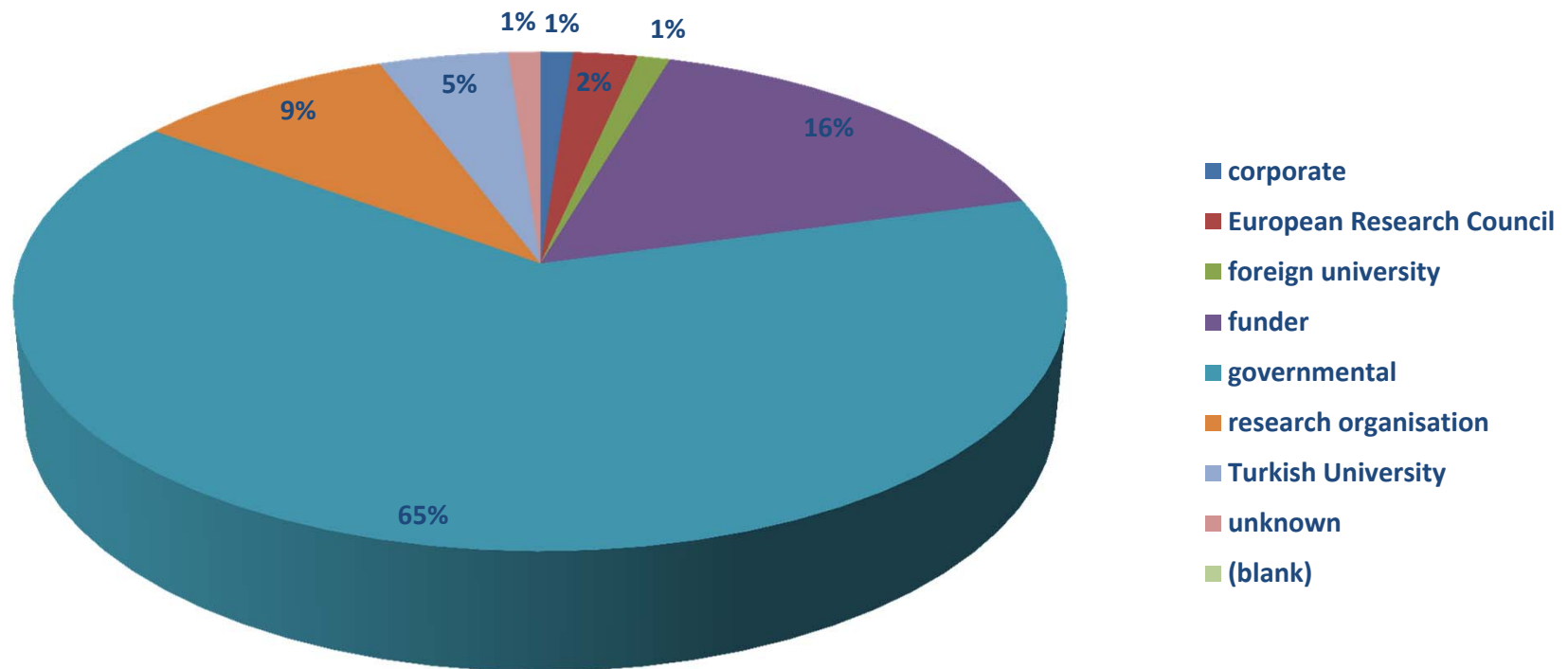
Origin of funding by country – BMC articles



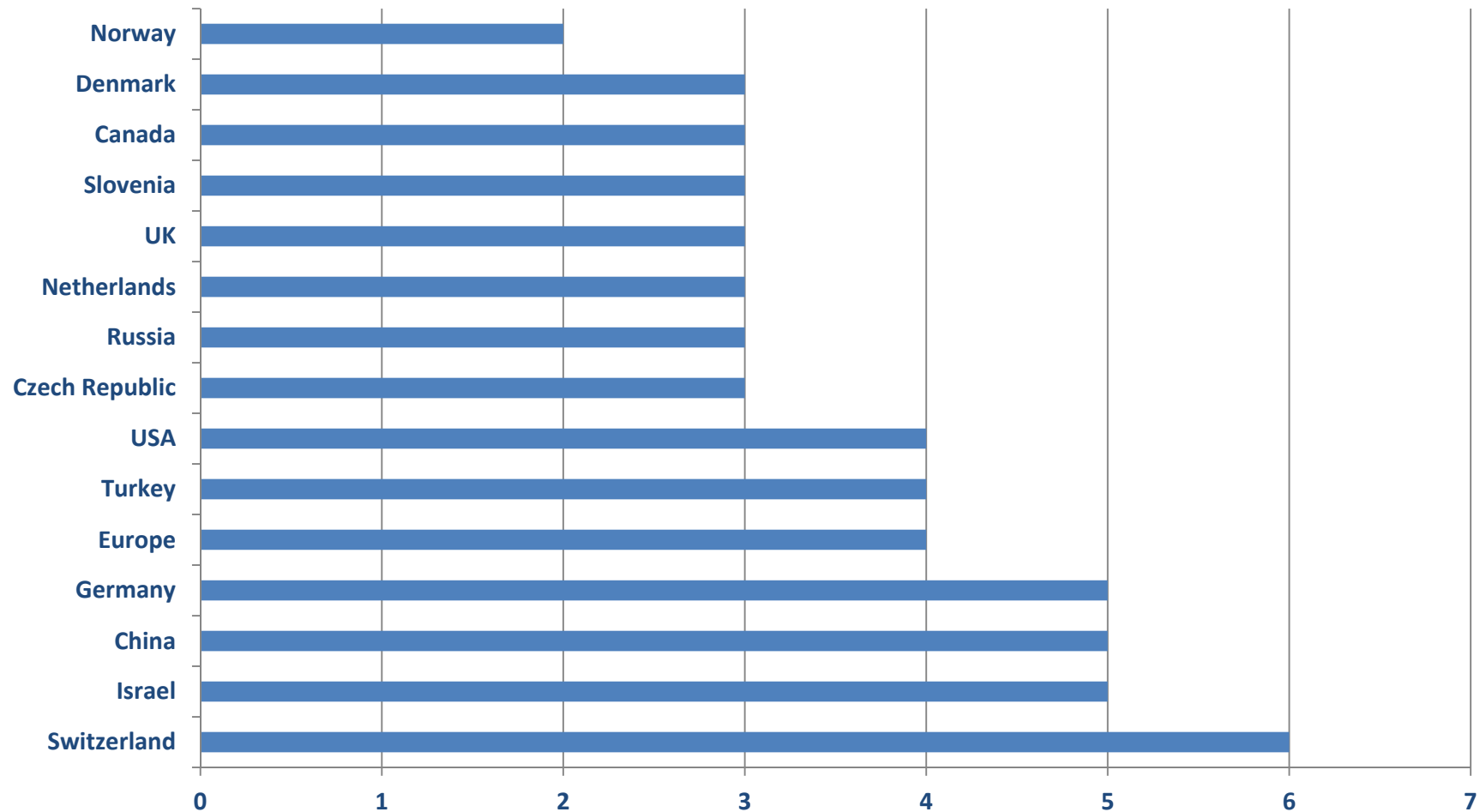
Origin of funding by organisation type – BMC articles



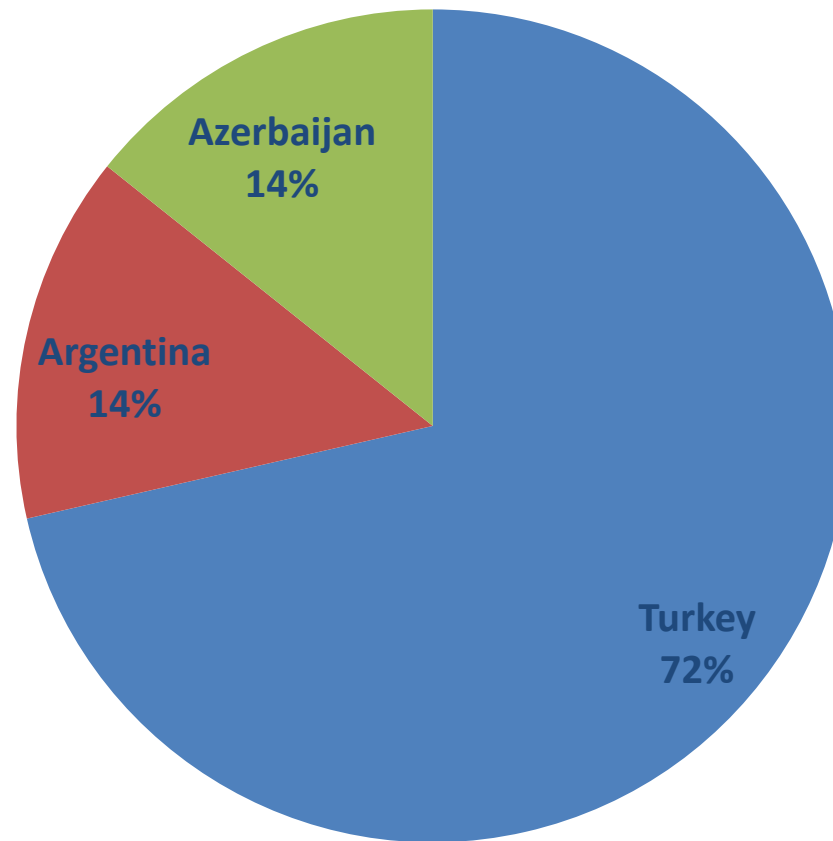
Funders of all Open Access content at Ankara U. in 2013 by organisation type



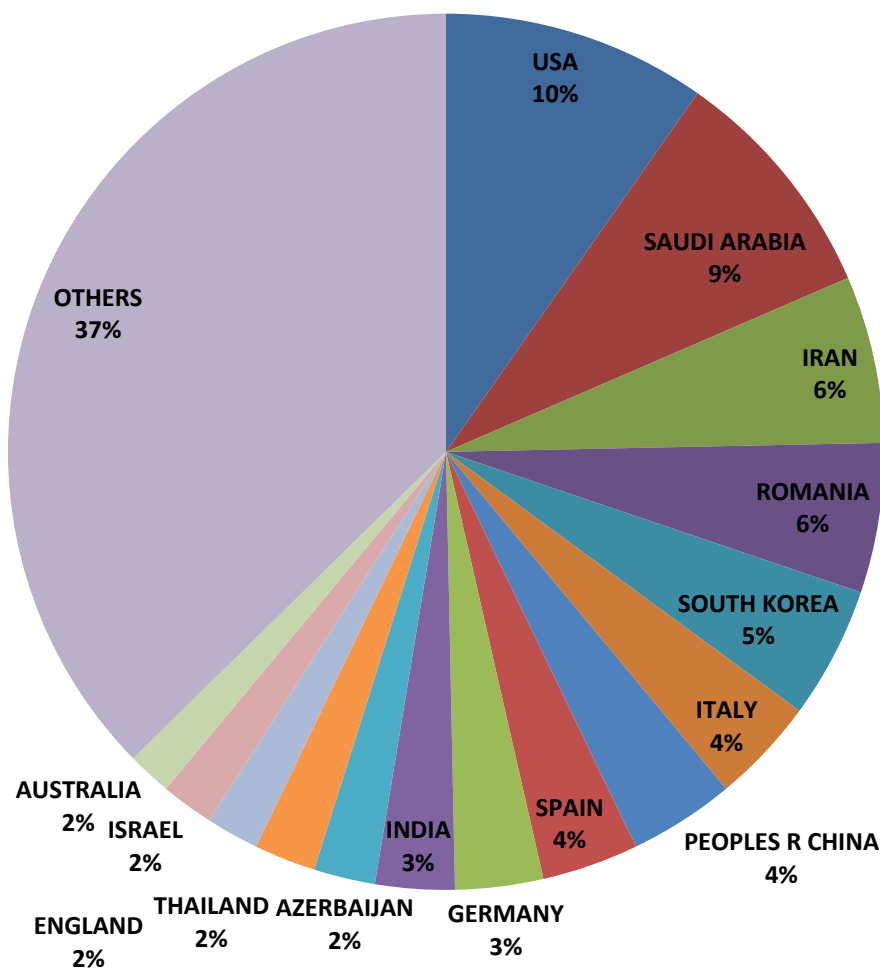
Top 15 funders of non Open Access content at Ankara U. in 2013 by country



Contribution to Turkish Open Access projects at Ankara University in 2013



Foreign contribution to all Turkish Open Access projects in 2013 (Web of Science)



Data analyses for Ankara University (based on internal data)

- BMC submissions growing rapidly – acceptance rate still relatively low
- For BMC, the most active subject areas are Medicine and Mathematics
- Citation advantage for BMC articles strongest after 1 year
- Springer: strongest area for OA is Physics and for traditional publishing it is Medicine
- OA in Turkey only starting to grow considerably since 2011 – developments for 2014?
- Certain authors publish both OA as well as traditional articles, but most only in one or the other
- Comparison of citations difficult as based on low number of articles for a few authors who publish under both models but: citations for OA articles can be as high or higher than publications under the traditional model

Analyses continued... (based on WoS + Scopus)

- Funding for OA articles at Ankara U. at BMC originated mostly from the UK and US (besides Turkey) and from foreign research funders where organisation type was concerned
- All OA content at Ankara U.: funded by government agencies and research funders; and by Germany and Israel (after Turkey)
- Non OA content was mostly funded by Switzerland and Israel as well as China
- All over Turkey, the US and Saudi Arabia were the most common countries researchers tended to collaborate with
- Azerbaijan and Argentina have strong ties with researchers from Ankara University

Summary

- Open access publishing is growing fast, also in Turkey and gaining more and more importance due to its benefits for the researchers, funding agencies, institutions and the general public
- Increasing quality and recognition of open access journals are encouraging this development
- BioMed Central and SpringerOpen work closely with authors and organisations to encourage open access and to make sure we provide the service and quality they are looking for in publishing
- However, Polish researchers still find it difficult to obtain funding for fully open access journals
- Although OA is growing in Turkey and at Ankara University, more can be done to encourage it and make the most of its benefits

Thank you!
Any questions?

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