Εναλλακτικοί δείκτες απήχησης: ανάλυση άρθρων που δημοσιεύθηκαν από μέλη του ΑΠΘ κατά το διάστημα 2010-2016

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Περιεχόμενα

- Εκτίμηση αντίκτυπου και παραδοσιακοί δείκτες
- Altmetrics: ένα νέο εργαλείο παρακολούθησης της επιρροής
- Η παρούσα έρευνα
- Τελικές εκτιμήσεις

Μέτρηση απήχησης

Αυτοαξιολόγηση

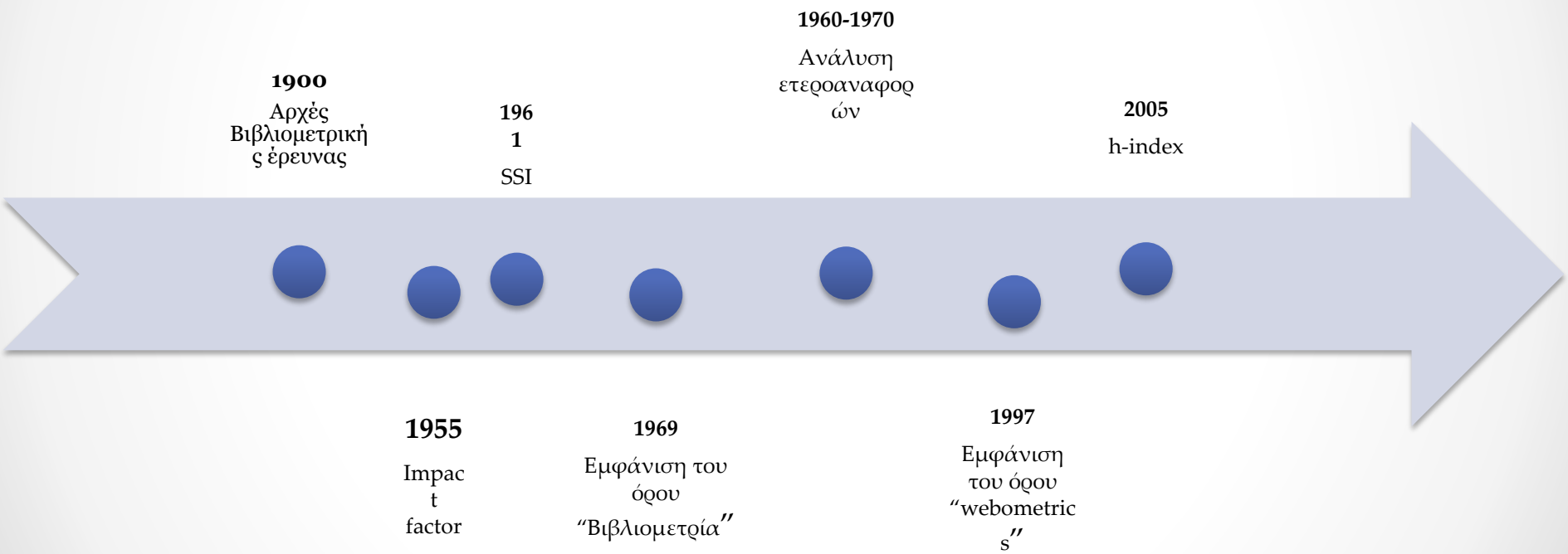
Λογοδοσία

Χρηματοδότηση

Σχεδιασμός

(Penfield et al., 2014)

Παραδοσιακοί δείκτες



Οι ετεροαναφορές λένε μόνο ένα μέρος της ιστορίας

IMPACT FACTORS: USE AND ABUSE

M. Amin & M. Mabe
Elsevier Science

Counting on citations: a flawed way to measure quality

Garry Walter, Sidney Bloch, Glenn Hunt and Karen Fisher

Some considerations on the use of the impact factor of scientific journals as a tool to evaluate research in psychology

JULIA OSCA LLUCH

Impact Factor
Good Reasons for Concern

Moyses Szklo

Understanding the Limitations of the Journal Impact Factor

Andrew P. Kurmis
J Bone Joint Surg Am. 85:2449-2454, 2003.

Why the impact factor of journals should not be used for evaluating research

Per O Seglen

Impact factor: a valid measure of journal quality?

By Somnath Saha, M.D., M.P.H.
sahas@ohsu.edu
Assistant Professor

Advantages and limitations in the use of impact factor measures for the assessment of research performance in a peripheral country

MARIA BORDONS, M. T. FERNÁNDEZ, ISABEL GÓMEZ

Centro de Información y Documentación Científica (CINDOC-CSIC), Madrid (Spain)

San Francisco Declaration on Research Assessment

Putting science into the assessment of research

Altmetrics:

Νέα εργαλεία μέτρησης της απήχησης

altmetrics

altmetrics: a manifesto

No one can read everything. We rely on filters to make sense of the scholarly literature, but the narrow, traditional filters are being swamped. However, the growth of new, online scholarly tools allows us to make new filters; these altmetrics reflect the broad, rapid impact of scholarship in this burgeoning ecosystem. We call for more tools and research based on altmetrics.

Altmetrics	Παραδοσιακοί δείκτες
Περιοδικά, social media, news outlets, γκρίζα βιβλιογραφία κ.λπ.	Περιοδικά
Ετεροαναφορές, mentions, views/downloads,	Ετεροαναφορές
Άρθρα, data sets, παρουσιάσεις κ.λπ.	Άρθρα περιοδικών
Ανοιχτά δεδομένα-διαφανής υπολογισμός	Συνδρομητικές πηγές-αδιαφανείς αλγόριθμοι
Επιστήμονες, επαγγελματίες, δημοσιογράφοι, ευρύ κοινό κ.λπ.	Επιστήμονες
Ταχύτητα, αμεσότητα	Μεγάλο citation window

Altmetrics: τι γνωρίζουμε μέχρι σήμερα

- **Χαμηλή κάλυψη** (e.g., Alperin, 2015; Costas et al., 2014, 2015; Haustein, Costas, et al., 2015; Priem, Piwowar, & Hemminger, 2012)

- **Η κάλυψη αυξάνεται με τον χρόνο** (e.g., Bar-Ilan et al., 2012; Haustein, Peters, Sugimoto, et al., 2014)

- **Διαφορές μεταξύ επιστημονικών πεδίων και τύπων δημοσιεύσεων** (e.g., Costas et al., 2014; Haustein, Costas, & Larivière, 2015; Haustein, Peters, Sugimoto, et al., 2014; Htoo & Na, 2015; Mohammadi & Thelwall, 2014)

- **Χαμηλή συσχέτιση με τις αναφορές** (e.g., Alperin, 2015; Costas, Zahedi, & Wouters, 2015; Haustein, Costas, & Larivière, 2015; Bar-Ilan et al., 2012; Haustein, Larivière, Thelwall, et al., 2014; Htoo & Na, 2015)

Altmetrics και ΑΠΘ (1)

- **Σκοπός**
  - **Κάλυψη των πηγών altmetrics για τις δημοσιεύσεις του Αριστοτελείου Πανεπιστημίου (Α.Π.Θ)**

Altmetrics και ΑΠΘ(2)

- **Ερευνητικά ερωτήματα**

1. Πόσα και τι είδους altmetrics υπάρχουν για τα άρθρα που έχουν δημοσιεύσει καθηγητές του ΑΠΘ την περίοδο 2010-2016

2. Πώς κατανέμονται τα altmetrics για τις δημοσιεύσεις του ΑΠΘ στα διαφορετικά θεματικά πεδία

3. Ποια είναι τα «δημογραφικά» χαρακτηριστικά των αναφορών για δημοσιεύσεις που συγκεντρώνουν τα περισσότερα altmetrics.

Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (ΑΠΘ)

- 11 Σχολές – 41 Τμήματα που καλύπτουν όλους τους επιστημονικούς τομείς
- 60,350 προπτυχιακοί φοιτητές
- 10,000 μεταπτυχιακοί φοιτητές
- 1,850 μέλη ΔΕΠ

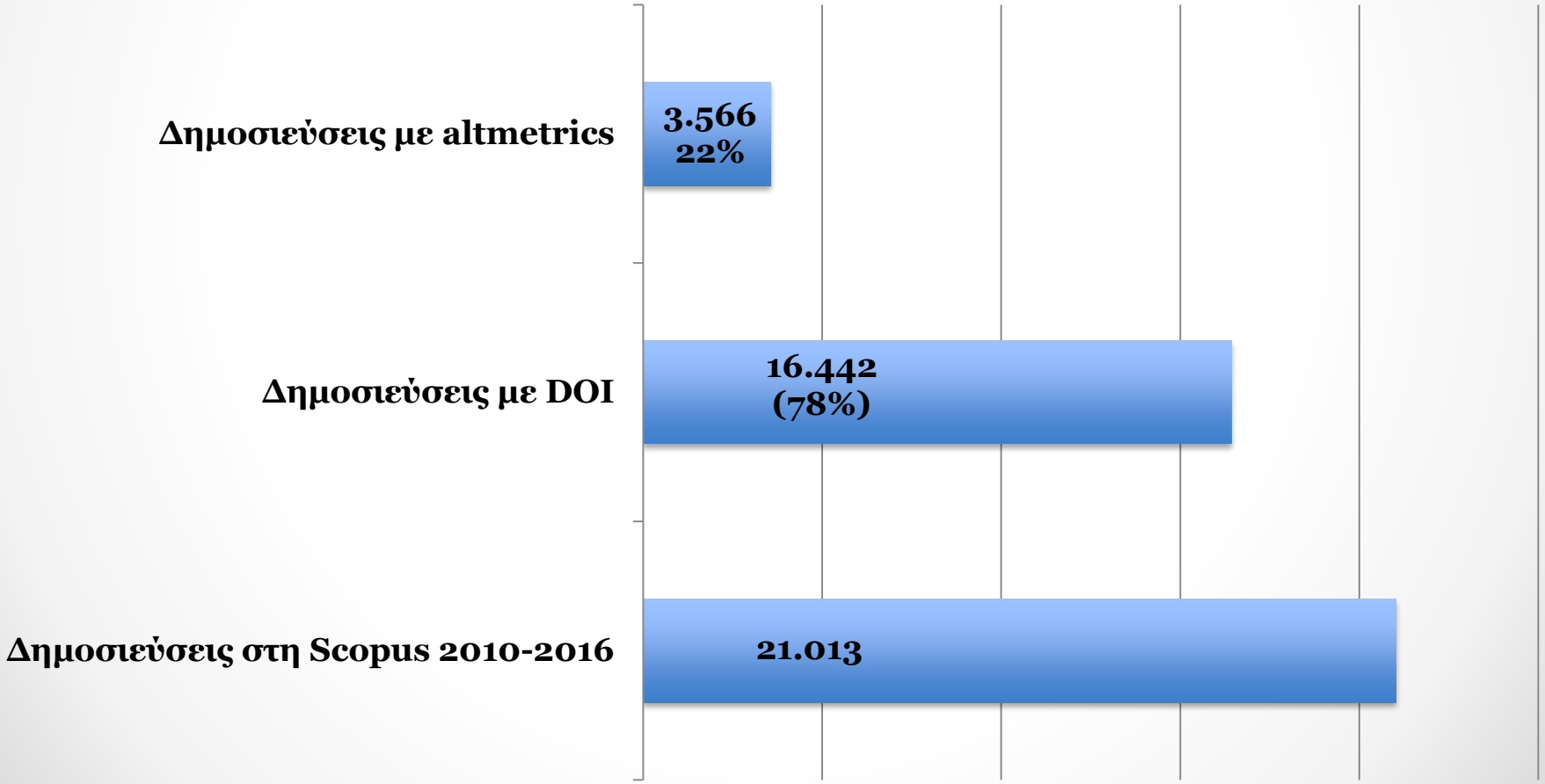
Συλλογή δεδομένων

- Scopus
- Atmetric Explorer for Institutions
- Άρθρα με DOI

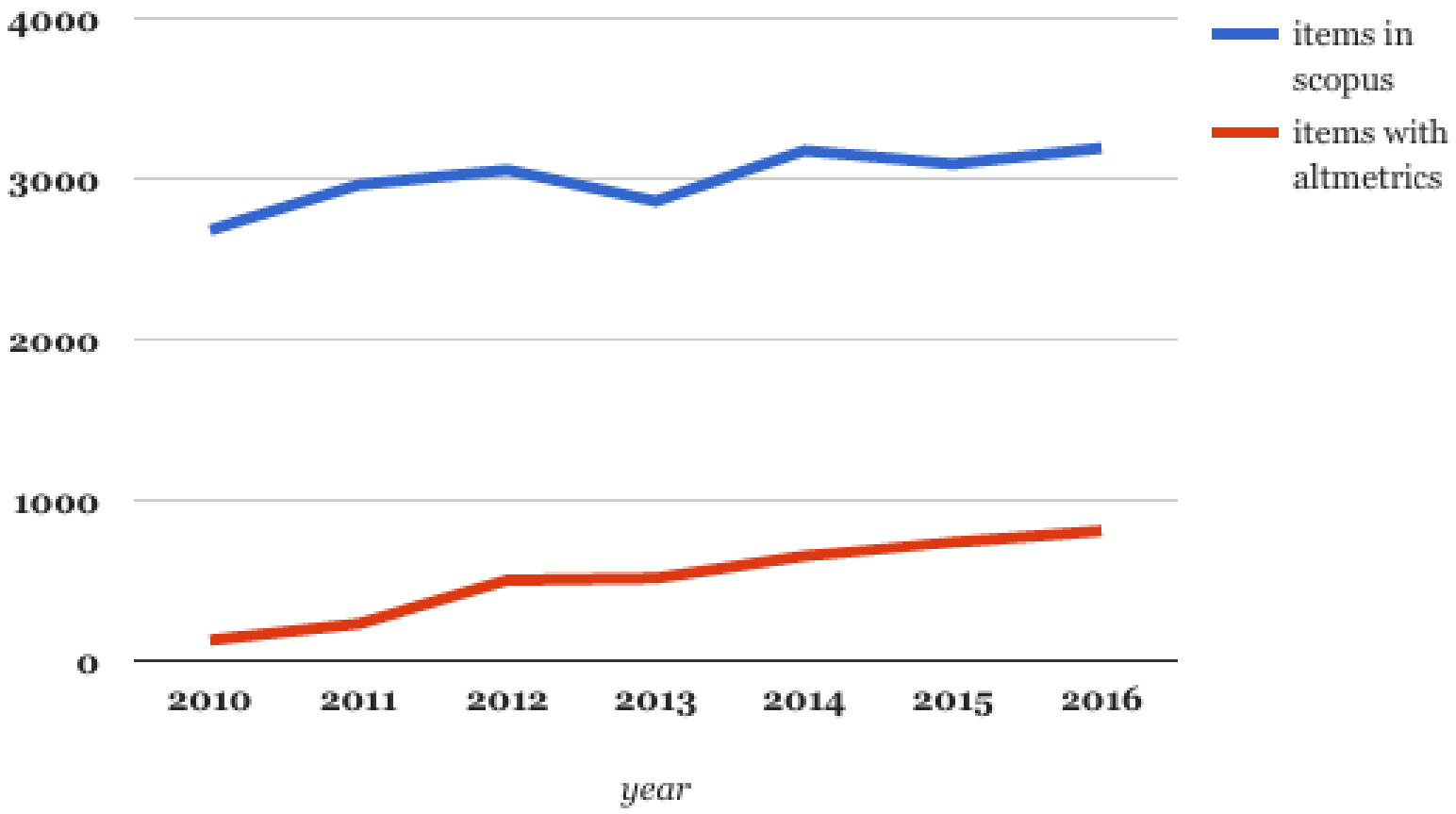
Αποτελέσματα

…

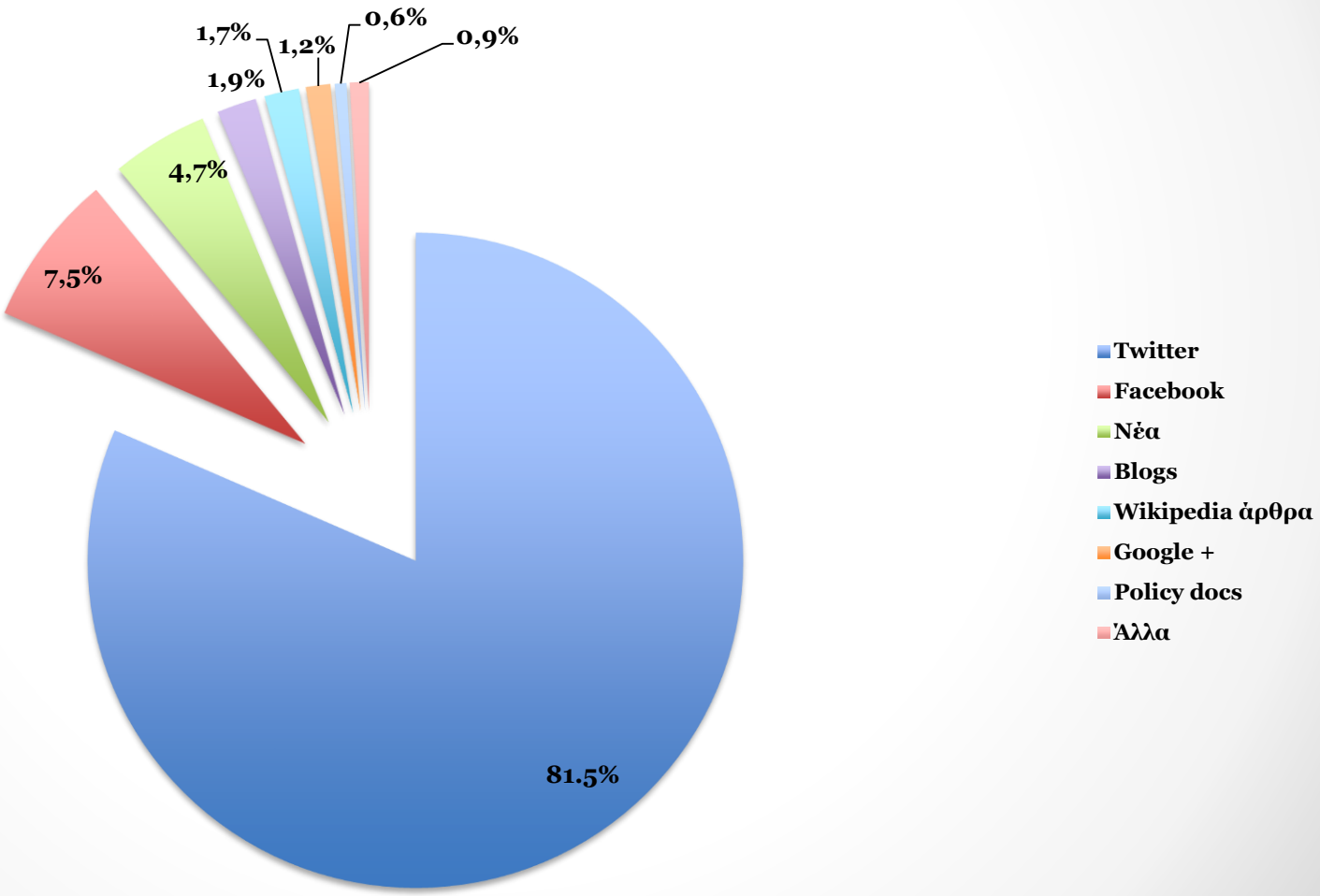
Κάλυψη σε Altmetrics



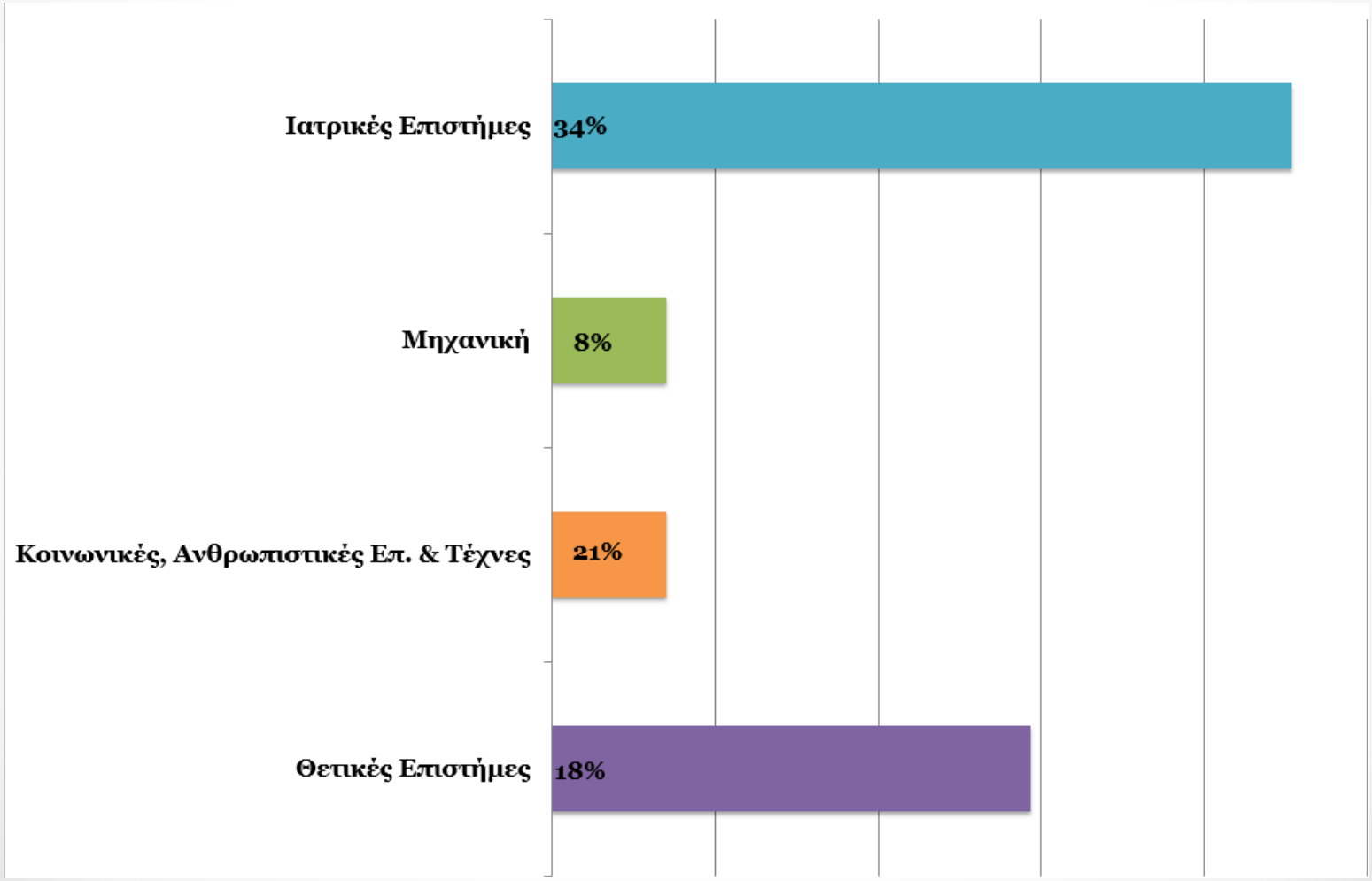
Altmetrics στο χρόνο



Αναφορές ανά πηγή



Altmetrics στις διάφορες Επιστήμες(1)



Altmetrics στις διάφορες Επιστήμες (2)

	Citations density	Altmetrics density
Ιατρικές Επιστήμες	9.4	2.7
Μηχανική	0.8	0.2
Κοινωνικές, Ανθρωπιστικές Επιστήμες & Τέχνες	**0.6**	**0.9**
Θετικές Επιστήμες	8.2	2.3

Οι δημοσιεύσεις με τις περισσότερες αναφορές (mentions) (1)

2149 Global, regional, and national incidence, prevalence, and years lived with...
Article in **The Lancet**, June 2015

1284 Global, regional, and national comparative risk assessment of 79 behavioural,...
Article in **The Lancet**, September 2015

1282 Global, regional, and national age-sex specific all-cause and cause-specific...
Article in **The Lancet**, December 2014

587 Global, regional, and national disability-adjusted life years (DALYs) for 306...
Article in **The Lancet**, August 2015

506 Widespread exploitation of the honeybee by early Neolithic farmers
Article in **Nature**, November 2015

486 Meta-analysis of 74,046 individuals identifies 11 new susceptibility loci for...
Article in **Nature Genetics**, October 2013

356 Early farmers from across Europe directly descended from Neolithic Aegeans
Article in **Proceedings of the National Academy of Sciences of the United States of America**, June 2016

287 Effect of increased gravitational acceleration in potato deep-fat frying
Article in **Food Research International**, January 2014

246 Exome Sequencing and the Management of Neurometabolic Disorders
Article in **New England Journal of Medicine**, May 2016

211 Evaluation of Excess Significance Bias in Animal Studies of Neurological...
Article in **PLoS Biology**, July 2013

189 Probiotic Microbes Sustain Youthful Serum Testosterone Levels and Testicular...
Article in **PLoS ONE**, January 2014

179 Plasma proteins predict conversion to dementia from prodromal disease
Article in **Alzheimer's & Dementia: the Journal of the Alzheimer's Association**, July 2014

159 Prevalence of cerebral amyloid pathology in persons without dementia: a meta...
Article in **JAMA: Journal of the American Medical Association**, May 2015

158 Multiple independent variants at the TERT locus are associated with telomere...
Article in **Nature Genetics**, March 2013

155 3D In Vitro Model of a Functional Epidermal Permeability Barrier from Human...
Article in **Stem Cell Reports**, May 2014

148 Dynamics of extinction debt across five taxonomic groups
Article in **Nature Communications**, July 2016

134 Genome-wide association analysis identifies TXNRD2, ATXN2 and FOXC1 as...
Article in **Nature Genetics**, January 2016

128 Management of Hyperglycemia in Type 2 Diabetes: A Patient-Centered Approach...
Article in **Diabetes Care**, January 2003

125 TT-seq maps the human transient transcriptome
Article in **Science**, June 2016

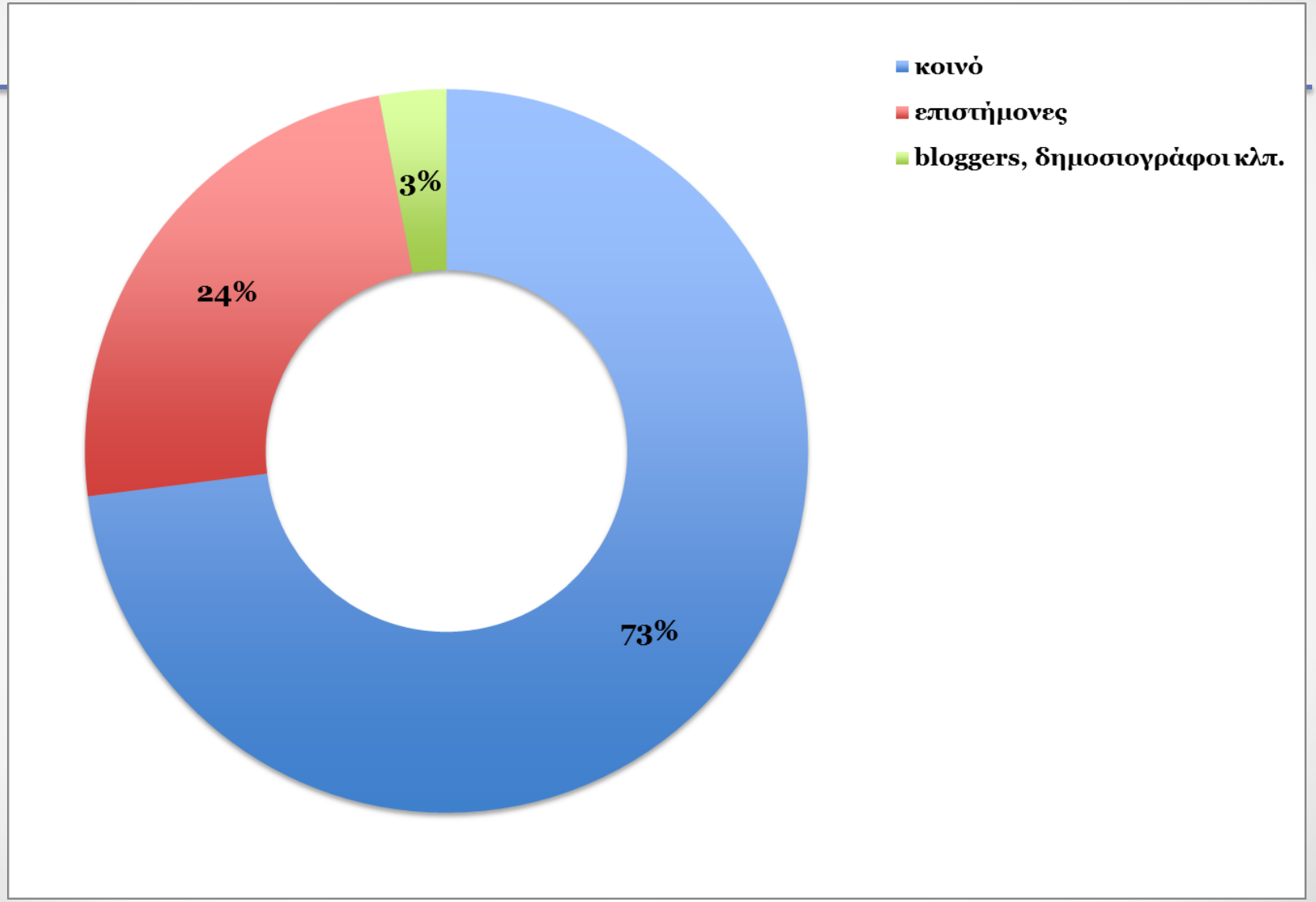
125 Crimean-Congo hemorrhagic fever: epidemiological trends and controversies in...
Article in **BMC Medicine**, December 2011

124 Meeting report: First International Conference on Crimean-Congo hemorrhagic...
Article in **Antiviral Research**, August 2015

Οι δημοσιεύσεις με τις περισσότερες αναφορές (mentions)(2)

Altmetric Attention Score	Title	Journal	Year	Scopus citations	Open-access
2152	Global, Regional, And National Incidence, Prevalence, And Years Lived With Disability For 301 Acute And Chronic Diseases And Injuries In 188 Countries, 1990–2013: A Systematic Analysis For The Global Burden Of Disease Study 2013	The Lancet	2015	677	
1280	Global, Regional, And National Age-Sex Specific All-Cause And Cause-Specific Mortality For 240 Causes Of Death, 1990-2013: A Systematic Analysis For The Global Burden Of Disease Study 2013	The Lancet	2015	983	
1266	Global, Regional, And National Comparative Risk Assessment Of 79 Behavioural, Environmental And Occupational, And Metabolic Risks Or Clusters Of Risks In 188 Countries, 1990–2013: A Systematic Analysis For The Global Burden Of Disease Study 2013	The Lancet	2015	258	
591	Global, Regional, And National Disability-Adjusted Life Years (Dalys) For 306 Diseases And Injuries And Healthy Life Expectancy (Hale) For 188 Countries, 1990-2013: Quantifying The Epidemiological Transition.	The Lancet	2015	219	
503	Widespread Exploitation Of The Honeybee By Early Neolithic Farmers	Nature	2015	7	
486	Meta-Analysis Of 74,046 Individuals Identifies 11 New Susceptibility Loci For Alzheimer's Disease	Nature Genetics	2013	639	
355	Early Farmers From Across Europe Directly Descended From Neolithic Aegeans	Proceedings of the National Academy of Sciences of the United States of America	2016	15	
291	Effect Of Increased Gravitational Acceleration In Potato Deep-Fat Frying	Food Research International	2014	0	
250	Exome Sequencing And The Management Of Neurometabolic Disorders	New England Journal of Medicine	2016	19	
210	Evaluation Of Excess Significance Bias In Animal Studies Of Neurological Diseases	PLoS Biology	2013	91	Y
192	Probiotic Microbes Sustain Youthful Serum Testosterone Levels And Testicular Size In Aging Mice	PLoS ONE	2014	19	Y
179	Plasma Proteins Predict Conversion To Dementia From Prodromal Disease	Alzheimer's & Dementia: the Journal of the Alzheimer's Association	2014	60	
158	Prevalence Of Cerebral Amyloid Pathology In Persons Without Dementia: A Meta-Analysis.	JAMA: Journal of the American Medical Association	2015	118	
157	3d In Vitro Model Of A Functional Epidermal Permeability Barrier From Human Embryonic Stem Cells And Induced Pluripotent Stem Cells	Stem Cell Reports	2014	40	Y
157	Multiple Independent Variants At The Tert Locus Are Associated With Telomere Length And Risks Of Breast And Ovarian Cancer	Nature Genetics	2013	215	
149	Dynamics Of Extinction Debt Across Five Taxonomic Groups	Nature Communications	2016	1	Y
134	Genome-Wide Association Analysis Identifies Txnrd2, Atxn2 And Foxc1 As Susceptibility Loci For Primary Open-Angle Glaucoma	Nature Genetics	2016	19	
126	Management Of Hyperglycemia In Type 2 Diabetes: A Patient-Centered Approach Position Statement Of The American Diabetes Association (Ada) And The European Association For The Study Of Diabetes (Easd)	Diabetes Care	2012	3	
125	Crimean-Congo Hemorrhagic Fever: Epidemiological Trends And Controversies In	BMC Medicine	2011	13	Y

Δημογραφικά στοιχεία στο Twitter



Τελικές παρατηρήσεις(1)

- Χαμηλή κάλυψη
- Υπεροχή Twitter
- Αναφορές από ευρύ κοινό
  - Διαφορετικό είδος απήχησης;
- Μεγαλύτερη κάλυψη στις Ιατρικές Επιστήμες
- Προστιθέμενη αξία στις Κοινωνικές και Ανθρωπιστικές;
- News outlets, policy documents

Τελικές παρατηρήσεις(2)

- Ανάγκη για περαιτέρω έρευνα
  - Μεγαλύτερο και ποικίλο δείγμα
  - Μικτή ερευνητική μεθοδολογία
  - Συσχέτιση με ετεροαναφορές
  - Διαδικασίες, λόγοι, πλαίσιο αναφορών (Haustein, 2015)
  - Χρήση κοινωνικών δικτύων από τους Έλληνες ερευνητές και στάσεις απέναντι στην Ανοιχτή Επιστήμη
    - https://101innovations.wordpress.com/
  - altmetrics ≠ Altmetric Explorer

Ευχαριστίες

Altmetric

thank you
danke
謝謝
ngiyabonga
شكراً جزيلاً
рахмат
teşekkür ederim
Баярлалаа
спасибо
gracias
tapadh leat
dank je
mauruuru
hvala
bedankt
dziękuję
obrigado
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