



# ELSEVIER DATABASES USER TRAINING AND UPDATES

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October 2017

# AGENDA

- Elsevier at a Glance
- Research Performance of Iran
- Science Direct
- Scopus
- Mendeley



ELSEVIER



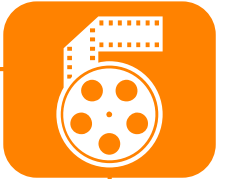


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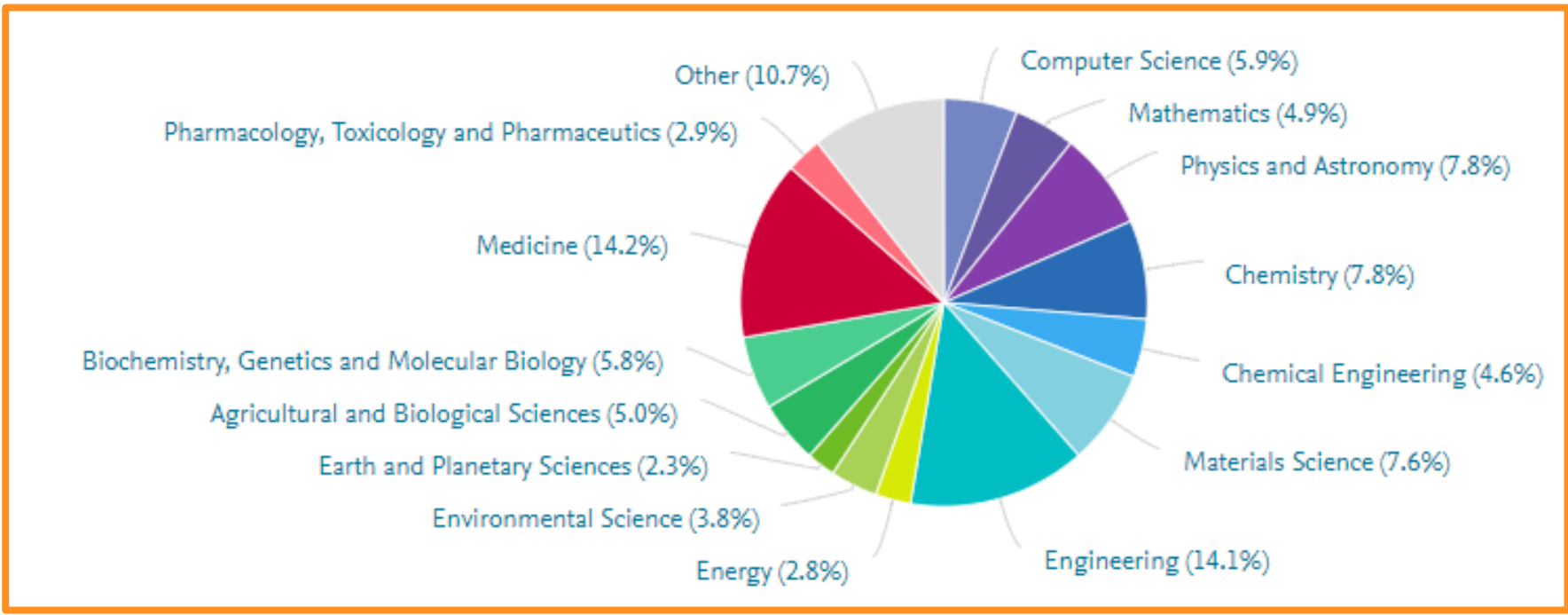


IRAN SCHOLARLY  
OUTPUT

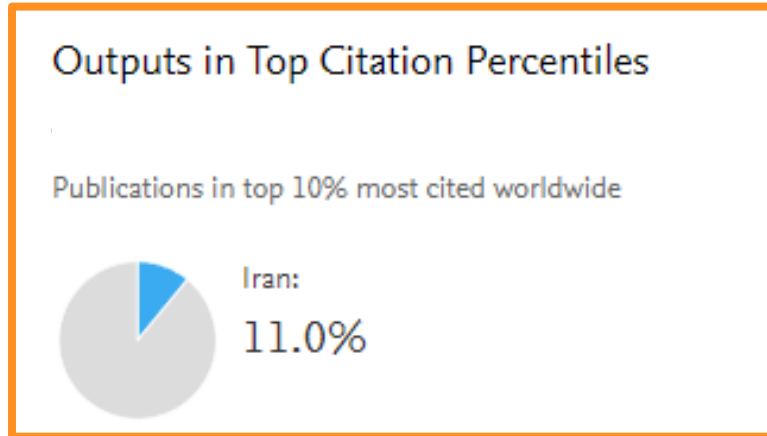
## Overall Research Performance – 2012-2017

In last 5 years, Iran has more than 263k publications with more than 1 mio citations.  
 FWCI is 0.93 (while world average is 1) and citation per publication is 4.1.  
 Engineering and Medicine are top publication areas with total 28% share.

<p>Scholarly Output  <b>263,496</b> ▲</p>	<p>Citation Count  <b>1,093,132</b></p>	<p>Field-Weighted Citation Impact  <b>0.93</b></p>	<p>Citations per Publication  <b>4.1</b></p>
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# Overall Research Performance – 2012-2017



179 collaborating countries, publications mostly with Malaysia, UK and Germany, 52,207 co-authored publications

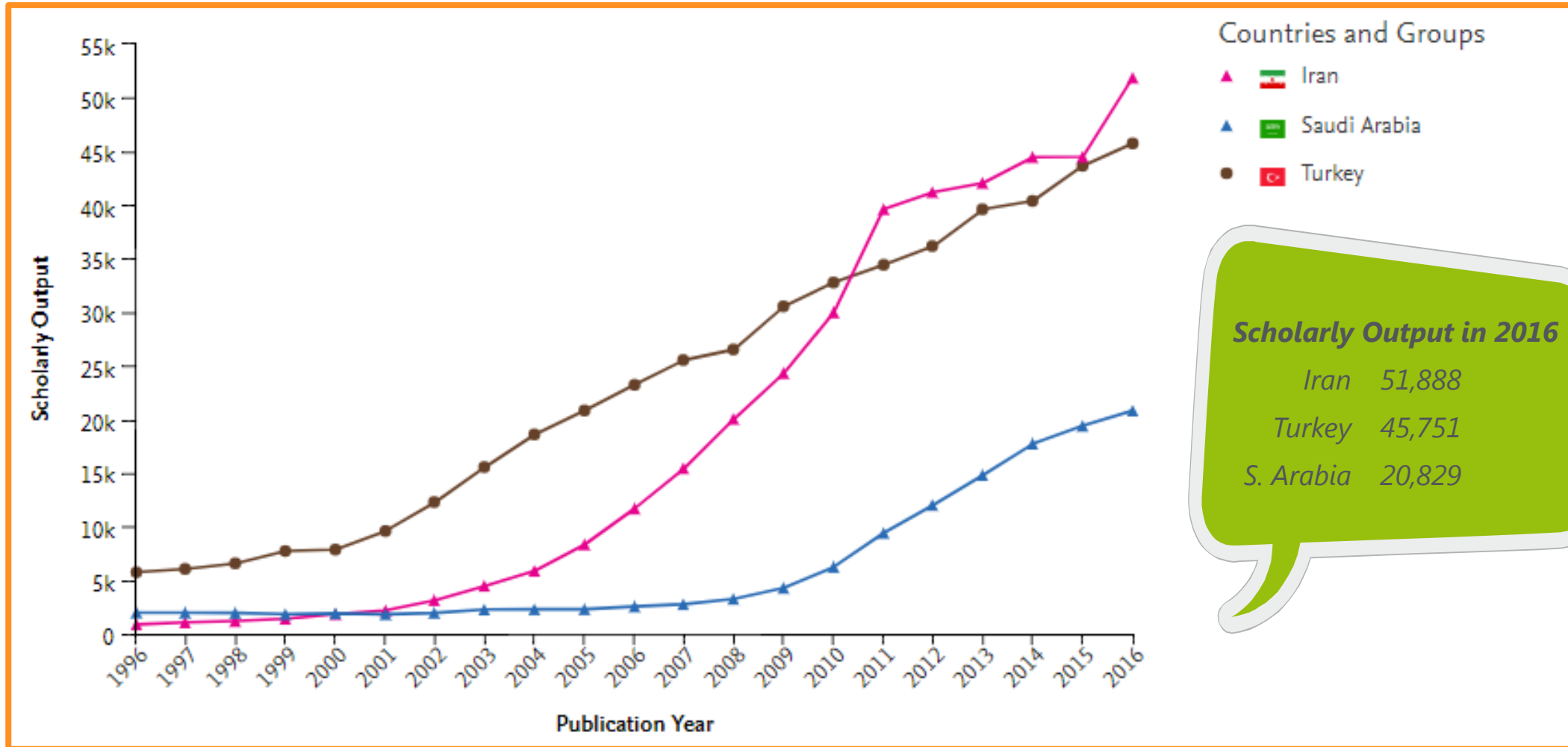


11% of Publications in Iran are in top 10% most cited worldwide.

16% of publications in Iran is in top 10 Journals by CiteScore

Almost 20% of all publications in Iran are held with co-author. Collaborations are mostly realized with UK and South Africa

# Overall Research Performance







**Scholarly Output in 2016**

Iran 51,888

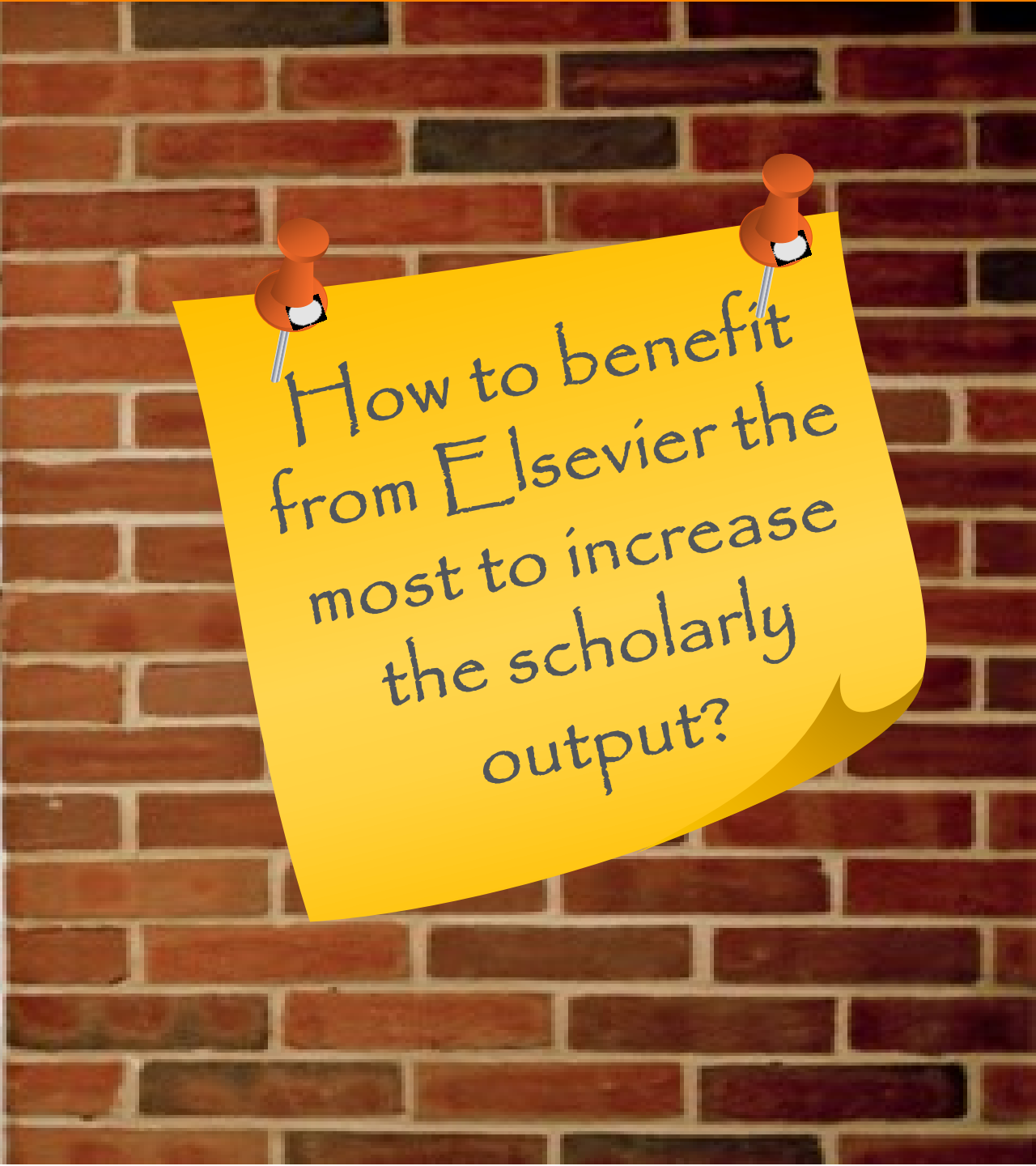
Turkey 45,751

S. Arabia 20,829

## Overall Research Performance

Institution	Publications ↓
1.  Islamic Azad University	52,909 ▼
2.  Tehran University of Medical Sciences	24,358 ▲
3.  University of Tehran	22,701 ▲
4.  Amirkabir University of Technology	12,600 ▲
5.  Tarbiat Modarres University	12,044 ▲
6.  Shahid Beheshti University of Medical Sciences	10,921 ▲
7.  Sharif University of Technology	10,895 ▼
8.  Iran University of Science and Technology	8,917 ▲
9.  Ferdowsi University of Mashhad	8,162 ▲
10.  Isfahan University of Technology	8,160 ▲
11.  Shiraz University	7,763 ▲
12.  University of Tabriz	7,152 ▲
13.  Shahid Beheshti University	6,888 ▲
14.  Isfahan University of Medical Sciences	6,826 ▲
15.  Mashhad University of Medical Sciences	6,469 ▲

Top 15 institutions in Iran in terms of Scholarly output in last 5 years



How to benefit  
from Elsevier the  
most to increase  
the scholarly  
output?



ScienceDirect

# AGENDA

- What is Science Direct?
- Benefits of Science Direct
- Content Innovations
- Tips on Advanced Search



# Facts and Figures - ScienceDirect

Elsevier's **leading information solution** for researchers, a **full-text** platform for **scientific, technical and medical** journals & books.



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**29 articles a second**  
Over 900 million full text articles were downloaded in 2016 alone.

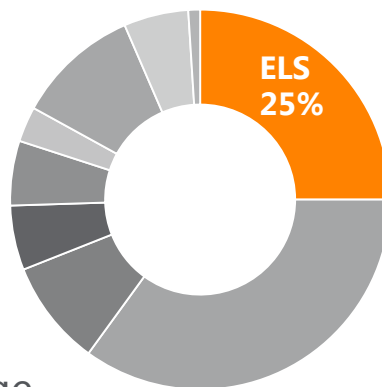


**420.000** pre-reviewed research articles published annually, including *the Lancet* and *the Cell*, and many iconic reference works, including *Grey's Anatomy*.



## #1 Global Provider

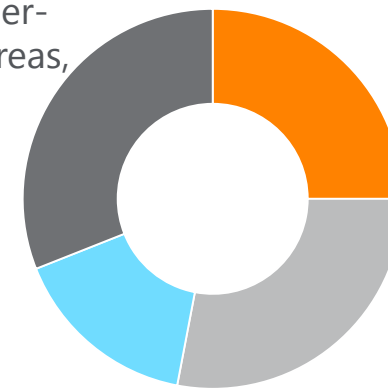
- Publish 25% of world's journal articles
- 2,500 active journals
- 35,000 book titles
- 900 serials
- Over 14 million full-text content pieces with an average of citation share of 25.3%



## Multi-disciplinary Content

A repository of full-texts from peer-reviewed sources cover 4 main areas, with 24 sub-titles:

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- Life Sciences
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- Social Sciences



## Benefits - ScienceDirect

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- A single platform that gives access to **the richest and continuously growing content**
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### More effective

- **Recommendations** view for other articles or chapters based on what the researcher his/her peers are reading
- Easy evaluation of the relevance and quality of an article by viewing **Article-based metrics** such as Scopus citation counts:
  - **References and citing articles**
  - **Interactive graphs**
  - **Figures and tables**
  - **Information about the author**
- Image searching

### More efficient

- Remote access to ScienceDirect
- **Open access content** (20.000 out of 420.000 articles is open access)
- Simultaneous download (up to 20 documents),
- **Easiness and advantages of online reading**, store, discuss & share in **Mendeley, RefWorks**
- Mobile enhanced, high level of web accessibility

# Simple Search on ScienceDirect

The image shows the ScienceDirect website interface. At the top left is the ScienceDirect logo. At the top right are navigation links: Journals, Books, Register, Sign in, and a help icon. The main content area features a search bar with the following fields: Keywords, Author name, Journal/book title, Volume, Issue, and Page. A green search icon is located to the right of the Page field. Below the search bar is a link for "Advanced search". The background is a historical map of Broad Street, London, with a blue arrow pointing down to the search bar and another blue arrow pointing right to the "Advanced search" link. A text box at the bottom left of the map contains the following text:

1854 - Broad Street cholera outbreak map by John Snow.  
An early example of data visualization and a breakthrough for the science of epidemiology.

Feedback

# Simple Search on ScienceDirect



Physical Sciences and Engineering   Life Sciences   Health Sciences   Social Sciences and Humanities

## Physical Sciences and Engineering

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### Popular Articles

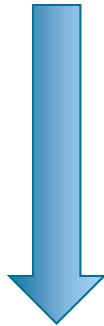
- [Evaluation of energy potential of Municipal So...](#)  
Renewable and Sustainable Energy Reviews, Volume 50
- [Molecular insight into specific 14-3-3 modulators: Inhibitors and ...](#)  
European Journal of Medicinal Chemistry, Volume 136
- [Are consumers willing to pay to let cars drive for them? Analyzin...](#)  
Transportation Research Part C: Emerging Technologies, Volume 78

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Volume 214
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Volume 167
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Feedback

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Volume

Issue

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Advanced search

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Journals

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Agricultural and Biological Sciences

Arts and Humanities

Biochemistry, Genetics and Molecular Biology

Hold down the Ctrl key (or Apple Key)  
to select multiple entries. All Years 2007

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Present

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Search

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# Advanced Recommender on ScienceDirect

Our advanced recommender helps you find other related information you might have overlooked

The screenshot shows the ScienceDirect interface for an article. The article title is "Zika virus: review and obstetric anesthetic clinical considerations" from the Journal of Clinical Anesthesia, Volume 35, December 2016, Pages 136–144. The authors listed are Cesar Padilla, MD (Resident), Aileen Pan, MD (Fellow Obstetric Anesthesiology), Andrew Geller, MD (Instructor), and Mark I. Zakowski, MD (Associate Professor Anesthesiology, Adjunct, Charles Drew University of Medicine and Science Los Angeles). The article has a DOI of http://dx.doi.org/10.1016/j.jclinane.2016.07.034. The article outline includes sections like Introduction, Methods, and Conclusions. The 'Recommended articles' section, highlighted with a red box, lists three related articles: "Attomolar Zika virus oligonucleotide det...", "La infección por virus Zika: una nueva e...", and "Cardiovascular complications of Zika vir...".

# 3D Images, Shapes and Models in ScienceDirect

We are working to make data, images, and other informative research types more discoverable and easier to evaluate

The screenshot shows the ScienceDirect interface for the article "Another link between archaeology and anthropology: Virtual anthropology" by Gerhard W. Weber. The article is published in "Digital Applications in Archaeology and Cultural Heritage", Volume 1, Issue 1, 2014, Pages 3–11. The article is marked as "Open Access".

**Highlights:**

- Introduces the six operational areas of Virtual Anthropology.
- Emphasizes the applicability of these methods in archaeology.
- Provides a 3D model to demonstrate a landmark-based measurement approach.
- Provides a movie of a virtual Venus from Willendorf, Austria.

**Abstract:** Archaeology and biological anthropology share research interests and numerous methods for field work. Both profit from collaborative work and diffusion of know-how. The last two decades have seen a technical revolution in biological anthropology: Virtual Anthropology (VA). It exploits digital technologies and brings together experts from different domains. Using volume and surface data from scanning processes, VA allows applying advanced shape and form analysis, higher reproducibility, offers permanent availability of virtual objects, and easy data exchange. The six main areas of VA including digitization, exposing hidden structures, comparing shapes and forms, reconstructing specimens, manufacturing electronic specimens, and sharing data are introduced in this paper. Many overlaps with archaeological problems are highlighted and potential application areas are emphasized. The article provides a 3D human cranium model and a movie flying around and through the virtual copy of a fossil Venian archaeological object: the Venus from Willendorf.

**Figure and tables:**

- Video S1
- Video S2
- ec1010
- ec1015

**Recommended articles:**

- Late embryo and bony skull devel... 2013, Zoology
- The virtual 3D reconstruction of the ... 2014, Digital Applications in Arch... more
- Small representations, strong instab... 2015, Journal of Number Theory

**Related book content:**

The image shows a 3D model of a human skull, which is highlighted by a red rounded rectangle. Below the image, there is a caption: "Figure options, etc."



# 3D Images, Shapes and Models in ScienceDirect

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Article outline  
Keywords  
Visual Case Discussion  
Appendix Supplementary ...  
References

Figures and tables  
ec0005  
ec0010

Visual Journal of Emergency Medicine  
Volume 2, January 2016, Pages 63–64

A 74-Year Old with Right Visual Change

Vivida Lobo, MD  
Emergency Medicine, Stanford University, 300 Pasteur Dr, M121 Allevy Building, Palo Alto, CA 94305  
Available online 13 January 2016  
Show full text  
http://dx.doi.org/10.1016/j.vj.2015.10.002 Get rights and content

Keywords  
ocular ultrasonography; POCUS; bedside US; vitreous hemorrhage

Visual Case Discussion  
74-year-old male with hypertension and diabetes presents to the emergency department (ED) with R eye haziness and decrease in vision for 1 day without pain. Physical exam notable for BP of 160/90, and R visual acuity for hand movements only with glasses and L visual acuity of 20/60 with glasses. Point of care ultrasound (POCUS) of the R orbit reveals hyperechoic material in the posterior chamber that freely moves around in a swirling fashion when the patient moves his eyes right and left, consistent with a diagnosis of vitreous hemorrhage.


Ocular emergencies account for 3% of all ED visits. Ocular complaints are often challenging to evaluate and ophthalmologic consultation is not always readily available. Many ocular disease processes lead to a swollen orbit with shut eyelids making it impossible to evaluate intraocular structures with an ophthalmoscope. Ocular ultrasonography has proven to be very useful and effective in the ED setting to rule out multiple vision-threatening disease processes promptly and accurately including globe perforation, retinal detachment, lens subluxation, vitreous hemorrhage, retinobulbar tumors, and intraocular foreign body.

Vitreous hemorrhage occurs when blood is found in the vitreous cavity, either within the vitreous gel and/or in the retrohyaloid space. There are multiple different causes for vitreous hemorrhage, the most common being retinal tears, trauma, retinal vein occlusion, and diabetes. Most patients complain of painless unilateral floaters and/or visual loss. A high-resolution linear array ultrasound probe is used to perform an ocular examination. Ultrasound gel is applied to the closed eye, and the probe is placed directly on the gel without applying any pressure to the eye. The probe should be assessed in both horizontal and longitudinal planes. The normal eye appears as a circular hypoechoic structure. The anterior chamber is filled with anechoic fluid and is bordered by the cornea, intact anterior reflection of the lens. The normal vitreous chamber is filled with anechoic fluid. The normal retina is attached to the posterior orbital wall and cannot be differentiated on ultrasound. The optic nerve is visible posterior as a hyperechoic structure extending away from the orbital wall. When vitreous hemorrhage presents acutely, the normal vitreous chamber will be filled with hyperechoic dots and short linear segments that will settle toward the posterior wall and will freely move or swirl around when the globe moves (Fig.).

Recommended articles  
Cell protrusions induced by hyaluro...  
2015, Experimental Cell Research  
Small representations, strong relat...  
2015, Journal of Number Theory  
Quantitative analysis of 111In inte...  
2015, Data in Brief  
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Citing articles (0)

Related book content  
Interactive Questions 1 / 3  
When considering a diagnosis of retinal detachment vs vitreous hemorrhage on ocular ultrasonography, what is a distinguishing feature of vitreous hemorrhage, not evident in retinal detachment?  
• There are no findings shared between vitreous hemorrhage and retinal detachment on ocular ultrasonography.  
• Deformity to the globe.  
• Optic nerve sheath diameter greater than 5 mm.  
• Hyperechoic material within the posterior chamber that is not attached to the posterior wall.



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3.1  
Res 0 Guide MB On Dual Page 1/2

Fig. Right orbit ultrasound depicting hyperechoic material within the vitreous chamber, consistent with a vitreous hemorrhage.

Figure options



# 3D Radiological Images on ScienceDirect

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The image shows a screenshot of a ScienceDirect article page for the journal *European Journal of Radiology Open*. The article title is "Anterior mediastinal masses in the Framingham Heart Study: Prevalence and CT image characteristics". The article is by Tetsuro Arai et al. The page includes an abstract, materials and methods, and results sections. A blue-bordered box highlights an interactive viewer for a radiological image. The viewer shows a CT scan slice of the chest with a central mass. Below the image is a progress bar that says "Model is being loaded". To the right of the image are controls for viewing the image: a "View" dropdown set to "2D Series", a "Preset" dropdown set to "Standard WL&WW", and sliders for "Zoom", "Level", and "Window". At the bottom, there are checkboxes for "Cut planes" (Sagittal X, Coronal Y, Axial Z), all of which are checked.

# Virtual Microscope in ScienceDirect

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The image shows a screenshot of a ScienceDirect article page. The article title is "Cell protrusions induced by hyaluronan synthase 3 (HAS3) resemble mesothelial microvilli and share cytoskeletal features of filopodia". The article is from the journal "Experimental Cell Research", Volume 337, Issue 2, 1 October 2015, Pages 179–191. The authors listed are Ville Kobdén, Pirkka Kärnä, Aaro Koskinen, Antti Arjonen, Markku Tammela, and Kari Niemi.

The article abstract states: "Previous studies have shown that overexpression of enzymatically active GFP-HAS3 induces the growth of long, slender protrusions that share many features of both filopodia and microvilli. These protrusions are dependent on continuous hyaluronan synthesis, and collapse upon digestion of hyaluronan by hyaluronidase. However, complete understanding of their nature is still missing. This work shows that the protrusions on rat peritoneal surface are ultrastructurally indistinguishable from those induced by GFP-HAS3 in MCF-7 cells. Analysis of the actin-associated proteins villin, ezrin, spectin, and Myo10 indicated that the HAS3-induced protrusions share most cytoskeletal features with filopodia, but they do not require attachment to the substratum like traditional filopodia. GFP-HAS3 overexpression was found to markedly enhance filamentous actin in the protrusions and their cortical basis. Analysis of the protrusion dynamics after enzymatic digestion of hyaluronan revealed that while GFP-HAS3 escape from the protrusions and the protrusion collapse takes place immediately, the complete retraction of the protrusions occurs more slowly. This finding also suggests that hyaluronan chain maintains HAS3 in the plasma membrane. The results of this work suggest that protrusions similar to those of HAS3 overexpressing cells *in vivo* exist also in cells with active hyaluronan synthesis *in vivo*. These protrusions are similar to common filopodia but are independent of substratum attachment due to the extracellular scaffolding by the hyaluronan coat that accounts for the growth and maintenance of these structures, previously associated to invasion, adhesion and multidrug resistance."

On the right side of the article page, there is a "Virtual Microscope" widget. It features a zoom control set to 38x and a video player showing a 3D reconstruction of a cell protrusion with green filaments. Below the video player, there is another zoom control set to 50%.

# 3D Neuroimaging Viewer in ScienceDirect

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The screenshot shows the ScienceDirect interface for the article "Gray-white matter and cerebrospinal fluid volume differences in children with Specific Language Impairment and/or Reading Disability". The article is from Volume 56, April 2014, Pages 90-100. The authors listed are Dolores Girbau-Massana, Gracian Garcia-Martí, Luis Martí-Bonmatí, and Richard G. Schwartz. The DOI is https://doi.org/10.1016/j.neuropsychologia.2014.01.004.

The article highlights include:

- SLI is linked to lower gray matter volume at the right postcentral parietal gyrus.
- The greater cerebrospinal fluid volume may prove to be a marker for SLI.
- The link of language and knowledge representation to brain development is discussed.
- SLI+RD involves lower white matter volume in the inferior longitudinal fasciculus.
- The structural marker for SLI+RD is associated to reading comprehension and receptive language skills.

The abstract states: "We studied gray-white matter and cerebrospinal fluid (CSF) alterations that may be critical for language, through an optimized voxel-based morphometry evaluation in children with Specific Language Impairment (SLI), compared to Typical Language Development (TLD). Ten children with SLI (8;5-10;9) and 14 children with TLD (8;2-11;8) participated. They received a comprehensive language and reading test battery. We also analyzed a subgroup of six children with SLI+RD (Reading Disability). Brain images from 3-Tesla MRIs were analyzed with intelligence, age, gender, and total intracranial volume as covariates. Children with SLI or SLI+RD exhibited a significant lower overall gray matter volume than children with TLD. Particularly, children with SLI showed a significantly lower volume of gray matter compared to children with TLD in the right postcentral parietal gyrus (BA4), and left and right medial occipital gyri (BA19). The group with SLI also exhibited a significantly greater volume of gray matter in the right superior occipital gyrus (BA19), which may reflect a brain reorganization to compensate for their lower volumes at medial occipital gyri. Children with SLI+RD, compared to children with TLD, showed a significantly lower volume of: (a) gray matter in the right postcentral parietal gyrus; and (b) white matter in the right inferior longitudinal fasciculus."

The 3D neuroimaging viewer overlay is titled "Neuroimaging for this article" and includes a "Help" link. It features a central 3D brain reconstruction with a "Model is being loaded" status. The viewer has several interactive controls:

- Navigation:** "Rotate" button with a "Right" dropdown arrow and a "Reset" button.
- View Options:** Radio buttons for "3D Volume" (selected), "3D Contour", and "2D".
- Color:** A dropdown menu set to "Active Map".
- Zoom:** A horizontal slider.
- Threshold:** A horizontal slider.
- Opacity:** A horizontal slider.
- Cut planes:** Checkboxes for "Sagittal X", "Coronal Y", and "Axial Z", each with a corresponding slider.
- Save:** A "Save data (6.9 MB)" button.

On the left side of the article page, there is an "Article outline" section with links to "Highlights", "Abstract", "Keywords", and numbered sections (1-5). Below that is a "Figures and tables" section listing "Table 1" through "Table 4" and "Table 5" with corresponding thumbnail icons.

# Geospatial Data on ScienceDirect

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Geospatial Data  
Document  
Supplement

... pneumococcus; invasive; virus; protection; against; vaccine-type; invasive; pneumococcal disease and pneumonia in unvaccinated subjects was shown in some studies for some age groups. In conclusion, pneumococcal disease decreased after the introduction of PHID-CV into the Brazilian national immunization program. Further follow-up is needed to evaluate the long-term overall impact of PHD-CV in the Brazilian population.

**Abbreviations**  
AOM, acute otitis media; CI, confidence interval; CVE, Centro de Vigilância Epidemiológica; IAL, Instituto Adolfo Lutz; IPD, invasive pneumococcal disease; NS, statistically non-significant; NTHi, non-typeable *Haemophilus influenzae*; NVT, non-vaccine type; PCV, pneumococcal conjugate vaccine; PHID-CV, pneumococcal *Haemophilus influenzae* protein D conjugate vaccine; PM, pneumococcal meningitis; RCTs, randomized controlled trials; SINAN, Notifiable Diseases Information System; VE, vaccine effectiveness; VT, vaccine-type


**Keywords**  
*Streptococcus pneumoniae*; Brazil; Invasive pneumococcal disease; Pneumonia; Acute otitis media; Nasopharyngeal carriage

**Geospatial data**



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**Geospatial data**



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1. Introduction

The diseases caused by *Streptococcus pneumoniae* are a leading cause of morbidity and mortality in children <5 years-old worldwide, especially in developing countries [1–4]. Pneumococcal diseases range from life-threatening invasive pneumococcal diseases (IPD)



# Supplementary 3D Models in ScienceDirect

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**Arthropod Structure & Development**  
Volume 41, Issue 6, November 2012, Pages 545–560

**Evolutionary morphology of the hemolymph vascular system in scorpions: A character analysis**  
B.-J. Klüßmann-Fricke<sup>a, \*</sup>, L. Prendin<sup>b, c</sup>, C.S. Wikner<sup>a, c</sup>  
[Show more](#)  
<https://doi.org/10.1016/j.asd.2012.06.002> Get rights and content

**Abstract**  
Phylogenetically informative characters from the internal anatomy of scorpions were first reported more than 150 years ago, but the subject received little attention after the mid-1920s. Recent investigations, using traditional dissection, illustration and histological sectioning, microscopy, and innovative new methods for investigating complex soft tissue anatomy identified a new wealth of variation. Additionally, these investigations confirmed the phylogenetic significance of previously identified structures. Building on earlier work we present a more detailed description of the hemolymph vascular system (HVS) in scorpions, based on comparison of the vascular structures of the heart and the branching pattern of the prosomal arteries among 45 exemplar species representing most of the major scorpion lineages. Using corrosion-casting, MicroCT in combination with computer-aided 3D-reconstruction, and scanning electron microscopy, we conceptualize a series of phylogenetically informative characters for the anterior aorta system and characters of the heart and associated structures (e.g. arrangement of the ostia) of scorpions. Furthermore, we optimize the possible evolution of these new characters on a previous hypothesis of scorpion phylogeny, and discuss alternative character state transformations, their evolutionary consequences, and possible underlying evolutionary mechanisms acting on the HVS.

**Highlights**  
► New morphological characters for scorpion phylogenetic research. ► Detailed comparative description of the hemolymph vascular system in scorpions. ► Hypotheses on evolutionary mechanisms acting on the hvs in scorpions.

**Keywords**  
Hemolymph vascular system; Scorpions; Evolutionary morphology

**1. Introduction**  
Although scorpions are among the better-known orders of arachnids, their phylogenetic relationships continue to be debated. A thorough analysis, using up-to-date methods, all available sources of data, and including representatives of all major scorpion lineages

**Supplementary 3D models**

**Model hierarchy**  
Left-click on the model to see the names of its elements

**Model is being loaded**

Rotate [Color palette] **Reset**

Zoom [Slider]

Display mode: **Surface**

Stereo: **Off**

Save data (14.9 MB)

# Interactive Data Viewers on ScienceDirect

We are working to make data, images, and other informative research types more discoverable and easier to evaluate

The screenshot displays the ScienceDirect interface for the journal "Sensing and Bio-Sensing Research". The article title is "A novel ZnO piezoelectric microcantilever energy scavenger: Fabrication and characterization" by Deepak Bhatia, Himanshu Sharma, R.S. Meena, and V.R. Palkar. The article is available as an Open Access PDF.

**Article outline:** Highlights, Abstract, Keywords, 1. Introduction, 2. Modelling and design, 3. Experimental details, 4. Results and discussions, 5. Conclusion, Acknowledgement, Appendix A. Supplementary data, References.

**Figures and tables:** Includes thumbnails for a schematic diagram, a graph, and two tables (Table 1 and Table 2).

**Highlights:**

- ZnO thin film microcantilever energy scavenger by simple and inexpensive wet etching and lift off method.
- The voltage induced due to deformation of ZnO cantilever were measured ~ 230 mV.
- Obtained values of Young's modulus and hardness are nearly constant for indentation depth.
- The transverse piezoelectric coefficients  $d_{31}$  is much higher compared and nearly closed to the ZnO bulk material.
- Integration with multifunctional multiferroic film enhances the piezoelectric properties and output voltage.

**Abstract:** This novel piezoelectric zinc oxide (ZnO) thin film microcantilever was fabricated by micromachining technique. To release the cantilever, wet anisotropic etching of Silicon (Si) was performed by tetramethyl ammonium hydroxide (TMAH). The transverse piezoelectric coefficient  $d_{31}$  of the ZnO film, obtained from the deflection of the cantilever with influence of applied voltage, was calculated as 3.32 pC/N. The observed dynamic characterization of the novel piezoelectric microcantilever had linear response with the applied driving voltage. The obtained values of Young Modulus and Hardness were 208 ± 4 GPa and 4.84 ± 0.1 GPa respectively. This inexpensive novel method

**Interactive plot for this article:** A plot showing Magnitude (dB) on the Y-axis (ranging from -20.5 to 10.9) versus Frequency (KHz) on the X-axis (ranging from -5.6 to 111.8). The plot features a prominent resonance peak at approximately 82.5 KHz. The plot is interactive, with a "Data table" tab and a "Reset" button.

# Chemical Compound Viewer on ScienceDirect

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**Carbohydrate Research**  
Volume 400, 5 December 2014, Pages 44–53

**Synthesis of a heparin-related GlcN–IdoA sulfation-site variable disaccharide library and analysis by Raman and ROA spectroscopy**

Gavin J. Miller<sup>a</sup>, Steen U. Hansen<sup>a</sup>, Marek Barthe<sup>a,†</sup>, Christian Johannesen<sup>b,†</sup>, Ewan W. Blanch<sup>a</sup>, Gordon C. Jayson<sup>c</sup>, John M. Gardiner<sup>a</sup>

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**Highlights**

- Synthesis of a matrix of sulfation-programmed GlcN–IdoA disaccharides.
- Demonstrates effective synthesis using various GlcN donors and Ido acceptor.
- Four homogeneous sulfation-varied heparin disaccharides used to obtain Raman and Raman ROA data.
- Spectra provide indicative comparisons of signature sulfation bands for differing sulfation levels.
- Data are used to provide comparisons/differences to native heparin spectra.

**Abstract**

Synthesis of an array of differentially sulfated GlcN–IdoA disaccharides, accessible on good scale, directly from L-iduronate components is described. These are specifically directed to provide the sulfation variability at the key most common biological relevant sulfation-variable L-IdoA O-2 and D-GlcN O-6 and amino sites of this heparin disaccharide. This sulfation-varied matrix has allowed the first evaluation of using Raman/ROA spectroscopy to characterize changes in spectra as a function of both site and level of sulfation with pure, defined heparin-related disaccharide species. This provides analysis of both similarities and differences to digest native heparin and this shows evidence of different types of changes in conformations and conformational freedom as a function of some specific sulfation changes at the disaccharide level. It is

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Article outline

- Summary
- Introduction
- Results
- Discussion
- Experimental Procedures
- Acknowledgments
- Supplemental Information
- References
- Supplemental References

Figures and tables

channels.

### Results

#### A Screen for Synaptic Proteins Binding to Ca<sup>2+</sup> Channels

We performed yeast-two hybrid screens for proteins that interact with the cytoplasmic C-terminal sequences of P/Q- and N-type Ca<sup>2+</sup> channels. We chose these Ca<sup>2+</sup>-channel baits because P/Q- and N-type Ca<sup>2+</sup> channels mediate nearly all presynaptic Ca<sup>2+</sup> influx, and their C termini have been implicated in targeting Ca<sup>2+</sup> channels to the active zone (Catterall et al., 2005). The C termini of N- and P/Q-type Ca<sup>2+</sup> channels contain three conserved sequence motifs (Figure 1A and Figure S1A available online): an SH3 domain-binding motif (RQLPQTP), a PNGY motif, and a C-terminal sequence motif (DxWC). Among 84 and 134 independent prey clones obtained in P/Q- and N-type Ca<sup>2+</sup>-channel screens, 33 and 16 prey clones, respectively, represented RIM-BPs (Figure 1B), consistent with earlier studies (Hibino et al., 2002). In addition, 2 and 3 independent prey clones, respectively, contained RIM1 fragments, whose only overlapping sequence encoded the PDZ domain (Figure 1C).

Data for this Article

**Mouse Genome Informatics**  
Genes, expression, function, phenotypes for mice

Data for this Article

**Mouse Genome Informatics**  
Genes, expression, function, phenotypes for mice



# Audioslides on ScienceDirect

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The image shows a screenshot of a ScienceDirect article page. The article title is "Anatomy of a megathrust: The 2010 M8.8 Maule, Chile earthquake rupture zone imaged using seismic tomography". The authors listed are Stephen P. Hicks, Andreas Rietbrock, Isabelle M.A. Ryder, Chao-Shing Lee, and Matthew Miller. The article is from the journal "Earth and Planetary Science Letters", Volume 405, 1 November 2014, Pages 142-155. The article is available under a Creative Commons license and is marked as "Open Access".

On the left side of the article page, there is a sidebar with "Article outline" and "Highlights". The "Highlights" section contains the following text:

- 3-D velocity model of the rupture zone from a combined on- and offshore dataset.
- Velocity model describes detailed physical properties along the megathrust interface.
- Ultramafic bodies in lower forearc inhibited seismic activity.
- Seismic velocities may be used to estimate rupture potential in subduction zones.
- Long-lived geological structure of forearc may affect large megathrust earthquakes.

Below the highlights is the "Abstract" section, which begins with: "Knowledge of seismic velocities in the seismogenic part of subduction zones can reveal how material properties may influence large ruptures. Observations of aftershocks that followed the 2010  $M_w$  8.8 Maule, Chile earthquake provide an exceptional dataset to examine the physical properties of a megathrust rupture zone. We manually analysed aftershocks from onshore seismic stations and ocean bottom seismometers to derive a 3-D velocity model of the rupture zone using local earthquake tomography. From the trench to the magmatic arc, our velocity model illuminates the main features within the subduction zone. We interpret an east-dipping high P-wave velocity anomaly (>6.9 km/s) as the subducting oceanic crust and a low P-wave velocity (<6.25 km/s) in the marine forearc as the accretionary complex. We find two large P-wave velocity anomalies (-7.8 km/s) beneath the coastline. These velocities indicate an ultramafic composition, possibly related to extension and a mantle upwelling during the Triassic. We assess the role played by physical heterogeneity in governing megathrust behaviour. Greatest slip during the Maule earthquake occurred in areas of moderate P-wave velocity (6.5-7.5 km/s), where the interface is structurally more uniform. At shallow depths, high fluid pressure likely influenced the up-dip limit of seismic activity. The high velocity bodies lie above portions of the plate interface where there was reduced coseismic slip and minimal postseismic activity. The northern velocity anomaly may have acted as a structural discontinuity within the forearc, influencing the pronounced crustal seismicity in the Pichilemu region. Our work provides evidence for how the ancient

On the right side of the article page, there is a "Recommended articles" section. One of the recommended articles is "Anatomy of a megathrust: the 2010 M8.8 Maule, Chile earthquake rupture zone imaged using seismic tomography" by Stephen P. Hicks et al., published in Earth and Planetary Science Letters, 8 slides, 04:59 min. Below this is a video player interface with navigation controls (back, forward, search, etc.) and a "Report inappropriate content in this presentation" link.

The inset image shows a close-up of the audio slide player. The title of the slide is "Anatomy of a megathrust: the 2010 M8.8 Maule, Chile earthquake rupture zone imaged using seismic tomography" by Stephen P. Hicks et al. The slide is 8 slides long and 04:59 min. The player interface includes navigation buttons and a "Report inappropriate content in this presentation" link.

# Author Videos on ScienceDirect

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The image shows a screenshot of a ScienceDirect article page. The article is titled "Small representations, string instantons, and Fourier modes of Eisenstein series" from the Journal of Number Theory, Volume 146, January 2015, Pages 187–309. The authors listed are Michael B. Green, Stephen D. Miller, and Pierre Vanhove. The abstract discusses novel features of maximal parabolic Eisenstein series and their applications in string theory.

On the right side of the article page, there is a section titled "Author video for this article" which includes a video player. The video shows three authors: M.B. Green, P. Vanhove, and S.D. Miller. Below the video player is a "Download video" button. A blue callout box highlights this video player, showing a larger view of the video and the "Download video" button.

The ScienceDirect interface includes a search bar at the top, navigation links for Journals and Books, and a user profile for Ozge Seridemis. The article page also features a table of contents on the left, a list of figures and tables, and a list of recommended articles.

## Featured Multimedia on ScienceDirect

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### Contributors

AC and JY initiated and coordinated the Seminar. All authors contributed to the writing of the paper.

### Conflicts of Interest

KR has applied to various Canadian government schemes to commercialise a new version of the Frailty Index based on a comprehensive geriatric assessment and a new screening method, adapted from the Clinical Frailty Scale of the Canadian Study of Health and Aging. To do this, with colleagues he has formed a company called Videx Canada. He has not asserted copyright on any frailty measure discussed here. The other authors declare that they have no conflicts of interest.

### Acknowledgments

#### Acknowledgments

We thank Deirdre Andre, research support librarian at the University of Leeds (Leeds, UK) for her assistance in the creation and running of the search strategy for this Seminar.

### Supplementary Material



Download video (25MB)

Help with mp4 files

Supplementary video. More efficient methods to detect frailty and measure its severity in routine clinical practice need to be developed, especially methods that are useful for primary care.

### References

1. K Kinsella, DR Phillips  
Global aging: the challenge of success. Population bulletin, vol. 60, Population Reference Bureau, Washington (2005) no. 1
2. United Nations

# Interactive Questions on ScienceDirect

Interactive questions help test your researchers' comprehension of the research presented– important when they are expected to be experts in their field

The image shows a screenshot of a ScienceDirect article page. The article title is "Surgical management of an appendiceal neurofibroma in a neurofibromatosis-1 patient: A case report" from the Journal of Pediatric Surgery Case Reports. The article is by Averil Wilson et al. and is available as an Open Access article. The abstract discusses the case of a young adult with neurofibromatosis-1 (NF1) who presented with symptoms of appendicitis, and the surgical management of the resulting appendiceal neurofibroma. The article includes key words: Neurofibromatosis; Neurofibroma; Appendix.

Overlaid on the right side of the article is an interactive question interface. The question is: "What is the primary form of treatment for symptomatic Neurofibromatosis-1?". Below the question are five radio button options: Radiation Therapy, Immunotherapy, Surgical Excision, and Chemotherapy. A "Test" button is located at the bottom of the question interface. The interface also shows a progress indicator "1 / 4" and a "Test" button at the bottom.

# Plum Metrics

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Outline

- Summary
- Introduction
- Definition and presentations
- Pathophysiology
- Pathway
- The frail brain
- The frail endocrine system
- The frail immune system
- Frail skeletal muscle (sarcopenia)
- Frailty models
- Epidemiology
- Prevalence
- Outcomes
- Instrumentation
- Interventions
- Conclusions
- Search strategy and selection criteria
- Acknowledgments
- Supplementary Material
- References

Show full outline

Figures (2)

Tables (1)

Table

Extras (1)

Supplementary video

**THE LANCET**

Volume 381, Issue 9868, 2-8 March 2013, Pages 752-762

Seminar

## Frailty in elderly people

Dr Andrew Clegg MD<sup>a,\*,</sup>, Prof John Young MBBS<sup>a,</sup>, Prof Steve Iliffe MBBS<sup>b,</sup>, Prof Marçal Ode Rikart PhD<sup>c,</sup>, Prof Kenneth Rockwood MD<sup>d</sup>

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Referred to by Department of Error  
The Lancet, Volume 382, Issue 9901, 19-25 October 2013, Pages 1328  
PDF (119KB)

Summary

Frailty is the most problematic expression of population ageing. It is a state of vulnerability to poor resolution of homeostasis after a stressor event and is a consequence of cumulative decline in many physiological systems during a lifetime. This cumulative decline depletes homeostatic reserves until minor stressor events trigger disproportionate changes in health status. In landmark studies, investigators have developed valid models of frailty and these models have allowed epidemiological investigations that show the association between frailty and adverse health outcomes. We need to develop more efficient methods to detect frailty and measure its severity in routine clinical practice, especially methods that are useful for primary care. Such progress would greatly inform the appropriate selection of elderly people for invasive procedures or drug treatments and would be the basis for a shift in the care of frail elderly people towards more appropriate goal-directed care.

Introduction

Population ageing is accelerating rapidly worldwide, from 461 million people older than 65 years in 2004 to an estimated 2 billion people by 2050,<sup>1,2</sup> which has profound implications for the planning and delivery of health and social care. The most problematic expression of population ageing is the clinical condition of frailty. Frailty develops as a consequence of age-related decline in many physiological systems, which collectively results in vulnerability to sudden health status changes triggered by minor stressor events. Between a quarter and half of people older than 85 years are estimated to be frail, and these people have a substantially increased risk of falls, disability, long-term care, and death.<sup>3,4</sup> However, up to three-quarters of people older than 85 years might not be frail, which raises questions about how frailty develops, how it might be prevented, and how it can be detected reliably.

Definition and presentations

Frailty is a state of increased vulnerability to poor resolution of homeostasis after a stressor event, which increases the risk of adverse outcomes, including falls, delirium, and disability.<sup>3,5,6</sup> Frailty is a term established clinical expression that implies exposure about an

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Recommended articles

Frailty Consensus: A Call to Action  
Journal of the American Medical Directors Association  
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Frailty assessment in elderly people  
The Lancet, Volume 381, Issue 9862, 20-3, pp. 1985-...  
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Frailty in the clinical scenario  
The Lancet, Volume 385, Issue 9968, 2015, pp. e7-49  
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Exports-Saves: 131  
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Mentions

Blog Mentions: 2  
News Mentions: 2

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Tweets: 140

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Citation Indexes: 945

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**Article Metrics**

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**Captures**

Exports-Saves: **131**

Readers: **643**

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**Mentions**

Blog Mentions: **2**

News Mentions: **2**

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**Social Media**

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Tweets: **140**

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**Citations**

Citation Indexes: **945**

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Scopus<sup>®</sup>

# AGENDA

- Scopus Content
  - Coverage
  - Selection Process
- Metrics & Analysis Tools
  - Journal Level Metrics
  - Article Level Metrics
  - Acquisition of Plum Analytics
  - Analysis tools
- Profiles
  - Institutional Profiles
  - Author Profiles

# Facts and Figures - Scopus®

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- \***Over 4.000** active Gold Open Access journals are indexed
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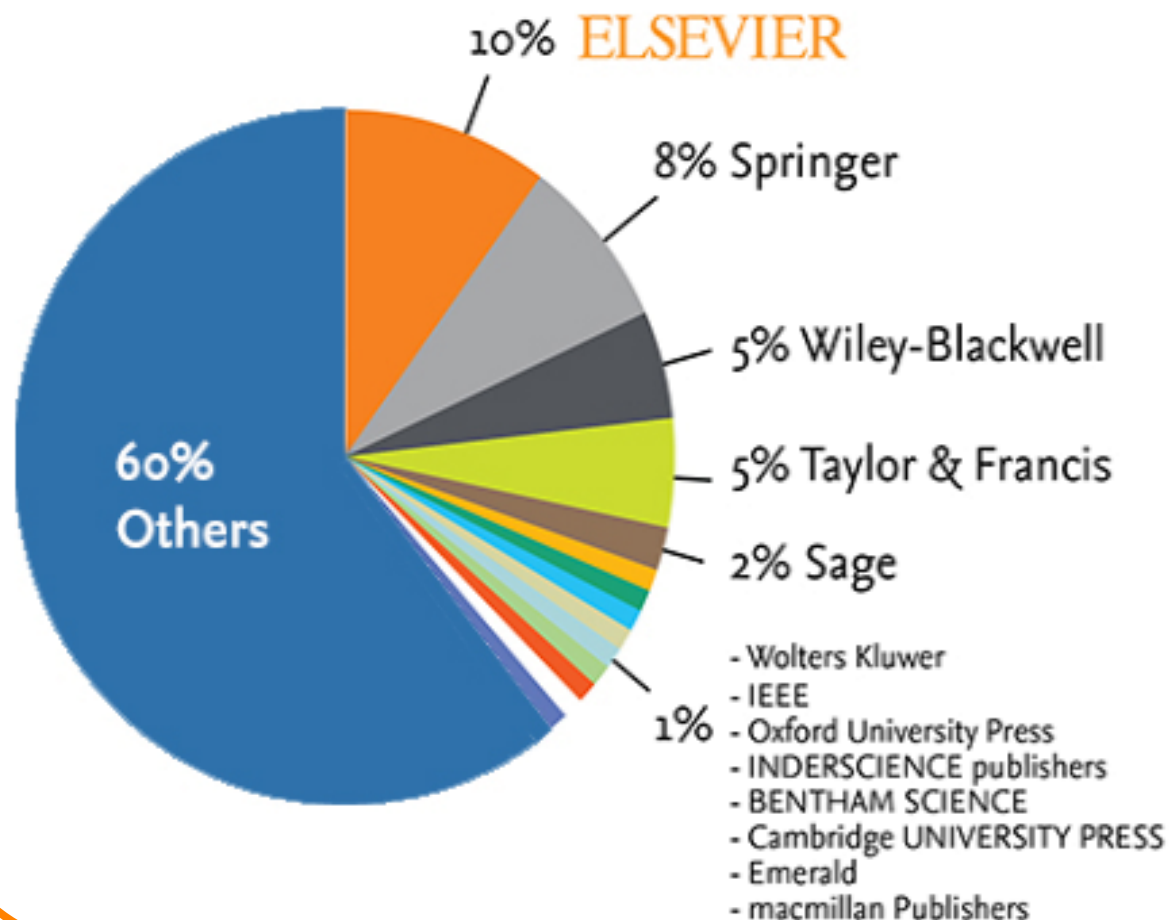
	JOURNALS	CONFERENCES	BOOKS	PATENTS*
Physical Sciences	<b>21,951</b> peer-reviewed journals	<b>100K</b> conference events	<b>562</b> book series	<b>27M</b> patents
Health Sciences	<b>280</b> trade journals	<b>8M</b> conference papers	<b>150K</b> stand-alone books	From 5 major patent offices
Social Sciences	<ul style="list-style-type: none"> <li>• Full metadata, abstracts and cited references (refs post-1970 only)</li> </ul>	Mainly Engineering and Computer Sciences	<b>1.2M</b> items	- WIPO
Life Sciences	<ul style="list-style-type: none"> <li>• Funding data from acknowledgements</li> <li>• Citations back to 1970</li> </ul>		Focus on Social Sciences and A&H	- EPO
				- USPTO
				- JPO
				- UK IPO



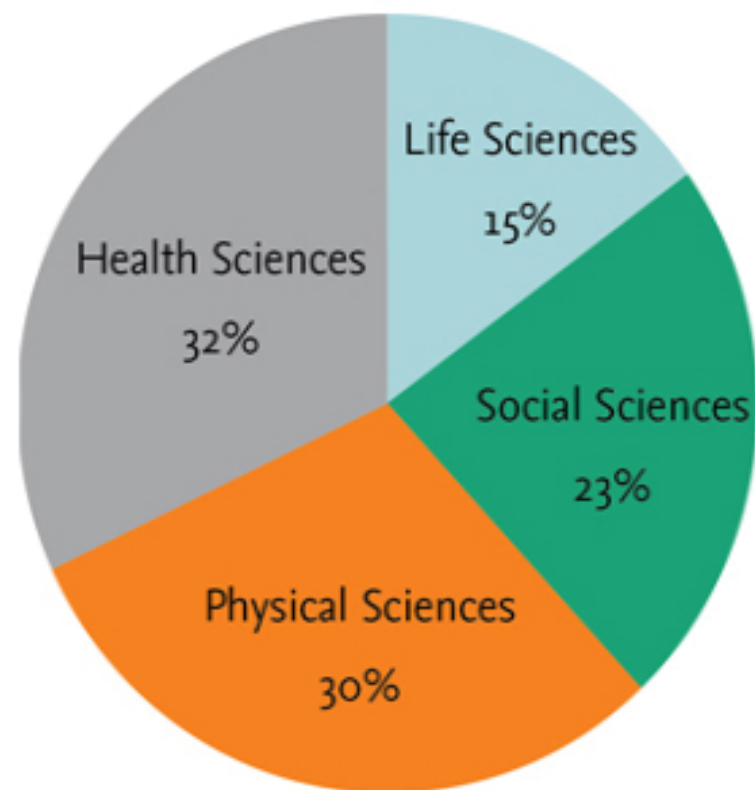
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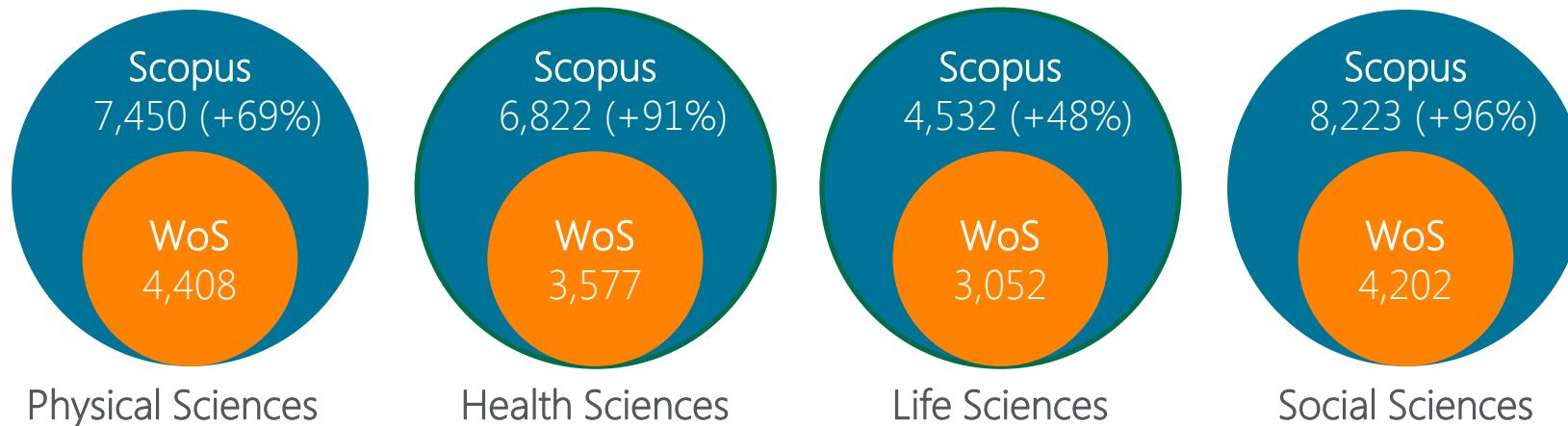
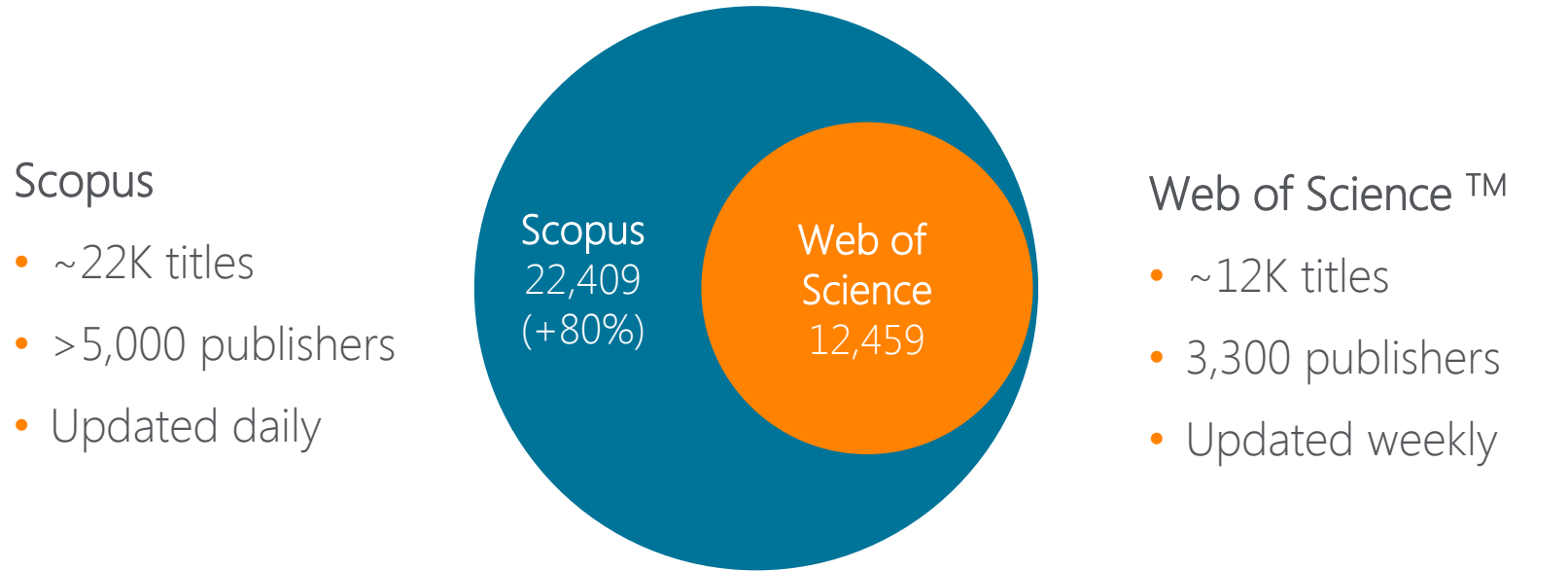
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**Subject coverage in Scopus**

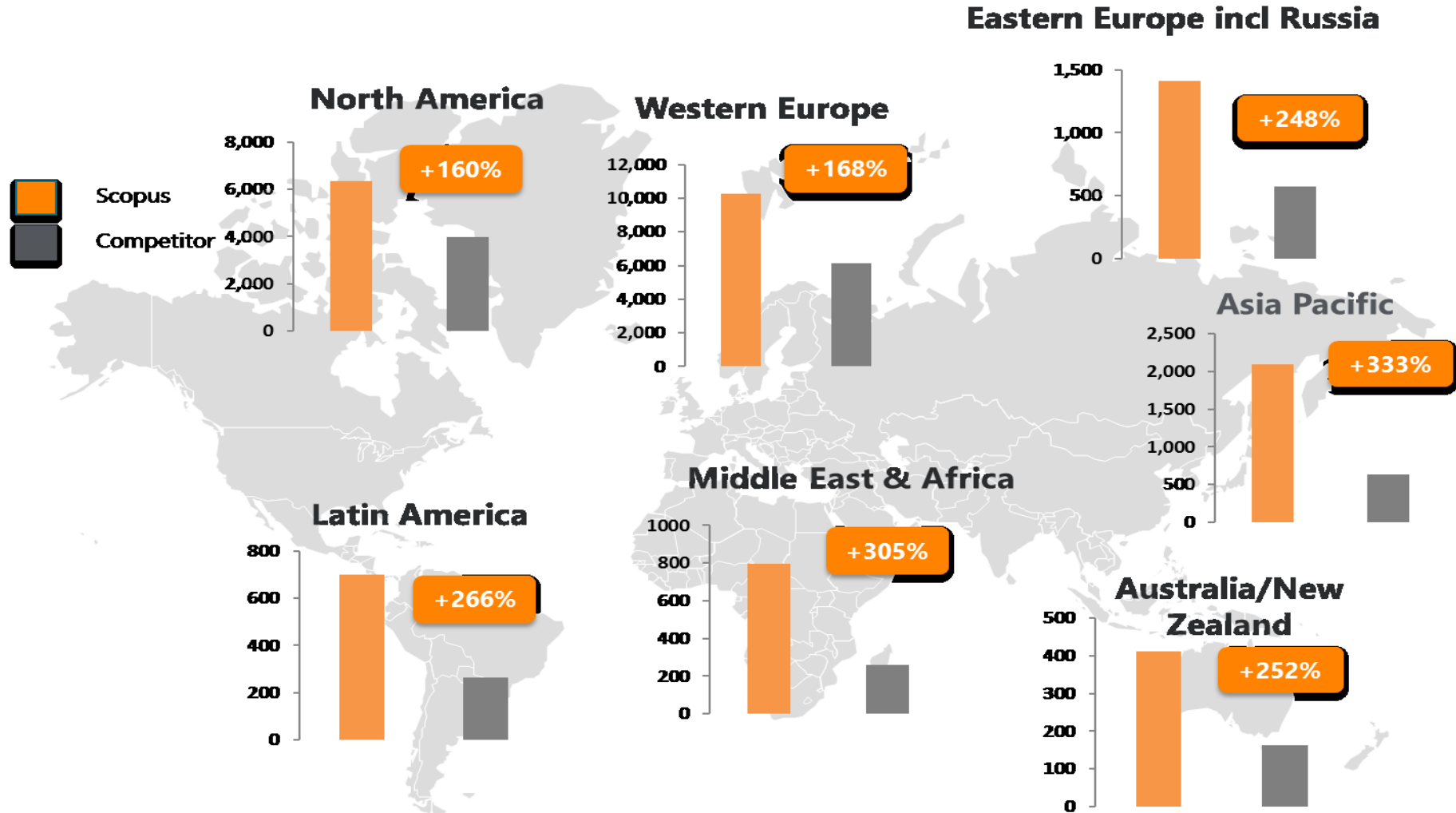


# Content Comparison with Web of Science



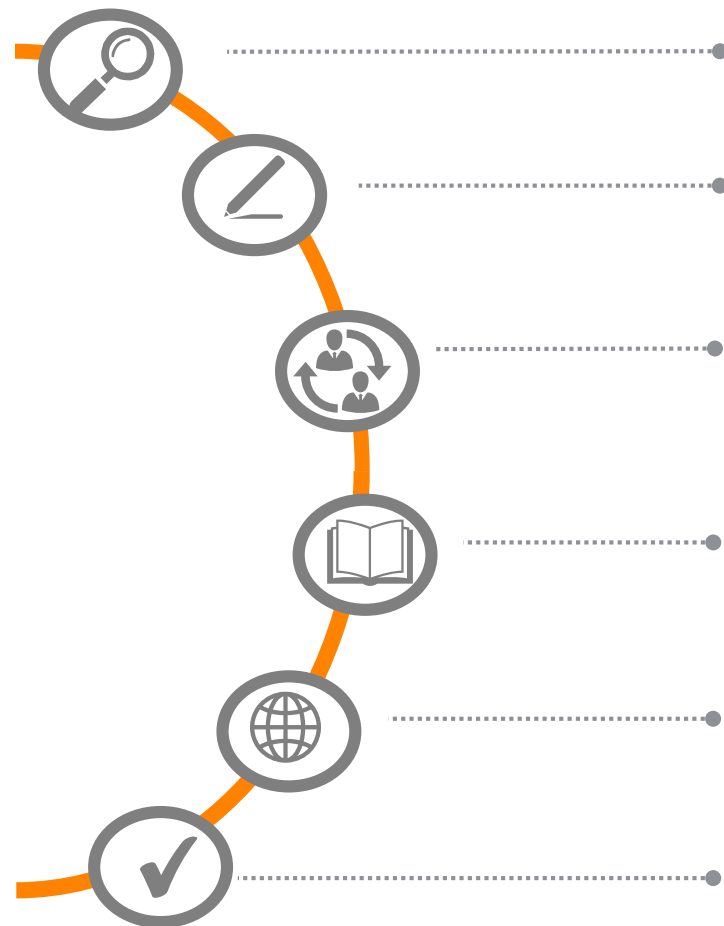
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Refine Results

Basic/ Advanced Search

Author/Affiliation  
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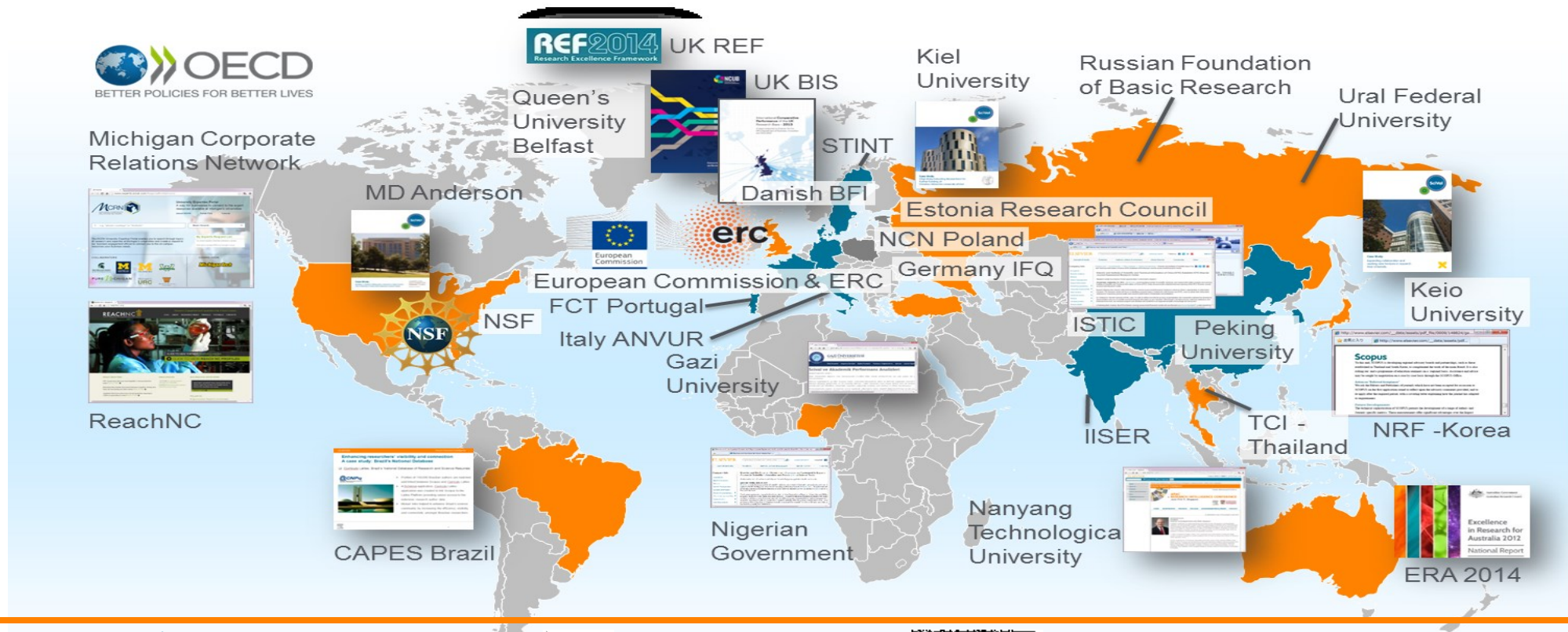
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# Selection Process & Criteria - Scopus®

The CSAB is selective and strict on quality: in total 5,411 **titles reviewed** (2011 –2015) of which 2,587 **(48%) accepted** for Scopus

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- Convincing editorial concept/policy
- Type of peer-review
- Diversity geographic distribution of editors
- Diversity geographic distribution of authors

## Quality of Content

- Academic contribution to the field
- Clarity of abstracts
- Quality and conformity with stated aims & scope
- Readability of articles

## Journal standing

- Citedness of journal articles in Scopus
- Editor standing

## Regularity

- No delay in publication schedule

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- Content available online
- English-language journal home page
- Quality of home page

Eligible titles are reviewed by the CSAB according to a **combination of 14 quantitative and qualitative selection criteria:**



# Selection Process & Criteria - Scopus®

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# Selection Process & Criteria - Scopus®

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Full Scopus Journal base	
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CSAB review	<b>If a journal underperforms for <u>2 consecutive years</u>, CSAB will re-evaluate the title based on Scopus selection criteria</b> Flagged journals for which concerns are raised, CSAB will re-evaluate the title based on Scopus selection criteria
CSAB decision	Continue forward flow   or   Discontinue forward flow

## Current Developments – **Book Expansion Program**

Currently Scopus includes **35k book volumes** from **562 book series**, **1.27 million book items** from **156k one-off book publications**. Over 50% of the content belongs to Arts & Humanities and Social Sciences.

Book Expansion Program ran from **2013 – 2016** and covers scholarly books that represent fully-referenced, original research or literature reviews.

### W H A T

- Focus on Social Sciences and Arts & Humanities, but also Science, Technology & Medicine (STM)
- Coverage years back to 2005 (2003 for A&H)
- 130,000+ books added as part of the program with ~20 thousand each year going forward
- Book types in scope: Monographs, Edited Volumes, Major Reference Works, Graduate Level Text Books
- Selection via publisher-based approach (all books “in scope” from selected publishers are included).

### W H Y

- Improve completeness of coverage in Social Sciences and Arts & Humanities subject fields
- Enhance the discoverability of books in general
- Measure impact through citations from and to books and between books and journals
- Increase the accuracy to show the full scientific output in profiles for research assessments.

More information on the publisher based book selection process (no individual book suggestions are considered) and the book suggestion form:

<https://www.elsevier.com/solutions/scopus/content/content-policy-and-selection>

## Current Developments – **Pre-1996 cited references expansion program**

Program includes adding cited references to pre-1996 content going back to 1970

*Around 4.5M+ articles will be re-processed to include cited references. In addition around 7.5M pre-1996 articles will be backfilled*

**11,545,599**

documents updated

**43%**

1970-1996 content touched

**11,000>**

journals updated

**63**

publisher archives

**+41%**

average h-index increase

**188,632**

citations for most cited paper

# Metrics in Scopus®

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When used correctly, research metrics together with qualitative input give a balanced, multi-dimensional view for decision-making.



Golden Rule # 2

Always use **more than one research metric** as the quantitative input

Golden Rule # 1

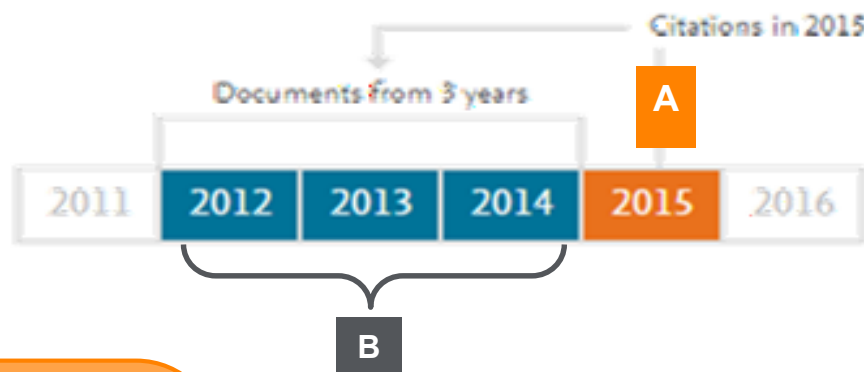
Always use both **qualitative and quantitative input** into your decisions

# Journal Level Metrics in Scopus®

1

**CiteScore** : CiteScore calculates the average number of citations received in a calendar year by all items published in that journal in the preceding 3 years. Calculation is below:

$$\text{CiteScore 2015 value} = \frac{\text{A}}{\text{B}}$$



## Differences from Impact Factor:

- IF - citation to 2 or 5 years of documents are covered.
- Citations in all type of documents in these years covered, while citable items are only articles and reviews

## Advantages of CiteScore:

- **Comprehensive:** based on Scopus, available for all serial titles
- **Transparent:** Available for free, easy to calculate for yourself. Underlying database is available for you to interrogate
- **Current:** Updated monthly. New titles will have CiteScore a year after indexed

## Journal Level Metrics in Scopus<sup>®</sup>

### 2

#### **SNIP – Source Normalized Impact per paper :**

- It is developed by Henk Moed - CWTS (Centre for Science and Technology Studies)- Leiden University
- It Measures the average citation impact of the publications of a journal, correcting for the differences in citation practices between scientific fields and therefore allowing for more accurate between-field comparisons of citation impact.
- Its calculation is based on last 3 years.

***It is field-normalized and allows us the direct comparison of sources in different subject fields!***

### 3

#### **SJR – SCImago Journal Rank:**

- It is developed by by Felix de Moya, CSIC (Spanish Research Council)
- It is a Prestige metric -advocates not all citations are the same
- Citations are weighted depending on the status of the source they come from.
- **The subject field, quality and reputation of the journal has a direct impact on the value of a citation. This means that a citation from a source with a relatively high SJR is worth more than a citation from a source with a lower SJR**
- Its calculation is based on last 3 years.



## Article Level Metrics in Scopus<sup>®</sup>

**1**

**Citation Count:** indicates how many times a paper was cited (according to the data in Scopus)

**2**

**FWCI – Field Weighted Citation Impact:** indicates how well the paper is doing in comparison to others in the same field. The numerator contains the number of citations and the denominator contains the expected citation count, typical for an average paper in the field. Data is sourced from SciVal.

*Average FWCI is 1, anything above 1 is considered as above average.*

**3**

**Citation Benchmarking:** compares your paper with others in the same field. Citation data is collected for a period of 18 months and is compared with at least 2500 papers of the same type and from same field. Therefore, it is not available for each article.

**4**

**Mendeley:** shows how many Mendeley users have this article in their libraries. It is an indicator of readability of the article.

# Author Level Metrics in Scopus<sup>®</sup>

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## H- index :

- It is Originated by Jorge Hirsch in 2005
- A group of papers has index **h** if **h** of the papers have at least **h** citations each, and the other papers have no more than **h** citations each.
- Attempts to measure both the productivity and impact of the published work of a scholar

***If an author's h-index is 10, it means he has 10 articles that each of them have at least 10 citations !***

# Acquisition of Plum Analytics

By embedding the alt metrics, Scopus now visualizes scholarly engagement!  
It includes 5 categories of metrics:



## USAGE

(clicks, downloads, views, library holdings, video plays)



## CAPTURES

(bookmarks, code forks, favorites, readers, watchers)



## MENTIONS

(blog posts, comments, reviews, Wikipedia links)



## SOCIAL MEDIA

(+1s, likes, shares, tweets)



## CITATIONS

(citation indexes, patent citations, clinical citations)

Plum tracks activity from **>45 platforms**, and we continue to invest more:



**Usage**  
 Clicks: **814**  
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 Blog Mentions: **3**  
 Comments: **8**  
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 Citations: **298**

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## Acquisition of Plum Analytics

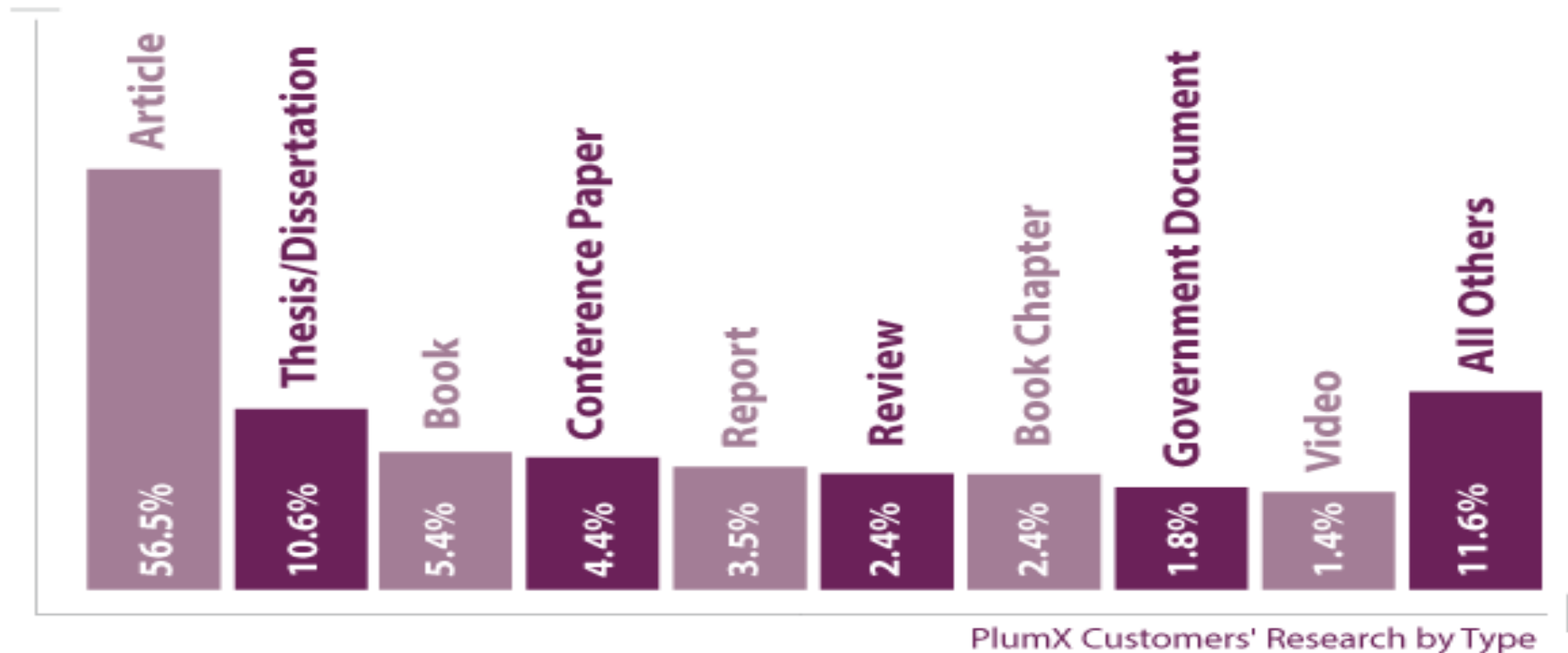
Plum Analytics customers measure many types of research output. While articles are still the largest component, they are only just over 50% of everything considered research output.

# What is Research Output?

There are **67** ARTIFACT TYPES

Research output is more than articles.

Measure it ALL



How Plum Analytics Customers Define Research Output

<http://plumanalytics.com/learn/about-artifacts/>

# Acquisition of Plum Analytics

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Outline

- Summary
- Introduction
- Definition and presentations
- Pathophysiology
- Pathway
- The frail brain
- The frail endocrine system
- The frail immune system
- Frail skeletal muscle (sarcopenia)
- Frailty models
- Epidemiology
- Prevalence
- Outcomes
- Instrumentation
- Interventions
- Conclusions
- Search strategy and selection criteria
- Acknowledgments
- Supplementary Material
- References

Show full outline

Figures (2)

Tables (1)

Table

Extras (1)

Supplementary video

**THE LANCET**

Volume 381, Issue 9868, 2-8 March 2013, Pages 752-762

Seminar

## Frailty in elderly people

Dr Andrew Clegg MD<sup>a,\*,</sup>, Prof John Young MBBS<sup>a,</sup>, Prof Steve Iliffe MBBS<sup>b,</sup>, Prof Marçal Ode Rikart PhD<sup>c,</sup>, Prof Kenneth Rockwood MD<sup>d</sup>

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[https://doi.org/10.1016/S0140-6736\(12\)62167-9](https://doi.org/10.1016/S0140-6736(12)62167-9) [Get rights and content](#)

Referred to by Department of Error  
The Lancet, Volume 382, Issue 9901, 19-25 October 2013, Pages 1328  
[PDF \(119KB\)](#)

Summary

Frailty is the most problematic expression of population ageing. It is a state of vulnerability to poor resolution of homeostasis after a stressor event and is a consequence of cumulative decline in many physiological systems during a lifetime. This cumulative decline depletes homeostatic reserves until minor stressor events trigger disproportionate changes in health status. In landmark studies, investigators have developed valid models of frailty and these models have allowed epidemiological investigations that show the association between frailty and adverse health outcomes. We need to develop more efficient methods to detect frailty and measure its severity in routine clinical practice, especially methods that are useful for primary care. Such progress would greatly inform the appropriate selection of elderly people for invasive procedures or drug treatments and would be the basis for a shift in the care of frail elderly people towards more appropriate goal-directed care.

Introduction

Population ageing is accelerating rapidly worldwide, from 461 million people older than 65 years in 2004 to an estimated 2 billion people by 2050,<sup>1,2</sup> which has profound implications for the planning and delivery of health and social care. The most problematic expression of population ageing is the clinical condition of frailty. Frailty develops as a consequence of age-related decline in many physiological systems, which collectively results in vulnerability to sudden health status changes triggered by minor stressor events. Between a quarter and half of people older than 85 years are estimated to be frail, and these people have a substantially increased risk of falls, disability, long-term care, and death.<sup>3,4</sup> However, up to three-quarters of people older than 85 years might not be frail, which raises questions about how frailty develops, how it might be prevented, and how it can be detected reliably.

Definition and presentations

Frailty is a state of increased vulnerability to poor resolution of homeostasis after a stressor event, which increases the risk of adverse outcomes, including falls, delirium, and disability.<sup>3,5,6</sup> Frailty is a term established clinical expression that implies exposure about an

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Frailty Consensus: A Call to Action  
Journal of the American Medical Directors Association  
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Frailty assessment in elderly people  
The Lancet, Volume 381, Issue 9862, 20-3, pp. 1985-...  
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Frailty in the clinical scenario  
The Lancet, Volume 385, Issue 9968, 2015, pp. e7-49  
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**Mentions**

Blog Mentions: **2**

News Mentions: **2**

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Tweets: **140**

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# Acquisition of Plum Analytics

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Journal of Biological Chemistry  
Volume 285, Issue S3, 31 December 2010, Pages 41935-41946

## Intrarenal renin angiotensin system revisited: Role of megalin-dependent endocytosis along the proximal nephron (Article)

Pohl, M.<sup>a</sup>, Kaminski, H.<sup>a</sup>, Castrop, H.<sup>a</sup>, Bader, M.<sup>a</sup>, Himmerkus, N.<sup>a</sup>, Bleich, M.<sup>a</sup>, Bachmann, S.<sup>a</sup>,

<sup>a</sup>Institute of Anatomy, Charité Universitätsmedizin, 10115 Berlin, Germany

<sup>b</sup>Institute of Physiology, University Regensburg, 93053 Regensburg, Germany

<sup>c</sup>Max-Delbrück-Center for Molecular Medicine, 13092 Berlin, Germany

View additional affiliations

### Abstract

The existence of a local renin angiotensin system (RAS) of the kidney has been established. Angiotensinogen (AGI), renin, angiotensin-converting enzyme (ACE), angiotensin receptors, and high concentrations of luminal angiotensin II have been found in the proximal tubule. Although functional data have documented the relevance of a local RAS, the dualism between biosynthesis and endocytotic uptake of its components and their cellular processing has been incompletely understood. To resolve this, we have selectively analyzed their distribution, endocytosis, transcytosis, and biosynthesis in the proximal tubule. The presence of immunoreactive AGI, restricted to the early proximal tubule, was due to its retrieval from the ultrafiltrate and storage in endosomal and lysosomal compartments. Cellular uptake was demonstrated by autoradiography of radiolabeled AGI and depended on intact endocytosis. AGI was identified as a ligand of the multiple ligand-binding repeats of megalin. AGI biosynthesis was restricted to the proximal straight tubule, revealing substantial AGI mRNA expression. Transgenic AGI overexpression under the control of an endogenous promoter was also restricted to the late proximal tubule. Proximal handling of renin largely followed the patterns of AGI, whereas its local biosynthesis was not significant. Transcytotic transport of AGI in a proximal cell line revealed a 5% recovery rate after 1 h. ACE was expressed along late proximal brush-border membrane, whereas ACE2 was present along the entire segment. Surface expression of ACE and ACE2 differed as a function of endocytosis. Our data on the localization and cellular processing of RAS components provide new aspects of the functional concept of a "self-contained" renal RAS. © 2010 by The American Society for **Biochemistry** and Molecular Biology, Inc.

### Indexed keywords

Compendex keywords

[Angiotensin II](#) [Angiotensin-converting enzyme](#) [Cell lines](#) [Cellular uptake](#) [Endogenous promoters](#) [Functional data](#) [High concentration](#) [Ligand binding](#) [mRNA expression](#) [Over-expression](#) [Recovery rate](#)  
[Renin-angiotensin system](#) [Surface expression](#) [Transcytosis](#) [Transgenics](#)

Engineering controlled terms:

[Biochemistry](#) [Biosynthesis](#) [Cell culture](#) [Radiography](#)

Engineering main heading:

[Molecular biology](#)

EMTREE drug terms:

[angiotensin converting enzyme 2](#) [angiotensinogen](#) [dipeptidyl carboxypeptidase](#) [megalyn](#) [messenger RNA](#)

EMTREE medical terms:

[animal cell](#) [article](#) [biosynthesis](#) [controlled study](#) [endocytosis](#) [endosome](#) [immunoreactivity](#) [kidney proximal tubule](#) [lysosome](#) [male](#) [nonhuman](#) [priority journal](#) [protein binding](#) [protein expression](#) [protein localization](#)  
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MeSH:

[Animals](#) [Animals, Genetically Modified](#) [Endocytosis](#) [Endosomes](#) [Humans](#) [Kidney](#) [LDL-Receptor Related Protein 2](#) [Lysosomes](#) [Male](#) [Mice](#) [Mice, Knockout](#) [Nephrons](#) [Rats](#) [Rats, Sprague-Dawley](#)  
[Renin-Angiotensin System](#)

### Chemicals and CAS Registry Numbers:

angiotensinogen, 11002-13-4, 64315-16-8; dipeptidyl carboxypeptidase, 9015-82-1;

LDL-Receptor Related Protein 2

Metrics 
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**Captures**

Exports-Saves:	1
Readers:	31

**Citations**

Citation Indexes:	52
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**Cited by 75 documents**

Blood Pressure Lowering and Safety Improvements with Liver Angiotensinogen Inhibition in Models of Hypertension and Kidney Injury  
Mullick, A.E., Yeh, S.T., Graham, M.J.  
(2017) *Hypertension*

Intravital imaging of the kidney in a rat model of salt-sensitive hypertension  
Endres, B.T., Sandoval, R.M., Rhodes, G.J.  
(2017) *American Journal of Physiology - Renal Physiology*

Recent Advances in Angiotensin Research  
Mirabito Colafella, K.M., Danser, A.H.J.  
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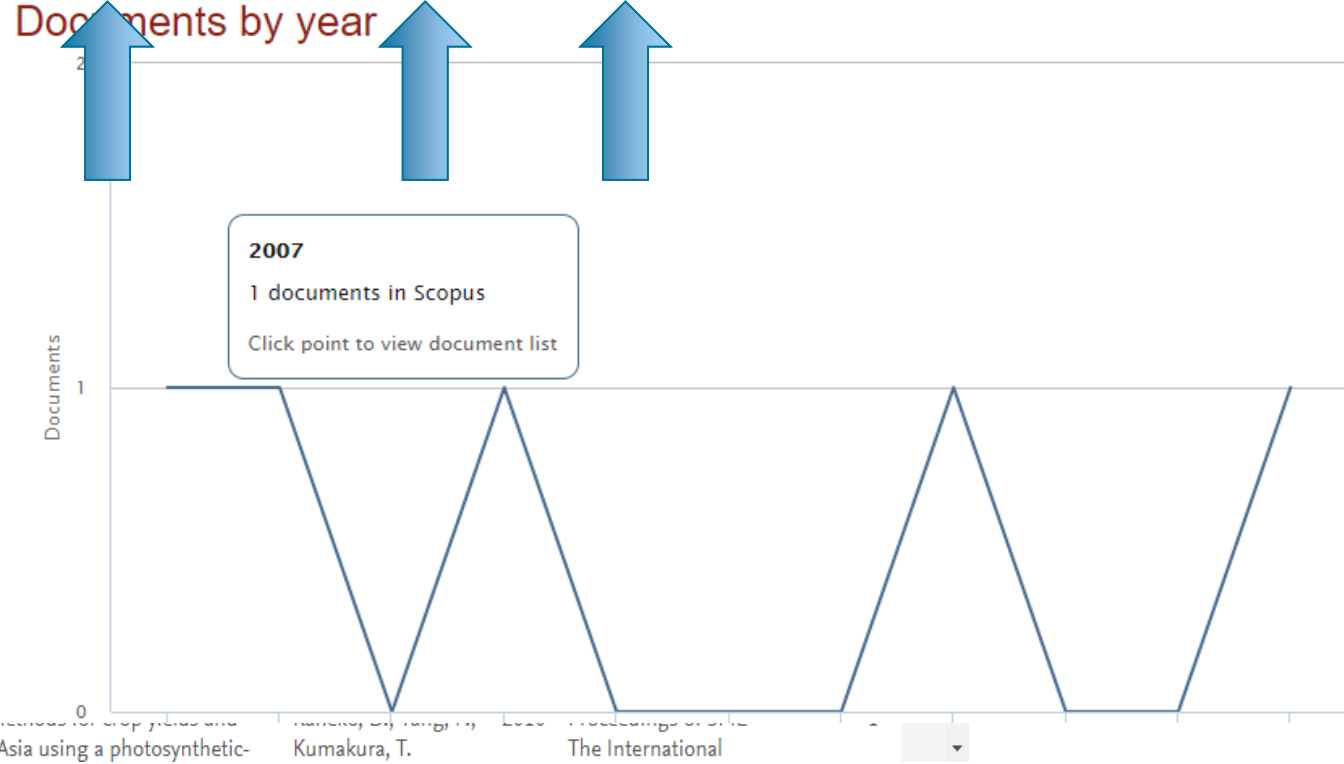
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Year	Source	Author	Affiliation	Country/Territory	Document type	Subject area
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Year	Documents
2017	1
2016	0
2015	0
2014	1
2013	0
2012	0
2011	0
2010	1
2009	0
2008	1
2007	1



Author name

5 Carbon partitioning as radiation-induced for crop yields and CO2 sequestration monitoring in Asia using a photosynthetic- Kumakura, T. Proceedings of the International

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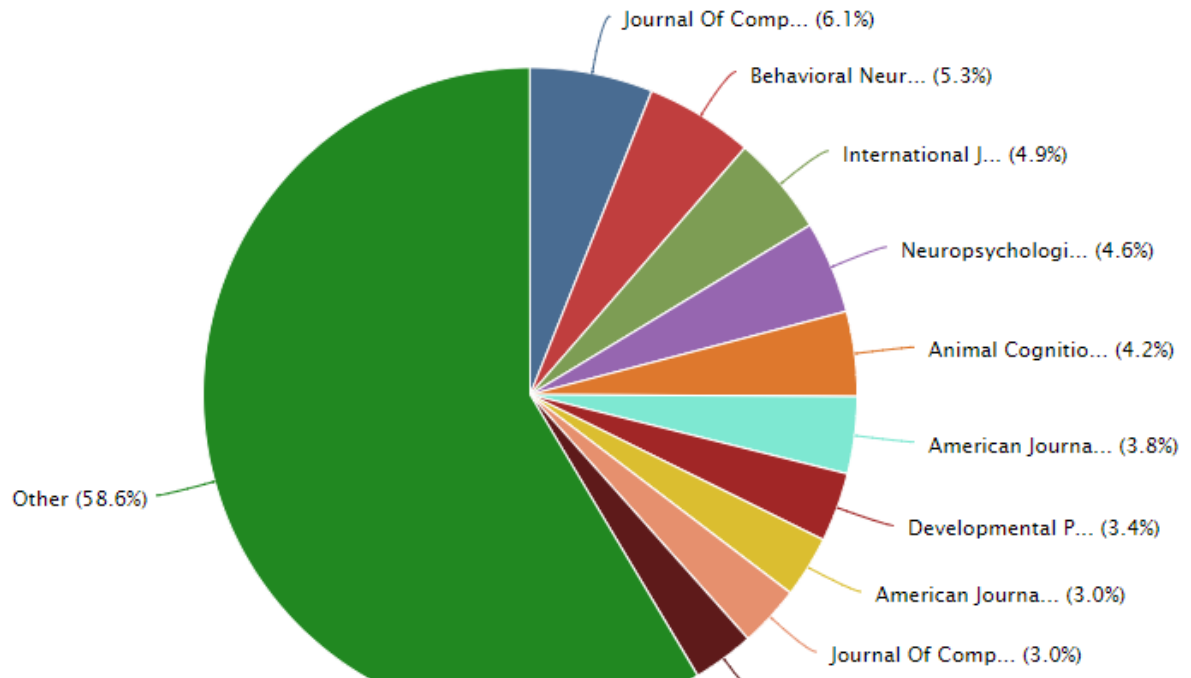
Hopkins, William D. [Back to author details page](#)  
 Georgia State University, Atlanta, United States  
 Author ID:7201639143

**Documents (263)** | *h*-index (50) | Citations (7810) | Co-authors (150)

by source | by type | by year | by subject area

Source	Documents
Journal Of Comparative Psycho...	6
Behavioral Neuroscience	4
International Journal Of Primatology	13
Neuropsychologia	12
Animal Cognition	11
American Journal Of Primatology	10
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American Journal Of Physical Anth...	8
Journal Of Comparative Psycholog...	8
Plos One	8
Cerebral Cortex	7
Journal Of Comparative Neurology	7
Laterality	7

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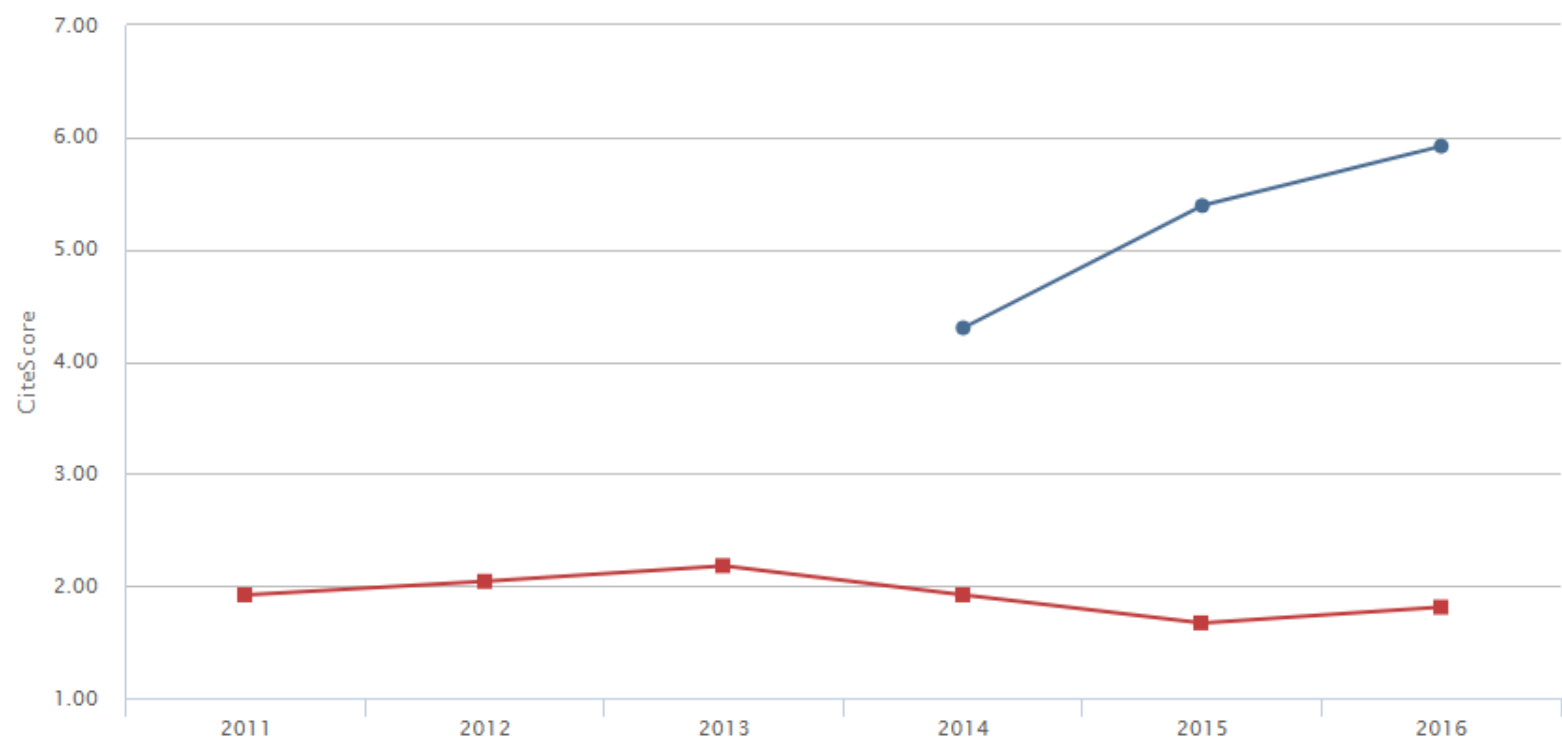
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Source	CiteScore
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<input type="checkbox"/> Canadian Journal of Chemistry	0.90
<input type="checkbox"/> Chemical and Engineering News	0.16
<input type="checkbox"/> Chemical Papers	1.28
<input type="checkbox"/> Chemistry and Biodiversity	1.61
<input type="checkbox"/> Chemistry and Chemical Technology	0.32
<input type="checkbox"/> Chemistry and Industry	0.00
<input type="checkbox"/> Chemistry and Technology of Fuels and ...	0.34
<input type="checkbox"/> Chemistry Journal of Moldova	
<input type="checkbox"/> Chemistry of Materials	8.89
<input type="checkbox"/> Coke and Chemistry	0.30
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<input type="checkbox"/> Fibre chemistry	0.12
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CiteScore Publication by year ?



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Many researchers have names that too closely resemble each other. In order to prevent name ambiguity, we strongly recommend researchers to have ORCID, since Scopus Author profile and ORCID complement each other.



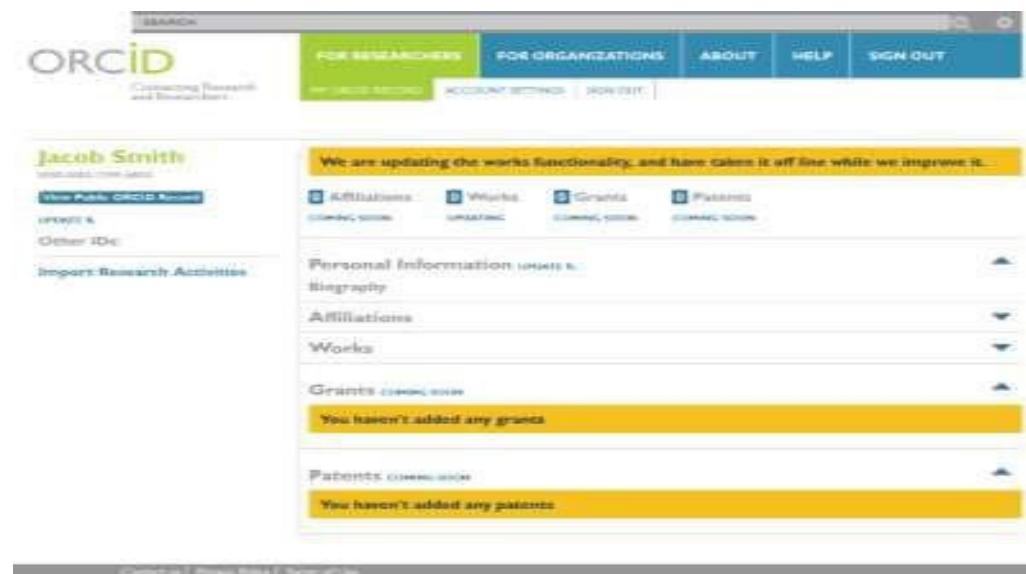
Dr. Smith  
Dr. J. Smith  
Dr. James Smith



Dr. James Smith  
46533489

### **ORCID Mission:**

*ORCID aims to solve the name ambiguity problem in research and scholarly communications by creating a central registry of unique identifiers for individual researchers*



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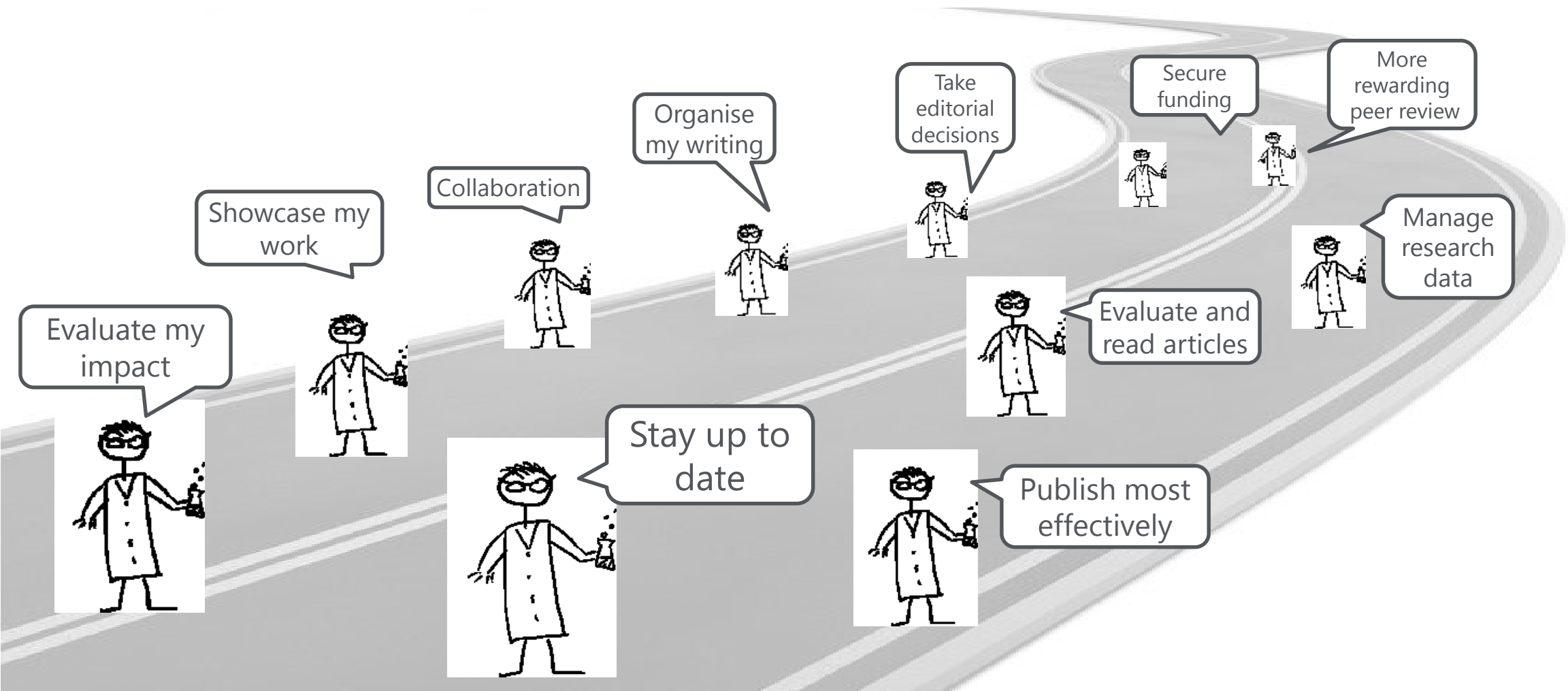
# AGENDA

- Mendeley Content
- What are the advantages of Mendeley?
- How to use Mendeley?
- Mendeley Institutional Edition

## What do researchers need?

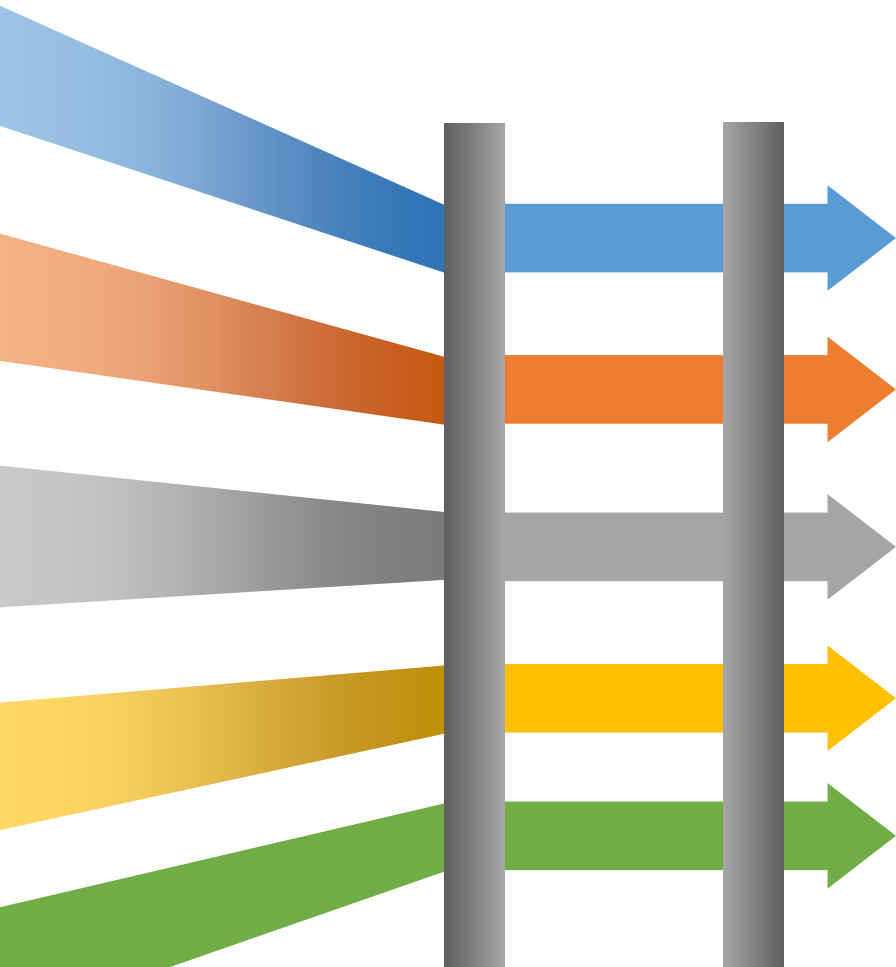
The changes in the world of research are influencing researcher needs.

Information is increasingly accessible: from articles, blogs or research and experimental data. Researchers need help determining **what information is relevant** and can help them to achieve their goals.



## What is MENDELEY ?

Mendeley is a **free research workflow tool and academic social network** that enables and empowers researchers to **organize their references, connect and inspire each other, store and share their data** and **find new career opportunities**.



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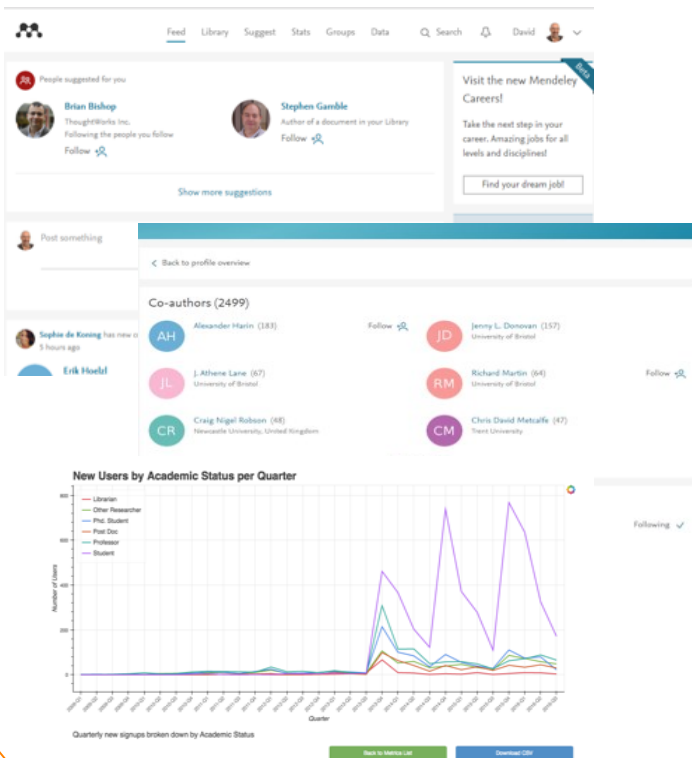
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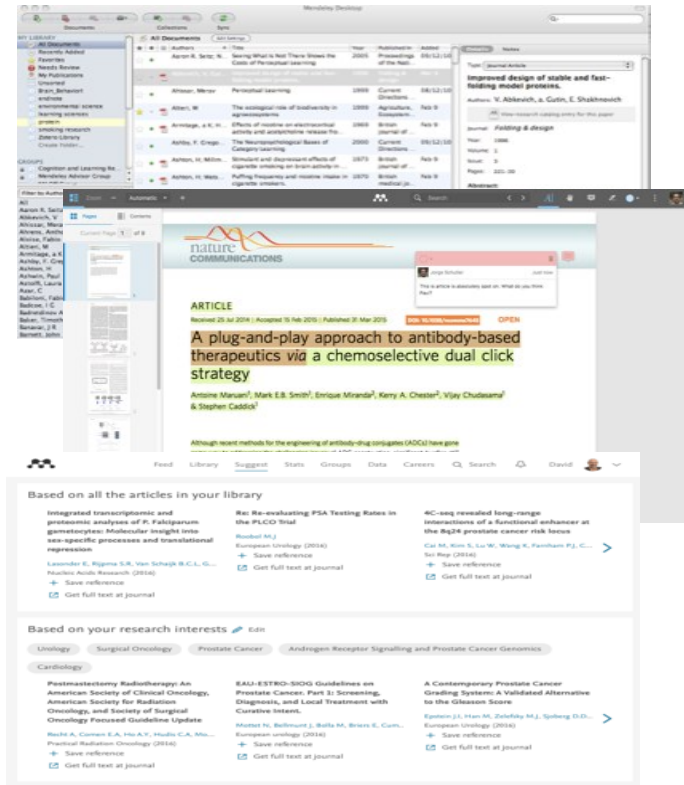
Research Network, people recommender, collaboration, careers & Institutional analytics



The screenshot shows the Mendeley user interface. At the top, there are navigation tabs: Feed, Library, Suggest, Stats, Groups, Data, Search, and a user profile icon. Below the navigation, there are sections for 'People suggested for you' featuring profiles of Brian Bishop and Stephen Gamble. A 'Visit the new Mendeley Careers!' banner is also present. The main content area shows a 'Co-authors (2499)' list with circular icons and names of various researchers. At the bottom, there is a line chart titled 'New Users by Academic Status per Quarter' showing the number of new users over time, broken down by academic status: Librarian, Other Researcher, PhD Student, Post Doc, Professor, and Student.

**Doing research**

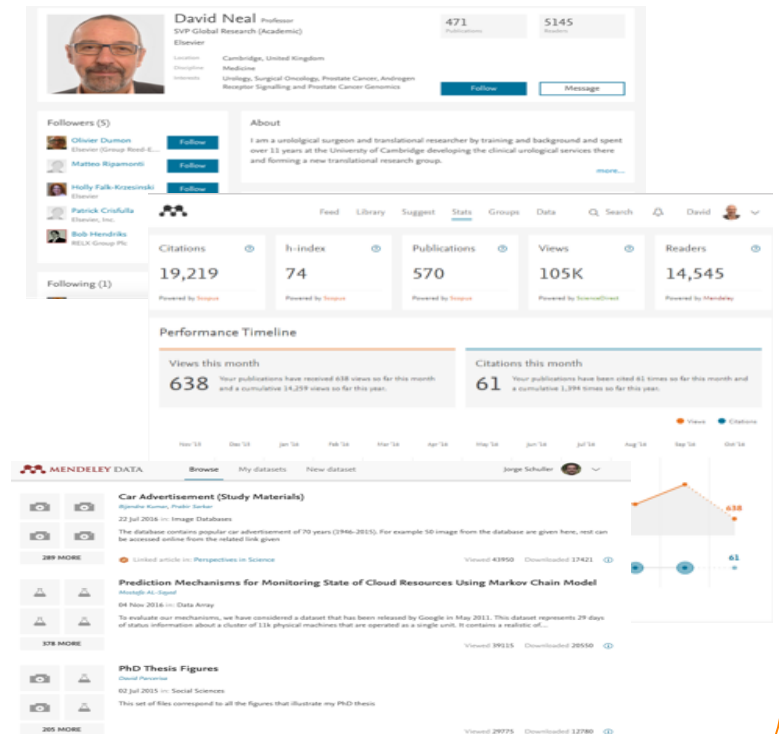
Productivity tools including Reference Management and content discovery



The screenshot displays the Mendeley Desktop application. The top window shows a list of documents with columns for Name, Year, Published in, and Type. Below this, a 'NATURE COMMUNICATIONS' article is highlighted, titled 'A plug-and-play approach to antibody-based therapeutics via a chemoselective dual click strategy'. The article details authors and a date. Below the article, there are sections for 'Based on all the articles in your library' and 'Based on your research interests', each listing related articles with options to save references or get full text.

**Sharing research**

Research profiles, Bibliometrics & Data repository services



The screenshot shows the Mendeley Data and user profile interface. At the top, a user profile for David Neal is displayed, including his photo, name, title (Professor), and affiliation (SVP Global Research (Academic)). Below the profile, there are statistics for Citations (471), Publications (5145), and Followers (5). A 'Performance Timeline' section shows 'Views this month' (638) and 'Citations this month' (61). The bottom part of the interface shows a list of datasets, including 'Car Advertisement (Study Materials)', 'Prediction Mechanisms for Monitoring State of Cloud Resources Using Markov Chain Model', and 'PhD Thesis Figures', each with a brief description and download/view counts.

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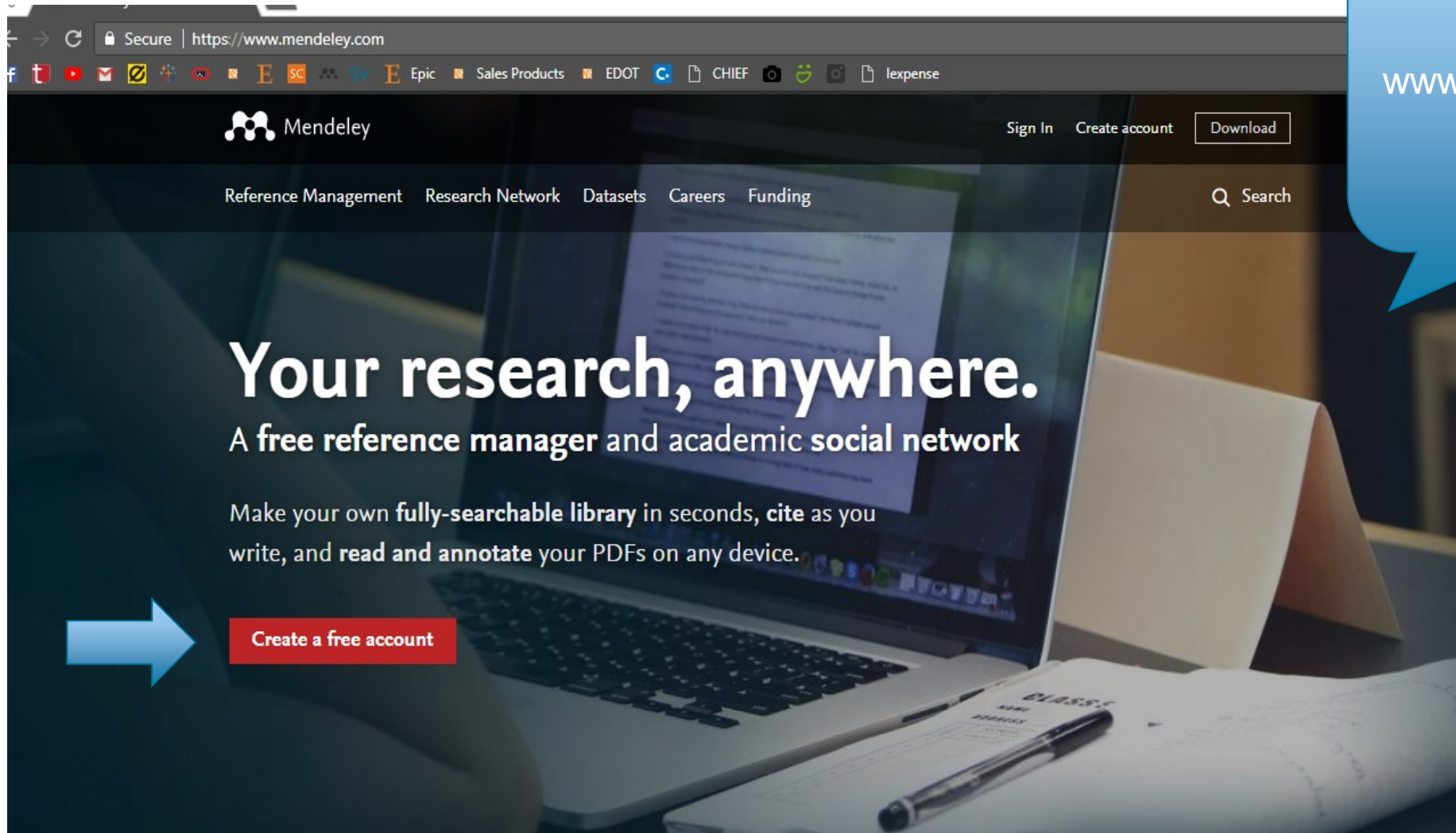
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### Acquisition of SSRN – Social Science Research Network

- SSRN is a leading social science and humanities repository and online community that provides the online database of early scholarly research.
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- It currently has over 2 mio members, 671k paper abstracts from over 300k authors worldwide.

*it accelerates our social community strategy, brings opportunities for enhanced author relationships, and provides access to a leading resource for content.*

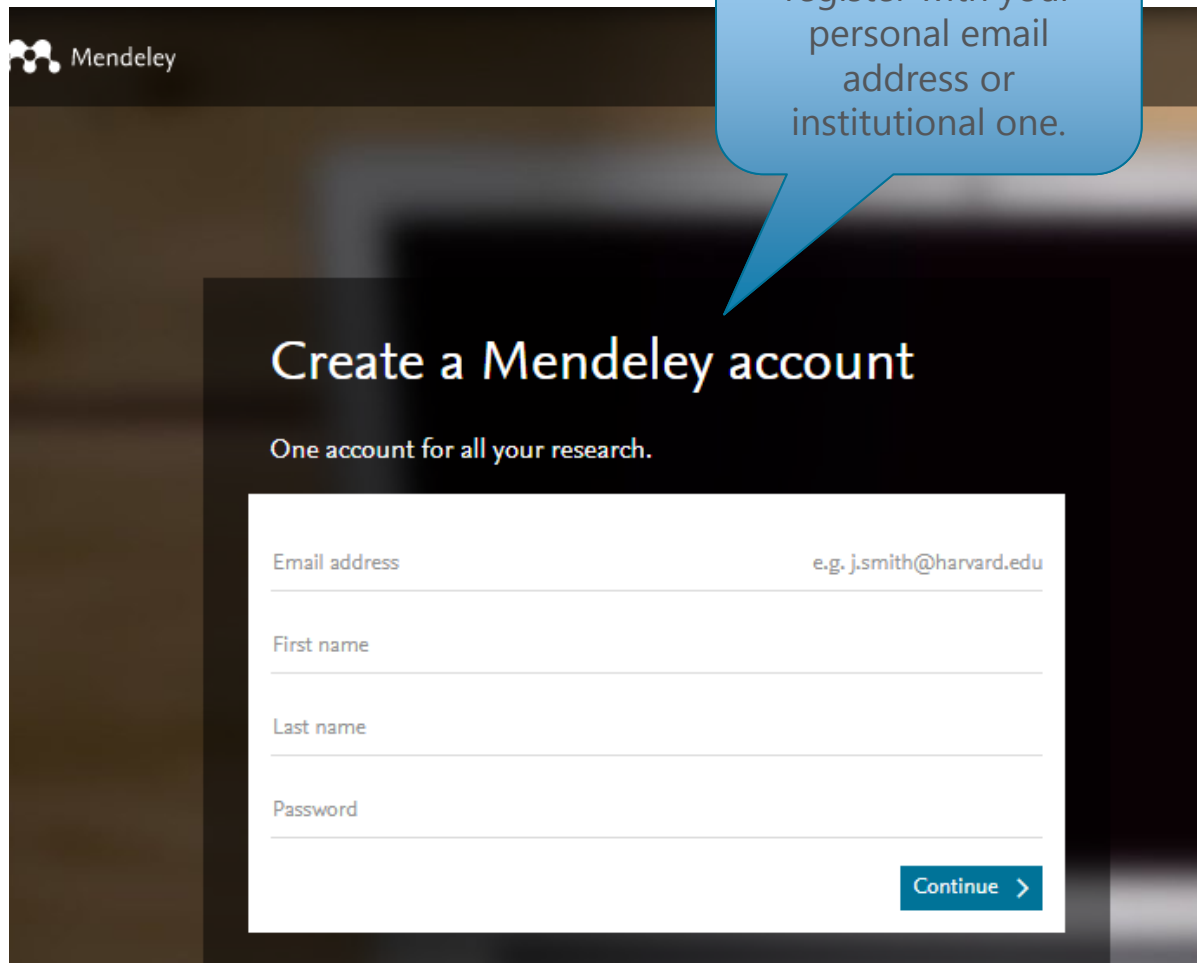
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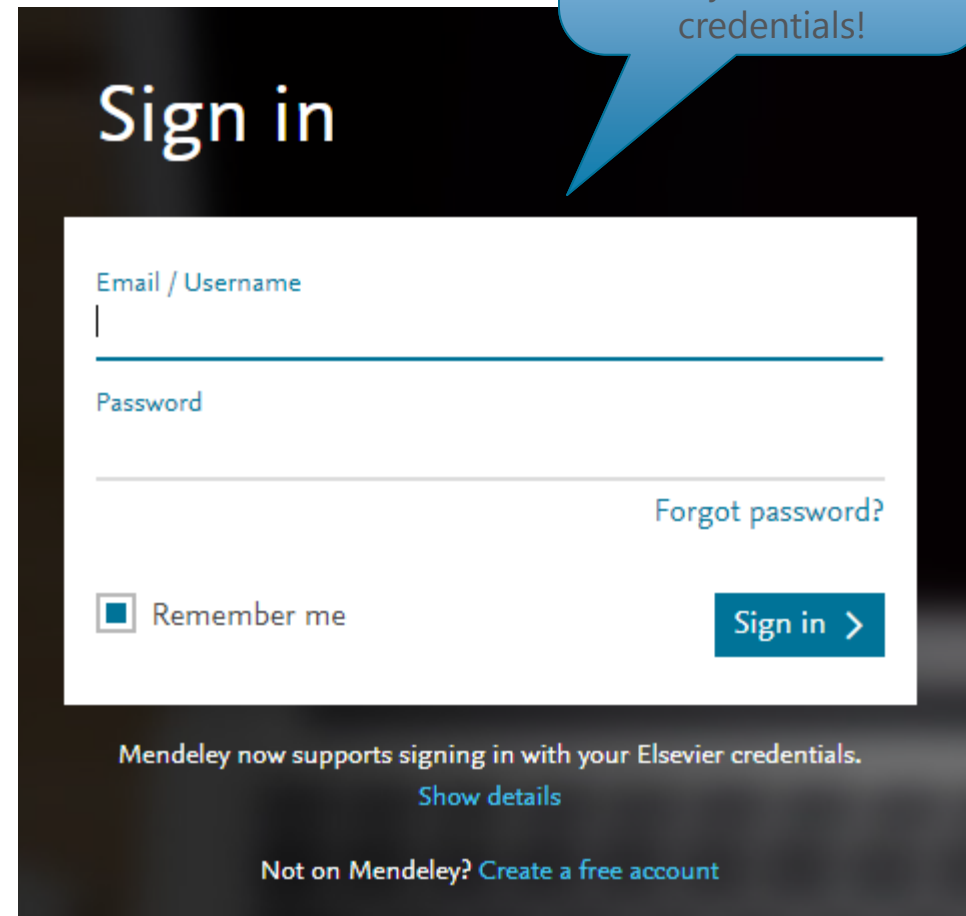
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# Signing up to MENDELEY



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When you sign in, it will offer you to download Mendeley Desktop. It is compatible with Windows, Mac, Linux.

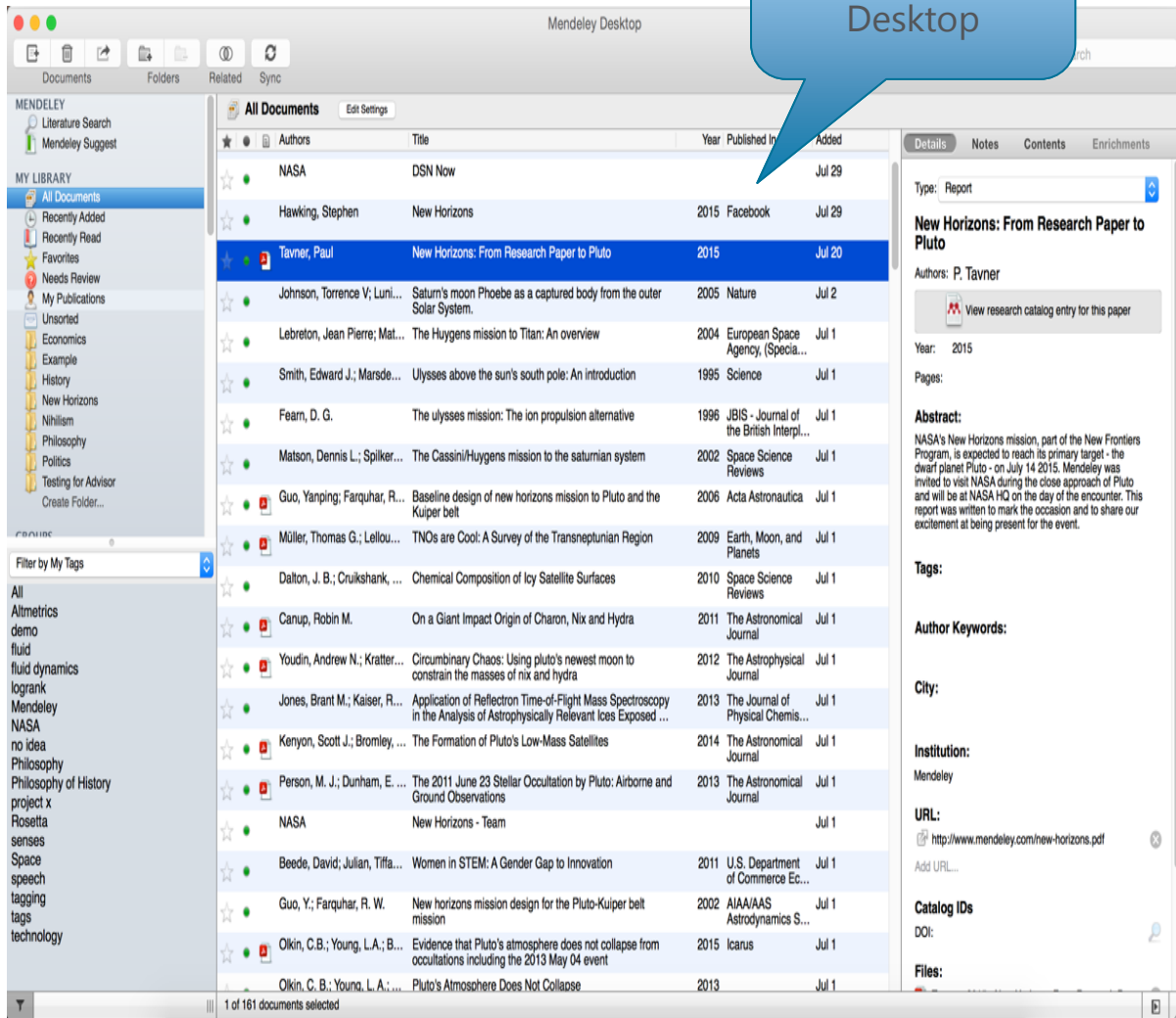
Download Mendeley desktop.

Sync between devices and backs it up online

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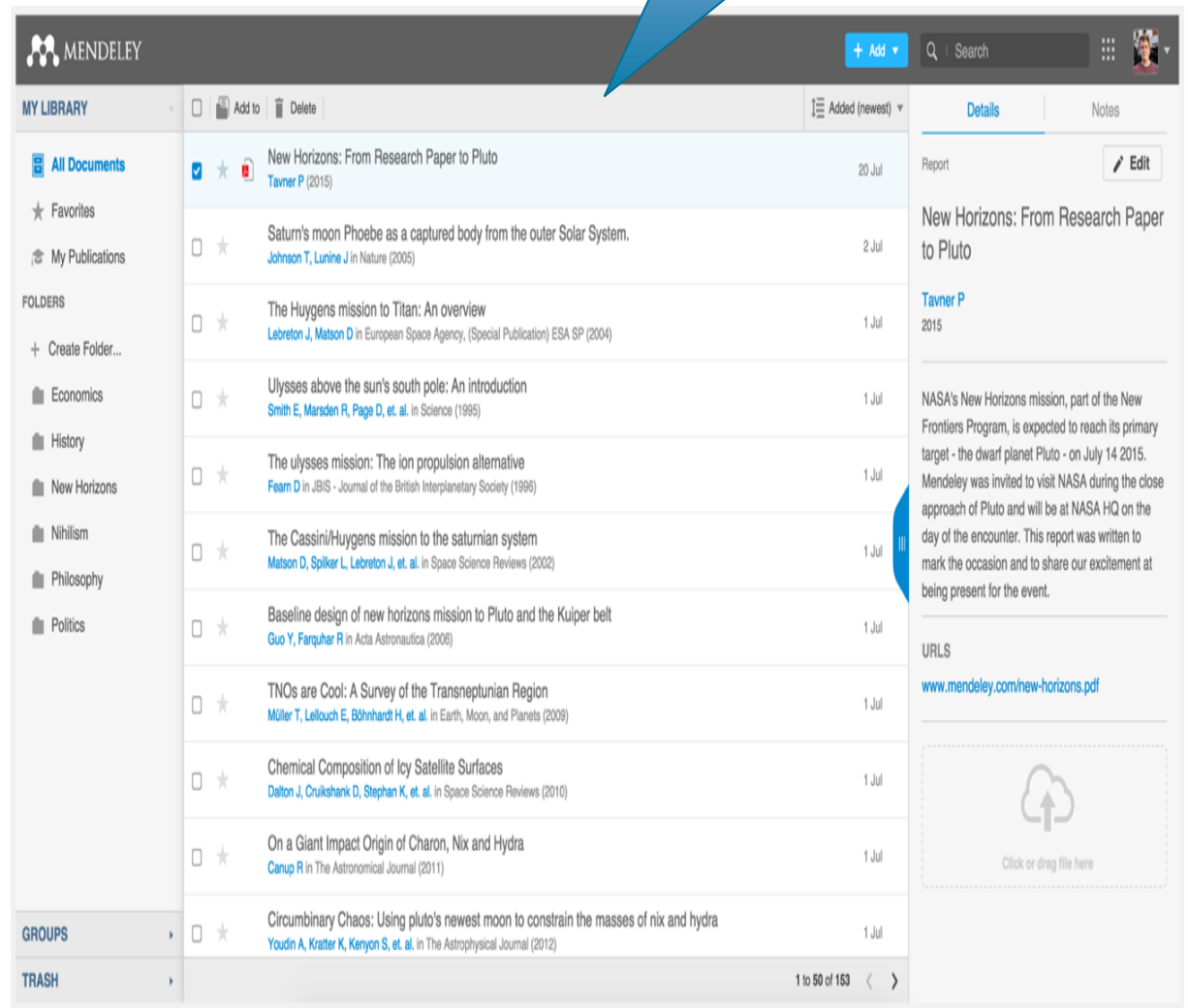
Your library in Mendeley Web



The screenshot shows the Mendeley Desktop application. On the left is a sidebar with navigation options like 'Literature Search', 'Mendeley Suggest', and 'MY LIBRARY'. The main area displays a table of documents:

Authors	Title	Year	Published In	Added
NASA	DSN Now			Jul 29
Hawking, Stephen	New Horizons	2015	Facebook	Jul 29
Tavner, Paul	New Horizons: From Research Paper to Pluto	2015		Jul 20
Johnson, Torrence V; Lunine...	Saturn's moon Phoebe as a captured body from the outer Solar System.	2005	Nature	Jul 2
Lebreton, Jean Pierre; Mat...	The Huygens mission to Titan: An overview	2004	European Space Agency, (Specia...	Jul 1
Smith, Edward J.; Marsden...	Ulysses above the sun's south pole: An introduction	1995	Science	Jul 1
Fearn, D. G.	The ulysses mission: The ion propulsion alternative	1996	JBIS - Journal of the British Interpl...	Jul 1
Matson, Dennis L.; Spiker...	The Cassini/Huygens mission to the saturnian system	2002	Space Science Reviews	Jul 1
Guo, Yangping; Farquhar, R...	Baseline design of new horizons mission to Pluto and the Kuiper belt	2006	Acta Astronautica	Jul 1
Müller, Thomas G.; Lellouch...	TNOs are Cool: A Survey of the Transneptunian Region	2009	Earth, Moon, and Planets	Jul 1
Dalton, J. B.; Cruikshank, ...	Chemical Composition of Icy Satellite Surfaces	2010	Space Science Reviews	Jul 1
Canup, Robin M.	On a Giant Impact Origin of Charon, Nix and Hydra	2011	The Astronomical Journal	Jul 1
Youdin, Andrew N.; Kratter...	Circumbinary Chaos: Using pluto's newest moon to constrain the masses of nix and hydra	2012	The Astrophysical Journal	Jul 1
Jones, Brant M.; Kaiser, R...	Application of Reflectron Time-of-Flight Mass Spectroscopy in the Analysis of Astrophysically Relevant Ices Exposed ...	2013	The Journal of Physical Chemis...	Jul 1
Kenyon, Scott J.; Bromley, ...	The Formation of Pluto's Low-Mass Satellites	2014	The Astronomical Journal	Jul 1
Person, M. J.; Dunham, E. ...	The 2011 June 23 Stellar Occultation by Pluto: Airborne and Ground Observations	2013	The Astronomical Journal	Jul 1
NASA	New Horizons - Team			Jul 1
Beede, David; Julian, Tiffa...	Women in STEM: A Gender Gap to Innovation	2011	U.S. Department of Commerce Ec...	Jul 1
Guo, Y.; Farquhar, R. W.	New horizons mission design for the Pluto-Kuiper belt mission	2002	AIAA/AAS Astrodynamics S...	Jul 1
Olkin, C.B.; Young, L.A.; B...	Evidence that Pluto's atmosphere does not collapse from occultations including the 2013 May 04 event	2015	Icarus	Jul 1
Olkin, C. B.; Young, L. A.; ...	Pluto's Atmosphere Does Not Collapse	2013		Jul 1

The right pane shows details for the selected document: 'New Horizons: From Research Paper to Pluto' by P. Tavner, published in 2015. It includes an abstract, tags, author keywords, city, institution (Mendeley), URL, and catalog IDs.



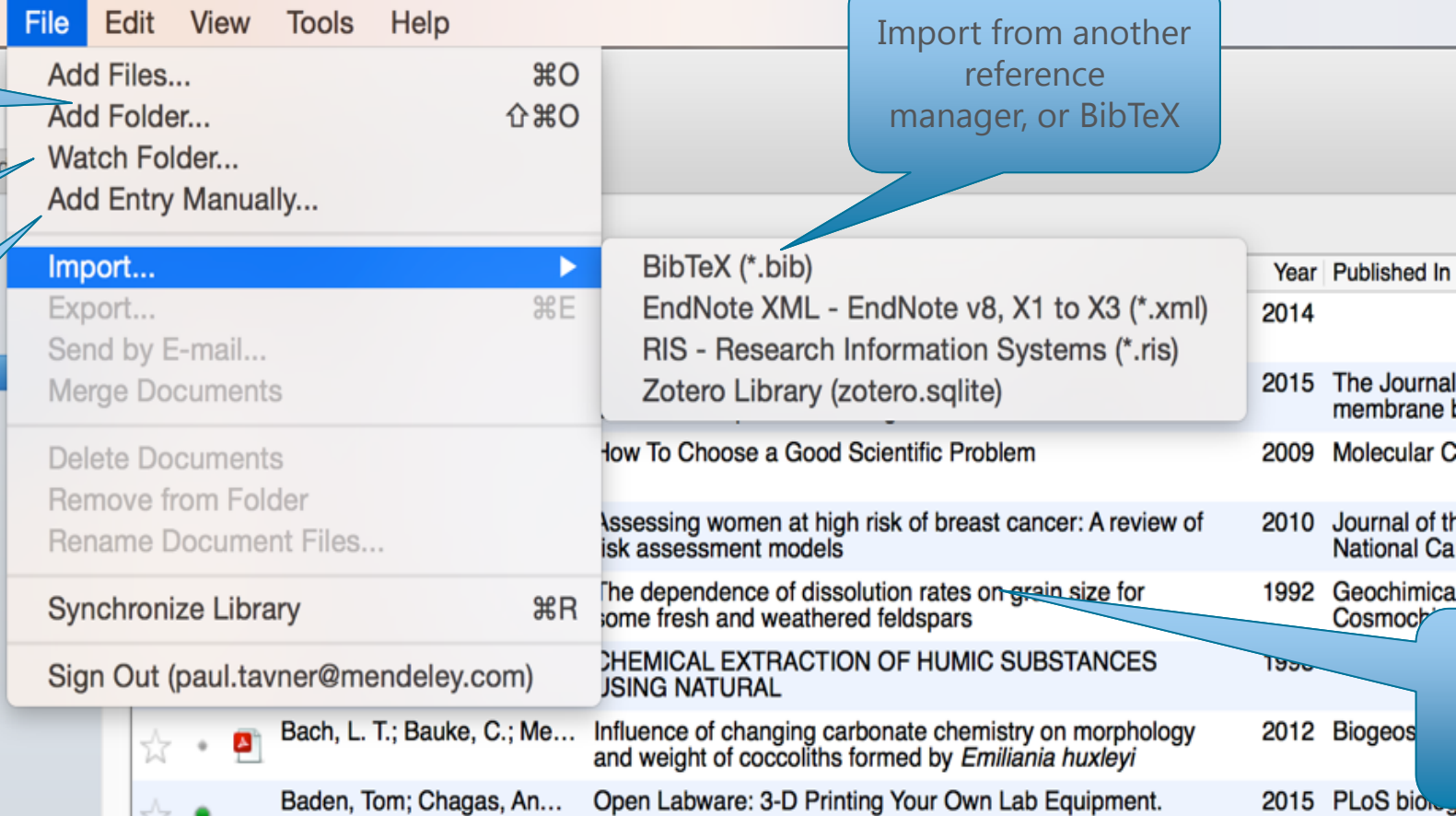
The screenshot shows the Mendeley Web interface. The top navigation bar includes 'MY LIBRARY', 'Add to', 'Delete', and a search bar. The main area displays a list of documents:

Added (newest)	Details	Notes
20 Jul	New Horizons: From Research Paper to Pluto Tavner P (2015)	Report
2 Jul	Saturn's moon Phoebe as a captured body from the outer Solar System. Johnson T, Lunine J in Nature (2005)	
1 Jul	The Huygens mission to Titan: An overview Lebreton J, Matson D in European Space Agency, (Special Publication) ESA SP (2004)	
1 Jul	Ulysses above the sun's south pole: An introduction Smith E, Marsden R, Page D, et. al. in Science (1995)	
1 Jul	The ulysses mission: The ion propulsion alternative Fearn D in JBIS - Journal of the British Interplanetary Society (1996)	
1 Jul	The Cassini/Huygens mission to the saturnian system Matson D, Spiker L, Lebreton J, et. al. in Space Science Reviews (2002)	
1 Jul	Baseline design of new horizons mission to Pluto and the Kuiper belt Guo Y, Farquhar R in Acta Astronautica (2006)	
1 Jul	TNOs are Cool: A Survey of the Transneptunian Region Müller T, Lellouch E, Böhnhardt H, et. al. in Earth, Moon, and Planets (2009)	
1 Jul	Chemical Composition of Icy Satellite Surfaces Dalton J, Cruikshank D, Stephan K, et. al. in Space Science Reviews (2010)	
1 Jul	On a Giant Impact Origin of Charon, Nix and Hydra Canup R in The Astronomical Journal (2011)	
1 Jul	Circumbinary Chaos: Using pluto's newest moon to constrain the masses of nix and hydra Youdin A, Kratter K, Kenyon S, et. al. in The Astrophysical Journal (2012)	

The right pane shows details for the selected document, including a detailed abstract: 'NASA's New Horizons mission, part of the New Frontiers Program, is expected to reach its primary target - the dwarf planet Pluto - on July 14 2015. Mendeley was invited to visit NASA during the close approach of Pluto and will be at NASA HQ on the day of the encounter. This report was written to mark the occasion and to share our excitement at being present for the event.'

# Constitute your own library on MENDELEY

You can either add documents by 'File' tab or drag & drop the files in your own desktop



The screenshot shows the Mendeley Desktop application window. The 'File' menu is open, displaying options for adding and managing documents. Callouts provide instructions for each option:

- Select a file or folder to add from your computer:** Points to 'Add Files...' and 'Add Folder...'.
- Watch a folder:** Points to 'Watch Folder...'.
- Add reference by manually entering details:** Points to 'Add Entry Manually...'.
- Import from another reference manager, or BibTeX:** Points to the 'Import...' submenu, which includes 'BibTeX (\*.bib)', 'EndNote XML - EndNote v8, X1 to X3 (\*.xml)', 'RIS - Research Information Systems (\*.ris)', and 'Zotero Library (zotero.sqlite)'.
- Drag & drop pdf articles from your own desktop:** Points to the 'Merge Documents' option.

The background shows a list of references with columns for Year and Published In.

Year	Published In
2014	
2015	The Journal membrane t
2009	Molecular C
2010	Journal of th National Ca
1992	Geochimica Cosmoch
2012	Biogeos
2015	PLoS biol

Constitute your own library on  **MENDELEY**

When you sign in, this page will come up. Install Mendeley Web Importer.



The screenshot shows the Mendeley Web Importer page. At the top, there is a navigation bar with links for Reference Management, Research Network, Datasets, Careers, and Funding. Below this is a secondary navigation bar with links for Reference Manager, Web Importer (which is highlighted), Citation Plugin, Stats, Premium, and Institutional Edition. The main heading is "Mendeley Web Importer". Below the heading is a paragraph: "Import papers, web pages and other documents directly into your reference library from search engines and academic databases. Mendeley Web Importer is available for all major web browsers." At the bottom, there are three browser icons: Chrome, Firefox, and Safari, IE & more (with a plus sign).

This is your Mendeley Web Importer plug in. When reading articles even in Google Scholar, PubMed etc, you can click it and save it to your library

# Constitute your own library on MENDELEY

ScienceDirect

Journals

Mendeley is interoperable with Science Direct and Scopus, by clicking 'Save to Mendeley' you can get references to your library

Search results: 1,664,501 results found. [See image results](#)

Refine filters

Year

- 2099 (1)
- 2017 (4,431)
- 2016 (104,176)
- 2015 (92,479)
- 2014 (89,514)
- [View more >>](#)

Publication title

- The Lancet (48,686)
- International Journal of Radiation Oncology\*Bio... (45,871)
- Gastroenterology (37,727)
- European Journal of Cancer (31,820)
- The Journal of Urology (26,448)
- [View more >>](#)

Topic

- patient (193,400)

Download PDFs | Export

**No clinical utility of** *Gynecologic Oncology, Ovarian Cancer Assoc*  
 Frederieke H. van der Irene L. Andrulis, Hod Arun, Brita Arver, Alar...  
[Abstract](#) | [PDF](#)

**Evidence of a genet** *Fertility and Sterility, Vo*  
 Alice W. Lee, Claire T Chenevix-Trench, Cel Beata Spiewankiewicz, Cybulski, Christine W...  
[Abstract](#) | [PDF](#)

**p16(INK4A) express** *Papillomavirus Researc*  
 Brenda Y. Hernandez Thompson, Maria Sib...  
 Tvoina of Cancer Workgroup

**All citation information will be exported.**

Direct export

- [Save to Mendeley](#)
- [Save to RefWorks](#)

Export file

- RIS (for EndNote, Reference Manager, ProCite)
- BibTeX
- Text




Content

- Citations only
- Citations and abstracts

[Export](#)

Relevance | All access types

Related books

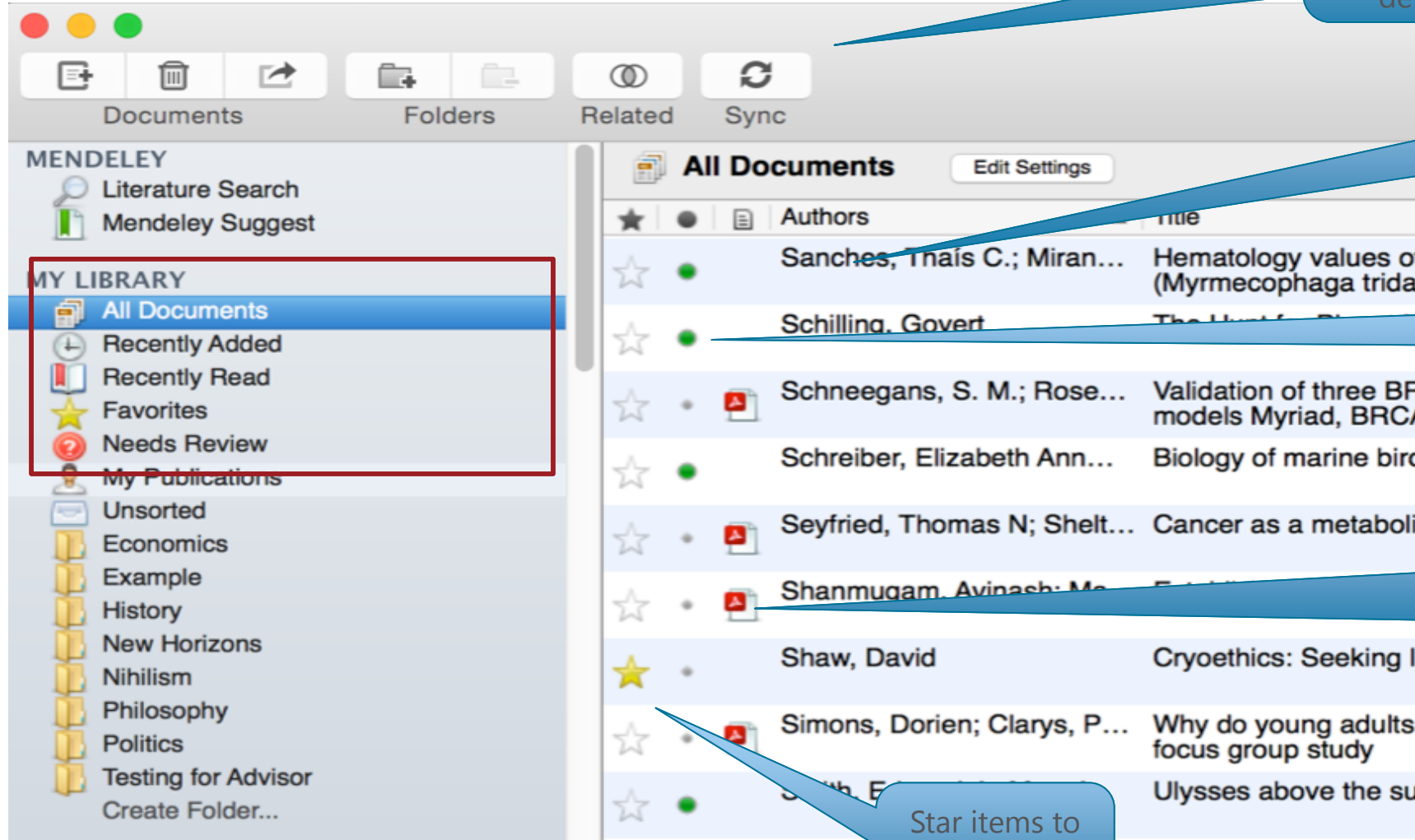
-  **Breast Cancer**  
2005  
Daniel F. Roses
-  **Cancer Theranostics**  
2014  
Xiaoyuan Chen
-  **Cancer Chemotherapy**  
1967  
Edward S. Greenwald

Open Access

ADVERTISEMENT



# Manage your own library on MENDELEY



The screenshot shows the Mendeley desktop application. The sidebar on the left is titled 'MY LIBRARY' and contains several categories: 'All Documents' (highlighted with a blue bar and a red box), 'Recently Added', 'Recently Read', 'Favorites', 'Needs Review', 'My Publications', 'Unsorted', 'Economics', 'Example', 'History', 'New Horizons', 'Nihilism', 'Philosophy', 'Politics', 'Testing for Advisor', and 'Create Folder...'. The main pane is titled 'All Documents' and displays a list of references with columns for 'Authors' and 'Title'. The list includes entries such as 'Sanches, Thaís C.; Miran...', 'Schilling, Govert', 'Schneegans, S. M.; Rose...', 'Schreiber, Elizabeth Ann...', 'Seyfried, Thomas N; Shelt...', 'Shanmugam, Avinash; Me...', 'Shaw, David', 'Simons, Dorien; Clarys, P...', and 'Ulysses above the sur...'. The interface also features a top toolbar with icons for 'Documents', 'Folders', 'Related', and 'Sync'.


Sync your libraries in different devices


Use column headings to order your references


Mark entries read or unread


Entries with attached PDFs can be opened with the PDF Reader


Star items to mark them as favorites

 All items in your personal library

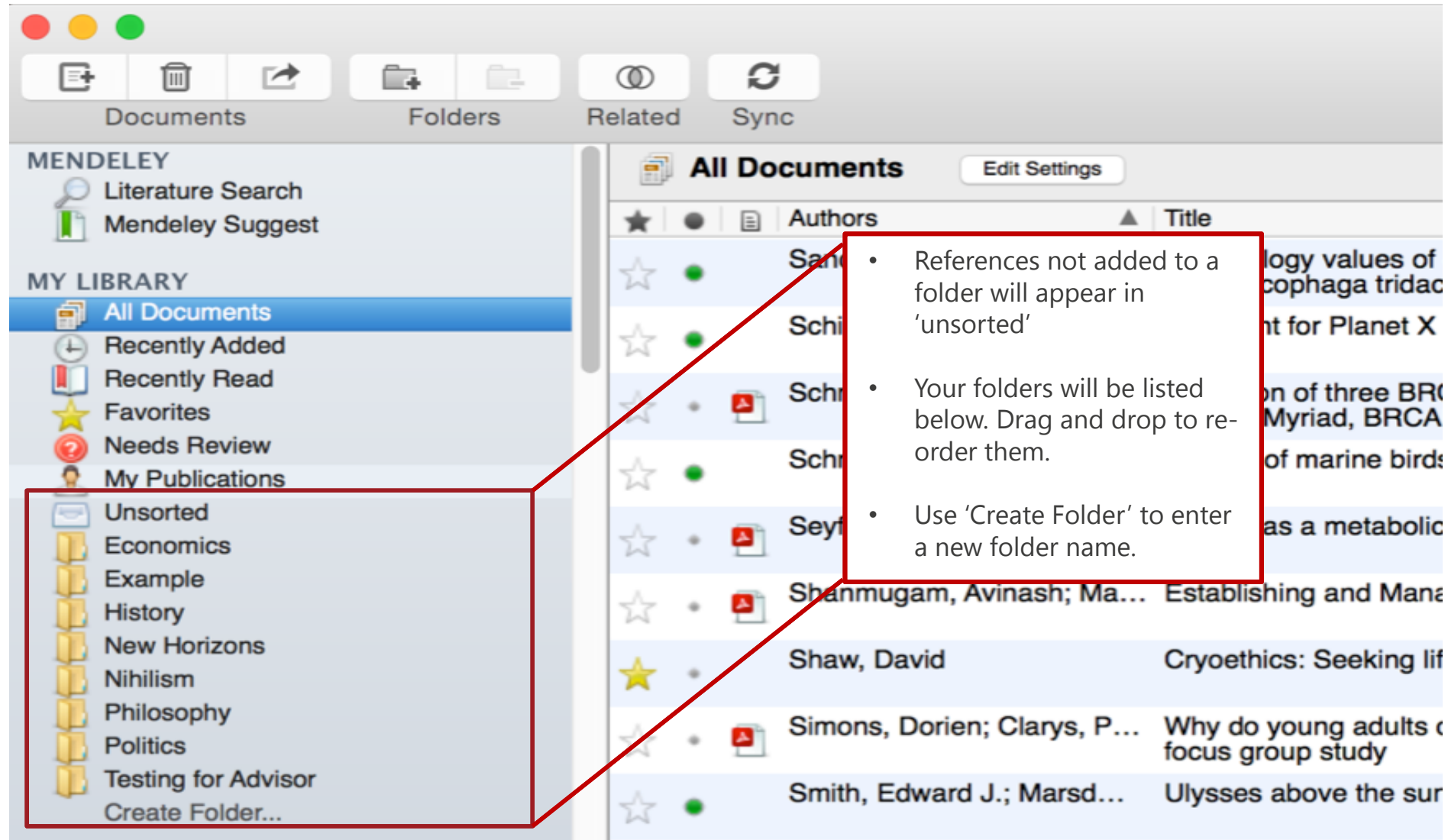
 Items added in the last two weeks

 Access your recently read items

 All items you've starred in your library

 Items in need of review

# Create and use folders on MENDELEY



The screenshot shows the Mendeley Desktop application interface. The top toolbar includes icons for Documents, Folders, Related, and Sync. The left sidebar is divided into 'MENDELEY' (Literature Search, Mendeley Suggest) and 'MY LIBRARY' (All Documents, Recently Added, Recently Read, Favorites, Needs Review, My Publications). The 'MY LIBRARY' sidebar is highlighted with a red box, and a callout box points to it with the following instructions:

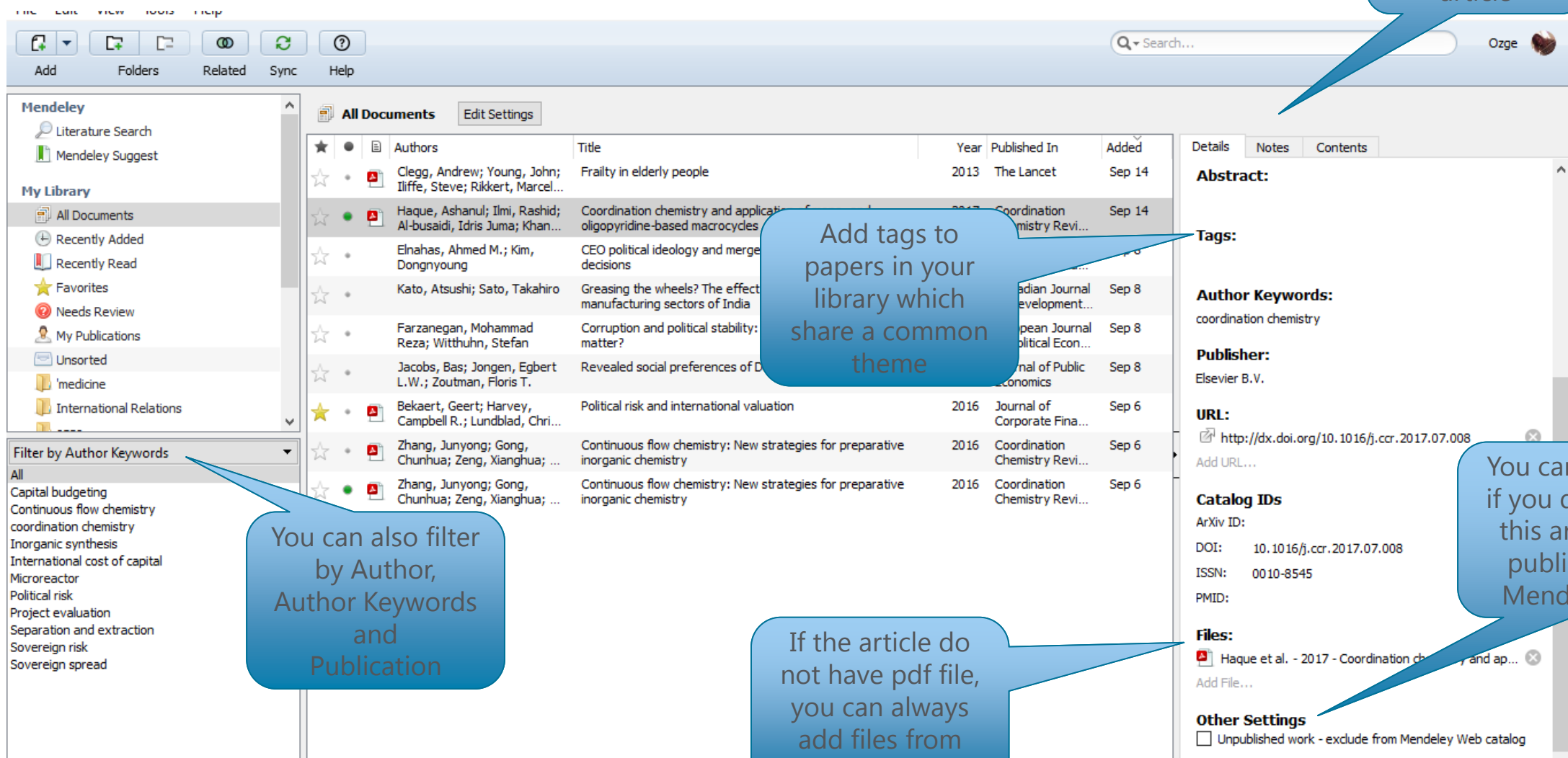
- References not added to a folder will appear in 'unsorted'
- Your folders will be listed below. Drag and drop to re-order them.
- Use 'Create Folder' to enter a new folder name.

The main window displays a list of documents under the 'All Documents' tab. The list has columns for Authors and Title. The documents listed are:

Star	Color	Authors	Title
☆	●	Sankar	...logy values of <i>Cophaga tridactylus</i>
☆	●	Schiff	...nt for Planet X
☆	●	Schiff	...on of three BRCA1/2 mutations: Myriad, BRCA2
☆	●	Schiff	...of marine birds
☆	●	Seymour	...as a metabolic
☆	●	Shanmugam, Avinash; Mani	Establishing and Mana
★	●	Shaw, David	Cryoethics: Seeking lif
☆	●	Simons, Dorien; Clarys, P...	Why do young adults c... focus group study
☆	●	Smith, Edward J.; Marsd...	Ulysses above the sur



# Search in your documents on MENDELEY



The screenshot shows the Mendeley desktop application interface. The top menu bar includes File, Edit, View, Tools, and Help. Below the menu bar are icons for Add, Folders, Related, Sync, and Help. A search bar is located in the top right corner. The left sidebar contains the Mendeley logo, Literature Search, Mendeley Suggest, and My Library. The My Library section includes All Documents, Recently Added, Recently Read, Favorites, Needs Review, My Publications, Unsorted, and folders for 'medicine' and 'International Relations'. A 'Filter by Author Keywords' dropdown is visible, showing a list of keywords such as Capital budgeting, Continuous flow chemistry, coordination chemistry, Inorganic synthesis, International cost of capital, Microreactor, Political risk, Project evaluation, Separation and extraction, Sovereign risk, and Sovereign spread. The main area displays a list of documents with columns for Authors, Title, Year, Published In, and Added. The selected document is 'Coordination chemistry and application of oligopyridine-based macrocycles' by Haque, Ashanul; Ilmi, Rashid; Al-busaidi, Idris Juma; Khan... The right sidebar shows the details of the selected article, including Abstract, Tags, Author Keywords, Publisher, URL, Catalog IDs, Files, and Other Settings. Callouts provide additional information: 'This is the metadata of the selected article' points to the right sidebar; 'Add tags to papers in your library which share a common theme' points to the Tags field; 'You can also filter by Author, Author Keywords and Publication' points to the Filter by Author Keywords dropdown; 'If the article do not have pdf file, you can always add files from here' points to the Add File... button; and 'You can click here, if you do not want this article to be public to other Mendeley users' points to the 'Unpublished work - exclude from Mendeley Web catalog' checkbox.

**Mendeley**

Literature Search  
Mendeley Suggest

**My Library**

- All Documents
- Recently Added
- Recently Read
- Favorites
- Needs Review
- My Publications
- Unsorted
- 'medicine'
- International Relations

Filter by Author Keywords

All  
Capital budgeting  
Continuous flow chemistry  
coordination chemistry  
Inorganic synthesis  
International cost of capital  
Microreactor  
Political risk  
Project evaluation  
Separation and extraction  
Sovereign risk  
Sovereign spread

Authors	Title	Year	Published In	Added
Clegg, Andrew; Young, John; Iliffe, Steve; Rikkert, Marcel...	Frailty in elderly people	2013	The Lancet	Sep 14
Haque, Ashanul; Ilmi, Rashid; Al-busaidi, Idris Juma; Khan...	Coordination chemistry and application of oligopyridine-based macrocycles	2017	Coordination Chemistry Reviews	Sep 14
Elnahas, Ahmed M.; Kim, Dongyoung	CEO political ideology and merger decisions			
Kato, Atsushi; Sato, Takahiro	Greasing the wheels? The effect of manufacturing sectors of India		Canadian Journal of Development Economics	Sep 8
Farzanegan, Mohammad Reza; Witthuhn, Stefan	Corruption and political stability: matter?		European Journal of Political Economy	Sep 8
Jacobs, Bas; Jongen, Egbert L.W.; Zoutman, Floris T.	Revealed social preferences of Dutch citizens		Journal of Public Economics	Sep 8
Bekaert, Geert; Harvey, Campbell R.; Lundblad, Chri...	Political risk and international valuation	2016	Journal of Corporate Finance	Sep 6
Zhang, Junyong; Gong, Chunhua; Zeng, Xianghua; ...	Continuous flow chemistry: New strategies for preparative inorganic chemistry	2016	Coordination Chemistry Reviews	Sep 6
Zhang, Junyong; Gong, Chunhua; Zeng, Xianghua; ...	Continuous flow chemistry: New strategies for preparative inorganic chemistry	2016	Coordination Chemistry Reviews	Sep 6

**Details** | Notes | Contents

**Abstract:**

**Tags:**

**Author Keywords:**  
coordination chemistry

**Publisher:**  
Elsevier B.V.

**URL:**  
<http://dx.doi.org/10.1016/j.ccr.2017.07.008>  
Add URL...

**Catalog IDs**

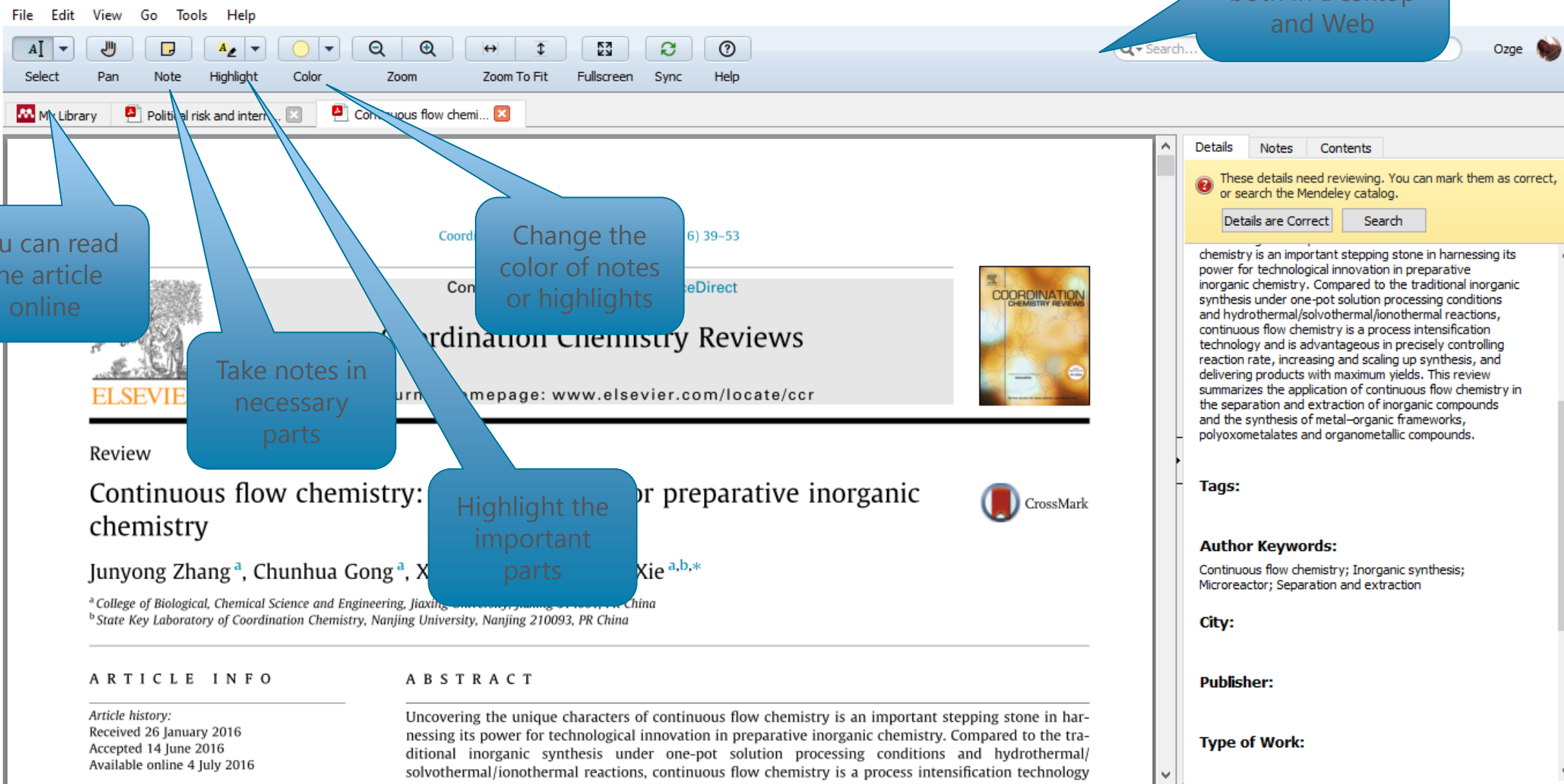
ArXiv ID:  
DOI: 10.1016/j.ccr.2017.07.008  
ISSN: 0010-8545  
PMID:

**Files:**  
Haque et al. - 2017 - Coordination chemistry and ap...  
Add File...

**Other Settings**  
 Unpublished work - exclude from Mendeley Web catalog

# Use Mendeley's PDF Viewer on MENDELEY

Mendeley has its own PDF viewer both in Desktop and Web



The screenshot displays the Mendeley PDF viewer interface. The top menu bar includes File, Edit, View, Go, Tools, and Help. Below the menu is a toolbar with icons for Select, Pan, Note, Highlight, Color, Zoom, Zoom To Fit, Fullscreen, Sync, and Help. The main content area shows a PDF of a chemistry article titled "Continuous flow chemistry: A review for preparative inorganic chemistry" by Junyong Zhang, Chunhua Gong, Xiangping Xie, and others. The article is from the journal "Coordination Chemistry Reviews". The interface includes a sidebar on the right with tabs for Details, Notes, and Contents. The Details tab is active, showing a warning message: "These details need reviewing. You can mark them as correct, or search the Mendeley catalog." Below this, there are buttons for "Details are Correct" and "Search". The article text is visible, and the sidebar contains fields for Tags, Author Keywords, City, Publisher, and Type of Work. Several blue callout boxes point to specific features: "You can read the article online" points to the article title; "Take notes in necessary parts" points to the Note icon in the toolbar; "Change the color of notes or highlights" points to the Color icon; and "Highlight the important parts" points to the Highlight icon.

File Edit View Go Tools Help

Select Pan Note Highlight Color Zoom Zoom To Fit Fullscreen Sync Help

Mx Library Political risk and intern... Continuous flow chemi...

Coordination Chemistry Reviews

Review

Continuous flow chemistry: A review for preparative inorganic chemistry

Junyong Zhang<sup>a</sup>, Chunhua Gong<sup>a</sup>, Xiangping Xie<sup>a,b,\*</sup>

<sup>a</sup> College of Biological, Chemical Science and Engineering, Jiaxing University, Jiaxing 512000, PR China  
<sup>b</sup> State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing 210093, PR China

ARTICLE INFO

Article history:  
 Received 26 January 2016  
 Accepted 14 June 2016  
 Available online 4 July 2016

ABSTRACT

Uncovering the unique characters of continuous flow chemistry is an important stepping stone in harnessing its power for technological innovation in preparative inorganic chemistry. Compared to the traditional inorganic synthesis under one-pot solution processing conditions and hydrothermal/solvothermal/ionothermal reactions, continuous flow chemistry is a process intensification technology

Details Notes Contents

These details need reviewing. You can mark them as correct, or search the Mendeley catalog.

Details are Correct Search

chemistry is an important stepping stone in harnessing its power for technological innovation in preparative inorganic chemistry. Compared to the traditional inorganic synthesis under one-pot solution processing conditions and hydrothermal/solvothermal/ionothermal reactions, continuous flow chemistry is a process intensification technology and is advantageous in precisely controlling reaction rate, increasing and scaling up synthesis, and delivering products with maximum yields. This review summarizes the application of continuous flow chemistry in the separation and extraction of inorganic compounds and the synthesis of metal-organic frameworks, polyoxometalates and organometallic compounds.

Tags:

Author Keywords:  
 Continuous flow chemistry; Inorganic synthesis; Microreactor; Separation and extraction

City:

Publisher:

Type of Work:

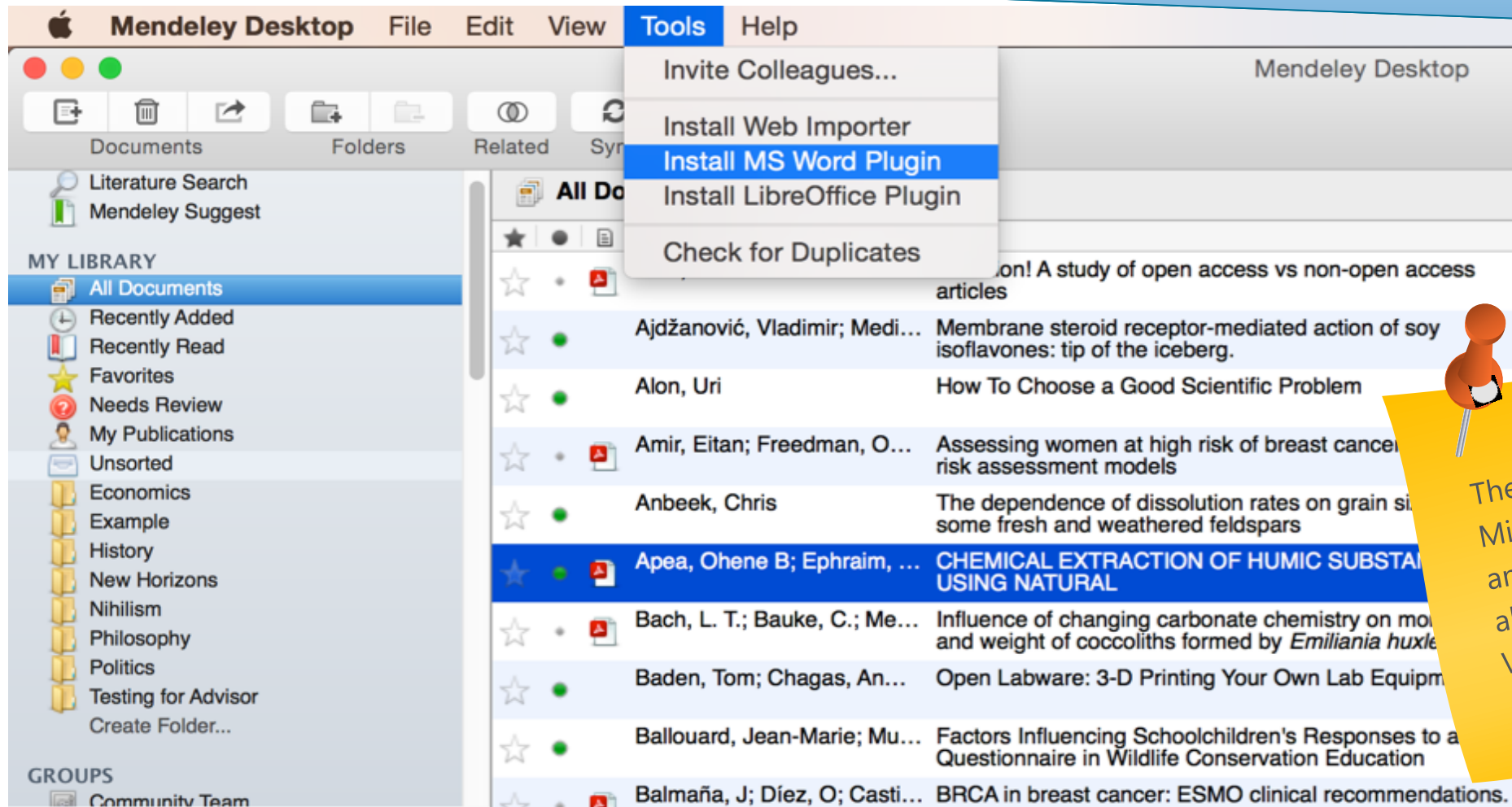
You can read the article online

Take notes in necessary parts

Change the color of notes or highlights

Highlight the important parts

# Using citation Plug-in on MENDELEY

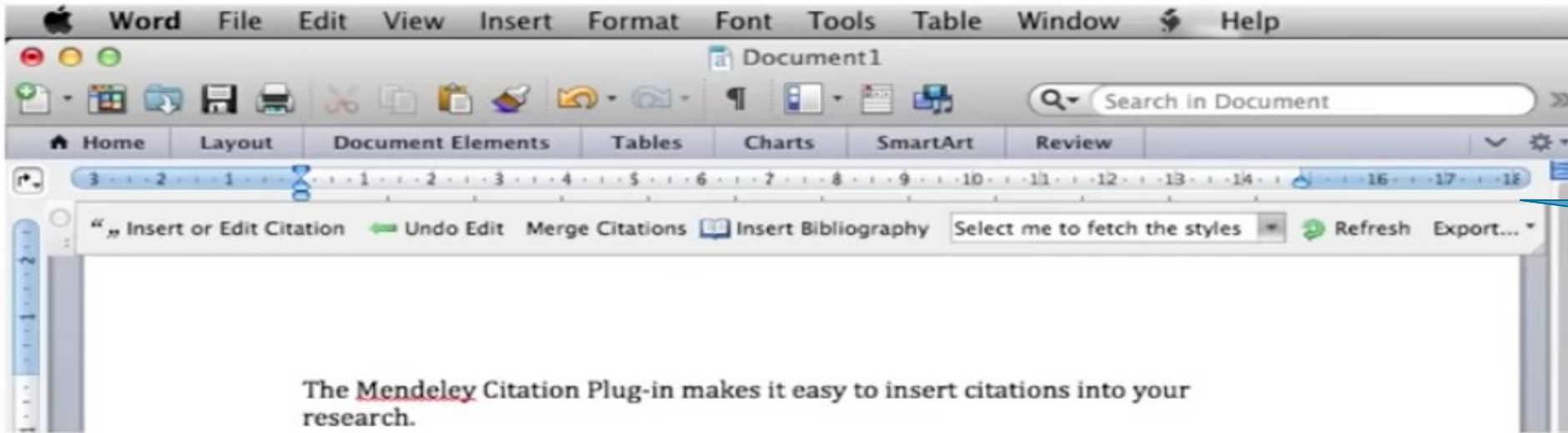


In order to use the citation function. You'll first need to install the citation plugin. This can be done via the Tools menu within Mendeley Desktop.

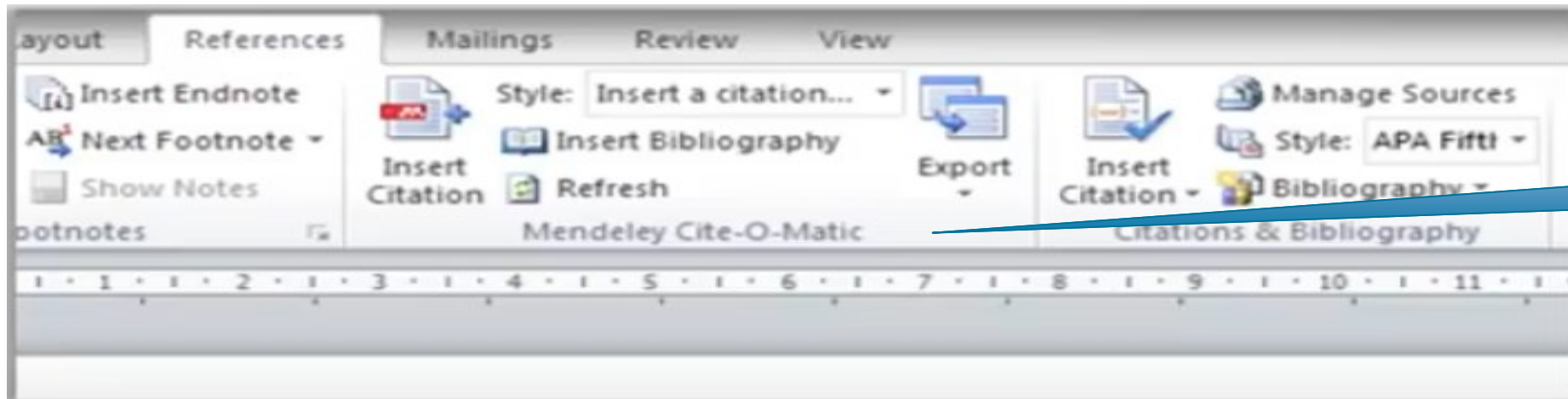
The citation plugin supports Microsoft Word for windows and Mac and the free alternative LibreOffice for Windows, Mac and Linux.

# Using citation Plug-in on MENDELEY

The Citation Tool Bar Appears in Word Automatically



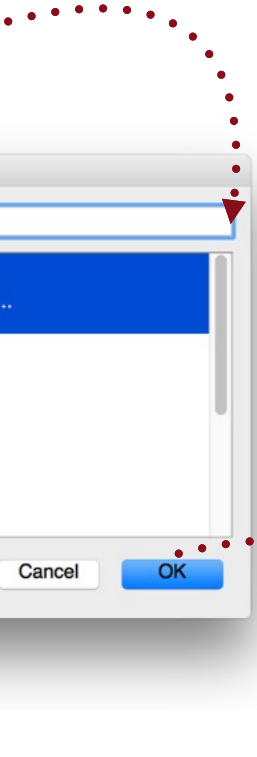
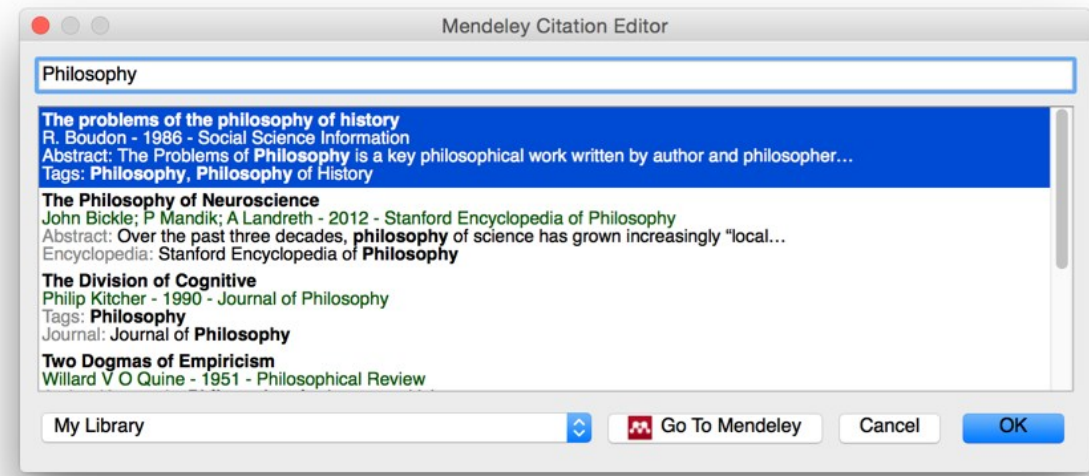
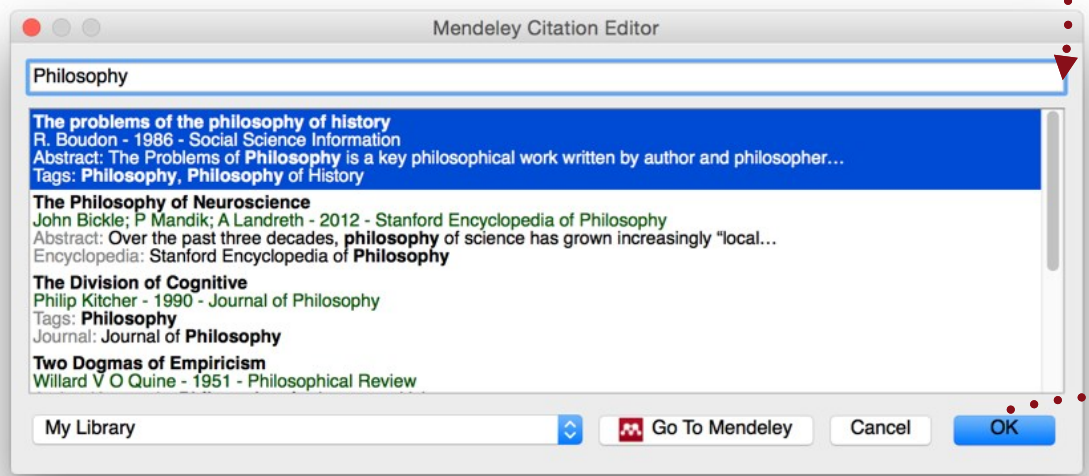
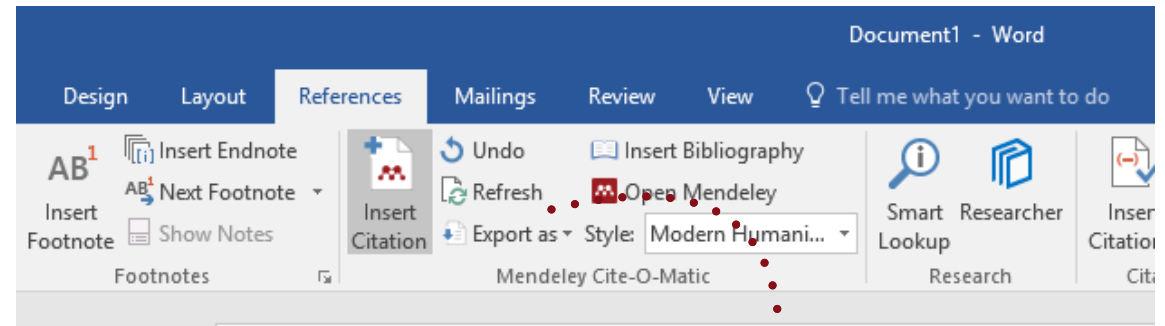
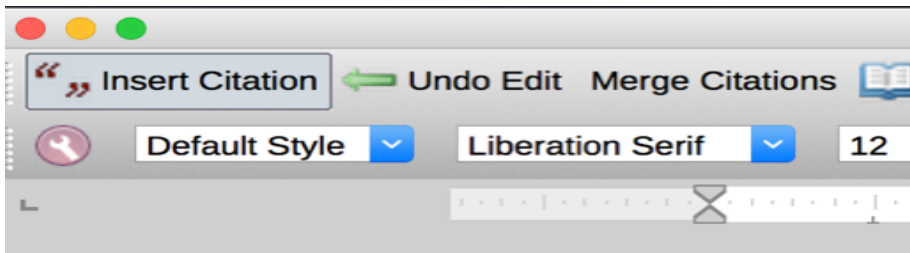
MAC



Windows



# Generating in-text citations in Word

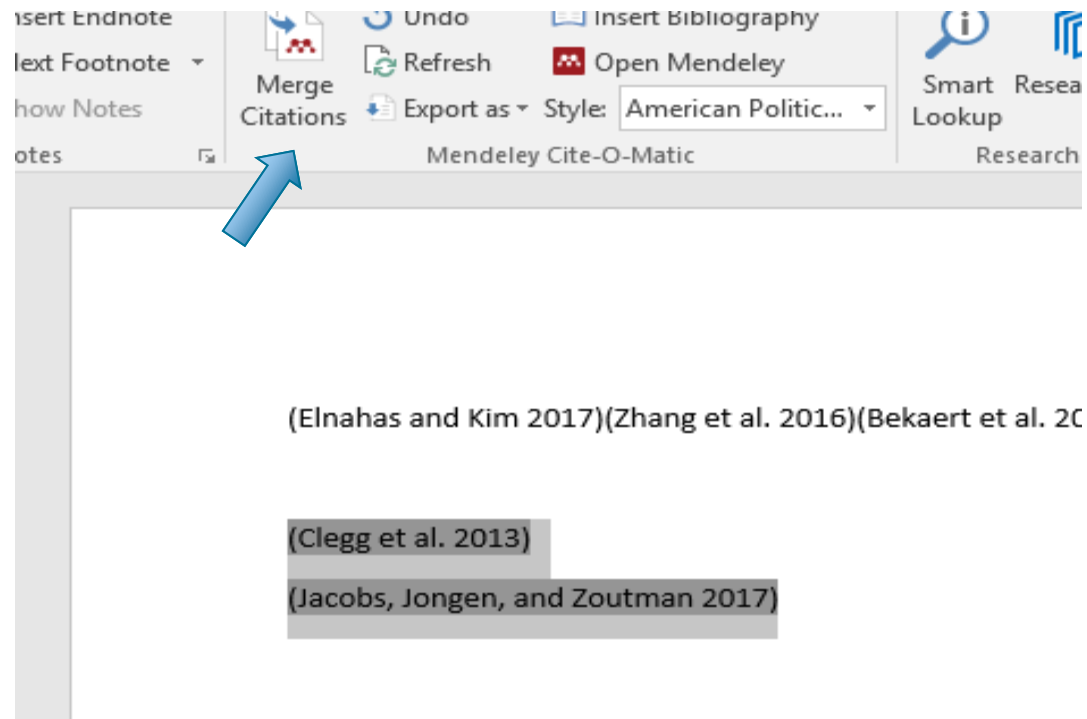


# Merging Citations on MENDELEY

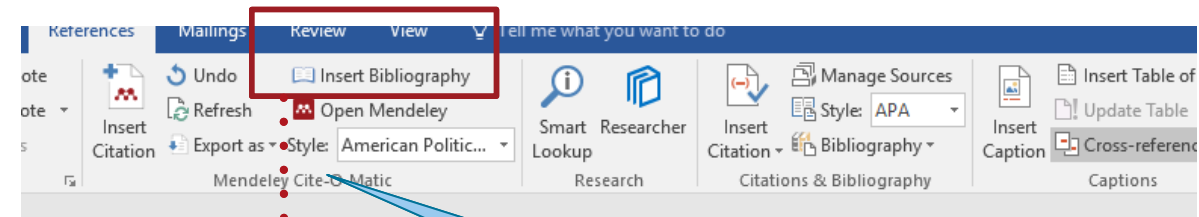
Lorem ipsum dolor sit amet (Boudon 1986) (Ingold 1940)



Lorem ipsum dolor sit amet (Boudon 1986; Ingold 1940)



# Inserting Bibliography on MENDELEY



Bach, L. T. et al. 2012. "Influence of Changing Carbonate Chemistry on Morphology and Weight of Coccoliths Formed by *Emiliana Huxleyi*." *Biogeosciences* 9(8): 3449–63.

Naik, Azza, V. Meda, and S. S. Lele. 2014. "Application of EPR Spectroscopy and DSC for Oxidative Stability Studies of *Nigella Sativa* and *Lepidium Sativum* Seed Oil." *JAOCS, Journal of the American Oil Chemists' Society* 91(6): 935–41.

Steffensen, Ane Y et al. 2014. "Functional Characterization of BRCA1 Gene Variants by Mini-Gene Splicing Assay." *European journal of human genetics : EJHG* 3: 1–7.  
<http://www.ncbi.nlm.nih.gov/pubmed/24667779> (October 16, 2014).

Tripathi, Vijay S. 1979. "Comments on 'Uranium Solution-Mineral Equilibria at Low Temperatures with Applications to Sedimentary Ore Deposits.'" *Geochimica et Cosmochimica Acta* 43: 1989–90.

Whitesides, G. M. 2004. "Whitesides' Group: Writing a Paper." *Advanced Materials* 16(15): 1375–77.

(Elnahas and Kim 2017)(Zhang et al. 2016)(Bekaert et al. 2016; Jacobs

(Clegg et al. 2013)

(Jacobs, Jongen, and Zoutman 2017)

Bekaert, Geert, Campbell R. Harvey, Christian T. Lundblad, and Stephan Siegel. 2016. "Political Risk and International Valuation." *Journal of Corporate Finance*.

Clegg, Andrew et al. 2013. "Frailty in Elderly People." In *The Lancet*,

Elnahas, Ahmed M., and Dongnyoung Kim. 2017. "CEO Political Ideology and Mergers and Acquisitions Decisions." *Journal of Corporate Finance* 45: 162–75.  
<http://linkinghub.elsevier.com/retrieve/pii/S0929119917302511> (September 8, 2017).

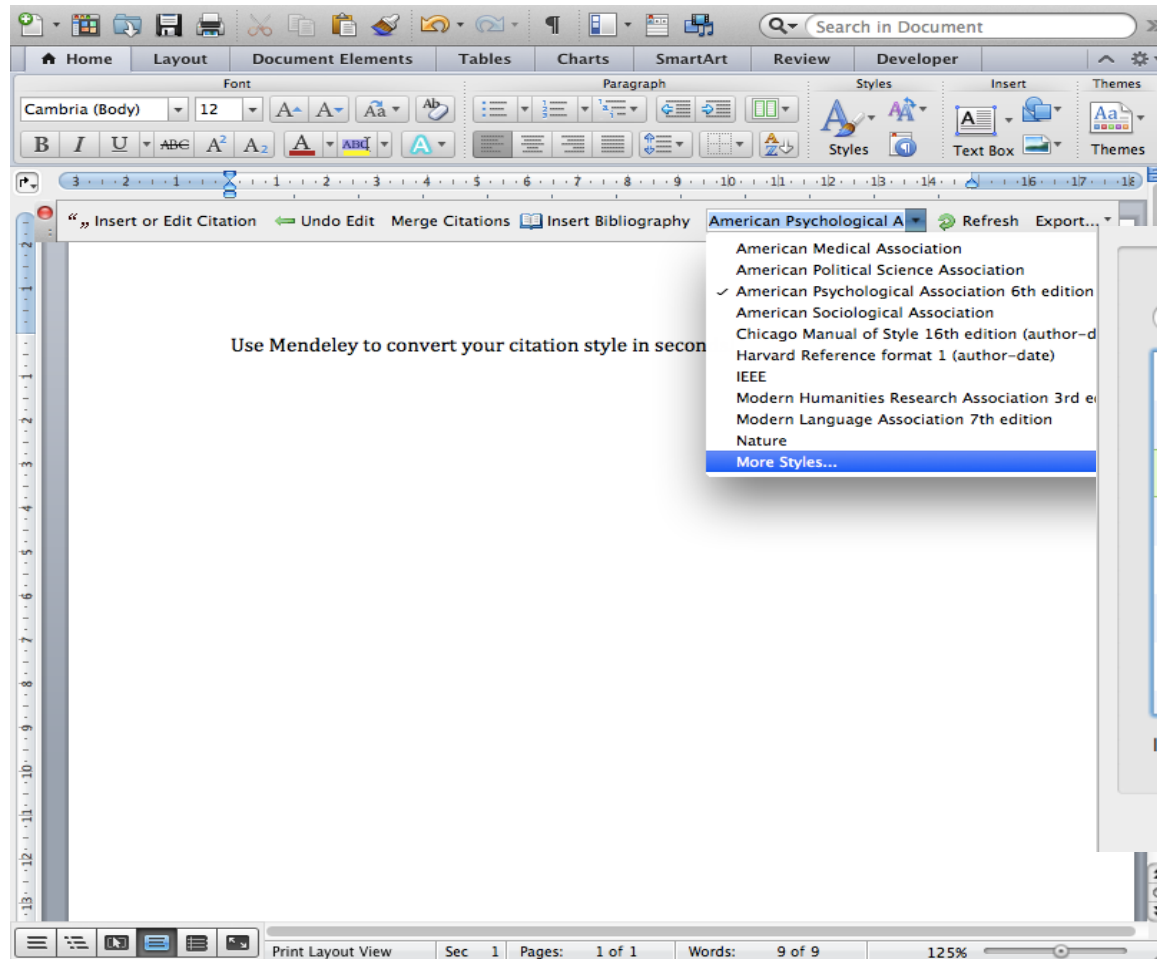
Jacobs, Bas, Egbert L.W. Jongen, and Floris T. Zoutman. 2017. "Revealed Social Preferences of Dutch Political Parties." *Journal of Public Economics*.  
<http://linkinghub.elsevier.com/retrieve/pii/S0047272717301238> (September 8, 2017).

Zhang, Junyong, Chunhua Gong, Xianghua Zeng, and Jingli Xie. 2016. "Continuous Flow Chemistry: New Strategies for Preparative Inorganic Chemistry." *Coordination Chemistry Reviews*.

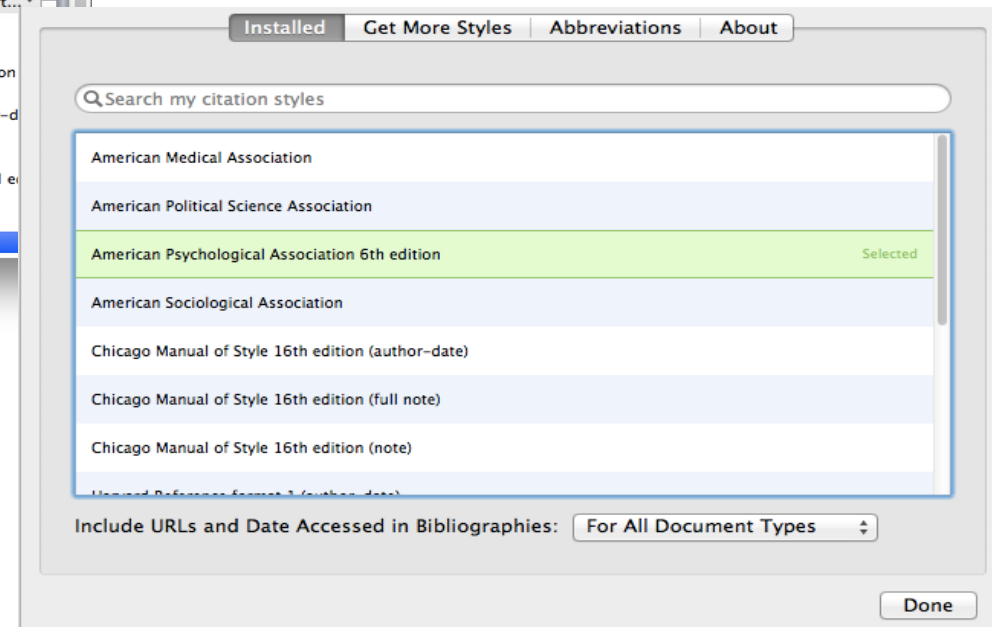
You can always select the style here from more than 8.000 styles



# Finding a citation style on MENDELEY



You can type the name of the journal, and install the citation style



## The CSL Editor on



**About** Search by name Search by example Visual editor Code editor

## Find and edit CSL citation styles

Search...

Search for the name of a style, the title of a Journal, or [search by example](#).

**Note:** This set of tools is still in public beta. Please report any bugs or feedback using the form at the top right of the screen.

- ### 1. Find a style

#### Search by name

If you're looking for a style like APA, Harvard, etc... just use the search box at the top of the page to search for a style name, or journal title.

#### Search by example

If you don't know the name of the style, but know what the final citation should look like, you can use our [search by example](#) tool to find styles that most closely match.

<b>INLINE CITATION</b>
(McInnis & Nelson, 2011)
<b>BIBLIOGRAPHY</b>
McInnis, M. D., & Nelson, L. P. (2011). <i>Shaping the Body Politic: Art Formation in Early America</i> . University of Virginia Press.
- ### 2. Edit the style

If you can't find a style that quite suits your needs, find one that's a pretty close match and click the "Edit style" button to open that style in the [visual editor](#).

<b>American Journal of Medical Genetics</b>
<b>INLINE CITATION</b> [McInnis and Nelson, 2011]
<b>BIBLIOGRAPHY</b> McInnis, MD, Nelson, LP. 2011. <i>Shaping the Body Politic: Formation in Early America</i> . University of Virginia Press.
<input type="button" value="Install"/> <input type="button" value="Edit"/> <input type="button" value="View code"/>
- ### 3. Use the style

Once you've found a style that's suitable for you to use, simply click the "Install" button on the search results, or "Save" a style you've edited, to use it in Mendeley Desktop.

If you can still not find the right style or you would like to customise an existing style you may want to try your hand at the CSL editor which will allow you to customise the styles. Simply visit <https://csl.mendeley.com> to access the editor.

# Creating Groups on



Documents Folders Related Sync

GROUPS

- Community Team
- Demo Group
- Level 1 Assessment [Steffi Schhhh]
- Level 2 Assessment [Minglu Wang]
- Mendeley Advisor Group
- Mendeley for Librarians
- Paper of the Day - Internal
- testeahl
- altmetrics
- Brain Awareness Week
- Creatively named research papers
- EBioMedicine
- Gamification Explorers
- Gamification Research Network
- Mendeley for Librarians
- Mendeley Research4Life Group
- Mendeley Women in STEM
- My Society
- My Society
- New Horizons: From Research Pap...
- Philosophy and Education
- Philosophy selections
- Philosophy, Science, History of Scie...
- Rare Books and Digital Humanities
- Reinventing the Scientific Paper
- Researchers' Choice Communicat...
- Spooky papers
- STM Digest
- TEDxMRU
- Test Group
- Bibliografía de autores salvadoreño...
- Cadena de Valor (Industria Metalme...
- Cloud Computing
- Doctorado en Educación
- Investigación médica en México
- Laboratorio de Ecofisiología, INIRE...
- Modeling & Simulation
- NLP Research Lab at CIC, IPN, Me...
- Restauración ecológica México
- RS - MMRM no BRASIL
- Universidad Nacional Autonoma de ...
- World War II history. From origins t...

Create Group...

Create a new group

Enter a group name...

Enter a group description...

Group Type

- Private  
Share references and full-text files. Only group members can see the group, good for sharing in private.
- Invite-only  
Share references only. Public can follow the group only, good for sharing references or reading lists.
- Open  
Share references only. Public can become a member or follow the group, good for crowd sourcing reading lists.

Cancel

Create groups either private, invite only and open

See the groups you created, joined or follow

Add documents to a group by dragging and dropping.

Pan Highlight Note Select Copy Paste Rotate Zoom Fullscreen Sync

My Library Establishing and Manag...

OPEN ACCESS Freely available online

PLOS COMPUTATIONAL BIOLOGY

Message from ISCB

Establishing and Managing a Global Student Network

Avinash Shanmugam<sup>1\*</sup>, Geoff Macintyre<sup>2</sup>

<sup>1</sup> Department of Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, Michigan, United States of America, <sup>2</sup> The Centre for Neural Engineering, University of Melbourne, Parkville, Victoria, Australia

Abstract

Overview

the RSG chair to oversee d... eration of RSGs in Europe, Asia, and Africa. Together, this committee ensures that each RSG is functioning well, facilitates communication between RSGs, and manages all RSG registrations and renewals. The vice-chairs touch base regularly with RSGs, and together the RSG committee develops strategies and initi...

Ricardo Vidal, M. Eng. 04/11/2014 15:26

Nice paper! I might have pointers related to our advisor program.

Collaborate with your research team in private groups

In private groups, each member has own color to highlight

Details Notes Contents Enrichments

Type: Journal Article

Establishing and Managing a Global Student Network

Authors: A. Shanmugam, G. Macintyre

View research catalog entry for this paper

Journal: PLoS computational biology

Year: 2014

Volume: 10

Issue: 10

Pages: e1003920

Abstract:

Tags:

Author Keywords:

Date Accessed: 2014-10-31

Month: October

URL: <http://www.ncbi.nlm.nih.gov/pubmed/25356597>

Add URL...

Create your research profile on  **MENDELEY**

**David Neal**  Edit

78 h-index | 22362 Citations

Professor  Edit

Senior Group Leader and Professor of Surgical Oncology  Edit

University of Cambridge  Edit

How does my profile look to others?

View Stats Network

**Other IDs**  Edit

Create or Connect your ORCID ID 

Scopus  
Author ID: 35393852700

**Research interests**  Edit

Cardiology

Prostate Cancer

Urology

**About**  Edit

...gical surgeon and translational ...y training and background and ...1 years at the University of ...developing the clinical ... View more

**Co-authors (3459)**

**Editorships** + Add

2015 - 2017 (2 years) | journal editor

**Publications (608)** + Add

**Alcohol consumption and prostate cancer incidence and progression - A Mendelian randomisation study**

Brunner C, Davies N, Martin R, et al.

International Journal of Cancer (2017)

23 Readers | 0 Citations | View stats

**Association of Plasma and Urinary Mutant DNA with Clinical Outcomes in Muscle Invasive Bladder Cancer**

Patel K, Van Der Vos K, Smith C, et al.

Scientific Reports (2017)

17 Readers | 0 Citations | View stats

**Height, selected genetic markers and prostate cancer risk: Results from the PRACTICAL consortium**

Forshakeram A, Smart-Romero S, Kote-Jarai Z, et al.

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# Discover Literature Search on



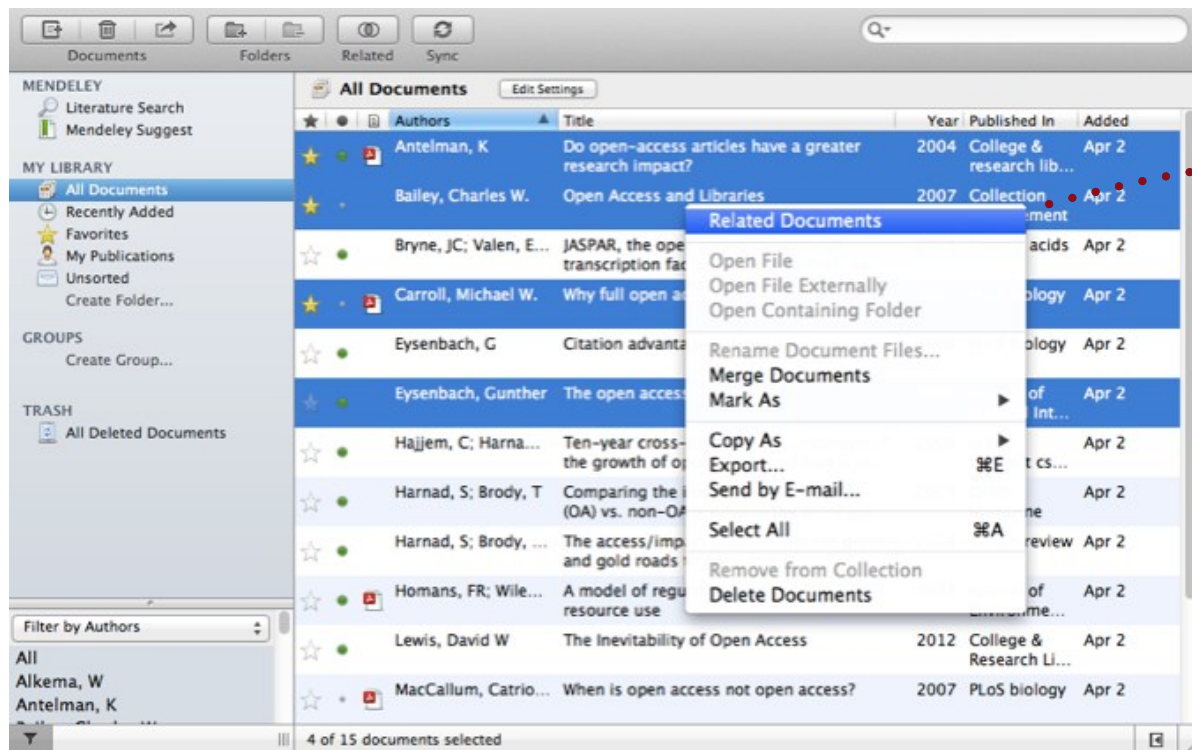
You can search documents over Mendeley's 6.5 million users' libraries

The screenshot shows the Mendeley Literature Search interface. On the left is a sidebar with 'MY LIBRARY' and 'GROUPS'. The main area displays search results for 'cancer treatment'. One result is highlighted: 'Autophagy in pancreatic cancer pathogenesis and treatment' by Rui Kang, D Tang (2012). The details pane on the right shows the document title, authors, journal, and a 'Save PDF' button. A callout bubble points to this button.

Save new research to your library with one click

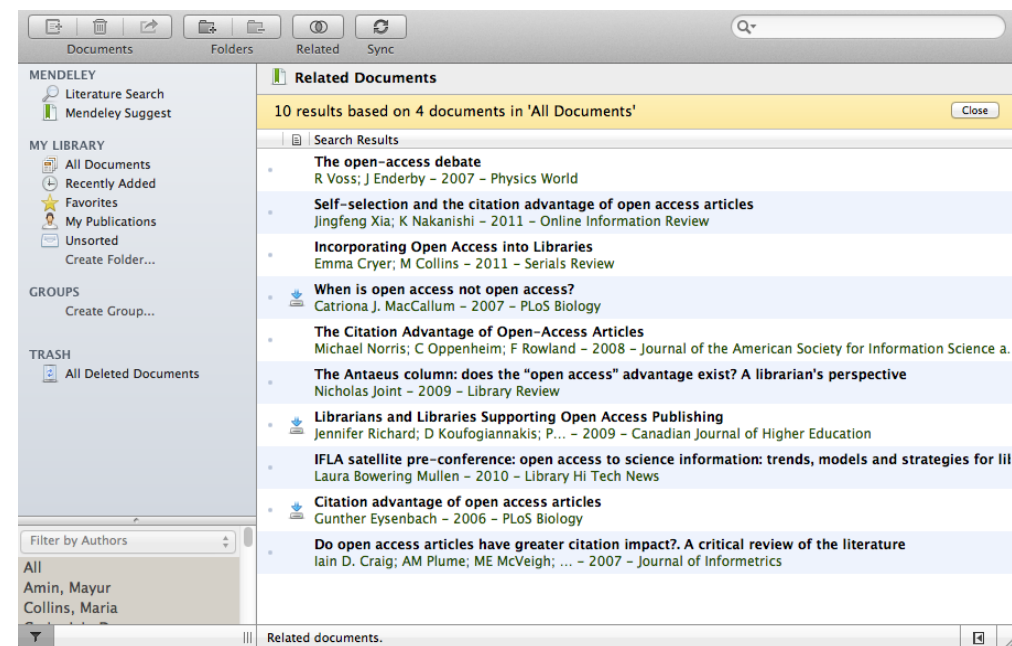
If the full text is available, you'll see a download icon:

# Related Documents on MENDELEY



The screenshot shows the Mendeley Desktop interface with a list of documents. A context menu is open over the selected documents, with the 'Related Documents' option highlighted. A red dotted arrow points from the 'Related Documents' option in the menu to the 'Related Documents' panel in the adjacent screenshot.

Authors	Title	Year	Published In	Added
Antelman, K	Do open-access articles have a greater research impact?	2004	College & research lib...	Apr 2
Bailey, Charles W.	Open Access and Libraries	2007	Collection	Apr 2
Bryne, JC; Valen, E...	JASPAR, the open transcription fac		acids	Apr 2
Carroll, Michael W.	Why full open as		biology	Apr 2
Eysenbach, G	Citation advanta		biology	Apr 2
Eysenbach, Gunther	The open access		of Int...	Apr 2
Hajjem, C; Harna...	Ten-year cross- the growth of o		ts...	Apr 2
Harnad, S; Brody, T	Comparing the i (OA) vs. non-OA		ne	Apr 2
Harnad, S; Brody, ...	The access/imp and gold roads		review	Apr 2
Homans, FR; Wile...	A model of regu resource use		of	Apr 2
Lewis, David W	The Inevitability of Open Access	2012	College & Research Li...	Apr 2
MacCallum, Catrio...	When is open access not open access?	2007	PLoS biology	Apr 2

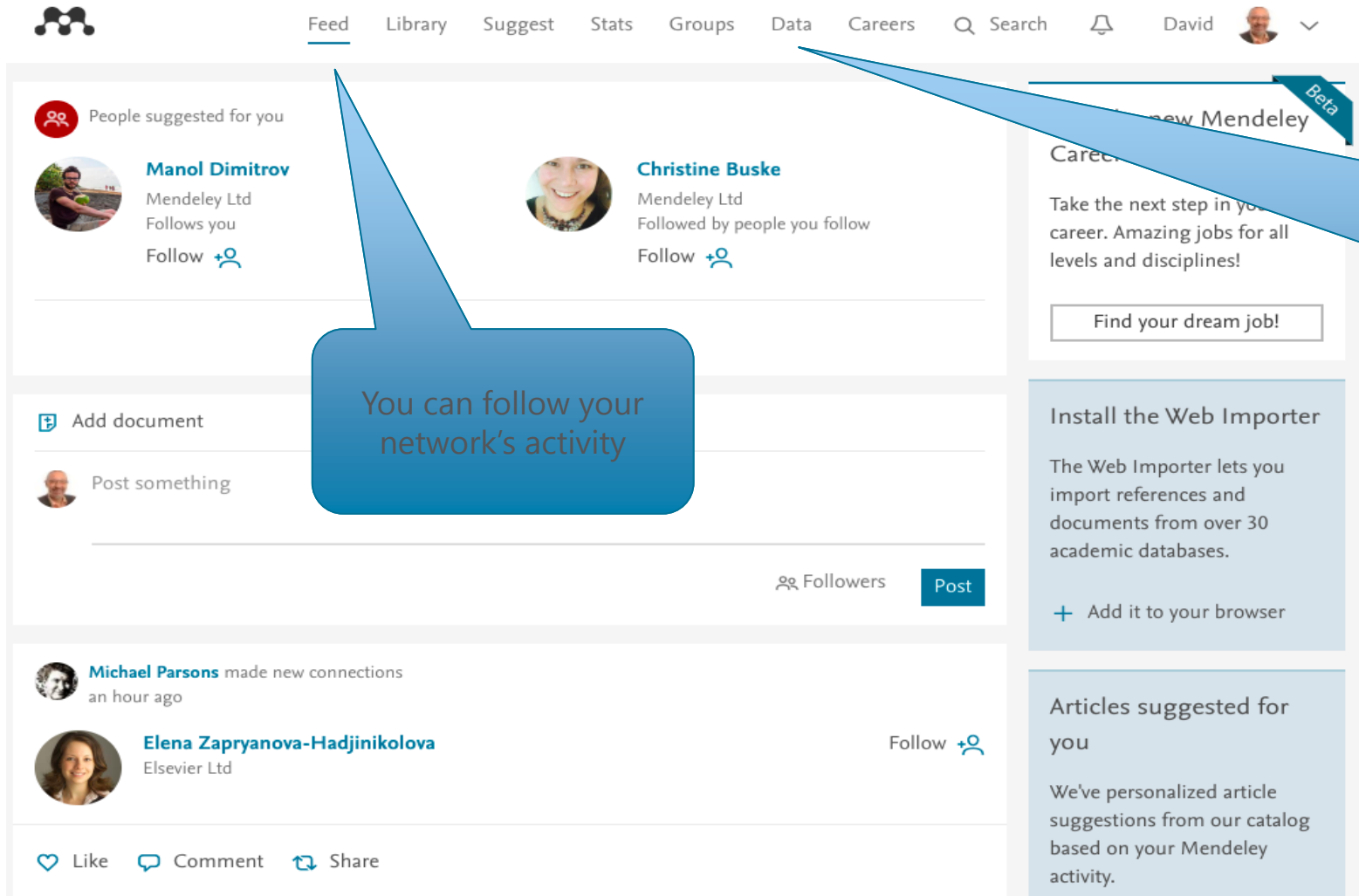


The screenshot shows the Mendeley Desktop interface with the 'Related Documents' panel open. It displays 10 results based on 4 documents in the 'All Documents' collection. The results are listed as follows:

- The open-access debate**  
R Voss; J Enderby - 2007 - Physics World
- Self-selection and the citation advantage of open access articles**  
Jingfeng Xia; K Nakanishi - 2011 - Online Information Review
- Incorporating Open Access into Libraries**  
Emma Cryer; M Collins - 2011 - Serials Review
- When is open access not open access?**  
Catriona J. MacCallum - 2007 - PLoS Biology
- The Citation Advantage of Open-Access Articles**  
Michael Norris; C Oppenheim; F Rowland - 2008 - Journal of the American Society for Information Science a.
- The Antaeus column: does the "open access" advantage exist? A librarian's perspective**  
Nicholas Joint - 2009 - Library Review
- Librarians and Libraries Supporting Open Access Publishing**  
Jennifer Richard; D Koufogiannakis; P... - 2009 - Canadian Journal of Higher Education
- IFLA satellite pre-conference: open access to science information: trends, models and strategies for IIL**  
Laura Bowering Mullen - 2010 - Library Hi Tech News
- Citation advantage of open access articles**  
Gunther Eysenbach - 2006 - PLoS Biology
- Do open access articles have greater citation impact?. A critical review of the literature**  
Iain D. Craig; AM Plume; ME McVeigh; ... - 2007 - Journal of Informetrics

1. Select two or more articles
2. Click 'Related Documents'
3. Receive customized recommendations

# Feed and Data tabs on MENDELEY

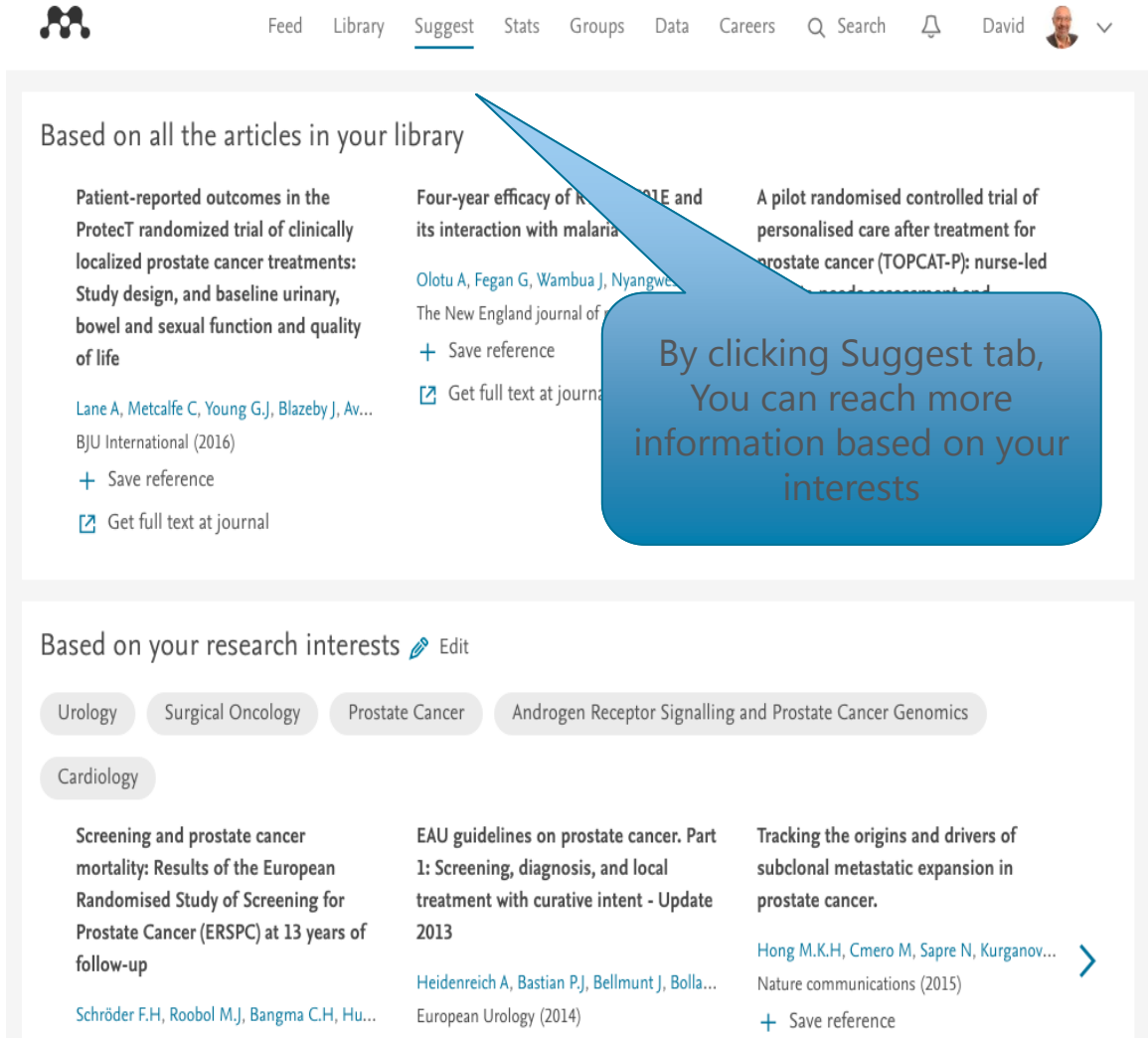


The screenshot shows the Mendeley website interface. At the top, there is a navigation bar with tabs: Feed, Library, Suggest, Stats, Groups, Data, Careers, Search, and a user profile for David. The 'Data' tab is highlighted. Below the navigation bar, the main content area is divided into several sections. On the left, there is a 'People suggested for you' section featuring profiles for Manol Dimitrov and Christine Buske, both from Mendeley Ltd. Below this is an 'Add document' section and a 'Post something' section. On the right, there is a 'Careers' section with a 'Find your dream job!' button, an 'Install the Web Importer' section, and an 'Articles suggested for you' section. A blue callout box with a pointer to the 'Data' tab and the feed content contains the text: 'You can follow your network's activity'.

Mendeley data offers researchers a safe and secure way to upload, access and browse datasets anywhere for free. The data here can also be cited and shared and often makes meeting the requirements for funding bodies all that much easier.



# Suggest & Stats tabs on MENDELEY



Based on all the articles in your library

Patient-reported outcomes in the ProtecT randomized trial of clinically localized prostate cancer treatments: Study design, and baseline urinary, bowel and sexual function and quality of life  
Lane A, Metcalfe C, Young G.J, Blazebly J, Av...  
BJU International (2016)

Four-year efficacy of R... and its interaction with malaria  
Olotu A, Fegan G, Wambua J, Nyangwe...  
The New England journal of...  
+ Save reference  
Get full text at journal

A pilot randomised controlled trial of personalised care after treatment for prostate cancer (TOPCAT-P): nurse-led...  
+ Save reference  
Get full text at journal

Based on your research interests [Edit](#)

Urology Surgical Oncology Prostate Cancer Androgen Receptor Signalling and Prostate Cancer Genomics

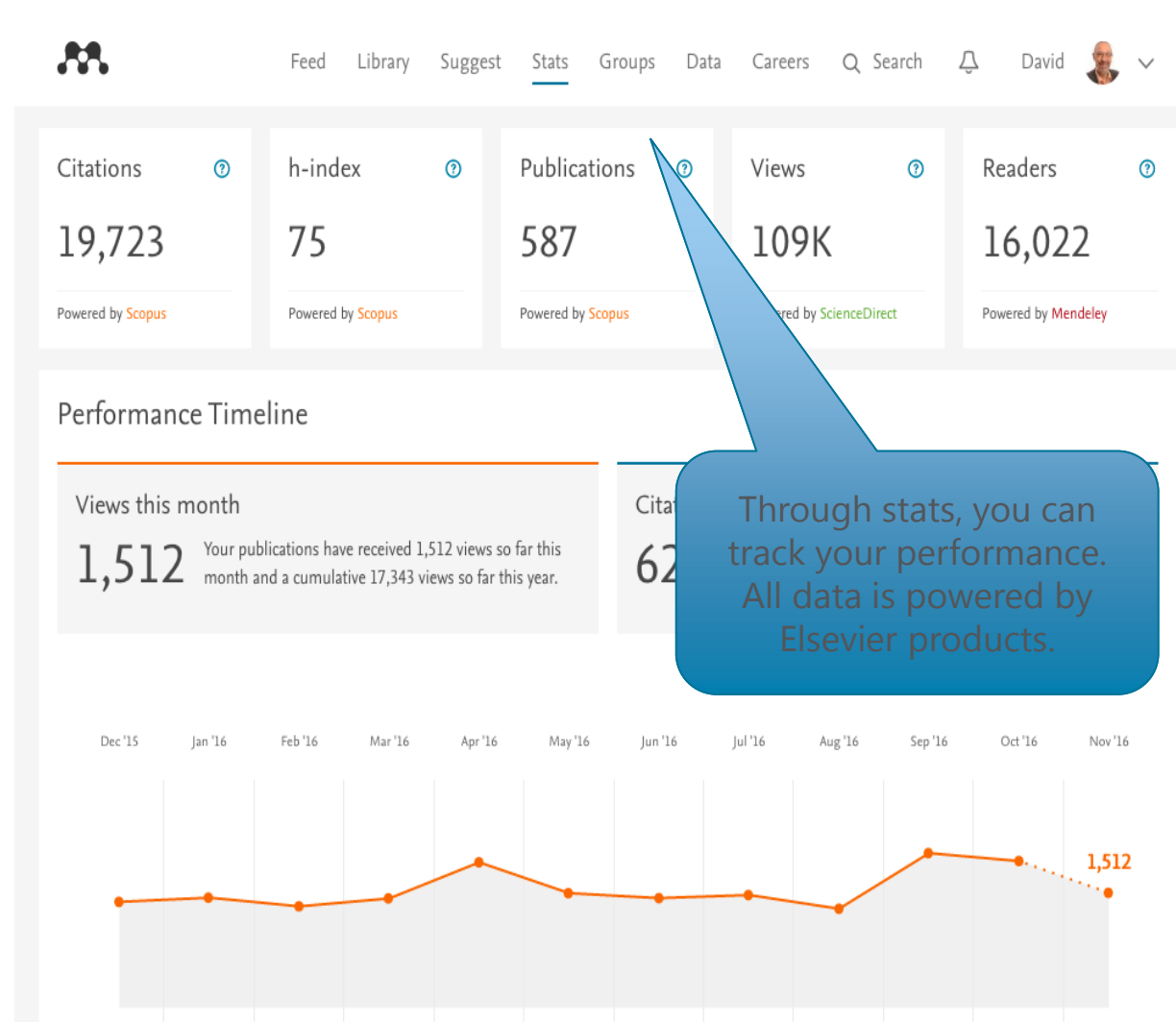
Cardiology

Screening and prostate cancer mortality: Results of the European Randomised Study of Screening for Prostate Cancer (ERSPC) at 13 years of follow-up  
Schröder F.H, Roobol M.J, Bangma C.H, Hu...  
European Urology (2014)

EAU guidelines on prostate cancer. Part 1: Screening, diagnosis, and local treatment with curative intent - Update 2013  
Heidenreich A, Bastian PJ, Bellmunt J, Bolla...  
European Urology (2014)

Tracking the origins and drivers of subclonal metastatic expansion in prostate cancer.  
Hong M.K.H, Cmero M, Sapre N, Kurganov...  
Nature communications (2015)

By clicking Suggest tab, You can reach more information based on your interests



Feed Library Suggest **Stats** Groups Data Careers Search David

Citations 19,723 Powered by Scopus

h-index 75 Powered by Scopus

Publications 587 Powered by Scopus

Views 109K Powered by ScienceDirect

Readers 16,022 Powered by Mendeley

Performance Timeline

Views this month 1,512 Your publications have received 1,512 views so far this month and a cumulative 17,343 views so far this year.

Citations 62

Dec '15 Jan '16 Feb '16 Mar '16 Apr '16 May '16 Jun '16 Jul '16 Aug '16 Sep '16 Oct '16 Nov '16

1,512

Through stats, you can track your performance. All data is powered by Elsevier products.

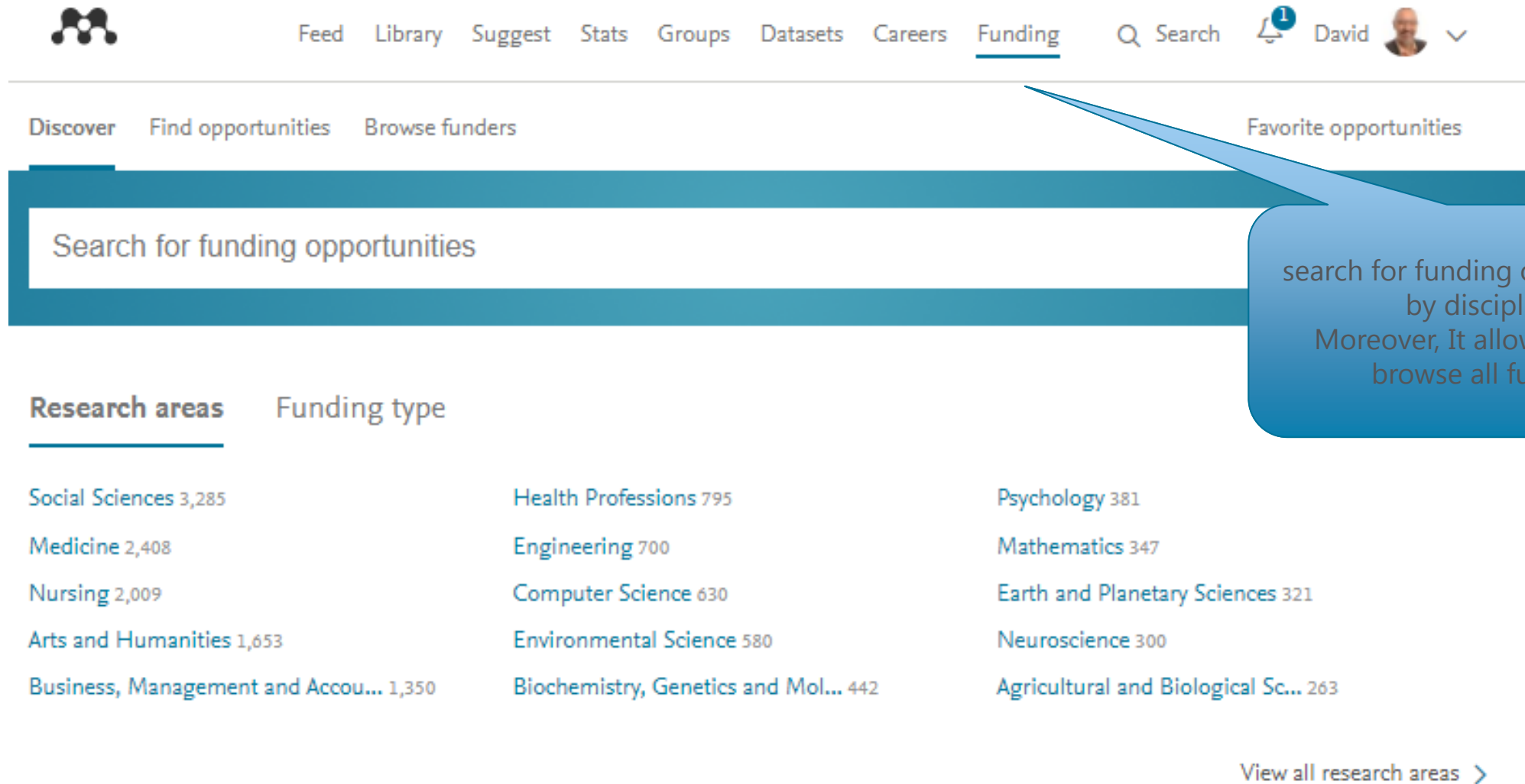
Career tab on



The screenshot shows the Mendeley Careers website. At the top, there is a navigation bar with the Mendeley logo and several menu items: Feed, Library, Suggest, Stats, Groups, Datasets, **Careers** (highlighted), Funding, Q Search, a notification bell, and a user profile for David. Below the navigation bar is a dark blue header with links: Find a Job, Create Job Alert, Your Jobs, Universities & Colleges, All Employers, Careers Advice, and a Recruiter button. The main content area features a large background image of a man in a plaid shirt looking at a tablet in a field. Overlaid on this image is a search bar with the text "Search 51,380 science and technology jobs on Mendeley Careers". Below the search bar are three input fields: "e.g. Biomedical Science", "Any location", and "Within 20 mile", followed by a red "Search" button. A blue callout box points to the search bar with the text: "search for open positions by discipline, location and distance within a certain location. Moreover, It allows users to create job alerts, find careers advice, and browse through employers and Institutions who are advertising on this website." Below the search bar is a table with three columns: Discipline, Job Type, and Location. The table lists various disciplines with their corresponding job counts.

Discipline	Job Type	Location
Agriculture & Biology	2349	
Arts & Humanities	461	
Biochemistry, Biophysics & Biomedics	1633	
Business, Finance & Law	13497	
Chemistry	4799	
Dentistry	1161	
Engineering	11919	
Mathematics & Computing	13817	
Medicine	8043	
Pharmaceutical	2083	
Physical & Earth Sciences	1454	
Social Sciences	1047	

Funding tab on



The screenshot shows the Mendeley website's 'Funding' tab. At the top, there is a navigation bar with the Mendeley logo on the left and links for 'Feed', 'Library', 'Suggest', 'Stats', 'Groups', 'Datasets', 'Careers', and 'Funding' (which is underlined). To the right of the navigation bar are a search icon and the text 'Search', a notification bell icon with a '1', and a user profile for 'David' with a dropdown arrow. Below the navigation bar, there are three tabs: 'Discover', 'Find opportunities', and 'Browse funders'. A blue callout box points to the 'Funding' tab with the text: 'search for funding opportunities by discipline. Moreover, It allows users to browse all funders'. Below the tabs is a large search bar with the placeholder text 'Search for funding opportunities'. Underneath the search bar, there are two columns of links: 'Research areas' and 'Funding type'. The 'Research areas' column lists: Social Sciences 3,285; Medicine 2,408; Nursing 2,009; Arts and Humanities 1,653; and Business, Management and Accou... 1,350. The 'Funding type' column lists: Health Professions 795; Engineering 700; Computer Science 630; Environmental Science 580; and Biochemistry, Genetics and Mol... 442. To the right of these columns, there is a list of disciplines: Psychology 381; Mathematics 347; Earth and Planetary Sciences 321; Neuroscience 300; and Agricultural and Biological Sc... 263. At the bottom right, there is a link 'View all research areas >'.

search for funding opportunities  
by discipline.  
Moreover, It allows users to  
browse all funders

## How to reach the resources by yourselves?

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Thank you!