

ScienceDirect

Goes beyond search to research

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Agenda

- Useful Information before getting started
- Facts & Content
- Hands-On
- Questions & Answers



Useful information before getting started

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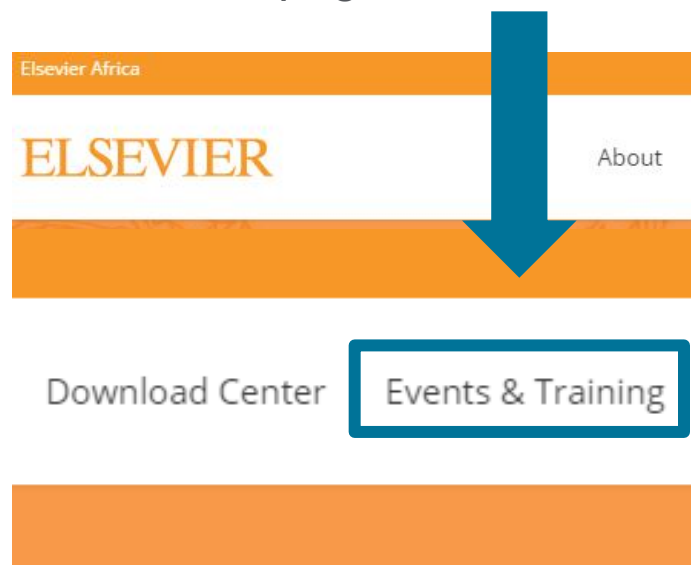
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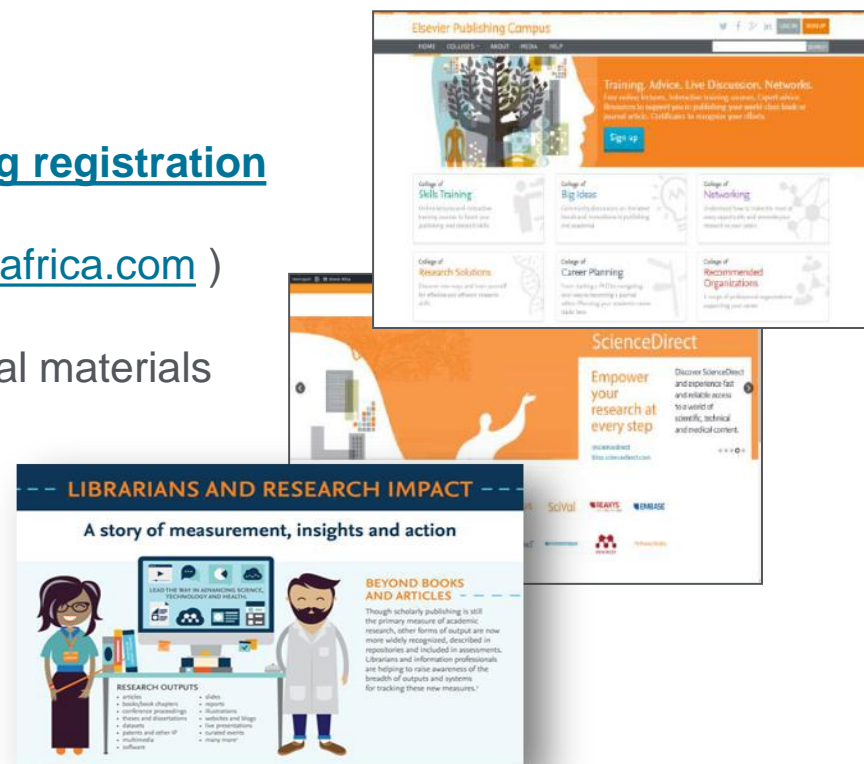
EKB Links:

- Link to [Egyptian Knowledge Bank \(www.ekb.eg\)](http://www.ekb.eg)
- Link to how to [register on EKB](#)
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What do you get when a photochemist, a physicist and a materials scientist walk into a lab?

Submitted by Andrea Coenen on 11 March 2016 - 7:53pm

More than you might expect!

Actually, their collaboration resulted in improved vision for millions of people and a slew of prestigious awards. LASIK surgery clearly demonstrates the value of multi-disciplinary research and shows how a discovery in one field can be applied in another with massive effect.

According to physicist James J. Winnie:

"It's a big world out there, there are interesting things everywhere. Focusing too narrowly can sometimes bring you to a dead end."

With the ability to search across more than 3,500 journals and 34,000 books, ScienceDirect offers you access to the full-text of 14 million articles so that you don't miss anything.

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What new discovery awaits YOU on ScienceDirect?

Download the full white paper below and read more about the discovery of LASIK.

Expanded access choices for researchers with enhanced usage reports for librarians

Submitted by Andrea Coenen on 18 February 2016 - 1:15pm

Efficient access to full-text articles is important and Elsevier is taking steps towards offering additional access and product format choices. For research professionals at your library or institution, this means that the articles included in your ScienceDirect subscription are now recognized when visiting their pages on other Elsevier websites and mobile apps.

For example:

- [TheLancet.com](#) and [The Lancet iTunes Reader Mobile App](#)

Your participation can kick start corporate innovation

Submitted by Andrea Coenen on 4 February 2016 - 11:49pm

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ScienceDirect introduces a new interface in early February
Short downtime for RDB, Search and Topic Alerts

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Elsevier is a **world-leading provider of information solutions** that enhance the performance of science, health, and technology professionals.

Elsevier, the modern publishing company, was founded in 1880. It has evolved from a small Dutch publishing house devoted to classical scholarship into an **international multimedia publishing company with over 20,000 products for educational and professional science and healthcare communities worldwide.**

Elsevier takes its name from the original House of Elzevir, a Dutch family publishing house founded in 1580.

Elsevier provides web-based, digital solutions — among them [ScienceDirect](#), [Scopus](#), [Elsevier Research Intelligence](#) and [ClinicalKey](#)— and publishes over 2,500 journals, including [The Lancet](#) and [Cell](#), and more than 33,000 book titles, including a number of iconic reference works. As the company moves forward, our founding motto remains apt: Non Solus – Not Alone

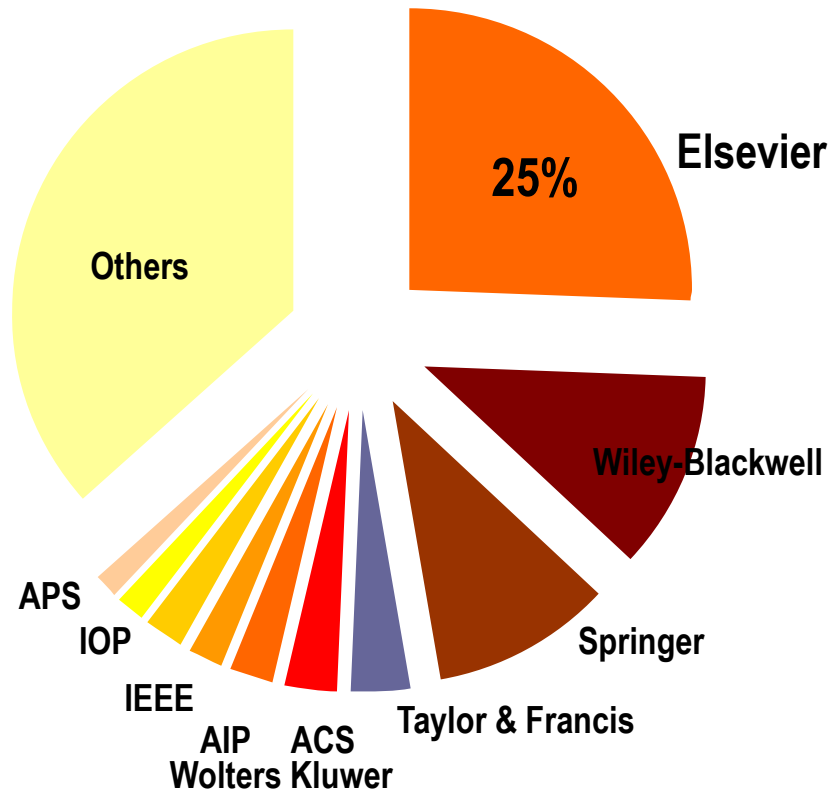
ScienceDirect is:

- a **full-text online database** offering scientific, technical and medical (STM) journal articles and book chapters
- Elsevier's **Peer-reviewed** full-text content database

On ScienceDirect, you have access to:

- ✓ The Freedom Collection which is **more than 2,200 Elsevier journals in 24 subject areas**
- ✓ **43 Subject Backfile** Collections (digital archives)
- ✓ The **Cell Press** Collection
- ✓ More than **90 eBook** titles
- ✓ More than **250,000 open access articles** and over **500 open access journals**
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Chemical Engineering	Agricultural and Biological Sciences
Chemistry	Biochemistry, Genetics and Molecular Biology
Computer Science	Environmental Science
Earth and Planetary Sciences	Immunology and Microbiology
Energy	Neuroscience
Engineering	<u>IV. Social Sciences and Humanities</u>
Materials Science	Arts and Humanities
Mathematics	Business, Management and Accounting
Physics and Astronomy	Decision Sciences
<u>III. Health Sciences</u>	Economics, Econometrics and Finance
Medicine and Dentistry	Psychology
Nursing and Health Professions	Social Sciences
Pharmacology, Toxicology and Pharmaceutical Science	
Veterinary Science and Veterinary Medicine	

43 Subject Backfile Collections

Agricultural and Biological Sciences	Environmental Science	Oncology
Allergology, Rheumatology and Immunology	Forensic Medicine, Pathology and Medical Technology	Organic Chemistry
Anesthesiology, Pain Medicine, Emergency Medicine, Critical Care and Intensive Medicine	Gastroenterology, Endocrinology, Diabetes and Metabolism	Orthopedics, Sports Medicine and Rehabilitation
Biochemistry, Genetics and Molecular Biology	General Medicine	Perinatology, Pediatrics and Child Health
Business, Management and Accounting	Hematology, Cardiology and Cardiovascular Medicine	Pharmacology, Toxicology and Pharmaceuticals
Chemical Engineering	High Energy/Nuclear Physics and Astronomy	Physical and Analytical Chemistry
Clinical Neurology	Immunology and Microbiology	Physics General
Computer Science	Inorganic Chemistry	Psychiatry and Mental Health
Decision Sciences	Materials Science	Psychology
Dentistry, Oral Surgery and Medicine	Mathematics	Public Health and Health Policy
Earth and Planetary Sciences	Medicine and Dentistry	Radiology and Imaging
Economics, Econometrics and Finance	Neuroscience	Respiratory, Pulmonary and Infectious Diseases
Energy and Power	Nursing and Health Professions	Social Science
Engineering and Technology	Obstetrics, Gynecology and Women's Health	Surgery
		Veterinary Science and Veterinary Medicine

In context...

- **15 million researchers** worldwide have access to ScienceDirect
- At peak hours almost **5,000 researchers** are online simultaneously
- **36 full text downloads** every second during an average working day





ScienceDirect:
Empowering
researchers at
every step


Using the published literature: Four activities take more than 2 hours per week and are considered highly important



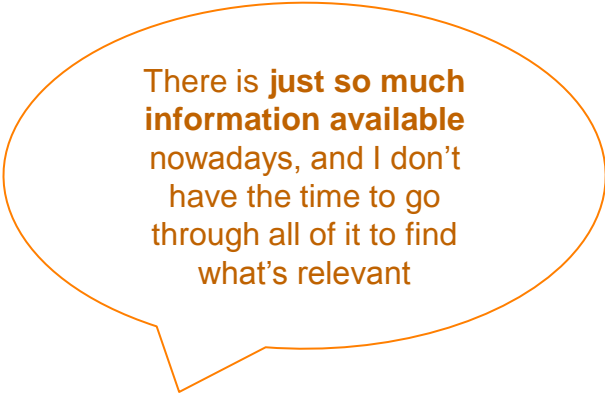
1. Reading research
2. Keeping up-to-date with your field
3. Searching online scientific literature
4. Obtaining in-depth knowledge on a subject

The researchers' challenge is in these use cases

We consistently hear from researchers the challenge they have with managing information



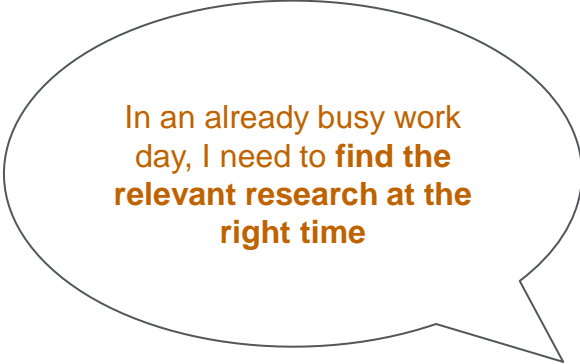
I need to **keep up to date** with the research in my field and have a hard time feeling confident that I am



There is **just so much information available** nowadays, and I don't have the time to go through all of it to find what's relevant



I need to **collaborate** with other researchers



In an already busy work day, I need to **find the relevant research at the right time**

How does ScienceDirect support the key activities of researchers?

1: Reading research (content)

- PDF Download & Share
- HTML article
- Image search
- Quick and easy

2: Keeping up-to-date with your field (platform)

- Journal browse
- 3 type of alerts (email notification)
- Top 25 for the latest development and news
- Article in Press

3: Searching scientific literature online (platform) Discovering the relevant information

- Quick search
- Filters
- Advanced search
- Expert search
- Recommendations

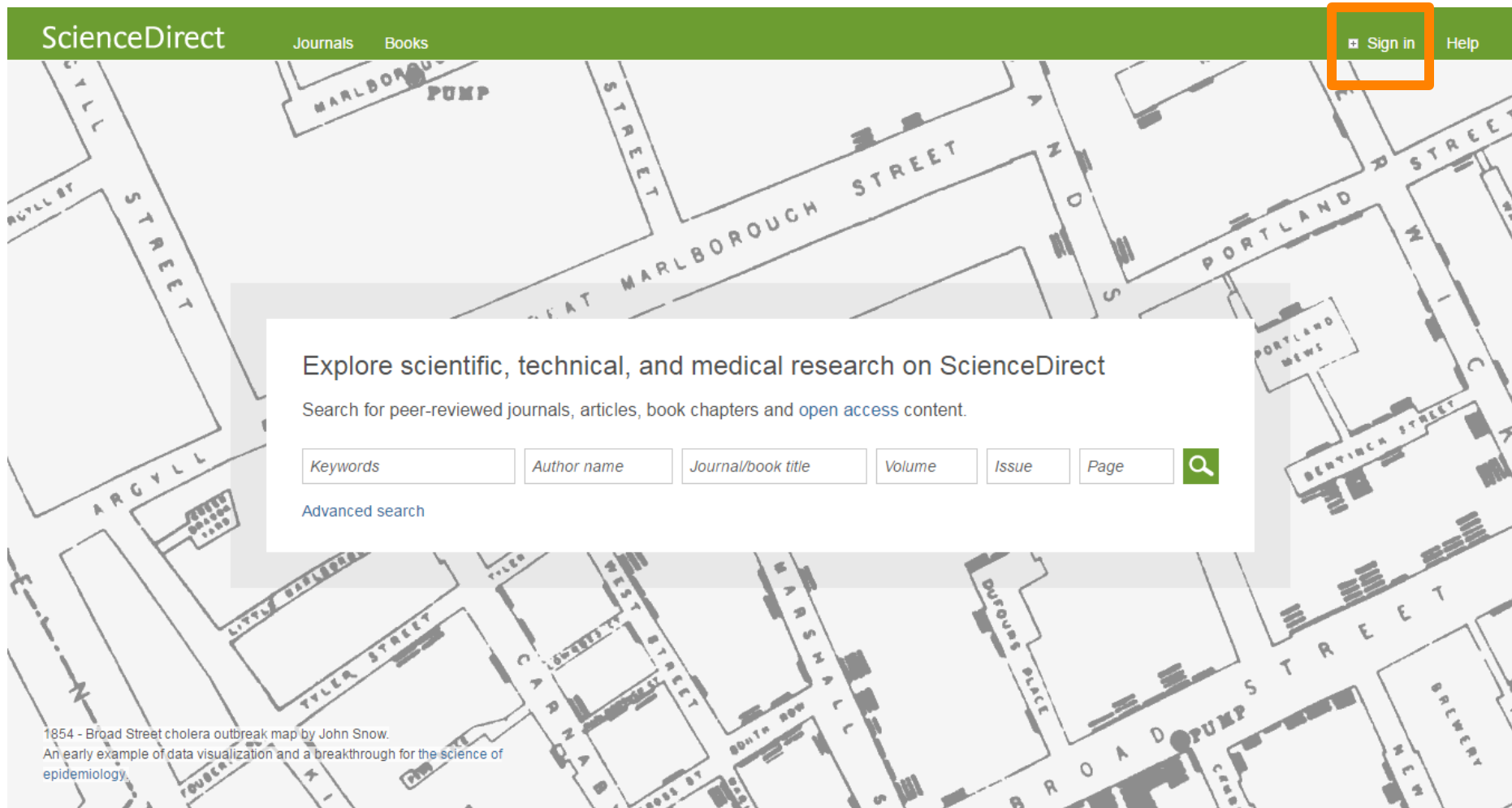
4: Obtaining in-depth knowledge on a subject (content & platform)

- Recommendations
- Books
- Scopus and Mendeley Incorporation

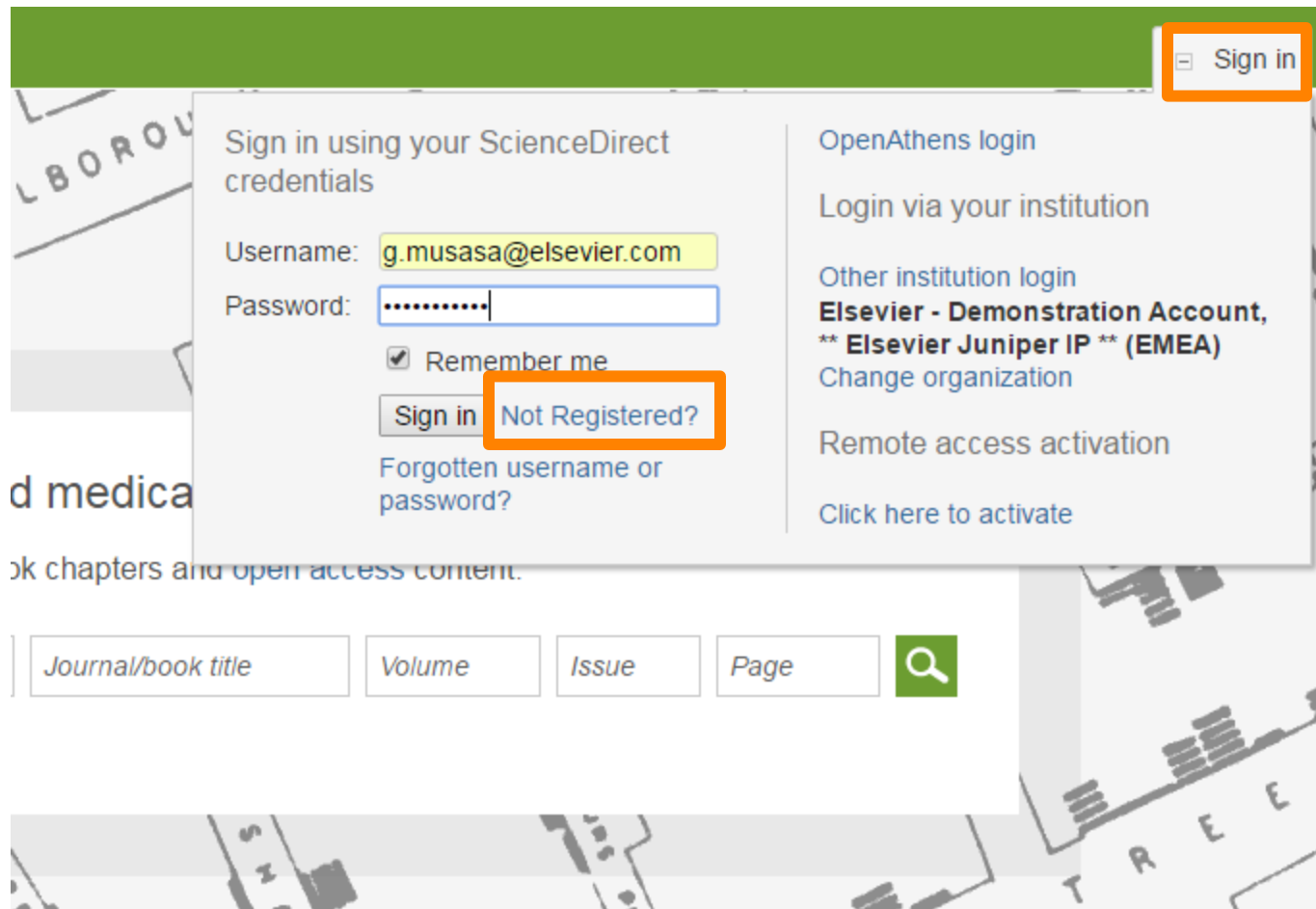
Hands - on

ScienceDirect new homepage!

A cleaner and more focused search experience

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**Sign in to experience all the functionalities
such as the alerts and see your search history**

A screenshot of the ScienceDirect sign-in page. The page has a green header bar with a "Sign in" button highlighted by an orange box. Below the header is a sign-in form. The form has two columns. The left column is titled "Sign in using your ScienceDirect credentials" and contains fields for "Username:" (with the value "g.musasa@elsevier.com" highlighted in yellow) and "Password:" (with masked characters "....."). Below the password field is a "Remember me" checkbox which is checked. At the bottom of this column are two buttons: "Sign in" and "Not Registered?", both highlighted by orange boxes. Below the "Not Registered?" button is a link "Forgotten username or password?". The right column contains links for "OpenAthens login", "Login via your institution", "Other institution login", "Elsevier - Demonstration Account, ** Elsevier Juniper IP ** (EMEA)", "Change organization", "Remote access activation", and "Click here to activate". At the bottom of the page is a search bar with four input fields labeled "Journal/book title", "Volume", "Issue", and "Page", followed by a green search button with a magnifying glass icon.

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so you just need
to do it register
once

Register

(* = required field)

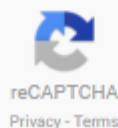
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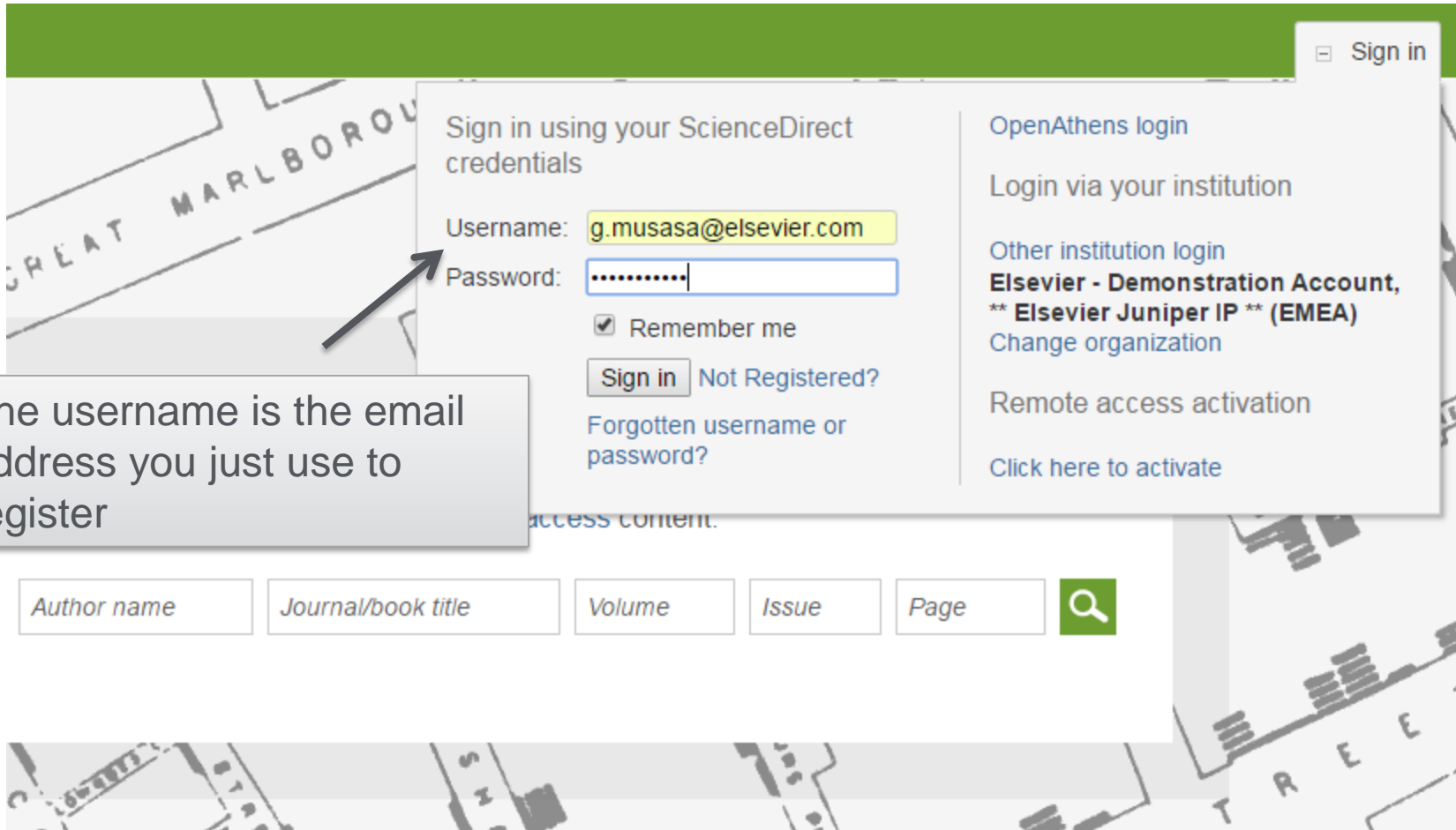
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Sign in when using ScienceDirect



The screenshot shows the ScienceDirect sign-in interface. A callout box on the left, with an arrow pointing to the username field, states: "The username is the email address you just use to register". The username field contains "g.musasa@elsevier.com". The password field is masked with dots. Below the password field is a "Remember me" checkbox. To the right of the "Sign in" button is a link for "Not Registered?". Below these are links for "Forgotten username or password?" and "OpenAthens login". A section titled "Login via your institution" includes a link for "Other institution login" and a bolded message: "Elsevier - Demonstration Account, ** Elsevier Juniper IP ** (EMEA)". Below this is a link to "Change organization". At the bottom right of the sign-in area is a link for "Remote access activation" with a sub-link "Click here to activate". At the very bottom of the page is a search bar with fields for "Author name", "Journal/book title", "Volume", "Issue", and "Page", followed by a green search icon.

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Hanahan, D.; Weinberg, Robert A.
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2. **Cpf1 Is a Single RNA-Guided Endonuclease of a Class 2 CRISPR-Cas System** • Article
Cell, Volume 163, Issue 3, Pages 759-771
Zetsche, B.; Gootenberg, Jonathan S.; Abudayyeh, Omar O.; Slaymaker, Ian M.; Makarova, Kira S.; Essletzbichler, P.; Volz, Sara E.; Joung, J.; van der Oost, J.; Regev, A.; Koonin, Eugene V.; Zhang, F.
3. **Users of the world, unite! The challenges and opportunities of Social Media** • Article
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Kaplan, Andreas M.; Haenlein, Michael
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Sayed-Ahmed, M.M.
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- Induction of Pluripotent Stem Cells from Mouse Embryonic and Adult Fibroblast Cultures by Defined Factors** * Article
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Takahashi, K.; Yamanaka, S.
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- Social media? Get serious! Understanding the functional building blocks of social media** * Article
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Kietzmann, Jan H.; Hermkens, Kristopher; McCarthy, Ian P.; Silvestre, Bruno S.
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Hart, T.; Chandrashekhar, M.; Aregger, M.; Steinhart, Z.; Brown, Kevin R.; MacLeod, G.; Mis, M.; Zimmermann, M.; Fradet-Turcotte, A.; Sun, S.; Mero, P.; Dirks, P.; Sidhu, S.; Roth, Frederick P.; Rissland, Olivia S.; Durocher, D.; Angers, S.; Moffat, J.
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Journal of Parallel and Distributed Computing, Volume 70, Issue 1, Pages 13-22
Omara, F.A.; Arafa, M.M.

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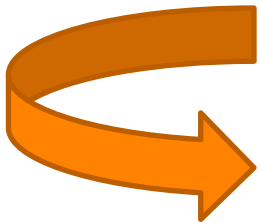
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- ✓ You can type several keywords separated by a comma :
the comma will stand for “AND”
- ✓ You can narrow your results by using double quotes or curly brackets



TIPS!

You can search for phrases in three ways, depending on how exact a match you want to find. You can find: **your search terms somewhere in the document**; a **loose or approximate phrase match**; or an **exact phrase match**

To search for a loose or approximate phrase : To find documents where your search terms appear adjacent to each other enclose the terms in **double quotes** "cell behavior".

"heart-attack" will search for heart-attack, heart attack, heart attacks, and so on

To search for an exact phrase : To find documents that contain an exact phrase, including any stop words, spaces and punctuation, enclose the phrase in **curly brackets** {high-pressure processing}.

Wildcards: To find documents that contain different keywords spelled with the same letters, use the **asterisk**. Searching for "criminal* insan*" finds criminally insane and criminal insanity.

Plurals are included. Searching for tox*" finds toxicology, toxin, toxic ...

For more information, click on:

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"sustainable development"

Author name

Journal or book title

Volume

Issue

Page



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This is the Results Page

Save search alert

RSS

Refine filters

Year

- ☐ 2016 (4,144)
- ☐ 2015 (7,797)
- ☐ 2014 (5,932)
- ☐ 2013 (5,051)
- ☐ 2012 (4,482)

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Publication title

- ☐ Journal of Cleaner Production (2,729)
- ☐ Fuel and Energy Abstracts (2,503)
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- ☐ energy (4,405)
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Ecological Indicators, Volume 69, October 2016, Pages 26-34
Xiaomeng Wang, Kai Huang, Yajuan Yu, Tingting Hu, Yanjie Xu
[Abstract](#) | [Research highlights](#) | PDF (1159 K)
- ☐ [Bitter vetch \(*Vicia ervilia*\) seed protein concentrate as possible source for production of bilayered films and biodegradable containers](#) Original Research Article
Food Hydrocolloids, Volume 60, October 2016, Pages 232-242
Akram Arabestani, Mahdi Kadivar, Angela Amoresano, Anna Illiano, Prospero Di Pierro, Raffaele Porta
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- ☐ [Tourists' shopping experiences at street markets: Cross-country research](#) Original Research Article
Tourism Management, Volume 56, October 2016, Pages 85-95
Antónia Correia, Metin Kozak
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- ☐ [A facile synthesis of Br-modified g-C₃N₄ semiconductors for photoredox water splitting](#) Original Research Article
Applied Catalysis B: Environmental, Volume 192, 5 September 2016, Pages 116-125
Zhi An, Liang Guizhong Zhang, Yinchao Wang

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"sustainable development"

Author name

Journal or book title

Volume

Issue

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Image search results: 20,179 results found

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Year

- ☐ 2016 (1,265)
- ☐ 2015 (2,827)
- ☐ 2014 (2,209)
- ☐ 2013 (2,820)
- ☐ 2012 (1,887)

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Publication title

- ☐ Energy for Sustainable Development (2,859)
- ☐ Energy (2,165)
- ☐ Journal of Cleaner Production (1,528)
- ☐ Renewable and Sustainable Energy Reviews (1,052)
- ☐ Applied Energy (1,046)

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Topic

- ☐ renewable energy (751)
- ☐ sustainable development (538)
- ☐ exergy analysis (435)
- ☐ energy system (427)
- ☐ exergy (418)

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Content type

- ☐ Journal (18,481)
- ☐ Book (1,788)
- ☐ Reference Work (316)

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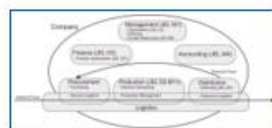
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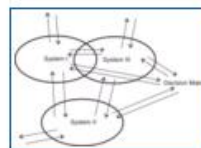
Date

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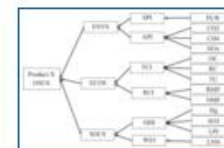
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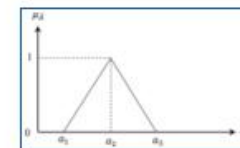
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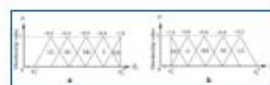
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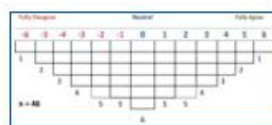
Structure of SAFT user interface.

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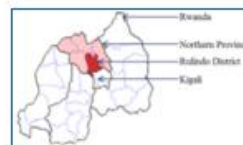
Graphic representation of fuzzy sets: (a) for positive influencing factors; (b) for...

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The Rutongo District Map (adapted from Northern Province Government website).

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Factor A - Variance explained: 17%; Defining statements (*): 19 (p<0.05)

	Most Disagree						Neutral						Most Agree					
	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6					
23	12*	26*	6*	13*	27*	40*	4*	7*	44*	43*	42*	1*						
9		9	16*	15*	10*	31*	27	41*	5*	38*	24*							
28			28	22	45*	34*	35*	2	33	39*	25							
32				32	18	14	17*	21	11	36								
29					29	30	46*	19	8									
n = 46							20											


Factor B - Variance explained: 10%; Defining statements (*): 23 (p<0.05)


	Most Disagree						Neutral						Most Agree					
	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6					
4*	16	6*	44*	19*	21*	23*	42*	10*	9*	2*	8*	5*						
8		9	12*	34*	40*	26*	32*	37*	38*	1*	38*	24*						
28			28	45*	17*	46*	35*	7*	31*	36	25							
29				29	22	20	18	15*	41*	24								
30					30	14	27	43	13									
n = 46							39											

Factor C - Variance explained: 14%; Defining statements (*): 22 (p<0.05)

	Most Disagree						Neutral						Most Agree					
	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6					
6*	16	40*	44*	38*	29*	20*	5*	30*	4*	42*	7*	1*						
23		12*	31*	3*	37*	14*	25*	33	27*	15*	24							
9			9	18	45*	35*	26*	41*	43	11	8							
32				32	34*	17*	50*	36	2	13								
22					22	39	28*	23	19									
n = 46							46*											

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"West Africa" Author name Journal or book title Volume Issue Page  [Advanced search](#)

Search results: 42,003 results found. [See image results](#)  Save search

Refine filters

Year




- ☐ 2015 (44)
- ☐ 2014 (2,320)
- ☐ 2013 (2,320)
- ☐ 2012 (1,970)
- ☐ 2011 (1,725)
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Publication title






- ☐ The Lancet (2,486)
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- ☐ Journal of African Earth Sciences (561)
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- ☐ west africa (1,454)
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- ☐ plasmodium falciparum (475)

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Sylvain Ozainne, Laurent Lespez, Aline Garnier, Aziz Ballouche, Katharina Neumann, Olivier Pays, Eric Huysecom
[Abstract](#) | [Research highlights](#) |  PDF (5717 K) | [Supplementary content](#)
- ☐ [Capturing the Margins: World Market Prices and Cotton Farmer Incomes in West Africa](#) Original Research Article
World Development, Volume 59, July 2014, Pages 408-421
Thomas J. Bassett
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- ☐ [Deconstructing "malaria": West Africa as the next front for dengue fever surveillance and control](#) Review Article
Acta Tropica, Volume 134, June 2014, Pages 58-65
Justin Stoler, Rawan al Dashti, Francis Anto, Julius N. Fobil, Gordon A. Awandare
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Journal of Stored Products Research, Volume 58, July 2014, Pages 20-28
I.B. Baoua, L. Amadou, B. Ousmane, D. Baributsa, L.L. Murdock
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- ☐ [Simulating land-use degradation in West Africa with the ALADYN model](#) Original Research Article
Journal of Arid Environments, In Press, Corrected Proof, Available online 18 June 2014
Yulia Grinblat, Giora J. Kidron, Arnon Karnieli, Itzhak Benenson
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☐ 2011 (1,725)[View more >>](#)**Publication title**☐ The Lancet (2,486)☐ Transactions of the Royal Society of Tropical M... (2,051)☐ Journal of African Earth Sciences (561)☐ World Development (547)☐ Precambrian Research (540)[View more >>](#)**Topic**☐ west africa (1,454)☐ africa (678)☐ tropical medicine (553)☐ west african (490)☐ plasmodium falciparum (475)[View more >>](#)**Content type**☒ Journal (37,662)☐ Book (5,550)☐ Reference Work (907)[Apply filters](#)

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☐ Evaluation of X-band polarimetric radar estimation of rainfall and rain drop size distribution parameters in
Research Article
Atmospheric Research, Volume 143, 15 June 2014, Pages 1-12

A.K. Koffi, M. Gosset, E.-P. Zahiri, A.D. Ouedraogo, A. Assamoi

[▶ Abstract](#) | [▶ Research highlights](#) |  PDF (4968 K)

☐ Why fish? Using entry-strategies to inform governance of the small-scale sector: A case-study in the Bija
Archipelago (**West Africa**) Original Research Article
Marine Policy, Volume 51, January 2015, Pages 128-135

Helen Cross


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Year

- ☐ 2015 (44)
- ☐ 2014 (2,320)
- ☐ 2013 (2,320)
- ☐ 2012 (1,970)
- ☐ 2011 (1,725)

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Publication title

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- ☐ Transactions of the Royal Society of Tropical Medicine and Hygiene (2,051)
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- ☐ World Development (547)
- ☐ Precambrian Research (540)

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Sylvain Ozainne, Laurent Lespez, Aline Garnier, Aziz Ballouche, Katharina Neumann, Olivier Pays, Eric Huysecom
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Search

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Select: Combine with AND | Combine with OR | Combining tips

Search	Results	Actions
<input type="checkbox"/> pub-date > 2003 and TITLE-ABSTRACT("sustainable development") or ("developpement durable") [All Sources(Economics, Econometrics and Finance)]	861 articles	Edit Delete
<input type="checkbox"/> ("sustainable development", Africa) or ("climate change", Africa) [All Sources(- All Sciences -)]	32,883 articles	Edit Delete

Search for articles from our full-text collection using this search form. Click the **Help** button for step-by-step instructions on conducting a search using this form. Consult the Search Tips for information about the use of connectors, wildcards, and other search options which can improve the precision of your search.

TIPS! Make sure you “Save your history as” to be able to recall your history later

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<input checked="" type="checkbox"/> ("sustainable development", Africa) or ("climate change", Africa) [All Sources(- All Sciences -)]	32,883 articles	Edit Delete
<input checked="" type="checkbox"/> ("sustainable development" or ("climate change", Africa) [All Sources(- All Sciences -)]	82,739 articles	Edit Delete
<input type="checkbox"/> TITLE-ABSTR-KEY(energy, africa) [All Sources(- All Sciences -)]	1,622 articles	Edit Delete

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	Search	Results	Actions
<input type="checkbox"/>	pub-date > 2003 and TITLE-ABSTR-KEY("sustainable development") or ("developpement durable") [All Sources(Economics, Econometrics and Finance)]	861 articles	Edit Delete
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<input checked="" type="checkbox"/>	("sustainable development") or ("climate change", Africa) [All Sources(- All Sciences -)]	82,739 articles	Edit Delete
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Search results: 83,812 results found for (("sustainable development") or ("climate change", Africa)) OR (TITLE-ABSTR-KEY(energy, africa)).

Search Alert

Search results: 177 results found for TITLE-ABSTR-KEY(Library) and ("Information science") AND LIMIT-TO(yearnav, "2015,2014").

Refine filters

Year

- ☐ 2015 (6)
- ☐ 2014 (171)

Publication title

- ☐ The Journal of Academic Librarianship (58)
- ☐ Procedia - Social and Behavioral Sciences (18)
- ☐ Library & Information Science Research (16)
- ☐ Procedia Computer Science (10)
- ☐ International Journal of Information Management (8)
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Journal of Informetrics, Volume 9, Issue 1, January 2015, Pages 50-58
Liming Liang, Zhen Zhong, Ronald Rousseau
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Engagement of Academic Libraries and Information Science Schools in Creating Curriculum for Sustainability: An Exploratory Study Original Research Article
The Journal of Academic Librarianship, Volume 40, Issue 1, January 2014, Pages 45-54
Maria A. Jankowska, Bonnie J. Smith, Marianne A. Buehler
[Abstract](#) | [PDF \(653 K\)](#) | [Supplementary content](#)

The Role of Perceived Self-Efficacy in the Information Seeking Behavior of Library and Information Science Students Original Research Article
The Journal of Academic Librarianship, Volume 40, Issue 2, March 2014, Pages 101-106
Jenny Bronstein
[Abstract](#) | [PDF \(277 K\)](#)

LIS Graduate Students as Library Users: A Survey Study Original Research Article
The Journal of Academic Librarianship, Volume 40, Issues 3-4, May 2014, Pages 367-378
Daniel G. Tracy, Susan F. Searino

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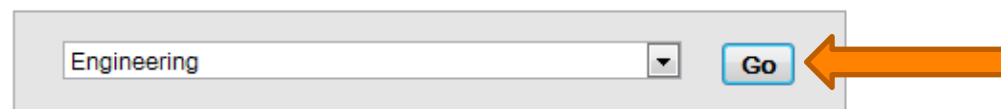
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<input type="checkbox"/> Automotive Engineering	Weekly	Latest results Archive/Details
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<input type="checkbox"/> Civil Engineering	Weekly	Latest results Archive/Details
<input type="checkbox"/> Computational Methods	Weekly	Latest results Archive/Details
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Journal of Archaeological Science, Volume 50, October 2014, Pages 359-368
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Although understanding the emergence of agriculture in West Africa has recently benefited from major advances, the reasons for its fast diffusion south of the Sahara remain to be explained. We propose here a reconstruction of African agriculture expansion built from a spatialization of available archaeological data and associated radiocarbon dates. With this approach, we can show that the initial spread of food production occurred with some specific rhythms. From this structure, we discuss the potential underlying processes. Our work suggests that the spread of agriculture in West Africa cannot be explained by a simple response to an abrupt environmental change at the beginning of the Late Holocene, but rather by a combined climate-culture mechanism. In addition, cord-wrapped roulette-impressed pottery appears to be a good indicator of the expansion of agro-pastoralist populations in Sub-Saharan regions. Our results are also consistent with the assumption of a monophyletic origin of domestic pearl millet in south-western Sahara and strengthen the idea that the first cultivators were Saharan pastoralists.

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Highlights

- We discuss agriculture expansion in West Africa from available spatio-temporal data.
- We map cumulative probability functions of calibrated radiocarbon dates.
- Cord-wrapped roulette decorated pottery is linked with the agriculture expansion.
- Mid-Late Holocene climate change led to an intensification of resources exploitation.
- Combined climate-culture process may explain the spread of agriculture after 2200 BC.



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 3. Methodology
 4. Results
 5. Discussion
 6. Conclusions
- Acknowledgements
Appendix A. Supplementary material
References

Figures and tables



- Table 1
- Table 2
- Table 3
- Table 4



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Volume 27, Issue 6, June 2012, Pages 1035–1052



Geochemical mapping using stream sediments in west-central Nigeria: Implications for environmental studies and mineral exploration in West Africa

Dan J. Lapworth^{a,*}, Katherine V. Knights^b, Roger M. Key^c, Christopher C. Johnson^b, Emmanuel Ayoola^d, Michael F. Askanmi^d, Tunde M. Arisekola^d, Olugbenga A. Okunola^e, Birgitta Backman^f, Mikael Eklund^f, Paul A. Everett^c, Robert T. Lister^b, John Ridgway^b, Michael J. Watts^b, Simon J. Kemp^b, Peter E.J. Pitfield^b

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 4. Results
 5. Discussion
 6. Conclusions
- Acknowledgements
Appendix A. Supplementary material
References

Figures and tables



- Table 1
- Table 2
- Table 3
- Table 4



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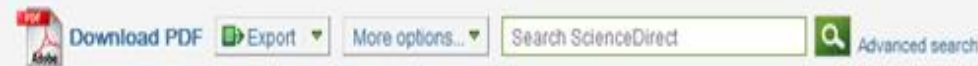
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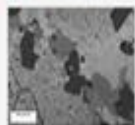


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 6. Results
 7. Metallographic analyses
 8. Discussion
 9. Conclusions
 Acknowledgements
 References

Figures and tables



Table 1



Analyses of magnetites from the Phalaborwa Complex (PC) and the Rooiwater Complex (RC). SARM1 is from Stoch (1978); PMC5, PMC9 and PMC12 are unpublished analyses from drill cores in the Transgressive Carbonatite member of the PC, reproduced by permission of the Palabora Mining Company; RW18 and RW19 are from the upper magnetite–ilmenite band of the RC, while RW27 and RW32 are from the lower band. RW2 is from the “magnetite lens” (all from Reynolds, 1986, Table 1). TB1 is an analysis by Killick of an archaeological sample of magnetite ore from the farm Broederstroomdrift 534LT, Tzaneen.

SAMPLE SiO₂ TiO₂ Al₂O₃ Cr₂O₃ Fe₂O₃ FeO MnO MgO CaO V₂O₅ H₂O⁺ H₂O⁻ TOTAL

Rooiwater magnetite–ilmenite ores

RW18	1.78	14.62	2.68	0.80	66.05	11.09	0.21	1.75	nd	1.41	nd	nd	99.24
RW19	2.92	14.93	2.34	1.19	61.82	14.00	0.18	0.86	nd	1.32	nd	nd	99.61
RW27	2.66	20.83	3.83	<0.05	48.37	22.5	0.32	1.68	nd	0.80	nd	nd	100.94
RW32	2.21	21.52	4.08	<0.05	52.00	17.06	0.27	2.34	nd	0.84	nd	nd	100.27
RW2	2.09	12.23	6.12	<0.05	55.11	22.97	0.19	1.78	nd	0.86	nd	nd	99.52
TB1	2.23	23.22	2.26	nd	40.08	26.71	0.33	2.37	0.01	0.99	0.96	0.08	99.24

Phalaborwa magnetite ores

SARM12	0.34	0.72	0.77	<0.01	95.28	nd	0.22	2.80	1.09	0.05	nd	nd	101.26
PMC5	0.34	0.76	0.75	<0.01	94.95	nd	nd	1.60	0.98	0.09	nd	nd	99.47
PMC9	0.31	1.43	0.41	<0.01	95.81	nd	nd	0.70	0.73	0.15	nd	nd	99.55
PMC12	0.49	2.66	0.47	<0.01	93.95	nd	nd	1.96	0.98	0.11	nd	nd	100.62

Table 1.

Analyses of magnetites from the Phalaborwa Complex (PC) and the Rooiwater Complex (RC). SARM1 is from Stoch (1978); PMC5, PMC9 and PMC12 are unpublished analyses from drill cores in the Transgressive Carbonatite member of the PC, reproduced by permission of the Palabora Mining Company; RW18 and RW19 are from the upper magnetite–ilmenite band of the RC, while RW27 and RW32 are from the lower band. RW2 is from the “magnetite lens” (all from Reynolds, 1986, Table 1). TB1 is an analysis by Killick of an archaeological sample of magnetite ore from the farm Broederstroomdrift 534LT, Tzaneen.

SAMPLE SiO₂ TiO₂ Al₂O₃ Cr₂O₃ Fe₂O₃ Fe

Rooiwater magnetite–ilmenite ores

RW18	1.78	14.62	2.68	0.80	66.05	11
RW19	2.92	14.93	2.34	1.19	61.82	14
RW27	2.66	20.83	3.83	<0.05	48.37	22
RW32	2.21	21.52	4.08	<0.05	52.00	17
RW2	2.09	12.23	6.12	<0.05	55.11	22
TB1	2.23	23.22	2.26	nd	40.08	26

Phalaborwa magnetite ores

SARM12	0.34	0.72	0.77	<0.01	95.28	nd
PMC5	0.34	0.76	0.75	<0.01	94.95	nd
PMC9	0.31	1.43	0.41	<0.01	95.81	nd
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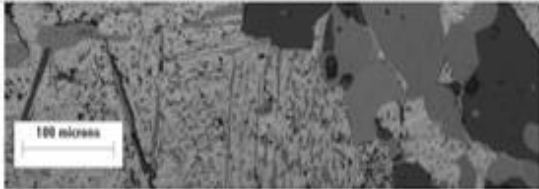


Fig. 2.
Polished section of sample KSME from the lower magnetite–ilmenite band of the Rooiwater Complex – reflected cross-polarized light (XPL) in air. Subhedral ilmenite crystals showing strong birefractance from medium to very dark grey are surrounded by heavily weathered magnetite (light grey) containing lamellae and irregular patches of ulvöspinel (medium grey, isotropic). The small black areas within the magnetite are pitting from sample preparation.

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3.3. The Phalaborwa Complex

The other two ore sources in the Lowveld are both carbonatite complexes. The Phalaborwa Complex is the eroded throat of a volcano that intruded through the Archaean granite 2.0 billion years ago (Hanekom et al., 1965, Palabora Mining Company Geological Staff, 1976, Verwoerd, 1986 and Verwoerd and du Toit, 2006). The cross-section shown in Fig. 3 represents the situation as open-pit mining began in 1965. Almost all of the section shown here was mined away by 2002, when the pit reached a depth of 800 m below the former summit of Lolwe Hill. The mine was then converted from an open-pit to a shaft mine, and is now more than

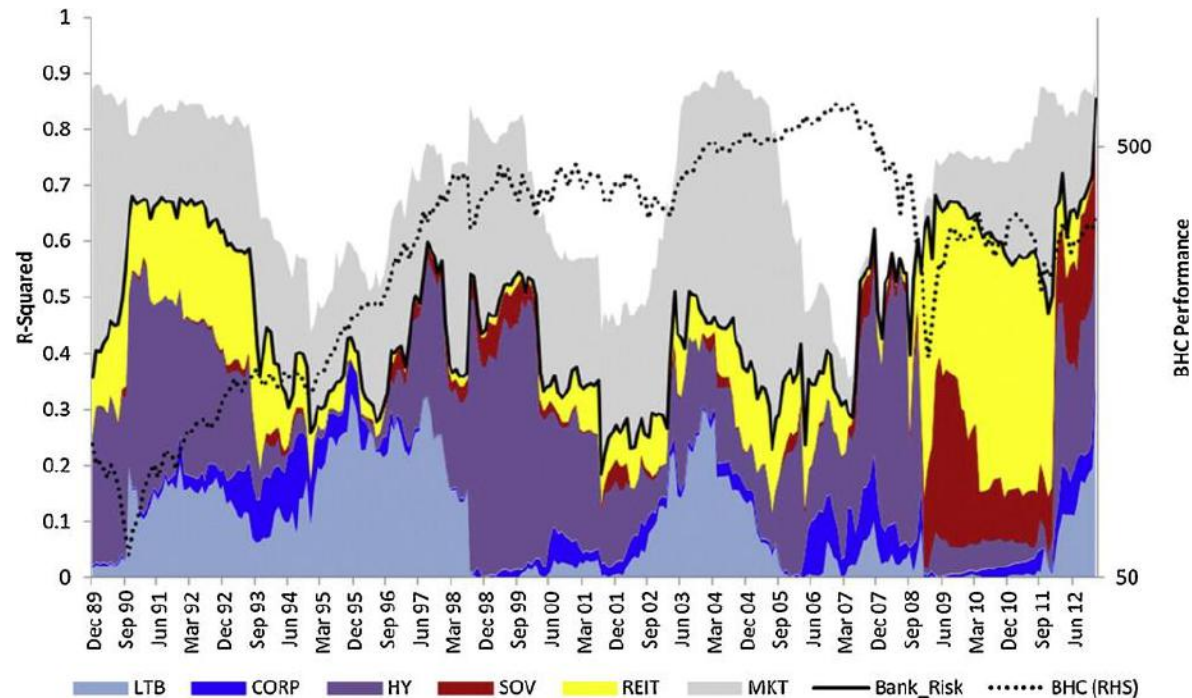


Fig. 3 Rolling variance decomposition for bank holding companies. This figure presents the rolling variance decomposition for the value-weighted bank portfolio with an estimation window of 36 months. The sum of the banking-industry risk factors' explanator...

Wolfgang Bessler , Philipp Kurmann , Tom Nohel

Time-varying systematic and idiosyncratic risk exposures of US bank holding companies

Journal of International Financial Markets, Institutions and Money, Volume 35, 2015, 45 - 68

<http://dx.doi.org/10.1016/j.intfin.2014.11.009>



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Acknowledgements

Appendix A. Supplementary material

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Figures and tables



Table 1

Table 2

Table 3

Table 4



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The image displays two sequential screenshots of a multidisciplinary database interface, illustrating how to expand a subject area into sub-categories.

Left Screenshot:

- Filter by subject:** A list of subject areas with checkboxes. An orange arrow points to the **Computer Science** checkbox, which is currently unchecked.
- Subject List:** A list of titles starting with 'A'. The title **Accounting Forum** is highlighted in purple.

Right Screenshot:

- Filter by subject:** The **Computer Science** checkbox is now checked, and an orange arrow points to the expanded list of sub-categories under it. Another orange arrow points to the **Business, Management and Accounting** sub-category, which is also checked.
- Subject List:** The list of titles is updated to reflect the selected sub-categories. The title **Accounting Forum** remains highlighted in purple.

The interface includes a search bar at the top, a 'Filter by subject' section on the left, and a list of titles on the right. The 'Apply' button is visible at the bottom right of the right screenshot.

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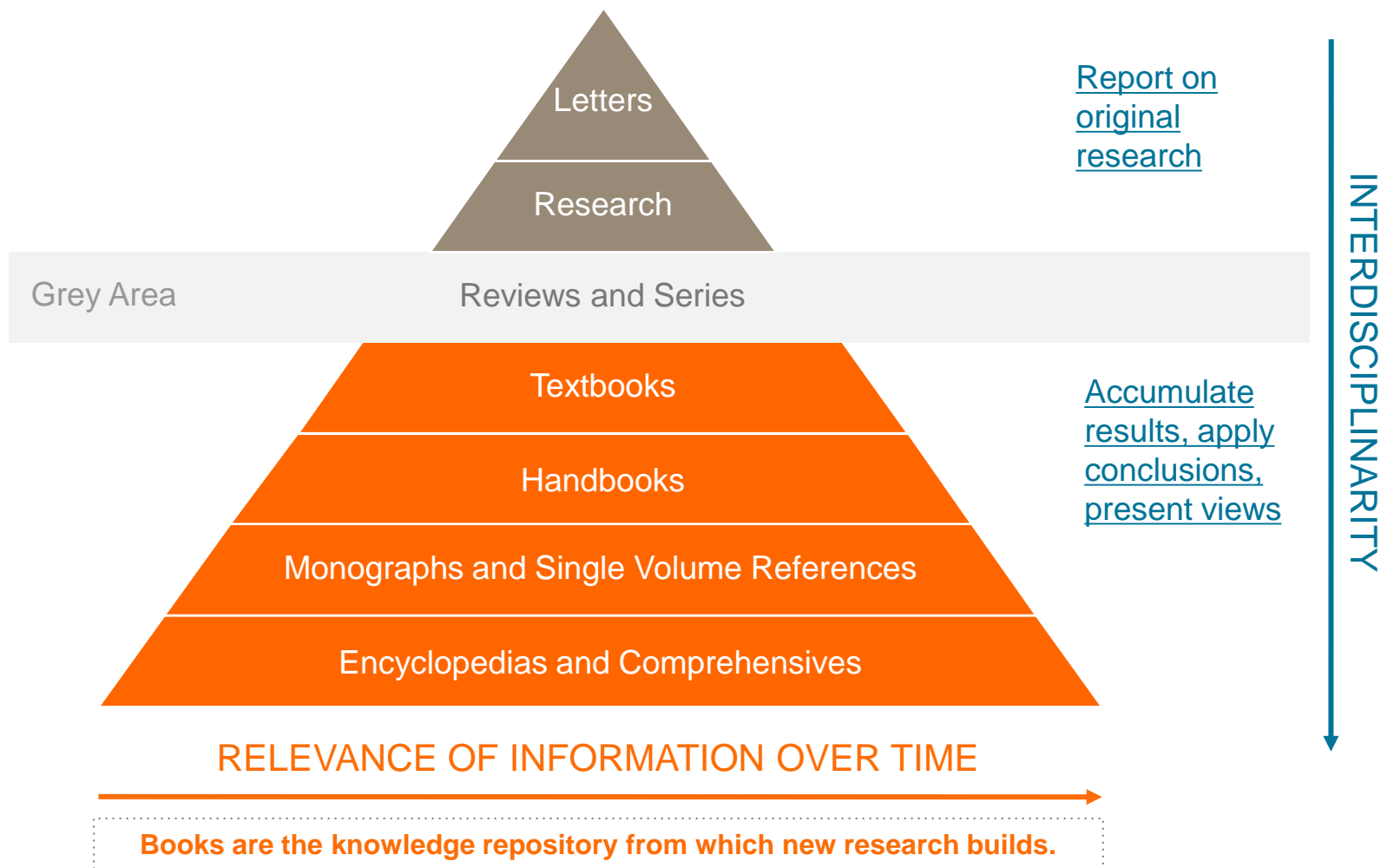
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