



# Electronic Resources in the Next Decade

## 電子資源的發展趨勢: 現況及預測

Presenter:

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# Web 3.0 / Library 3.0 / Five laws of library science

SciVerse

- 無處不聯網
- 網絡計算
- 開放技術
- 智慧網絡
- 分散式數據庫
- 智慧應用程式

## Library 3.0

- Books are for use
- Every reader his book
- Every book its reader
- Save the time of the reader
- Library is a growing organism

# Could you see the differences?



## Article 1976

Inorganica Chimica Acta, 30 (1976) 183-188  
 Elsevier Science B.V., Amsterdam - Printed in Netherlands

### The(VY) Complexes with 2-Methoxy-2'-Hydroxy Chalcones

N. S. BIRKADSEV  
 Department of Chemistry, Kovel University, Kovel 33000  
 N. S. BIRKADSEV  
 Department of Chemistry, Kovel University, Kovel 33000, Ukraine  
 Received February 18, 1976

**Abstract**  
 The(VY) complexes with 2-methoxy-2'-hydroxy-2'-methyl chalcone and 2-methoxy-2'-hydroxy-2'-ethyl chalcone have been prepared in benzene solution. The elemental analysis indicates Mn(II-Cl), antiferromagnetic behavior (in the liquid) (they appear to be non-magnetic in DMF). They are insoluble in most of the common organic solvents including the coordinated polymeric chain structures. The infrared spectral studies in the region 4000-200 cm<sup>-1</sup> suggest that the(VY) has coordination number six in these cases.

**Introduction**  
 In the previous paper we have reported the synthesis and spectral properties of a few substituted complexes with 2,2'-dihydroxy chalcones [1]. Now we have extended this study to the synthesis and spectral properties of the(VY) [2] and thioacet(VY) complexes [3].

In this present communication we report the synthesis and i.e. spectral study of the(VY) complexes with 2-methoxy-2'-hydroxy-2'-methyl and 2-methoxy-2'-hydroxy-2'-ethyl chalcones.



**Experimental**  
**Materials and Methods**  
 Chalcones I and II were prepared by the known method [4] using 1,400 g (4.00 moles), 1,400 g (4.00 moles) and 2-methoxyacetophenone.

**Preparation of Complexes**  
 Sublimed MnCl<sub>2</sub>·4H<sub>2</sub>O was of Riedel make and used as such for the complexation.

\* All measurements in this article.  
 † The values in parentheses are the calculated values.



## Article 2010

Inorganica Chimica Acta, 30 (2010) 183-188

Inorganica Chimica Acta  
 Journal homepage: www.elsevier.com/locate/ica

### Mechanism of the cobalt-catalyzed carbonylation of ethyl diazoacetate

Nevada Ungvár, Sándor Péterfi, Tamás Kirfi, Ferenc Ungváry\*  
 Department of Organic Chemistry, University of Debrecen, H-4002 Debrecen, Hungary

**Abstract**  
 Cobalt(II) ethyl diazoacetate (EDAC) is a promising carbonylation precursor for the synthesis of ethyl diazoacetate (EDA) in the presence of ethyl diazoacetate (EDA) as a cocatalyst. The mechanism of the carbonylation of EDA in the presence of EDAC is investigated. The results show that the carbonylation of EDA in the presence of EDAC is a two-step process. In the first step, EDAC reacts with EDA to form a cobalt(II) ethyl diazoacetate (EDAC-EDA) complex. In the second step, EDAC-EDA reacts with CO to form the final product, ethyl diazoacetate (EDA).

**1. Introduction**  
 Ethyl diazoacetate (EDA) is an effective carbonylation reagent for the synthesis of ethyl diazoacetate (EDA) in the presence of ethyl diazoacetate (EDA) as a cocatalyst. The mechanism of the carbonylation of EDA in the presence of EDAC is investigated. The results show that the carbonylation of EDA in the presence of EDAC is a two-step process. In the first step, EDAC reacts with EDA to form a cobalt(II) ethyl diazoacetate (EDAC-EDA) complex. In the second step, EDAC-EDA reacts with CO to form the final product, ethyl diazoacetate (EDA).




# Technology is different...



## HTML 2010



## PDF 2010

Technology is different...

User Behavior is different ...



“I travel extensively and this would be a way to keep a library of things to reach at my finger tips”  
Researcher

# And then, how about next decade?



What do we deliver



Print Reports



Editable Reports



Dedicated data server/APIs for large scale projects



Tailored publication data deliveries

For Whom



Research Manager



Research Admin



Government

Data sources



SD / Scopus / Others



Usage data

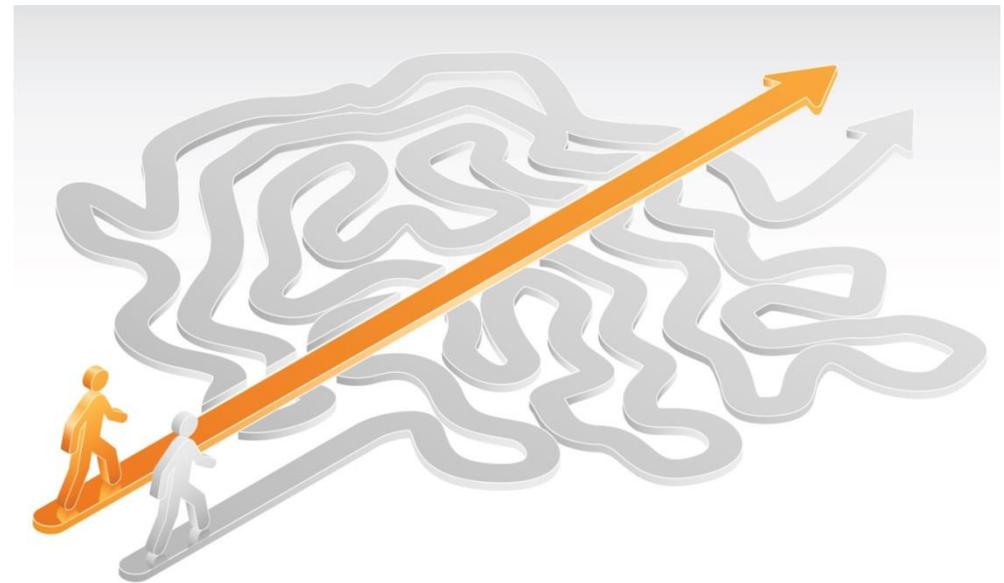


Customer's own data

# Possible Solutions



- Content Presentation
- Content Format
- Context Add-on
- Applications
- Others



將文獻, 或是解決方案, 甚至是問題的解答  
快速送達給研究人員將是主要的課題.

# For Better Discovery, Presentation might change...



## Clear and Intuition

PDF (37 pages) E-mail Export More Display mode

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[Take our survey](#)

Outline  Show thumbnails [Article top](#)

Abstract



1. Vibrancy of the field of leadership—looking backward
2. Journal reputation of LQ
  - Table 1
  - Table 2
3. Content analysis of LQ publications: 2000–2009
  - Table 3



The Leadership Quarterly

Volume 21, Issue 6, December 2010, Pages 922-958



### Scholarly leadership of the study of leadership: A review of The Leadership Quarterly's second decade, 2000–2009

William L. Gardner <sup>a,□</sup>, Kevin B. Lowe <sup>b</sup>, Todd W. Moss <sup>a</sup>, Kevin T. Mahoney <sup>c</sup>, Claudia C. Coglisier <sup>a</sup>

<sup>□</sup> Corresponding author. Institute for Leadership Research, Rawls College of Business, 15th & Flint, Texas Tech University, Lubbock, TX 79409, United States. Tel.: +1 806 742 1055; fax: +1 806 742 2308.

<sup>a</sup> Texas Tech University, United States

<sup>b</sup> University of North Carolina-Greensboro, United States

<sup>c</sup> Louisiana Tech University, United States

#### Research highlights

- 353 articles published in the Leadership Quarterly (LQ) in its second decade were analyzed using multiple methods:
  - Impact factor analysis indicates that LQ is comparable in impact to other high quality international business, management and psychology journals. 36 of the top 50 most cited articles were published in the 2000's.
  - The proportion of articles that reflect new directions in leadership theory rose from 14% during the journal's first decade, to 44% in its second decade.

Sidebar content: Overview

Browse individual items

Access to ScienceDirect provided by:



**Your Library**

Explore

- Related articles
- Your applications (3)

Sponsored links



**The Art of Leadership**  
Self Direction  
Saturday, February 12, 2011

**Additional article content and features**

- Article information
- Journal information
- Author information (5)

# For Better Discovery, Content Format might change...

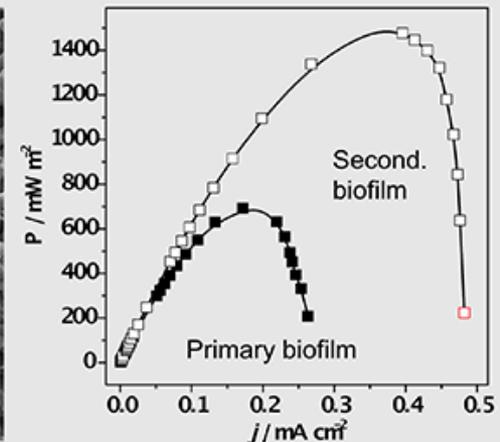
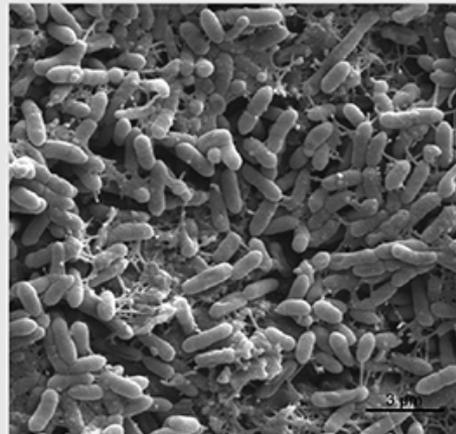


## Research Highlights

consist of a short collection of bullet points that convey the core findings of the article.

### Research highlights

- Electroactive biofilms can be directly evolved from natural inoculums such as wastewater, but their original electrocatalytic performance is limited;
- The catalytic performance of the primary electroactive biofilms can be improved by a simple procedure;
- In this procedure primary electroactive biofilms are used as inoculum for the formation of secondary biofilms.
- The performance increase from primary to secondary biofilms was found to be up to 100%.





# For Better Discovery, Content Format might change...

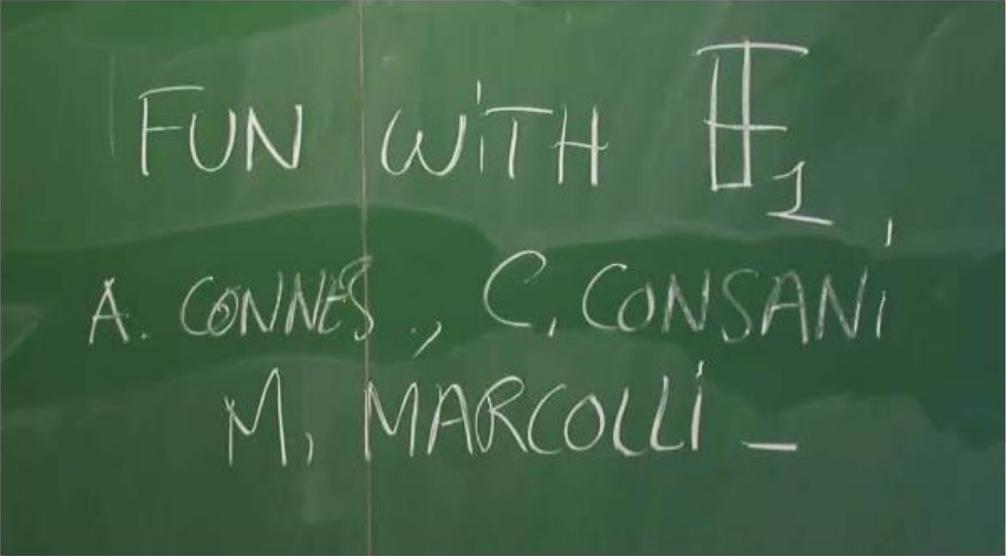


## Video Abstracts

In a short Video Abstract (of maximum 5 minutes), authors present main findings of their research in an informal manner.

Research highlights Abstract **Video abstract**

Video abstract



FUN WITH  $\mathbb{F}_1$   
A. CONNES, C. CONSANI  
M. MARCOLLI -

Video is also available at [http://www.youtube.com/watch?v=az\\_0pxm1jrlE](http://www.youtube.com/watch?v=az_0pxm1jrlE).

# For Better Discovery, Content Format might change...



## Google Maps

provide interactive access to the supplementary geospatial data and are usually hidden behind the original black and white figure.

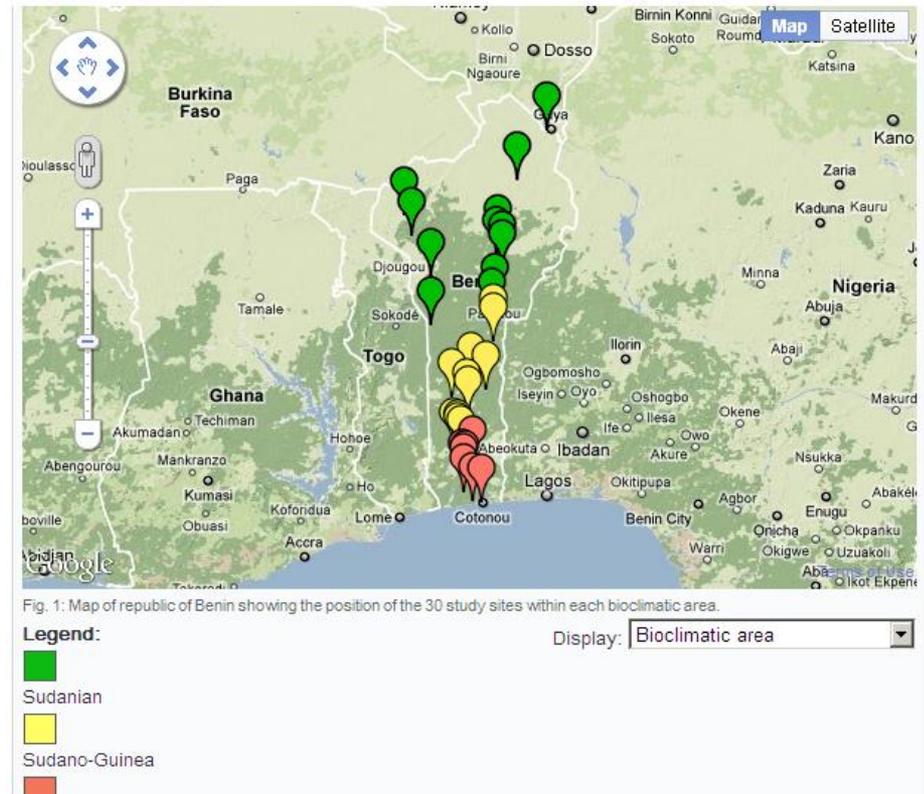


Fig. 1: Map of republic of Benin showing the position of the 30 study sites within each bioclimatic area.

# For Better Discovery, Content Format might change...



## Movies

are supplementary video material or computer graphics animations integrated as part of the article. Computer graphics animations are normally hidden behind the original article figure.

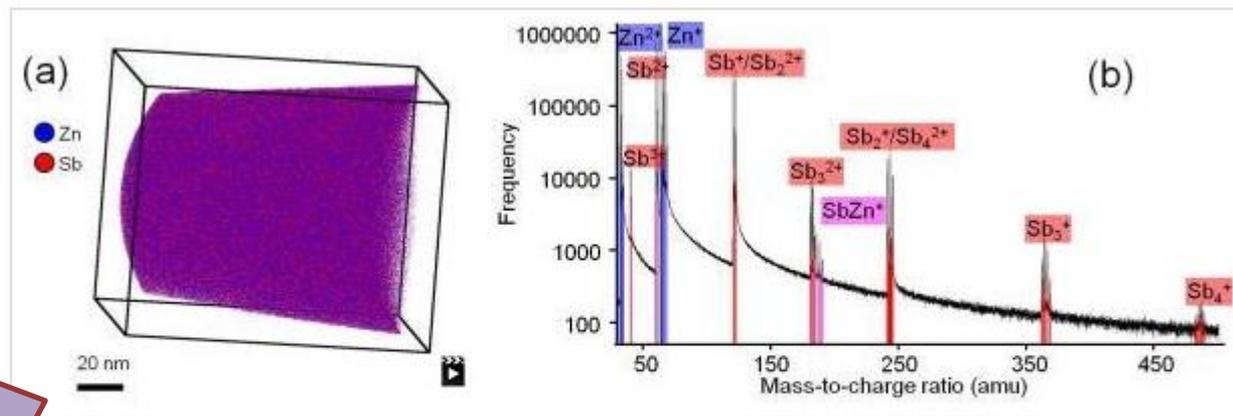
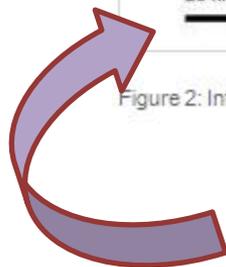


Figure 2: Intragranular atom probe microanalysis: (a) 3-D atom distribution and (b) mass spectrum.



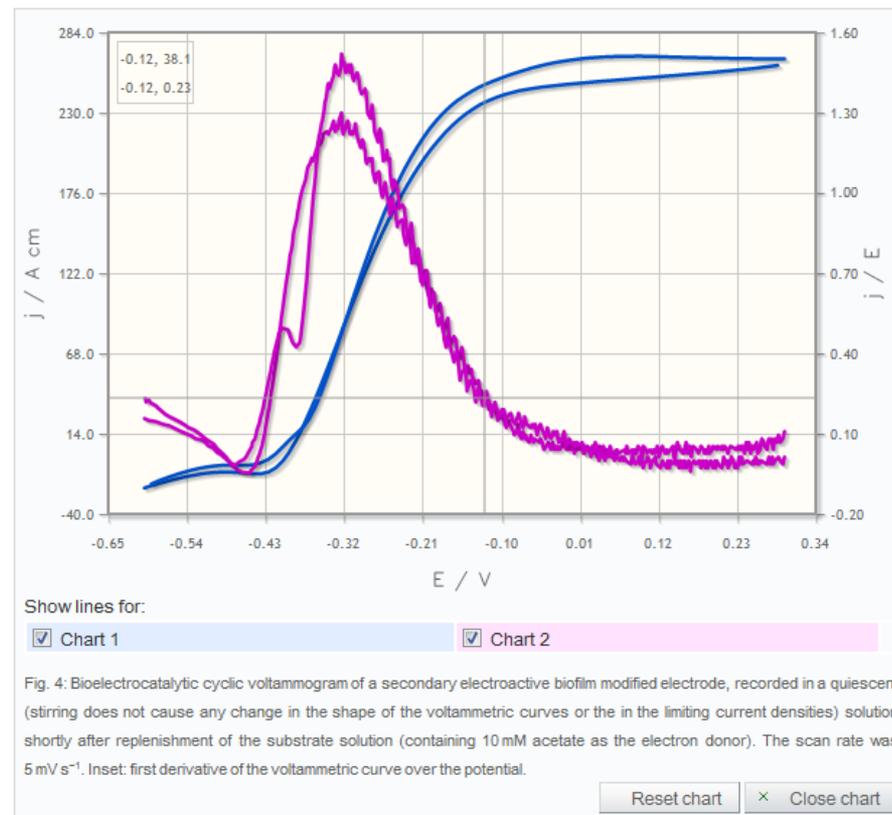
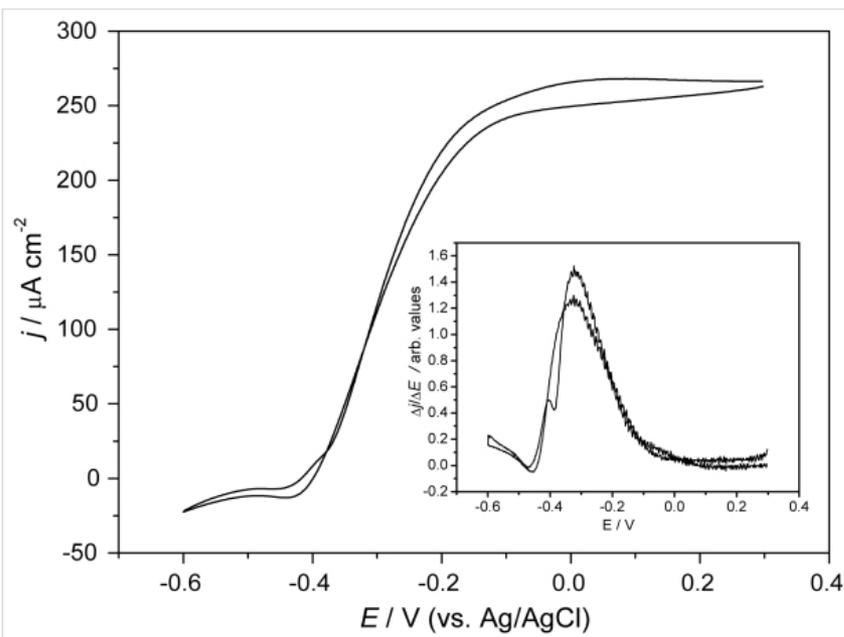
Figure 2: Intragranular atom probe microanalysis: (a) 3-D atom distribution and (b) mass spectrum. (c) Statistical distribution with a block size of 250 atoms; the dashed line corresponds to the binomial distribution expected for a perfect random solid solution. (d) five nanometer slice taken through the tomographic reconstruction shown in (a), parallel to the analysis axis, in which red dots correspond to Sb atomic and molecular ions. A blue isoconcentration. (For interpretation of the references to colour in this figure legend, the reader is referred to the web version of this article.)

# For Better Discovery, Content Format might change...



## Interactive Tools

allow quick and intuitive access to the underlying data, and are usually hidden behind the original black and white figure.



# For Better Discovery, Context might be add-on...



## Article Information

displays the bibliographic information, article history and keywords associated with the article. It also lists all additional information available for the article, such as interactive charts, maps, etc.

A screenshot of a journal article page from Palaeogeography, Palaeoclimatology, Palaeoecology. The article title is "Abrupt environmental and climatic changes of the Early Permian Haushi limestone, Oman". The authors listed are M.H. Stephenson, L. Angiolini, M.J. Leng, T.S. Brewer, V. Verna, and B. Al Beloushi. A sidebar on the right, titled "Article information", provides details such as the journal name, volume (270), issues (1-2), date (1 December 2008), pages (1-18), DOI (10.1016/j.palaeo.2008.08.008), and copyright (2008). It also includes an "Article history" section with dates for receipt (2008-1-15), revision (2008-7-4), and acceptance (2008-8-9), and a "Keywords" section listing Permian, Haushi limestone, Oman, Tethys, and Palaeontology. An "Article extras" section lists an interactive graph (Fig. 6) and an interactive map (Fig. 2a). The main article text includes a "Research highlights" section with three bullet points: 1) The paper traces the geologically short life of a small cratonic plate during the Early Permian. 2) Three subsurface cored boreholes and surface sections of the microfacies indicating warming, and more oligotrophic conditions. 3) Pollen assemblages and increasing seawater trends in  $\delta^{18}\text{O}$  indicate that the climate of the hinterland became more arid.

# For Better Discovery, Context might be add-on...



## Author Information

Information on each of the authors can be displayed in the right sidebar. Clicking on the name of an author will display this information.

A screenshot of a journal article page from Scripta Materialia. The article title is "High-resolution nanostructural investigation...". The authors listed are Baptiste Gault, Emmanuelle A. Marquis, David W. Saxey, Mangelinck, Eric S. Toberer, and G. Jeff Snyder. A sidebar on the right is open, showing the "Author information (7)" for Baptiste Gault. The sidebar includes a profile picture of Baptiste Gault, his name, and a list of roles and contact information: "Corresponding author", email addresses "baptiste.gault@materials.ox.ac.uk" and "baptiste.gault@sydney.edu.au", "Author homepage", and "Department of Materials, University of Oxford, Parks Road, Oxford OX13PH, UK". It also notes "Information last updated: Oct. 2010". Below this, a partial view of another author's information is visible, including a profile picture of a woman.

Scripta Materialia  
Volume 63, Issue 7, October 2010, Pages

### High-resolution nanostructural investigation

Baptiste Gault <sup>a</sup>, Emmanuelle A. Marquis <sup>a</sup>, David W. Saxey <sup>a</sup>, Mangelinck <sup>b</sup>, Eric S. Toberer <sup>c</sup>, G. Jeff Snyder <sup>c</sup>

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<sup>a</sup> Department of Materials, University of Oxford, Parks Road, Oxford OX13PH, UK  
<sup>b</sup> IM2NP, CNRS, Aix Marseille Université, Case 142, Faculté de Saint Jérôme, 13413 Marseille Cedex 08, France  
<sup>c</sup> California Institute of Technology, Pasadena, CA, USA

#### Research highlights

- Investigation of the microstructure by HRSEM of nanocrystalline alloys of different composition
- Within a single grain, significant variations of the Zn concentration of a random solid solution
- Sb segregates at grain boundaries, that also appear to be surrounded by Zn
- Correlation of SEM and atom probe tomography enabled to initiate a structure-property relationship in Zn<sub>2</sub>Sb<sub>3</sub> alloys

Sidebar content: Author information (7)

**Baptiste Gault**

- Corresponding author
- [baptiste.gault@materials.ox.ac.uk](mailto:baptiste.gault@materials.ox.ac.uk)
- [baptiste.gault@sydney.edu.au](mailto:baptiste.gault@sydney.edu.au)
- [Author homepage](#)
- Department of Materials, University of Oxford, Parks Road, Oxford OX13PH, UK

Information last updated: Oct. 2010

# For Better Discovery, Context might be add-on...



## Compound Information

To help readers easily find more information on certain chemical compounds mentioned in the text, the right sidebar can provide them with relevant details and links.

Biosensors and Bioelectrochemistry  
Volume 24, Issue 1, December 2008, Pages 1-10

### Improvement of the anodic bioelectrocatalytic culture biofilms by a simple consecutive selection procedure

Ying Liu <sup>a</sup>, Falk Harnisch <sup>a</sup>, Katja Fricke <sup>a</sup>, Rabea Sietmann <sup>b</sup>, Uwe Schwenning <sup>a</sup>

<sup>a</sup> Corresponding author. Tel.: +49 3834 864330; fax: +49 3834 864451.  
<sup>a</sup> Institute of Biochemistry, University of Greifswald, Felix-Hausdorff-Strasse 4, 17475 Greifswald, Germany  
<sup>b</sup> Institute of Microbiology, University of Greifswald, Friedrich-Ludwig-Jahn-Strasse 1, 17475 Greifswald, Germany

Research highlights

- Electroactive biofilms can be directly evolved from natural inocula, but their original electrocatalytic performance is limited;
- The catalytic performance of the primary electroactive biofilms can be improved by a simple consecutive selection procedure;
- In this procedure primary electroactive biofilms are used as inocula for secondary biofilms.
- The performance increase from primary to secondary biofilms is significant.

1400-

Sidebar content: Compound information (9)

previous 1 of 9 (view all) next

[View in article](#)

Acetate

**Reaxys Registry Number**  
1901470

**Molecular Formula**  
C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>

**CAS Registry Number**  
71-50-1, 2887-46-9, 72063-59-3, 84148-57-2

**Linear Structure Formula**  
CH<sub>3</sub>C(O)O<sup>(1-)</sup>

**Chemical Name**  
acetate, acetate anion, acetate ion, acetate, acetic acid, deprotonated form, anhydrous acetate, (1S,3R)-acetate

# For Better Discovery, Context might be add-on...

SciVerse



## Supervised ranking in the weka environment

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<sup>a</sup> Department of Applied Mathematics and Computer Science, Ghent University, Krijgslaan 281 S9, B-9000 Gent, Belgium

<sup>b</sup> Department of Applied Mathematics, Biometrics and Process Control, Ghent University, Coupure links 653, B-9000 Gent, Belgium

### Research highlights

- The supervised ranking problem has its own – very important – distinct characteristics. In this article, we focus on differences with regard to the traditional classification problem.
- We have given four propositions that all provide solutions to the supervised ranking problem (for more information, we refer to [14, 15, 16]).
- A software implementation of proposed solutions can be used inside the [WEKA environment](#).
- We have shown how to get started using this software, and we have given snapshots of WEKA outputs that show that indeed the implementation fits into the framework.

### Abstract

Software for solving the supervised ranking problem is presented. Four variants of the Ordinal Stochastic Dominance Learner (OSDL) are given, together with the space and time complexity of their implementations. It is shown that the described software, which includes two further algorithms for supervised ranking, fits completely into the weka environment.

A screenshot of the SciVerse sidebar content for the 'Car Evaluation Database'. The sidebar is titled 'Data repository (1)' and shows navigation buttons for 'previous' and 'next'. It includes a 'View in article' link and an 'Options' dropdown menu. The main content of the sidebar lists the following details for the 'Car Evaluation Database':

- URL:** <http://archive.ics.uci.edu/ml/datasets/Car%20Evaluation>
- Abstract:** Derived from simple hierarchical decision model, this database may be useful for testing constructive induction and structure discovery methods.
- Data Set Characteristics:** Multivariate
- Attribute Characteristics:** Categorical
- Associated Tasks:** Classification
- Number of Instances:** 1782
- Number of Attributes:** 6
- Missing Values:** No
- Date Donated:** 1997-06-01
- Creator:** Marko Bohanec
- Donors:** Marko Bohanec, Blaz Zupan

At the bottom of the sidebar, there is a logo for the 'UCI UC Irvine Machine Learning Repository' with the URL <http://archive.ics.uci.edu/ml/> and navigation buttons for 'previous' and 'next'.

## Data Repositories and Evaluation Datasets

This functionality aims to help researchers to validate and compare their models and algorithms using the same evaluation data.

# For Better Discovery, Context might be add-on...



Scripta Materialia  
Volume 63, Issue 7, October 2010, Pages 784-787



## High-resolution nanostructural investigation of Zn<sub>4</sub>Sb<sub>3</sub> alloys

Baptiste Gault <sup>a</sup>, Emmanuelle A. Marquis <sup>a</sup>, David W. Saxey <sup>a</sup>, Gareth M. Hughes <sup>a</sup>, Dominique Mangelinck <sup>b</sup>, Eric S. Toberer <sup>c</sup>, G. Jeff Snyder <sup>c</sup>

<sup>a</sup> Corresponding author.

<sup>a</sup> Department of Materials, University of Oxford, Parks Road, Oxford OX13PH, UK

<sup>b</sup> IM2NP, CNRS, Aix Marseille Université, Case 142, Faculté de Saint Jérôme, 13397 Marseille Cedex 20, France

<sup>c</sup> California Institute of Technology, Pasadena, CA, USA

### Research highlights

- Investigation of the microstructure by HRSEM of nanocrystalline zinc antimonides revealed grains of different composition
- Within a single grain, significant variations of the Zn concentration were observed, beyond those of a random solid solution

## Experimental Flowcharts

This feature offers a place where experiments described in the article can be explained in a more detail, including a brief explanation of the experiment goals, a step by step description of how the experiment was conducted, as well as its main results.

Sidebar content: Experimental flowcharts (3)

Experiment 2

**Investigate the internal microstructure of the grains**

[View in article](#)

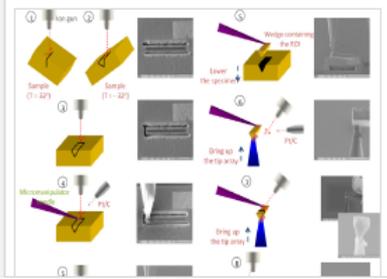
**Goal**

To investigate the internal microstructure of the grains in the sample Atom probe data was collected.

**Specimen preparation**

Material: A 1 cm diameter cylinder of bulk nanocrystalline ZnSb was mechanically polished using successively sand paper and diamond films of decreasing roughness. (Similar to [experiment 1](#) and [experiment 3](#)).

Method: An in-situ lift out was performed using the methodology proposed by Thompson et al. (see reference 17) and is described below (equipment details). (Similar to [experiment 3](#)).



The flowchart diagram illustrates the experimental process for investigating the internal microstructure of grains. It is divided into two main sections: 'Sample (Ti-42)' and 'Microanalysis'. The 'Sample (Ti-42)' section shows steps for 'Sample preparation' (mechanical polishing) and 'Wedge containing the specimen'. The 'Microanalysis' section shows steps for 'Lift out the specimen', 'Bring up the tip only!', and 'Bring up the tip only!'. The diagram includes images of the sample, the lift-out process, and the resulting microstructure.

# For Better Discovery, Context might be add-on...



## Fossil/Brachiopod Photo Collections

If fossil/brachiopod photos are not included in the original article (e.g., due to the space limitations or were published earlier), those additional images can be provided in the right sidebar.

## 3D Fossil Reconstructions

Currently only 5% of Paleontology related articles deal with 3D content. However, if available, those 3D reconstructions are seen as extremely useful: (a) for teaching, and (b) for archiving fossil data.

This screenshot shows a web interface for a fossil photo collection. At the top, the sidebar content is titled "Fossil taxa (11)". Below this are navigation buttons for "previous" and "next", and a page indicator "6 of 11 (view all)". There are also buttons for "View in article" and "Options". The main content area is titled "Derbya haroubi" and includes a link to "View the brachiopod photo collection" and a note about "relevant information from PaleoDB". A section titled "Photo collection" states "Full collection available at:" followed by a DOI: "doi:10.1111/1365-3113.12199-4". Below this are two images of fossil brachiopod shells. The top image is a ventral valve, labeled "Ventral valve, holotype". The bottom image is another view of a fossil shell.

This screenshot shows a web interface for a 3D model of a Doushantuo Embryo model. The sidebar content is titled "Doushantuo Embryo model". Below this is the text "Experiment carried on: 2 March, 2007" and "Segmentation work: Paul Tafforeau". The main content area features a grid of six grayscale images of a fossil embryo, arranged in two rows of three. Below the grid are several interactive options: "View full-size image", "Download full-size image", "View full-size stereo image", "Download full-size stereo image", and "3D model (requires Java)". Below the grid is a larger image of a 3D model of the embryo, which is a spherical, textured object with a small circular feature on its surface.



# For Better Discovery, Context might be add-on...

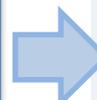


## Paleobiology Database

The Paleobiology Database (PaleoDB) is a public resource that provides access to collection-based occurrence and taxonomic data for marine and terrestrial animals and plants of any geological age, as well as web-based software for statistical analysis of the data. The relevant information obtained from PaleoDB can be displayed in the right sidebar, e.g. for the fossil taxa and lithographic units.

## Protein/Gene Information

To help readers easily find more information on certain proteins (or genes) mentioned in the text, the right sidebar can provide them with relevant details and links.



Sidebar content: **Proteins (54)**

Browse individual items

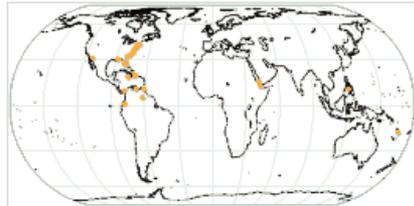
- 14-3-3 protein
- Glutathione S-transferase class-mu 26 kDa isozyme
- Glutathione-S-transferase (28 kDa)
- Thioredoxin peroxidase-1
- Elongation factor 1-a
- Cytochrome b5 reductase 1
- Ubiquitin/40S ribosomal protein S27a
- Vacuolar proton atpases isoform 3
- Enolase
- Beta-actin
- Actin
- Tubulin, Beta family member (tbb-4)
- ADP,ATP carrier protein 3
- Heat shock protein 70
- 90 kDa heat shock protein
- Heat shock 70 kDa protein cognate 1
- Heat shock protein 70 isoform 5
- Annexin A13 isoform a
- Glyceraldehyde-3-phosphate dehydrogenase
- SNaK1
- 22.6kd tegumental associated antigen

Sidebar content: **Fossil taxa (3)**

Nassarius obsoleta

**PaleoDB information**

Please note that this is additional information retrieved from the Paleobiology Database, which is not part of the original article. Date of retrieval: 20 January 2011.



In total 4 collections found in PaleoDB [PaleoDB](#)

**Age range:** [Ediacaran](#) or 1000.0 to 542.0 Ma (2 records displayed below)

**Time interval:** [Early Miocene](#)

**Ma:** 23.03 - 15.97

**Country/state:** [Dominican Republic](#)

**Original ID and collection number:** [Nassarius sp. \( 74958 74959 74962 \)](#)

**Time interval:** [Late Miocene](#)

**Ma:** 11.61 - 5.33

**Country/state:** [Ecuador \(Esmeraldas\)](#)

**Original ID and collection number:** [Nassarius mcmakini \( 41764 \)](#)



# For Better Discovery, Context might be add-on...



## Psychology Flowcharts

This functionality provides a graphical overview of an experimental procedure displayed in the right sidebar. It is also possible to select and compare several flowcharts by opening them in a new window.

Cognitive Psychology  
Volume 60, Issue 4, June 2010, Pages 291-318

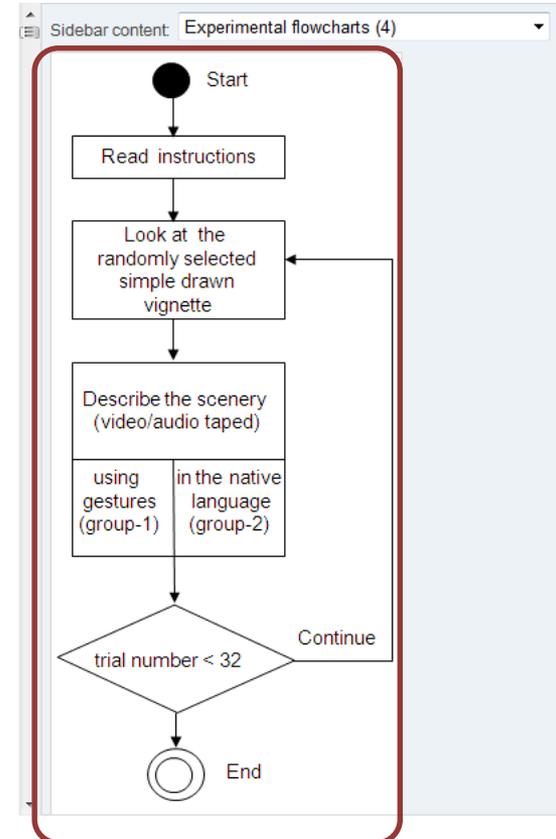
**Cognitive systems struggling for word order**  
Alan Langus <sup>a</sup>, Marina Nespor <sup>b,c</sup>

<sup>a</sup> Corresponding author. Address: University of Milano-Bicocca, Piazza dell'Ateneo Nuovo 1, 20126 Milan, Italy. Fax: +39 040 3787 615.  
<sup>b</sup> International School of Advanced Studies-SISSA, Via Beirut 2-4, 34014 Trieste, Italy  
<sup>c</sup> University of Milano-Bicocca, Piazza dell'Ateneo Nuovo 1, 20126 Milan, Italy  
<sup>d</sup> Interdisciplinary Center B. Segre, Accademia dei Lincei, Italy

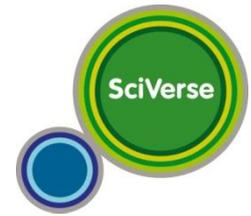
Research highlights

- Gesture production and comprehension show a preference for a single, possibly non-native and non-syntactic word order.
- Improvised gestural communication does not rely on the computational system of grammar (syntax).
- Speech comprehension experiment demonstrates specific word order preferences in the computational system of grammar (syntax).
- The preferences for conflicting word orders in communication and language illustrate a struggle between individual cognitive systems trying to impose their preferred structure on human language.
- The results suggest that human language is the product of evolutionary tinkering.

(a) Italians (SVVO)



# For Better Discovery, Context might be add-on...



## Software Environments & Algorithm Implementations

This functionality provides the reader with the links to open source software environments, as well as with a quick access to the underlying code referred to in the article.

## Time Scale Information

Names of the time periods mentioned in the text can be linked to the time scale information (e.g., obtained from the International Commission on Stratigraphy).



Sidebar content: Software environment (1)

previous 1 of 1 (view all) next

View in article Options



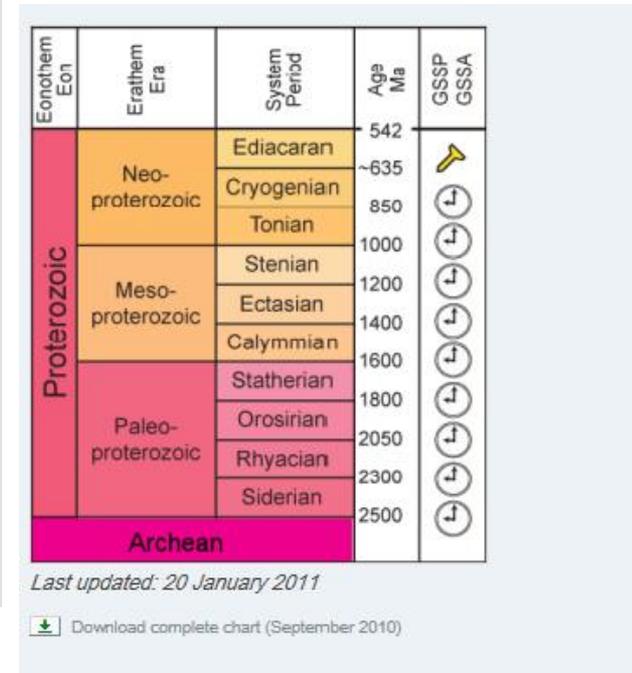
Weka 3: Data Mining Software in Java  
<http://www.cs.waikato.ac.nz/ml/weka/>

Weka is a collection of machine learning algorithms for data mining tasks. The algorithms can either be applied directly to a dataset or called from your own Java code. Weka contains tools for data pre-processing, classification, regression, clustering, association rules, and visualization. It is also well-suited for developing new machine learning schemes.

Download ODSL algorithm source code (Weka 3.6.0)

Weka is open source software issued under the GNU General Public License

previous 1 of 1 (view all) next



# Can we do more?



15 MILLION RESEARCHERS



Ideation

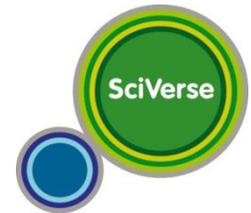


Developer Hacks



ELSEVIER

# Collaborate / Search / Manage / Analyze



Collaborate



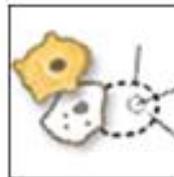
Search



Manage



Analyze

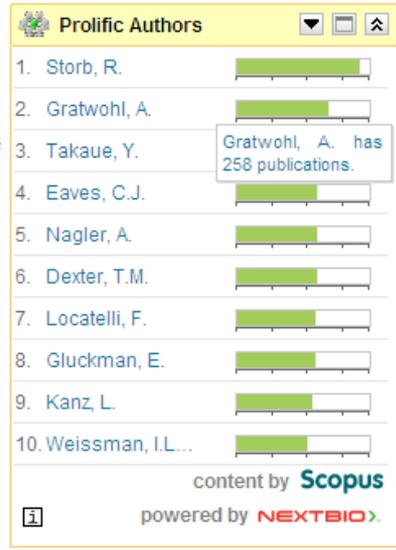


# Collaborate

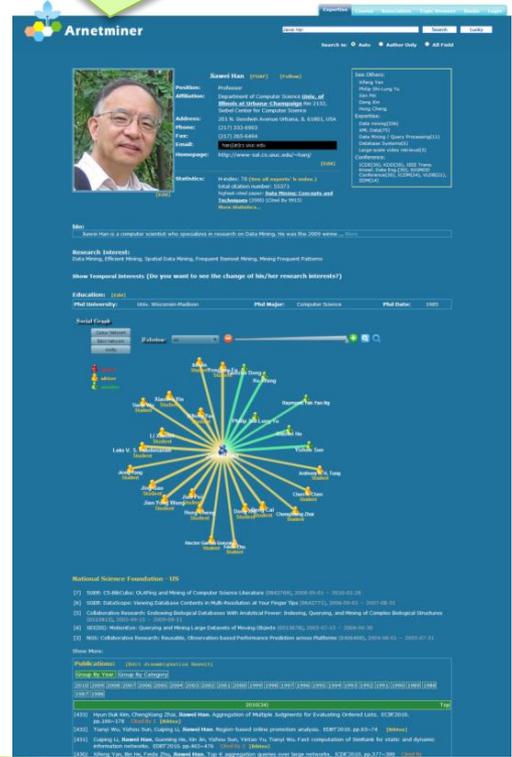


**Prolific Authors** app is to identify the authors who have published the most for a particular search term.

**Co-Author Network** is to provide a visual representation of the co-author network of the most prolific authors for a particular search term.



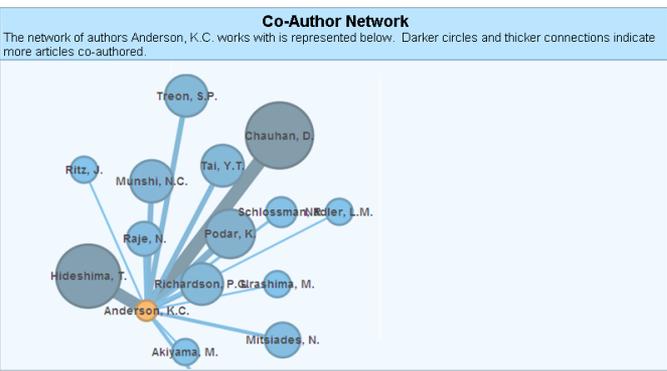
**Expert Profile** is to identify experts in Computer Science based on the user's query. This application uses data from DBLP (Digital Bibliography & Library Project) and is based on the Arnetminer.org application developed by Jie Tang.



## Anderson, K.C.

The list below shows the authors Anderson, K.C. has co-published articles or books with. Click through to Scopus to see the articles or books. Use the visual network of Anderson, K.C. to discover other authors of interest.

Co-Author	Co-authored documents
Chauhan, D.	83
Hideshima, T.	76
Podar, K.	45
Richardson, P.G.	33
Munshi, N.C.	34
Tai, Y.T.	33
Treon, S.P.	33
Mitsiades, C.	21
Mitsiades, N.	23
Raje, N.	22
Schlossman, R.	17
Urashima, M.	13
Nadler, L.M.	13
Ritz, J.	13
Akiyama, M.	13



# Search



Through the Matching Sentences application, researchers will see search terms embedded in their original, complete sentences in the results – providing context, and allowing them to quickly determine which articles are relevant to their research.

MostCited/MostRead Application allow users to see the most downloaded/most cited articles that match their search terms.

Search Translator is to allow a user to enter a search query in his/her native language (e.g. Chinese) and retrieve relevant results in English.

**Matching Sentences**

For your query **stem cells** we have matched

**2286** sentences      **624** paragraphs

Results are based on top documents that match your query **stem cells** found in ScienceDirect. Would you like to see the complete sentences?  
[View Results](#)

powered by **NEXTBIO**

**Search Translator**

Please select a non-English language to translate:

Please type your search query in the chosen language:

Clicking submit will perform a search of the query, translated into English, in the Hub.

**MostCited/MostRead**

2. Report of the Expert Committee on the Diagnosis and Classification of Diabetes Mellitus (4697)
3. Floral dip: A simplified method for Agrobacterium-mediated transformation of Arabidopsis thaliana (4112)
4. Embryonic stem cell lines derived from human blastocysts (3914)
5. MicroRNAs: Genomics, Biogenesis, Mechanism, and Function (3693)
6. Isolation of putative progenitor endothelial cells for angiogenesis (3251)
7. Immunobiology of dendritic cells (3178)
8. Angiogenesis in cancer and other diseases (2970)
9. Gold Nanoparticles: Assembly, Supramolecular Chemistry, Quantum-Size-Related Properties, and Applications Toward Biology, Catalysis, and Nanotechnology (2922)

# Manage



Share articles to Facebook, Twitter or CiteULike with one click

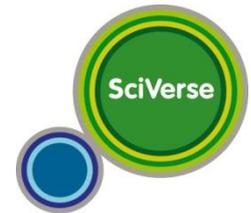


eReader Formats Application is to enable users to save a full-text article or abstract from ScienceDirect in an alternative electronic reflowable format that can be used on eReader devices such as the Nook (Barnes & Nobles), Kindle (Amazon), Reader (Sony), iPad (Apple) and others.



Table Downloads Application is to provide a convenient way for a user to download tables that are provided via HTML in a full text article. As users sometimes copy table information into a spreadsheet manually, this feature would be helpful in fulfilling a tedious task that is part of some of our users' workflow.

# Analyze



**Altmetric** continuously tracks hundreds of thousands of links to scholarly articles on Twitter, Google+, Facebook, the scientific blogosphere, newspapers and magazines then matches that data to the search results or full text articles that you are viewing on SciVerse.



Twitter (3) Blogs (1) Activity map

### High-resolution U–Pb ages from the Upper Triassic Chinle Formation (New Mexico) and a diachronous rise of dinosaurs

**alexwitze** Alexandra Witze  
New dates from NM rock formation suggest North American dinosaurs were rarer than South American ones some 218 mya <http://t.co/ShuAfVs>  
15 Aug

**haliteconetsy** Prairie Evaporites  
RT @clasticdetritus: @Laelaps speaking of Triassic dinos, new paper concludes that dinosauromorphs coexisted w/ dinos for at least 18 Myr <http://bit.ly/nJESxV>  
14 Aug

**clasticdetritus** Brian Romans  
@Laelaps speaking of Triassic dinos, new paper concludes that dinosauromorphs coexisted w/ dinos for at least 18 Myr <http://bit.ly/nJESxV>  
14 Aug

ABOUT ALEXWITZE  
see post on Twitter | check Klout  
Contributing editor, Science News.

ABOUT HALITEONETSY  
see post on Twitter | check Klout (10.37)  
This is my Twitter profile for my Etsy shop - Haite! I write captions, specials, new listings and fun geology facts.

ABOUT CLASTICDETTRITUS  
see post on Twitter | check Klout (56.09)  
Assistant professor at Virginia Tech specializing in sedimentary geology. I tweet mainly about science and all opinions expressed here are my own.

In top results On this page

### Altmetric scores on this page

- 35 Nocturnality in dinosaurs inferred from scleral ring and orbit morphology. (view article)
- 13 High-resolution U–Pb ages from the Upper Triassic Chinle Formation (New Mexico, USA) support a diachronous rise of dinosaurs (view article)
- 11 Diverse tooth marks on an adult sauropod bone from the Early Cretaceous, Korea: Implications in feeding behaviour of theropod dinosaurs (view article)
- 8 A blast from the past: the lost world of dinosaurs at Tendaguru, East Africa (view article)
- 2 Dinosaurs: Rise of the titans (view article)



# Conclusions

- 閱讀載具多樣化
- 客製化增值服務以滿足不同的讀者不同的需求
  - 研究深度
  - 學科領域
- 較之以前, 作者/出版者較難控制讀者閱讀的方式
  - 注意力較短暫
  - 線型閱讀/跳躍學習
- 資訊爆炸-更仰賴工具協助快速找到資料/答案
  
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**Thank You !!**