



SpringerLink

Septembre 2015

## Agenda

- Introduction – qui est Springer?
- Les ressources Springer présents dans le 
- Présentation de la plate-forme SpringerLink

## 2ème partie

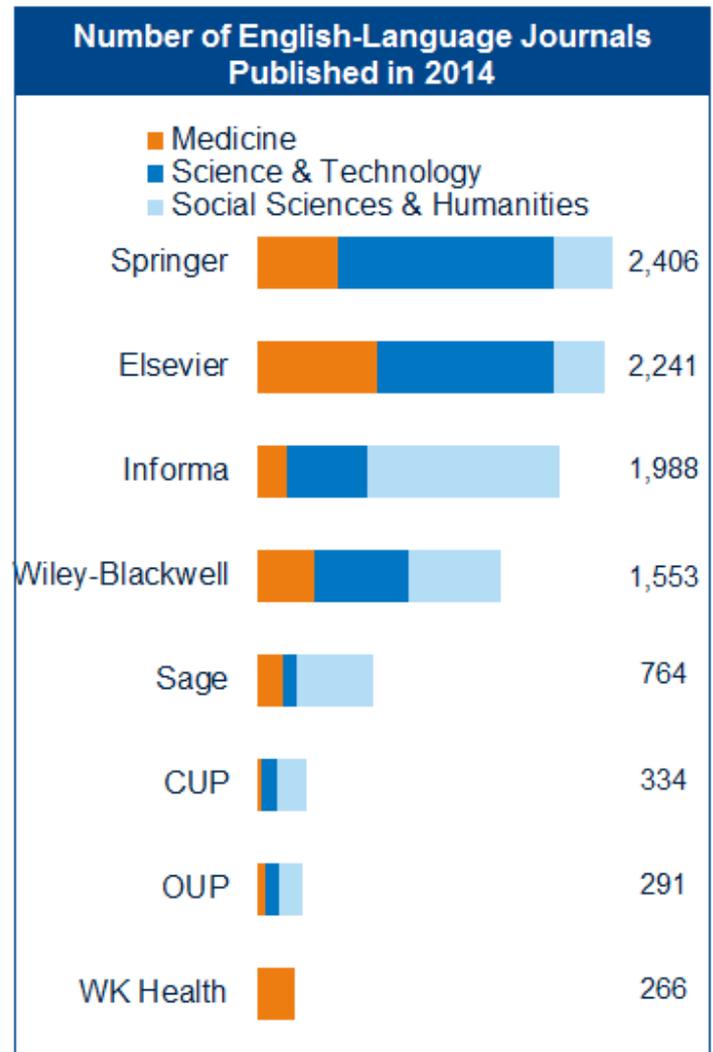
- Présentation de SpringerMaterials
- Services et outils en ligne à votre disposition

## Qui est Springer ? Maison d'édition scientifique

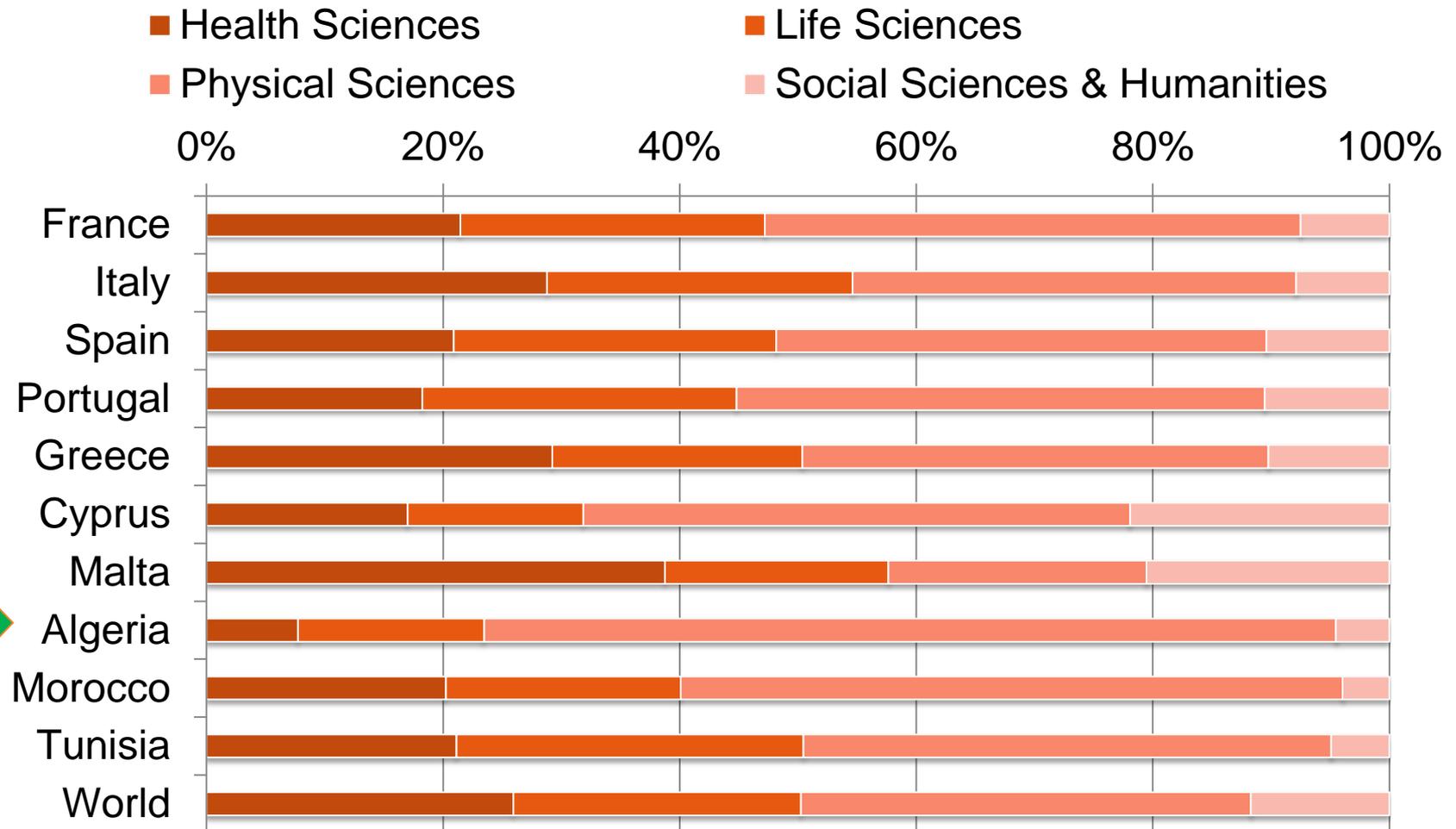
- Présent dans 25 pays avec 7 000 employés à travers le monde avec environ 3 000 revues
- Le plus grand éditeur en Open Access au monde : plus de 500 revues, 100 ebooks



- Le plus grand éditeur de livres électroniques au monde, plus de 180 000 titres disponibles
- Des publications dans tous les domaines principaux de l'édition : sciences, technologie, médecine... mais aussi les affaires, le transport, l'informatique, l'énergie...
- Fondée en 1842 : 170 ans d'expérience d'édition scientifique



## Orientation de la recherche – Europe du Sud/Maghreb



Périmètre d'accès  sur 

- **Revue :**

- *Contemporaines* 1997 à aujourd'hui : environ 1 935 titres
- *Archives (SJA)* 1<sup>er</sup> numéro à 1996, environ 1 000 titres

- **eBooks :**

- Divisé en 13 collections thématiques, Anglais et Allemand
- *Contemporains* 2005 à aujourd'hui (environ 70 000 livres)

- **Protocols** (Disponibles aussi sur la plateforme SpringerProtocols.com):

- *Methods in Molecular Biology + Methods in Molecular Medicine*

- **Mais Aussi:**



- Base de données des Encyclopédie et Ouvrages de référence



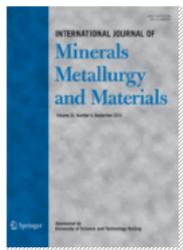
- Base de données en Sciences des Matériaux



- La plus grande base de données en Mathématiques

## Quelques orientations « niche » pour CSC

- **Revue :**



International Journal of Minerals, Metallurgy,  
and Materials

Editor-in-Chief: Jian-xin Xie

ISSN: 1674-4799 (print version)

ISSN: 1869-103X (electronic version)

Journal no. 12613



13 titres sur 'corrosion'

5 titres sur 'métallurgie'

- **SpringerMaterials :**

- Base de données en Sciences des matériaux

- **SpringerReference :**

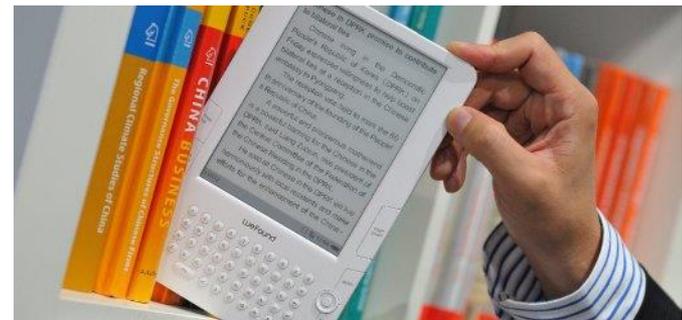
- Base de données de l'ensemble de nos Encyclopédies et Ouvrages de Références: Ces ressources sont LES PLUS consultés dans le monde car très utilisé par les étudiants.

## Plateforme SpringerLink :

- Lire ou télécharger les articles, les eBooks ou les chapitres de livres,
- Lire, télécharger ou utiliser les informations bibliographiques (pour vos citations)
- Accessibles directement sur [www.link.springer.com](http://www.link.springer.com) et aussi via
  - Google, Google Scholar
  - PuArXiv (portail en Physique-Math)
  - Authormapper.com, springer.com etc.
  - Les moteurs de recherche fédérée et “discovery tools” (SFX, Summon etc)
- Quelques mots sur les droits d'utilisation

L'utilisation “personnelle” est autorisée : vous pouvez partager un livre ou un chapitre avec un collègue dans les établissements académiques en Algérie dans un but non-commercial

Vous ne pouvez pas fournir des chapitres ou des livres entiers à vos collègues, ou les mettre en libre accès via le web par exemple.



# Quel avantage d'avoir accès



for Re

Cherifa Boukacem ▾ English ▾ Corporate edition ▾


[Home](#) • [Admin Dashboard](#) • [Contact Us](#)
 **Include Preview-Only content**

162,827 Results

Sort By 
 Your search results include **Metallurgy**  
[» Include](#)

## Refine Your Search

### Content Type

Article	103,026
Reference Work Entry	34,595
Chapter	24,836
Protocol	244
Book	109
Journal	17
Reference Work	8

### Discipline

Materials	80,570
Chemistry	74,577
Engineering	48,879
Physics	28,678
Earth Sciences & Geography	11,460

### Content Type

Article	103,026
Reference Work Entry	34,595
Chapter	24,836
Protocol	244
Book	109
Journal	17
Reference Work	8

### Discipline

Materials	80,570
Chemistry	74,577
Engineering	48,879
Physics	28,678
Earth Sciences & Geography	11,460

### Subdiscipline

Physical Chemistry	44,497
Polymer Science	37,631
Surfaces Interfaces	37,403
Organic Chemistry	29,164
Characterization & Evaluation	24,766

### Language

English	162,137
German	610
French	73

Article

## Investigating the corrosion-resistance of a simulation

To solve the difficult problem of three ... are the k

Guo-fa Sui, Jin-s

[» Download PDF](#)

Article

## Corrosion resistance of girth joints of pipes made by contact butt welding

"welding" or "welding"



Published

 of 8,142

results, e.g.

## Investigating the corrosion-resistance of aluminum tubes through finite element

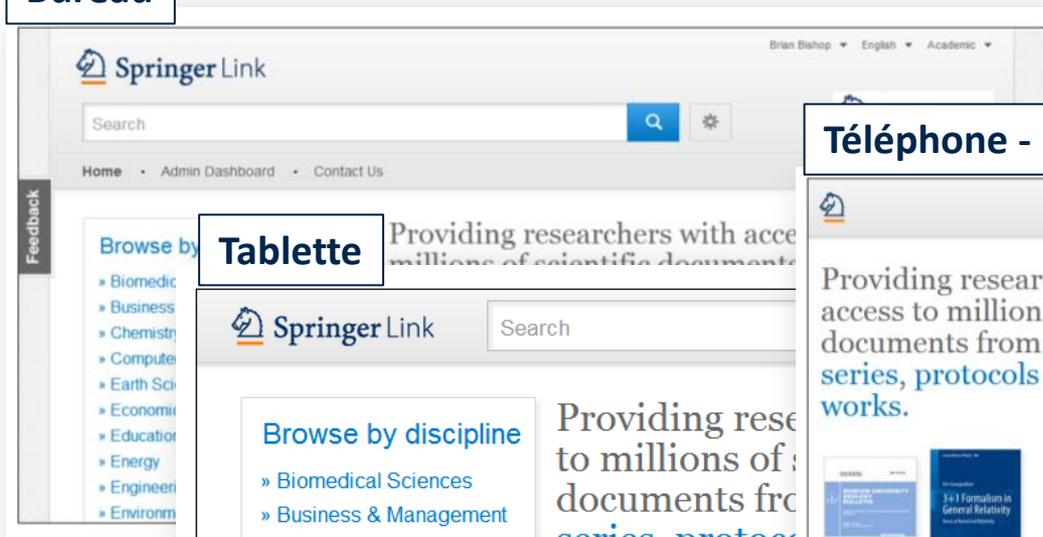
 Corrosion-resistant aluminum and stainless steel tubes, welding of LF6 aluminum alloy and 1Cr18Ni9Ti st...  
*Journal of Minerals, Metallu... (2012)*

## Corrosion resistance of girth joints of pipes made by contact butt welding

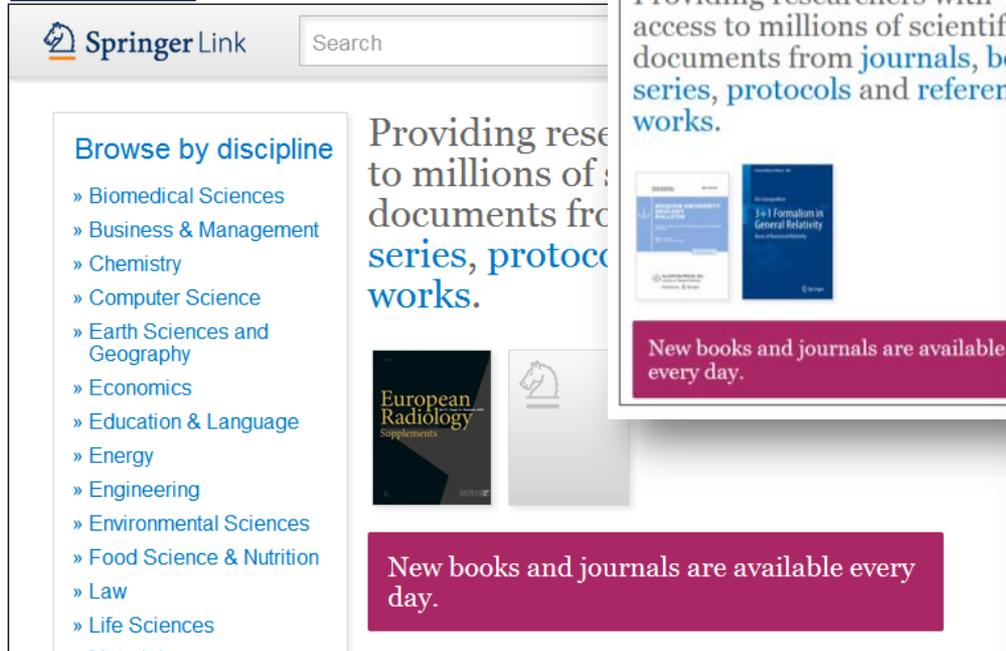
# Notre plateforme est adaptée aux mobiles – automatiquement !

Conçue pour une consultation sur tous supports

## Bureau



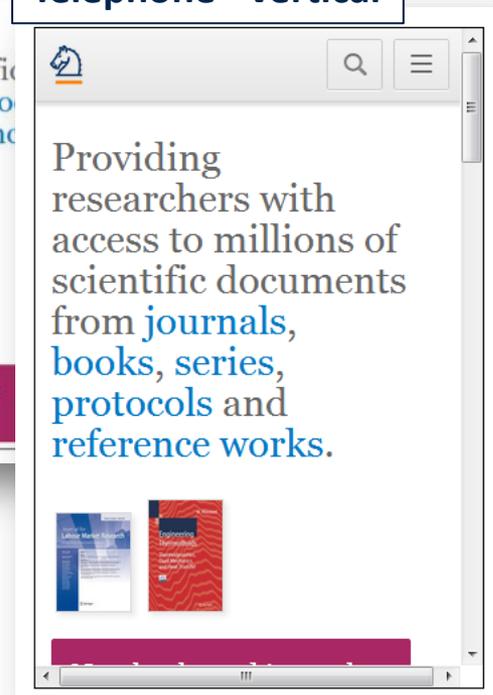
## Tablette



## Téléphone - horizontal

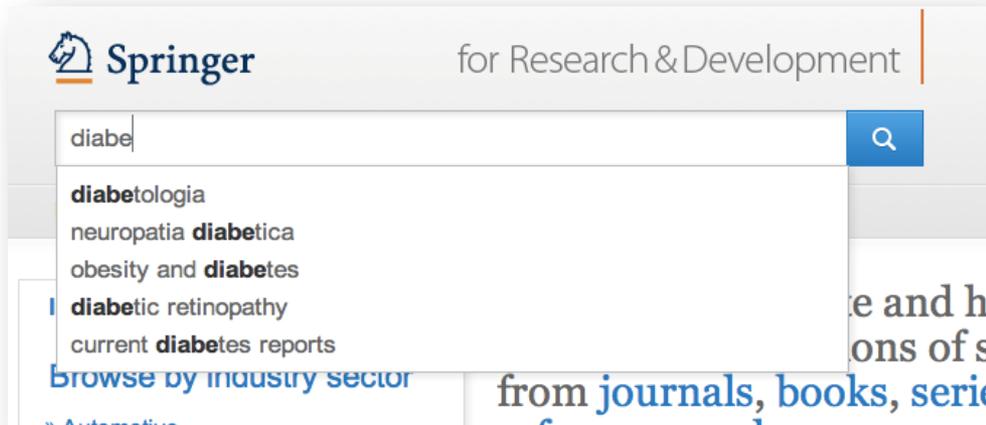


## Téléphone - vertical



## Notre plateforme : quelques fonctionnalités

Suggestions de recherche (basées sur les mots-clés Google)



Aperçu de deux pages pour chaque document (revues et chapitres de nos eBooks)

Résultats de recherche limités au contenu accessible

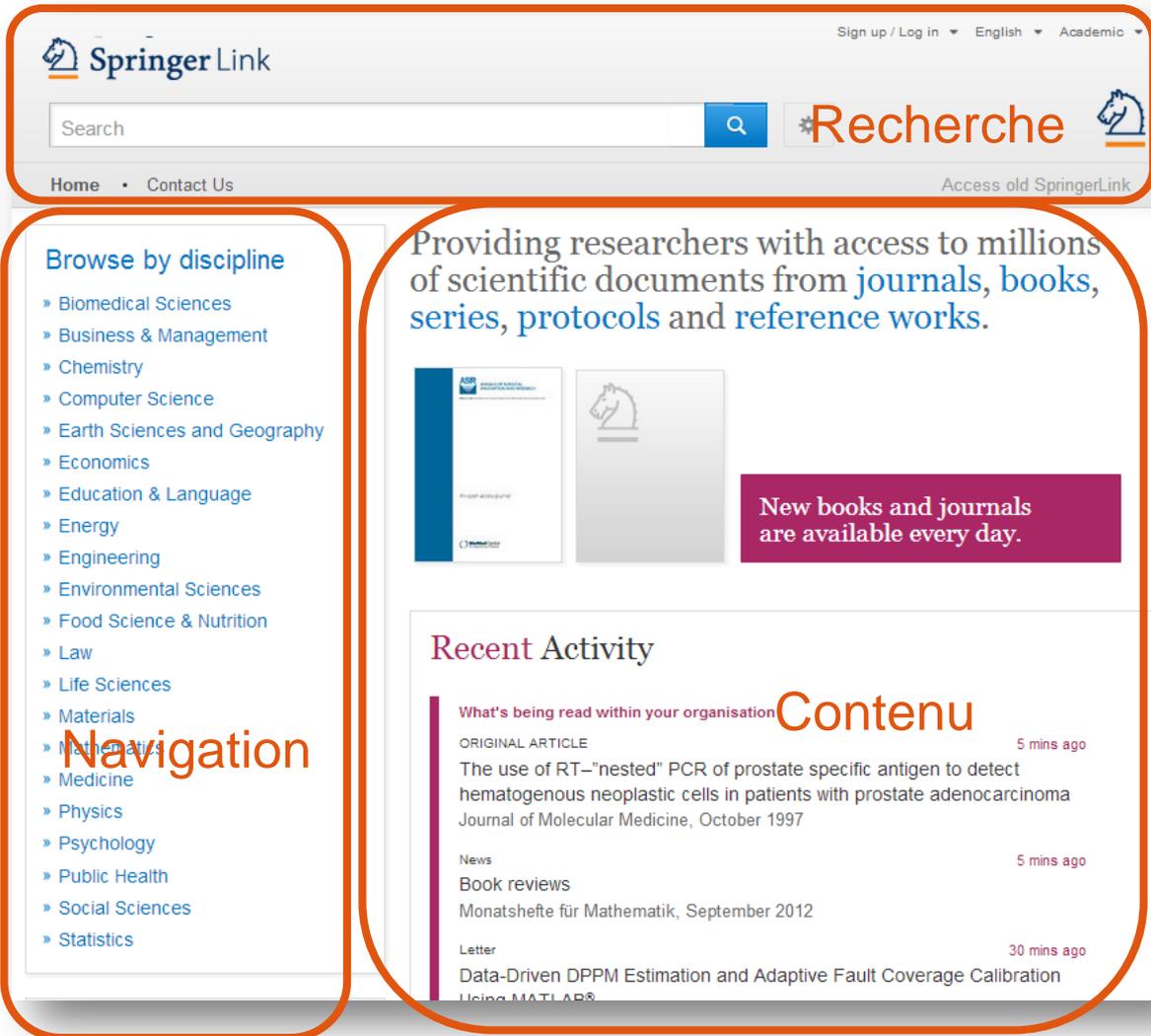


## DEMO Live



<http://link.springer.com/>

## Page d'accueil



SpringerLink

Sign up / Log in English Academic

Search  Recherche

Home • Contact Us Access old SpringerLink

**Browse by discipline**

- » Biomedical Sciences
- » Business & Management
- » Chemistry
- » Computer Science
- » Earth Sciences and Geography
- » Economics
- » Education & Language
- » Energy
- » Engineering
- » Environmental Sciences
- » Food Science & Nutrition
- » Law
- » Life Sciences
- » Materials
- » Mathematics
- » Medicine
- » Physics
- » Psychology
- » Public Health
- » Social Sciences
- » Statistics

Providing researchers with access to millions of scientific documents from **journals, books, series, protocols and reference works.**

New books and journals are available every day.

**Recent Activity**

**Contenu**

What's being read within your organisation

ORIGINAL ARTICLE 5 mins ago  
The use of RT-“nested” PCR of prostate specific antigen to detect hematogenous neoplastic cells in patients with prostate adenocarcinoma  
Journal of Molecular Medicine, October 1997

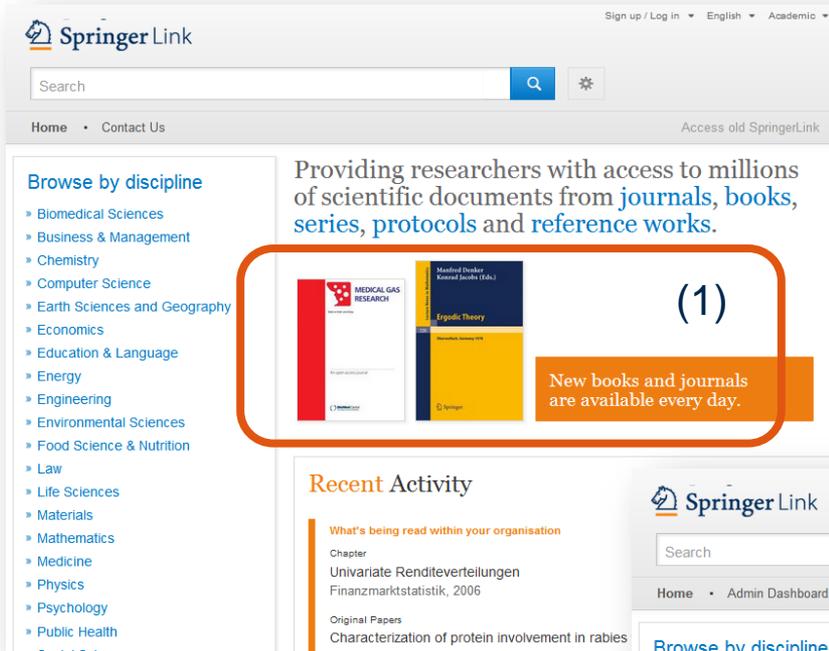
News 5 mins ago  
Book reviews  
Monatshefte für Mathematik, September 2012

Letter 30 mins ago  
Data-Driven DPPM Estimation and Adaptive Fault Coverage Calibration  
Using MATLAB®

La page d'accueil est divisée en trois parties:

- **Masque de recherche**
- **Navigation**
- **Contenu**

# Page d'accueil



Springer Link

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Search

Home Contact Us Access old SpringerLink

Browse by discipline

- » Biomedical Sciences
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- » Economics
- » Education & Language
- » Energy
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- » Environmental Sciences
- » Food Science & Nutrition
- » Law
- » Life Sciences
- » Materials
- » Mathematics
- » Medicine
- » Physics
- » Psychology
- » Public Health

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(1)

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Recent Activity

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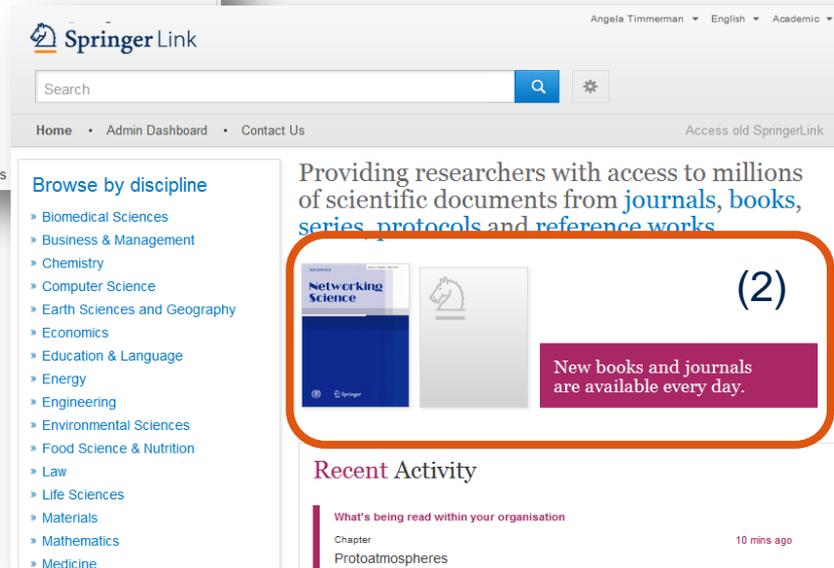
Chapter  
Univariate Renditeverteilungen  
Finanzmarktstatistik, 2006

Original Papers  
Characterization of protein involvement in rabies

## Zone de contenu

La zone de contenu différencie par la couleur si l'utilisateur est reconnu ou non :

1. La couleur orange pour les **utilisateurs anonymes.**
2. La couleur rose pour les **utilisateurs reconnus.**



Springer Link

Angela Timmerman English Academic

Search

Home Admin Dashboard Contact Us Access old SpringerLink

Browse by discipline

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- » Food Science & Nutrition
- » Law
- » Life Sciences
- » Materials
- » Mathematics
- » Medicine

Providing researchers with access to millions of scientific documents from **journals, books, series, protocols and reference works.**

(2)

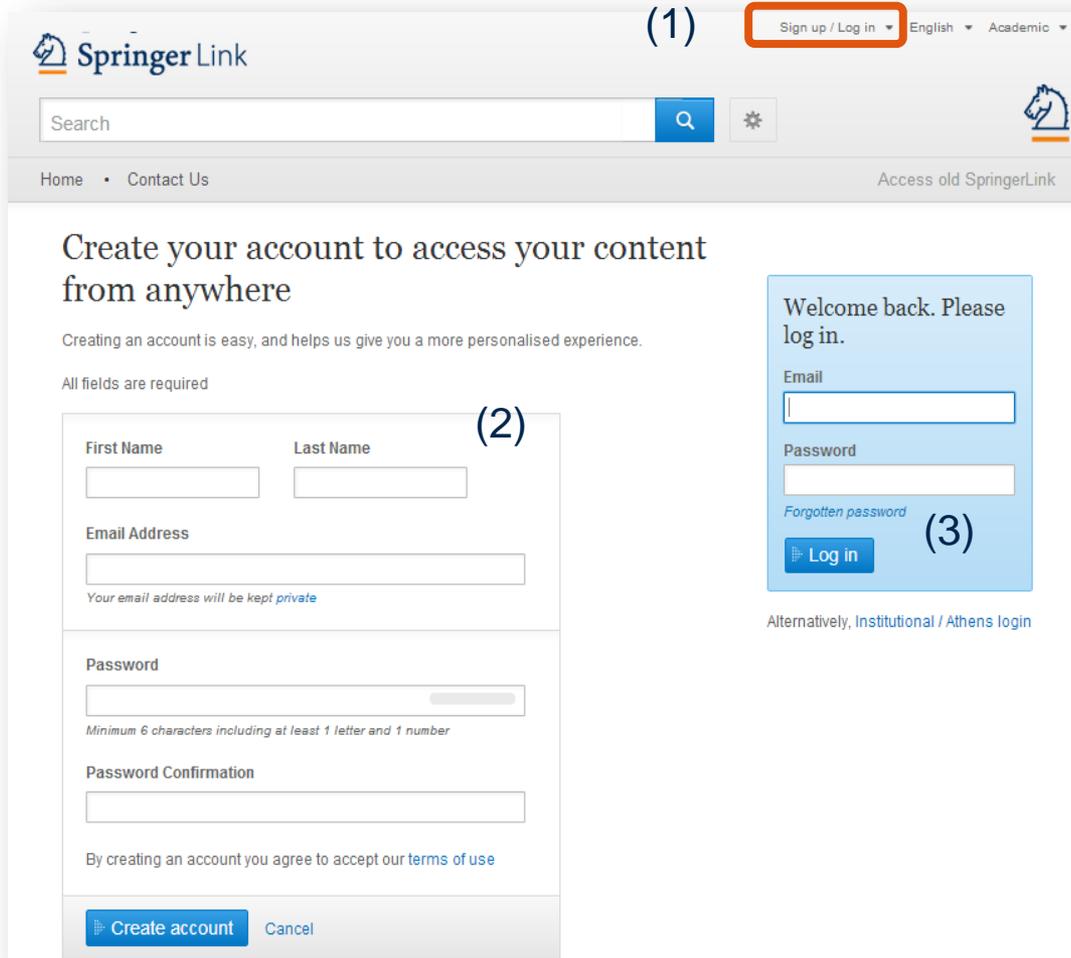
New books and journals are available every day.

Recent Activity

What's being read within your organisation

Chapter  
Protoatmospheres 10 mins ago

## Page d'accueil : utilisateurs reconnus ou anonymes



The screenshot shows the SpringerLink homepage. At the top right, there is a navigation bar with a "Sign up / Log in" button (circled in red and labeled (1)), a language dropdown set to "English", and a "Academic" dropdown. Below this is a search bar and a settings gear icon. The main content area is titled "Create your account to access your content from anywhere" and includes a sub-header "Creating an account is easy, and helps us give you a more personalised experience." and a note "All fields are required". The form is divided into two main sections. The first section, labeled (2), contains fields for "First Name" and "Last Name", "Email Address" (with a note "Your email address will be kept private"), "Password" (with a note "Minimum 6 characters including at least 1 letter and 1 number"), and "Password Confirmation". At the bottom of this section are "Create account" and "Cancel" buttons. The second section, labeled (3), is a light blue box titled "Welcome back. Please log in." containing "Email" and "Password" fields, a "Forgotten password" link, and a "Log in" button. Below this box is the text "Alternatively, Institutional / Athens login".

### S'identifier

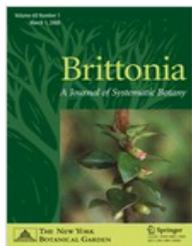
Quand un utilisateur se connecte à <http://link.springer.com> à partir d'une adresse IP déclarée, il est automatiquement reconnu comme membre de l'institution.

Les utilisateurs peuvent aussi s'identifier par email/mot de passe :

1. Cliquez sur "Sign Up/Login"
2. Inscrivez-vous pour créer un compte
3. Avec un compte, connectez-vous de **n'importe où** pour accéder à votre contenu.
4. Nous vous conseillons d'inviter les utilisateurs à créer leur compte ! Ils bénéficieront davantage de la plateforme.

## Page d'accueil – Utilisateur institutionnel reconnu

Providing researchers with access to millions of scientific documents from **journals, books, series, protocols and reference works.**



**New books and journals  
are available every day.**

### Recent Activity

#### What's being read within your organisation

- ORIGINAL ARTICLE 5 mins ago  
 Degradation activity of *Clostridium* species DC-1 in the *cis*-1,2-dichloroethylene contaminated site in the presence of indigenous microorganisms and *Escherichia coli*  
 Journal of Material Cycles and Waste Management, September 2012
- OriginalPaper 5 mins ago  
 On the origin of *Solanum nigrum*: can networks help?  
 Molecular Biology Reports, February 2011
- Original Article—Alimentary Tract 5 mins ago  
 Amelioration of 2,4,6-trinitrobenzene sulfonic acid-induced colitis in mice by immunoregulatory dendritic cells  
 Journal of Gastroenterology, December 2011

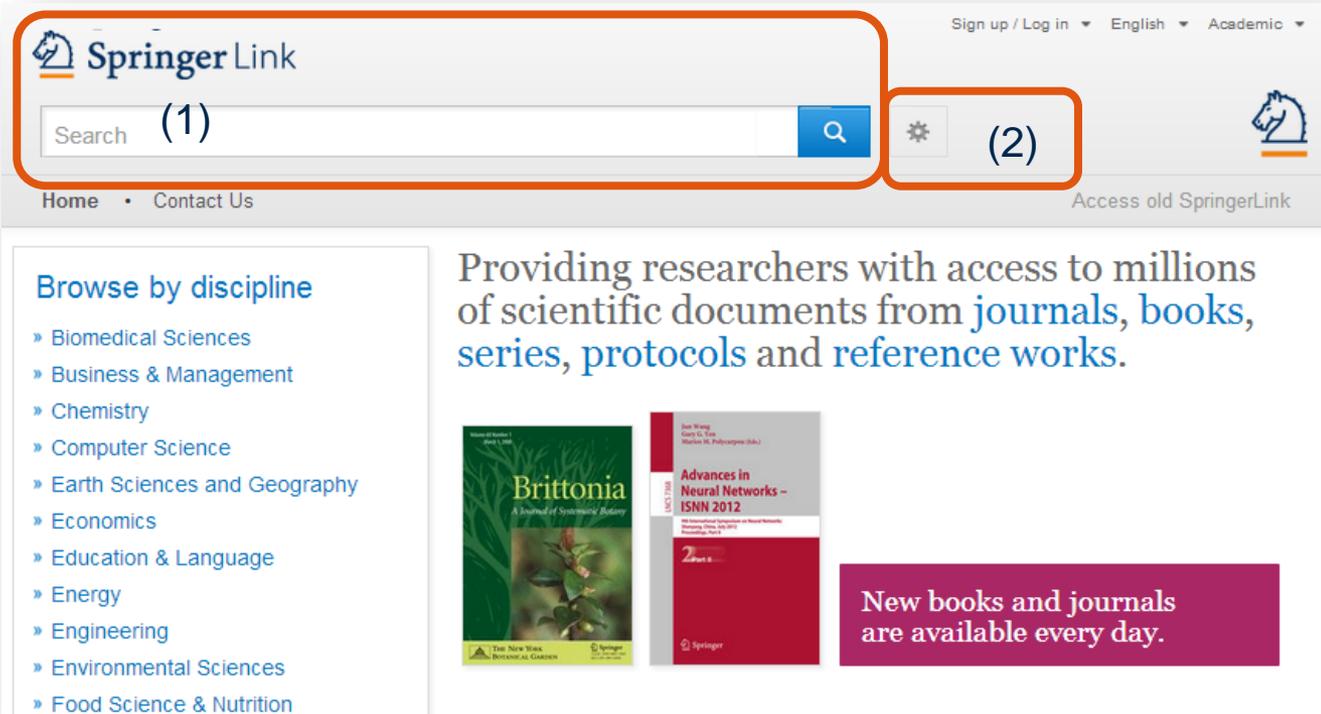
### Utilisateur institutionnel :

Si vous vous connectez à l'intérieur d'une institution reconnue, la couleur de la zone "Activity" sera violette

Dans cette zone, vous trouverez les **téléchargements les plus récents de votre institution.**

Vous avez ainsi un aperçu en temps réel des utilisations.

# Recherche



Springer Link

Search (1)

Sign up / Log in English Academic

(2)

Home • Contact Us

Access old SpringerLink

**Browse by discipline**

- » Biomedical Sciences
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- » Earth Sciences and Geography
- » Economics
- » Education & Language
- » Energy
- » Engineering
- » Environmental Sciences
- » Food Science & Nutrition

Providing researchers with access to millions of scientific documents from **journals, books, series, protocols and reference works.**

**Brittonia**  
A Journal of Systematic Botany

**Advances in Neural Networks - ISNN 2012**  
The International Conference on Neural Networks

**New books and journals are available every day.**

## Recherche :

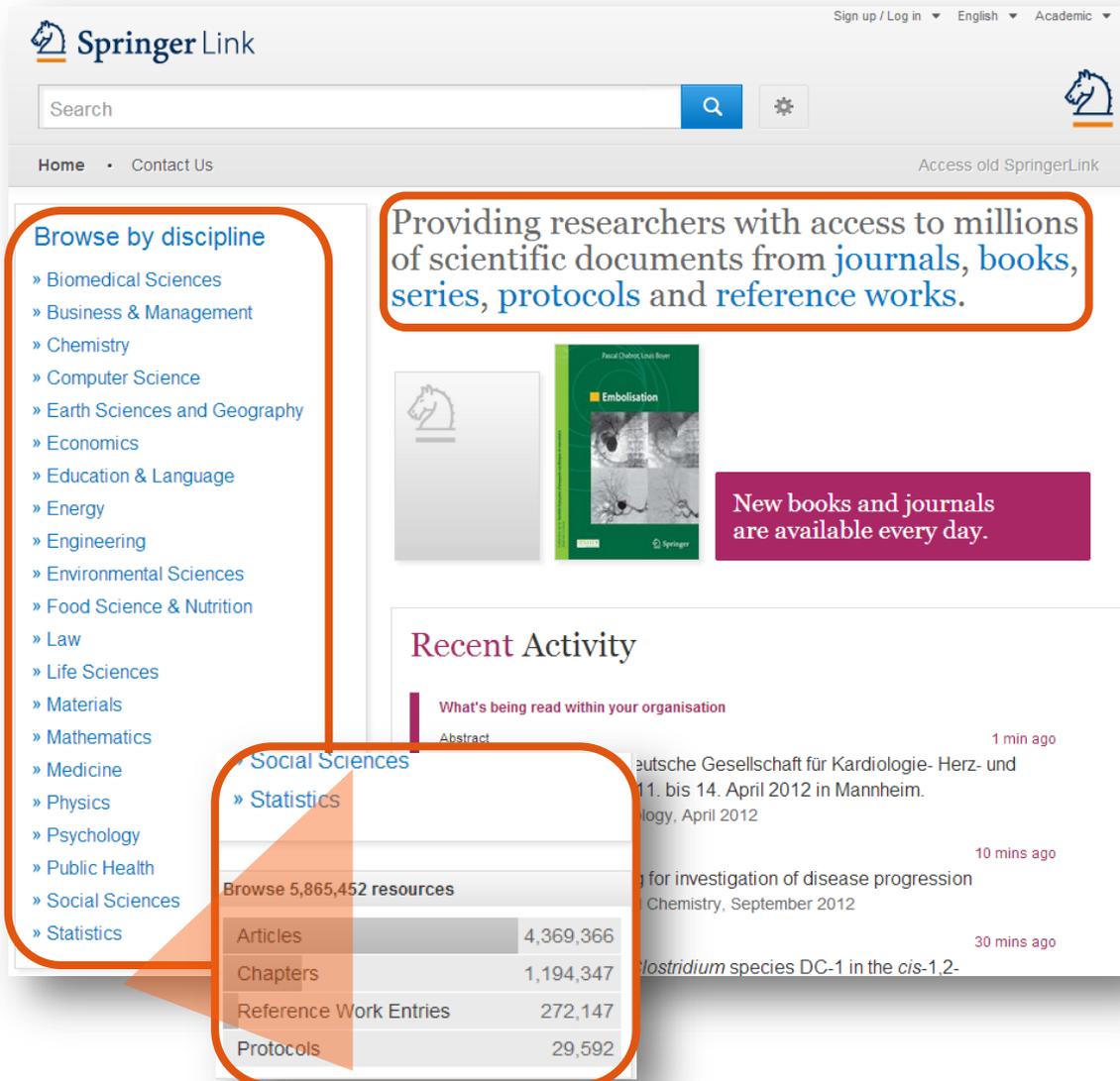
1. Accédez au contenu via la fonction **Recherche**.

La fenêtre de **Recherche** est l'élément le plus visible sur la page.

2. Les options de recherche avancée et d'aide sont également disponibles.

3. Vous pouvez aussi utiliser des 'opérateurs booléens' pour affiner votre requête

# Naviguer



The screenshot shows the SpringerLink homepage. On the left, a 'Browse by discipline' menu is highlighted with an orange rounded rectangle. A callout box points to the 'Social Sciences' and 'Statistics' categories. In the center, a banner for 'Embolisation' is highlighted with an orange rounded rectangle, with a text box stating: 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' Below this, a 'Recent Activity' section is visible, showing a list of articles with their titles and timestamps. At the bottom, a table shows the number of resources available for different content types.

**Browse by discipline**

- » Biomedical Sciences
- » Business & Management
- » Chemistry
- » Computer Science
- » Earth Sciences and Geography
- » Economics
- » Education & Language
- » Energy
- » Engineering
- » Environmental Sciences
- » Food Science & Nutrition
- » Law
- » Life Sciences
- » Materials
- » Mathematics
- » Medicine
- » **Social Sciences**
- » Physics
- » Psychology
- » Public Health
- » Social Sciences
- » **Statistics**

**Embolisation**

Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.

New books and journals are available every day.

**Recent Activity**

What's being read within your organisation

Abstract 1 min ago

deutsche Gesellschaft für Kardiologie- Herz- und 11. bis 14. April 2012 in Mannheim. 10 mins ago

logy, April 2012

g for investigation of disease progression 30 mins ago

Chemistry, September 2012

*listriidium* species DC-1 in the *cis*-1,2-

Browse 5,865,452 resources	
Articles	4,369,366
Chapters	1,194,347
Reference Work Entries	272,147
Protocols	29,592

## Naviguer :

La fonction naviguer sur la gauche est divisée en **disciplines**.

Si vous cliquez sur le sujet de votre choix, la page d'accueil de la discipline s'affichera.

Vous pouvez aussi naviguer par type de contenu.

Sous la navigation par discipline est affichée la liste des types de contenu :

- (Revue) Articles
- Entrées ouvrages de référence
- (Livres) Chapitres
- Protocoles

## Page résultats de recherche

(2)

Include preview-only content

11.275 Result(s) for 'pediatric cardiology'

Refine Your Search
 Sort By: Relevance
Date Published
Page 1 of 564

Content Type	
Article	9.880
Chapter	1.338
Reference Work Entry	32
Protocol	16
Book	8
Journal	1

Discipline	see all
Medicine	8.301
Biomedical Sciences	581
Life Sciences	101
Chemistry	79
Engineering	77

Subdiscipline	see all
Cardiology & Angiology	4.939
Surgery	2.991
Pediatrics	2.329
Internal Medicine	1.905

Article No Access  
**Upcoming Events in Pediatric Cardiology**  
*Pediatric Cardiology (2002)*  
[Free Preview](#) [Get Access](#)

(1)

Article  
**Pediatric cardiology reviewer acknowledgments**  
*Pediatric Cardiology (1992)*  
[Download PDF \(85 KB\)](#)

Article No Access  
**Upcoming Events in Pediatric Cardiology**  
*Pediatric Cardiology (2003)*  
[Free Preview](#) [Get Access](#)

Article  
**Pediatric cardiology reviewer acknowledgments**  
*Pediatric Cardiology (1988)*  
[Download PDF \(57 KB\)](#)

### Aperçus des résultats :

1. Les aperçus de résultats non accessibles sont affichés sur fond jaune.

2. Si vous souhaitez voir uniquement les résultats auxquels vous avez accès, décochez la boîte jaune au-dessus des filtres de recherche.

## Page des résultats de recherche

Article (1)  
**DOE Bioenergy Center Special Issue: The Great Lakes Bioenergy Research Center (GLBRC)** (2)  
 This issue of **BioEnergy Research**... is the second of three special issues to feature work from the US Department of Energy **Bioenergy** Centers. This special issue is focused on **research** supported by the Great Lakes (3)  
 Michael D. Casler in *BioEnergy Research* (2010) (5)  
 » [Download PDF](#) (60 KB) » [View Article](#) (6)

Article  
**The DOE BioEnergy Science Center—a U.S. Department of Energy Bioenergy Research Center**  
 The **BioEnergy** Science Center, a nationally and internationally peer ... as a U.S. Department of Energy **Bioenergy Research** Center. This Oak Ridge National Laboratory-led ... for its significant contributions in th...  
 Russ Miller, Martin Keller in *In Vitro Cellular & Developmental Biology - Plant* (2009)  
 » [Download PDF](#) (308 KB) » [View Article](#)

Article  
**The US Department of Energy Great Lakes Bioenergy Research Center: Midwestern Biomass as a Resource for Renewable Fuels**  
 The Great Lakes **Bioenergy Research** Center is one of three **Bioenergy Research** Centers establish by the US Department of ... of liquid fuels derived from biomass. The **research** is focused on converting plant biomass...  
 Steven Slater, Kenneth Keegstra, Timothy J. Donohue in *BioEnergy Research* (2010)  
 » [Download PDF](#) (87 KB) » [View Article](#)

### Structure des éléments présents dans une page de résultats de recherche :

1. Type de contenu
2. Titre de la ressource
3. Description
4. Auteur
5. Nom de la publication
6. Téléchargement (full-text) PDF ou affichage HTML si disponible

## Page des résultats de recherche

Chapter (1)

### MRSA in der Phlebologie

Chronische Ulzera mit den Problemen der Superinfektion sind in der Phlebologie ein altbekanntes und hinreichend gewürdigtes Problem. Mit der zunehmenden Verbreitung multiresistenter Keime hat dieses Problem...

Dr. med. H. Nüllen, Dr. med. U. Kamphausen... in *Diagnostik und Therapie der Varikose* (2010)

» [Download PDF](#) (118 KB)

Article

### Appearance of Methicillin-Resistant *Staphylococcus Aureus* (MRSA) Sensitive to Gentamicin in a Hospital with a Previous Endemic Distinct MRSA

Fei Gao, David Machin in *European Journal of Epidemiology* (2004)

» [Download PDF](#) (57 KB)

Chapter

### Community-Acquired MRSA (CA-MRSA)

*Lexikon der Infektionskrankheiten des Menschen* (2009)

» [Download PDF](#) (85 KB)

Book

### Methicillin-Resistant *Staphylococcus aureus* (MRSA) Protocols

Yinduo Ji in *Methods in Molecular Biology* (2007)



### Type de contenu :

Les types de contenu suivants peuvent être affichés sur une page de résultats (1):

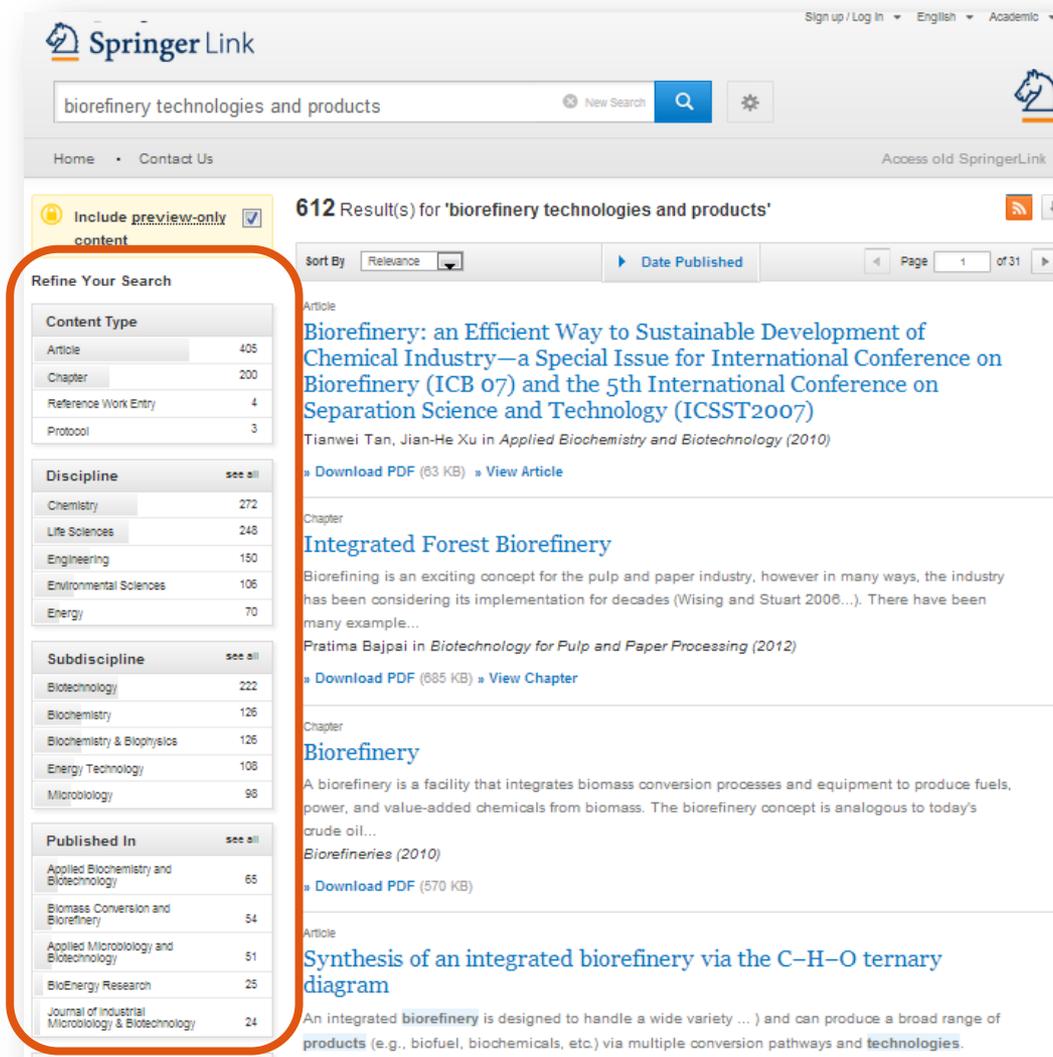
### Unités plus grandes :

- Séries (de livres)
- Livres (chapitres ou protocoles)
- Revues (articles)
- Ouvrages de référence (entrées des ouvrages de référence)

### Unités plus petites:

- Chapitres
- Protocols
- Articles
- Entrées ouvrages Référence

## Page des résultats de recherche



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biorefinery technologies and products

Home Contact Us Access old SpringerLink

612 Result(s) for 'biorefinery technologies and products'

Sort By Relevance Date Published Page 1 of 31

**Refine Your Search**

**Content Type**

Article	405
Chapter	200
Reference Work Entry	4
Protocol	3

**Discipline** see all

Chemistry	272
Life Sciences	248
Engineering	180
Environmental Sciences	106
Energy	70

**Subdiscipline** see all

Biotechnology	222
Biochemistry	126
Biochemistry & Biophysics	126
Energy Technology	108
Microbiology	98

**Published In** see all

Applied Biochemistry and Biotechnology	65
Biomass Conversion and Biorefinery	54
Applied Microbiology and Biotechnology	51
BioEnergy Research	25
Journal of Industrial Microbiology & Biotechnology	24

Article  
**Biorefinery: an Efficient Way to Sustainable Development of Chemical Industry—a Special Issue for International Conference on Biorefinery (ICB 07) and the 5th International Conference on Separation Science and Technology (ICSST2007)**  
Tianwei Tan, Jian-He Xu in *Applied Biochemistry and Biotechnology* (2010)  
Download PDF (83 KB) View Article

Chapter  
**Integrated Forest Biorefinery**  
Biorefining is an exciting concept for the pulp and paper industry, however in many ways, the industry has been considering its implementation for decades (Wising and Stuart 2006...). There have been many examples...  
Pratima Bajpai in *Biotechnology for Pulp and Paper Processing* (2012)  
Download PDF (885 KB) View Chapter

Chapter  
**Biorefinery**  
A biorefinery is a facility that integrates biomass conversion processes and equipment to produce fuels, power, and value-added chemicals from biomass. The biorefinery concept is analogous to today's crude oil...  
*Biorefineries* (2010)  
Download PDF (570 KB)

Article  
**Synthesis of an integrated biorefinery via the C–H–O ternary diagram**  
An integrated biorefinery is designed to handle a wide variety of ... and can produce a broad range of products (e.g., biofuel, biochemicals, etc.) via multiple conversion pathways and technologies.

### Options de filtres :

À gauche, vous trouverez des options de filtres pré-définis qui vous aideront à affiner vos résultats de recherche.

Les filtres suivants sont disponibles :

- Type de contenu
- Discipline
- Sous-discipline
- Publié dans
- Auteur
- Langue (...document incluant une langue spécifique)

## Page des résultats de recherche

253.840 Result(s) for 'oncology'

Sort By Relevance Date Published Page 1 of 12.692

Chapter Relevance Newest First Oldest First

**Comprendre le score gériatrique: recommandations de la « Task Force on CGA of the International Society of Geriatric Oncology (SIOG) »**

Un quart des Européens aura plus de 65 ans d'ici 2030, et dans ce segment l'incidence des cancers augmente à 11 fois celle du sujet plus jeune. Pour mieux évaluer ces personnes sur le plan social et médical,...

M. Aapro in *Cancer du sein* (2007)

» [Download PDF](#) (111 KB)

Article No Access

**European Society of Gynaecological Oncology (ESGO)**

European Society of Gynaecological **Oncology**

K. Münstedt in *Der Gynäkologe* (2002)

» [Free Preview](#) » [Get Access](#)

### Tri

Par défaut, les résultats sont affichés par **pertinence**.

Les autres options de tri :

- les plus récents d'abord
- les plus anciens d'abord

## Page résultats de recherche

(1) **Show documents published** between 1867 and 2012 (Available 1867 - 2012) 

(2) Page 1 of 168

(3) 

3.349 Result(s) for 'mrsa'

Sort By **Relevance**  **Date Published**

Chapter  
**Bifurcation de Hopf**  
Jusqu'à présent, nous avons étudié des bifurcations stationnaires correspondant à des changements de solutions stationnaires. Ce chapitre décrit quelques exemples de systèmes non linéaires présentant des bifur...  
Chaouqi Misbah in *Dynamiques complexes et morphogenèse* (2011)  
» [Download PDF](#) (622 KB)

Chapter  
**Ordre et désordre spatial et temporel au voisinage d'une bifurcation de Hopf**  
Dans le chapitre consacré à l'étude de la naissance de l'ordre spatial (chapitre 10), nous nous sommes penchés sur le système généralisé issu du système de Swift-Hohenberg (équation 10.2) pour en dériver l'équ...  
Chaouqi Misbah in *Dynamiques complexes et morphogenèse* (2011)  
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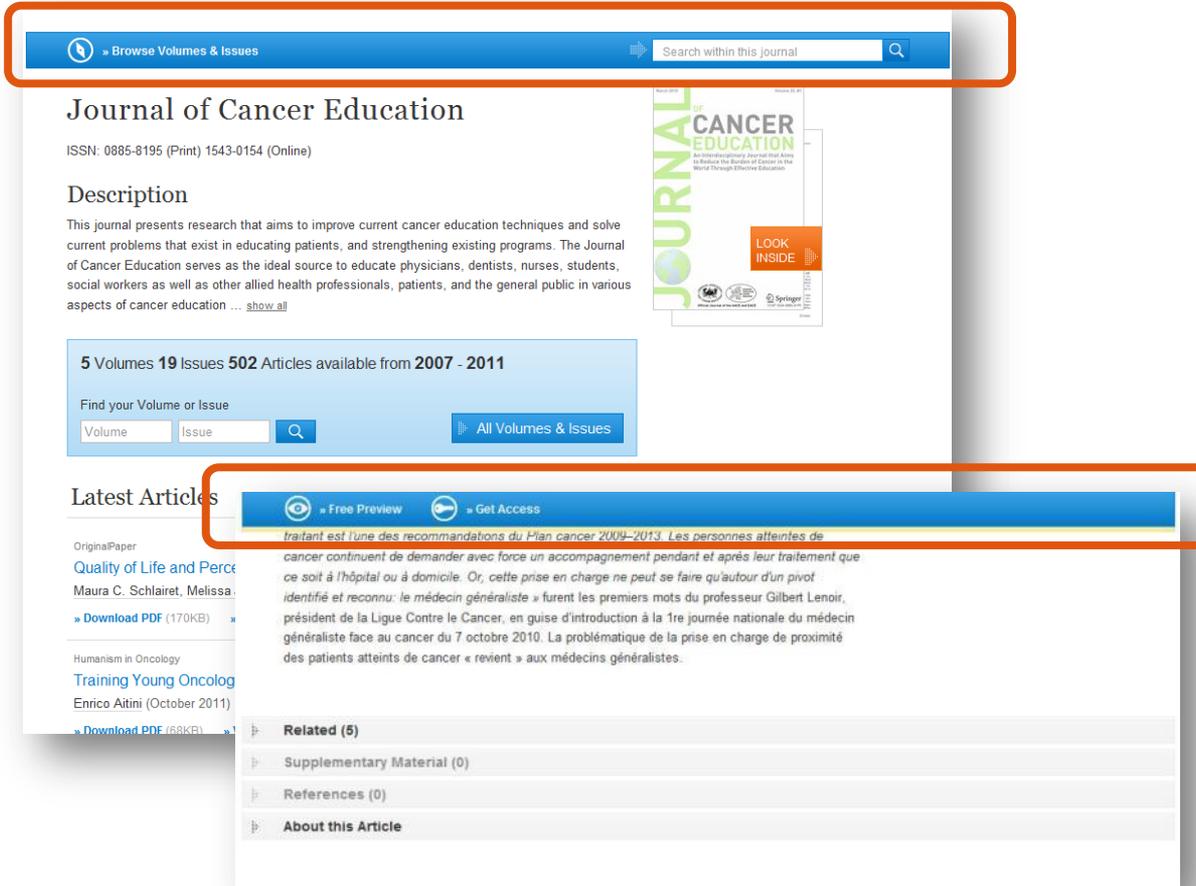
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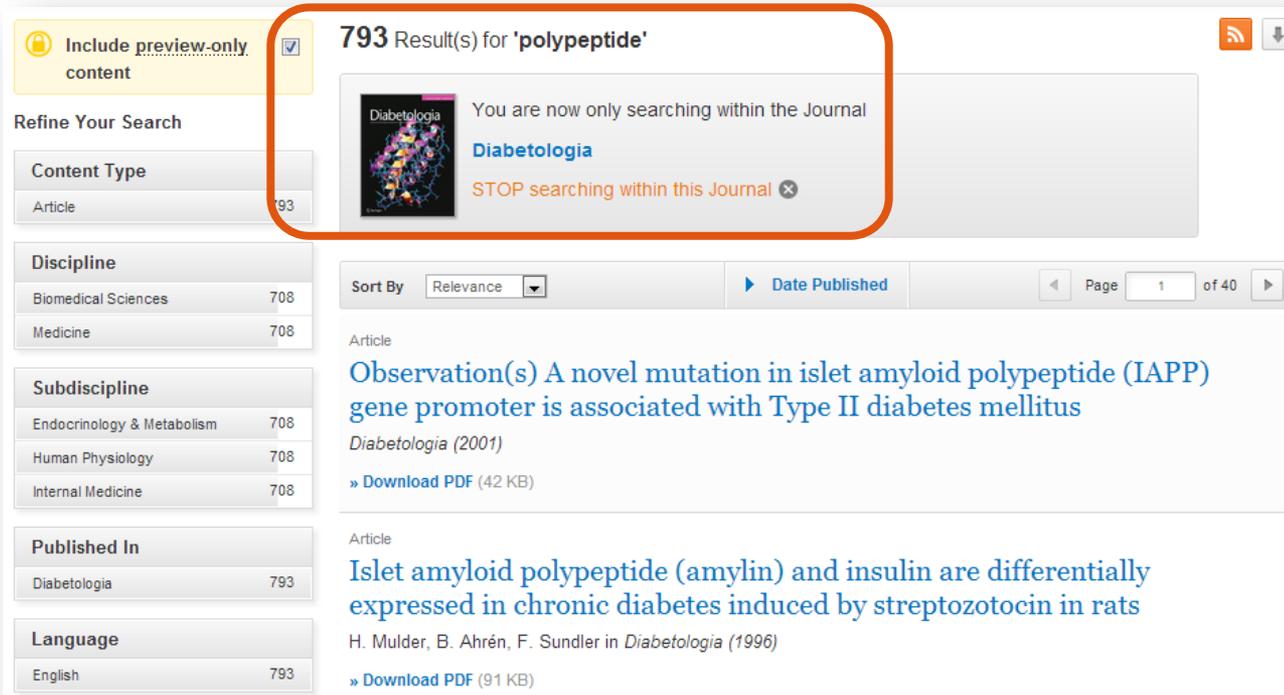
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## Page des résultats de recherche



793 Result(s) for 'polypeptide'

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Page 1 of 40

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## Degeneration of the intervertebral disc (5)

Jill PG Urban, Sally Roberts (6)

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(9) **Abstract**

The intervertebral disc is a cartilaginous structure that resembles articular cartilage in its biochemistry, but morphologically it is clearly different. It shows degenerative and ageing changes earlier than does any other connective tissue in the body. It is believed to be important clinically because there is an association of disc degeneration with back pain. Current treatments are predominantly conservative or, less commonly, surgical; in many cases there is no clear diagnosis and therapy is considered inadequate. New developments, such as genetic and biological approaches, may allow better diagnosis and treatments in the future.

Within this Article:

- » Introduction
- » Disc morphology
- » Biochemistry
- » Effect of degenerative changes on disc function and pathology
- » Aetiology of disc degeneration
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(2) Diabetologia  
November 2012, Volume 55, Issue 11, pp 2913-2919,  
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(1) **Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin**

(3) M. Hara, K. Yamagata, Y. Tomino, A. Saito, Y. Hirayama, S. Ogasawara, H. Kurosawa, S. Sekine, K. Yan

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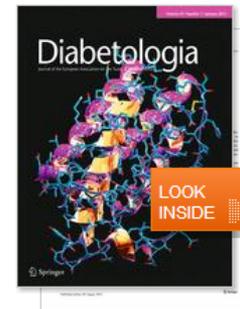
### Abstract

**Aims/objective**

Nephropathy, a major complication of diabetes, is the leading cause of end-stage renal disease. Recent studies have demonstrated that podocyte injury is involved in the onset of and progression to renal insufficiency. Here, we describe a novel, highly sensitive ELISA for detecting urinary podocalyxin, a glycoconjugate on the podocyte apical surface that indicates podocyte injury, particularly in the early phase of diabetic nephropathy.

**Methods**

Urine samples from patients with glomerular diseases ( $n = 142$ ) and type 2 diabetes ( $n = 71$ ) were



#### Within this Article:

- » Introduction
- » Methods
- » Results
- » Discussion
- » References

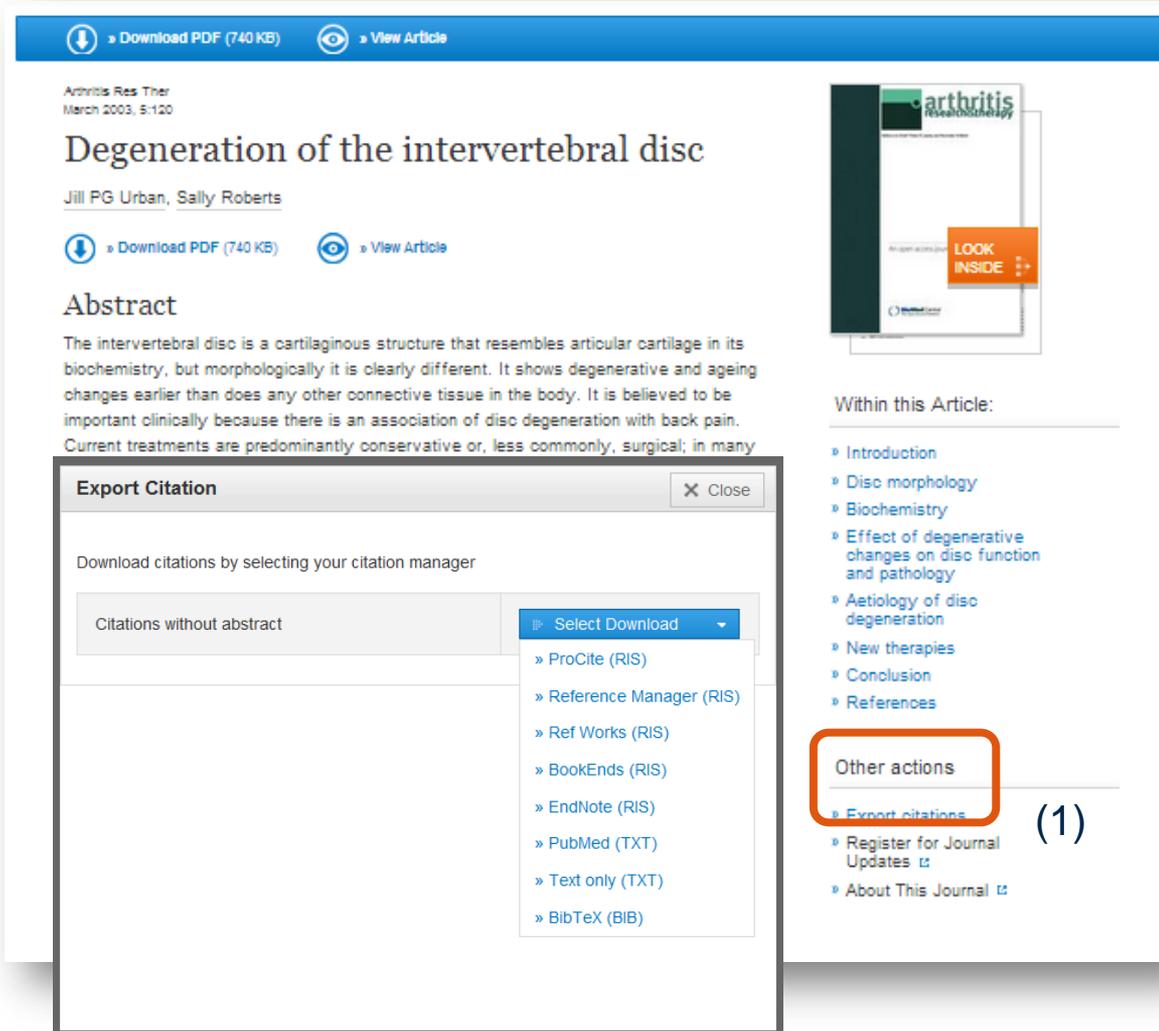
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Jill PG Urban, Sally Roberts

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The intervertebral disc is a cartilaginous structure that resembles articular cartilage in its biochemistry, but morphologically it is clearly different. It shows degenerative and ageing changes earlier than does any other connective tissue in the body. It is believed to be important clinically because there is an association of disc degeneration with back pain. Current treatments are predominantly conservative or, less commonly, surgical; in many

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**Keywords**  
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1. Diaz-Arrastia R (2000) Homocysteine and neurologic disease. *Arch Neurol* 57:1422–1427 [» CrossRef](#)
2. Andersson A, Ankerst J, Lindgren A, Larsson K, Hultberg B (2001) Hyperhomocysteinemia and changed plasma thiol redox status in chronic obstructive pulmonary disease. *Clin Chem Lab Med* 39:229–233 [» CrossRef](#)
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11. Kim WK, Pae YS (1996) Involvement of *N*-methyl-D-aspartate receptor and free radical in homocysteine-mediated toxicity on rat cerebellar granule cells in culture. *Neurosci Lett* 216:117–120

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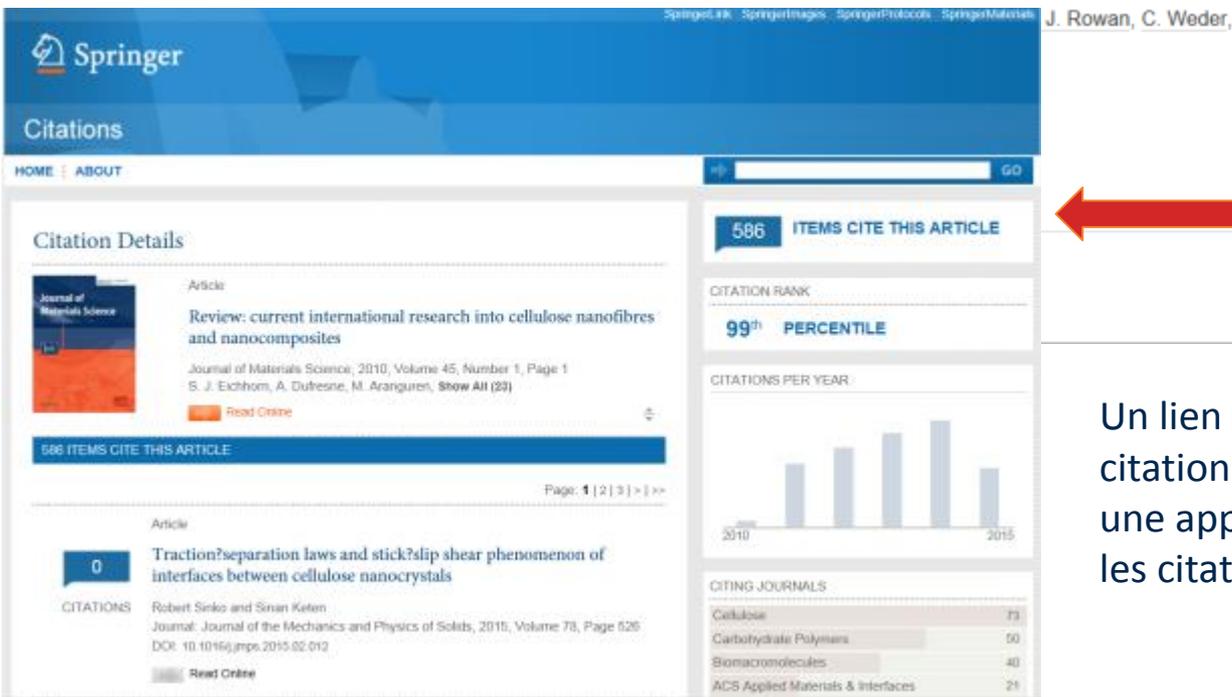
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January 2010, Volume 45, Issue 1, pp 1-33

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Journal: Journal of the Mechanics and Physics of Solids, 2010, Volume 78, Page 526  
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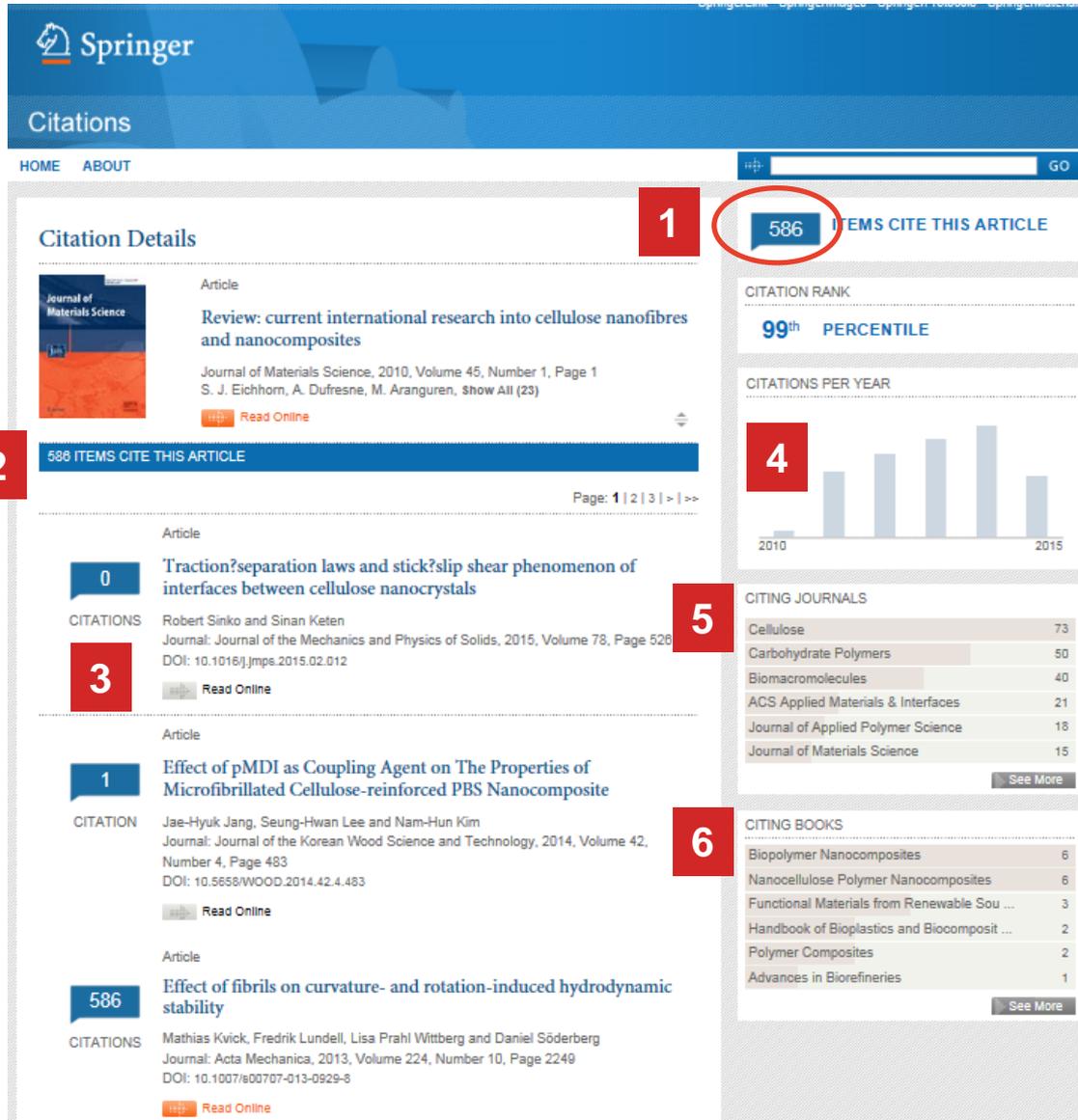
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Journal of Applied Polymer Science	18
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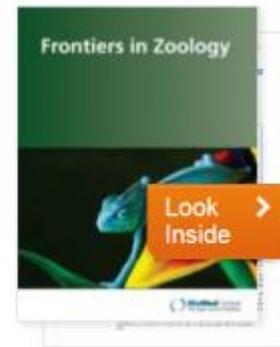
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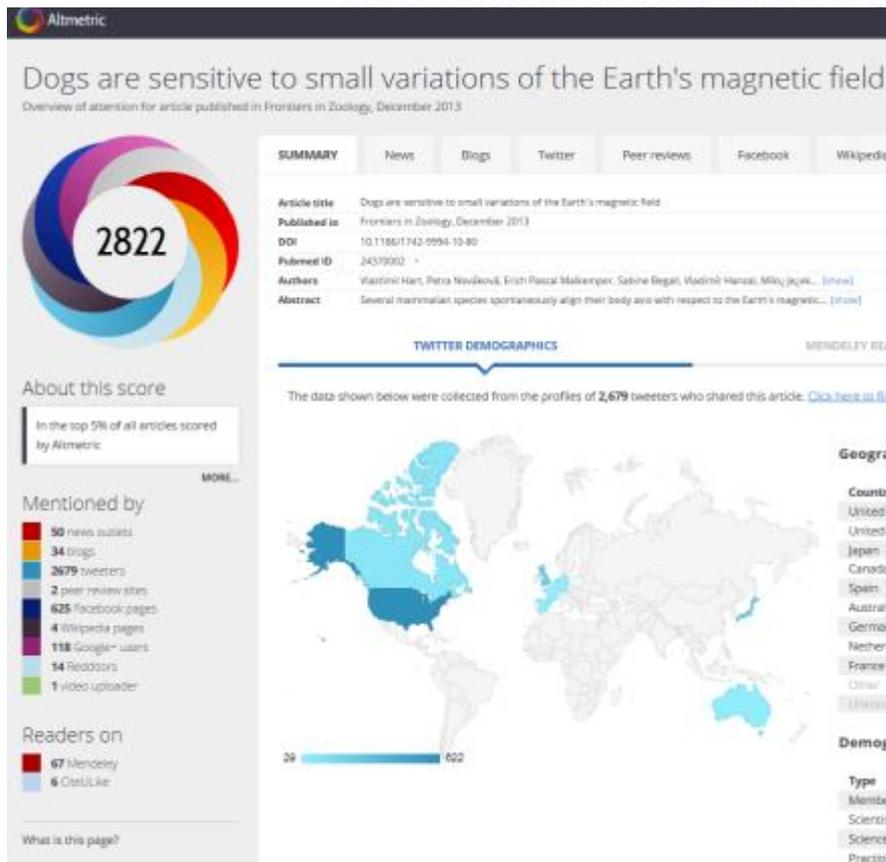
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Score

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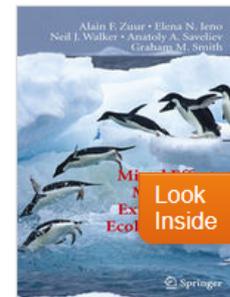
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2009

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Pages i-xxii

Book Chapter

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**ISBN:** 9780387874588 · 9780387874579

**DOI:** 10.1007/978-0-387-87458-6

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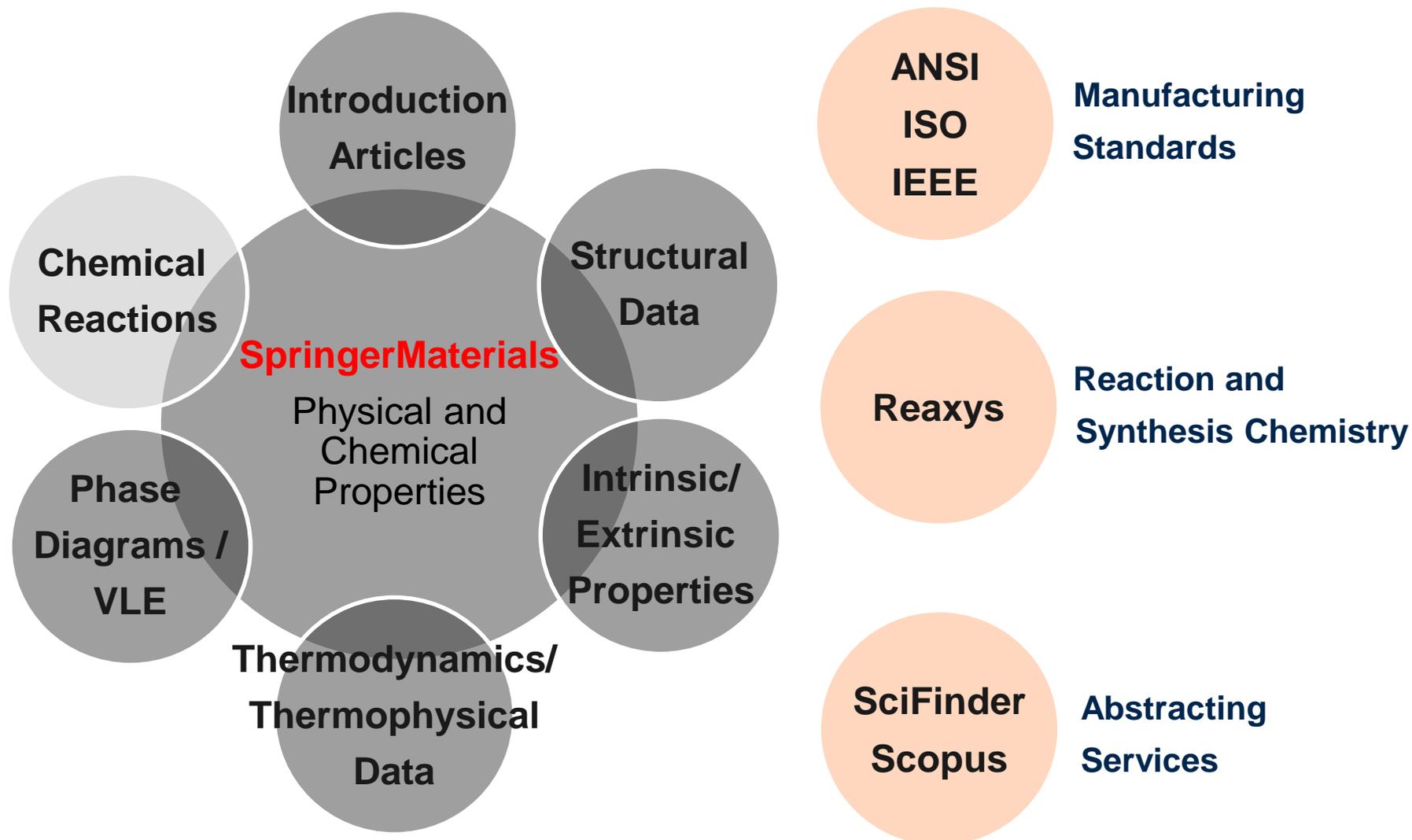
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- Une base de données spécialisée dans les matériaux et leurs propriétés physiques et chimiques
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- Une grande diversité de sujets
- Chimistes, Ingénieurs, Recherche sur les matériaux....

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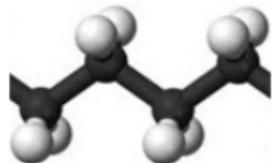


## 6 sous-sections/base de données

**LANDOLT-  
BÖRNSTEIN**

*Critical Reviews and  
Substance Profiles*

125,000 Documents  
461 Volumes



*Advanced Thermal Analysis System  
(ATHAS) – Polymer Thermophysical  
Properties*

30,000 Data Points  
150 Polymers

**MSI** |   
Science Simplified

*Critical Reviews and  
Phase Diagrams*

4,000 Evaluation Reports  
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Thermophysical Properties of  
Organic Mixtures*

472,000 Data Points  
1,225 Binary Mixtures  
50 Substances

*Linus Pauling*

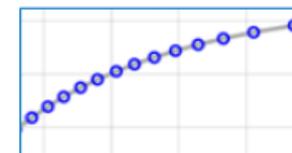
*Inorganic Solid Phases*

Crystallographic Data:  
225,000 Structures

Interactive Structures:  
209,000 files

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36,000 Documents

Physical Properties:  
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*Adsorption Isotherm  
Database*

24,000 Data Points  
1,500 Isotherms  
66 Adsorbents

# **l'information est là...**



Livres/Revue



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Internet

**... le problème est de localiser les données !**

## Exemple du problème - Find the Band Gap of Al-Ga-As

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AlGaAs energy gap

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 RG Mani, JH Smet, K Klitzing, V Narayanamurti... - Nature, 2002 - repository.ias.ac.in  
 ... The formation of an **energy gap** around E<sub>F</sub> is suggested by observed activated transport (see d). letters to nature ... Unlike some considered systems<sup>23–26</sup>, this 2DES includes low-energy excitons which implies **gap** formation at low ( $\sim$ hqc/kB) temperatures<sup>24</sup>. ...  
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 B Lambert, J Caulet, A Regreny... - Semiconductor ..., 1999 - iopscience.iop.org  
 ... Abstract. We have determined the variation of the **AlGaAs energy gap** (E<sub>g</sub>) versus the aluminium concentration x. The x-values are determined by precise x-ray measurements and the values of E<sub>g</sub> are deduced from photoluminescence experiments. ...  
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 WI Wang, EE Mendez, F Stern - Applied Physics Letters, 1984 - ieeexplore.ieee.org  
 ... heat loss in the Al cell after opening the shutter could lead to somewhat higher AlAs mole fraction for the **AlGaAs** grown just ... The **energy gap** difference between Al<sub>0.3</sub>Ga<sub>0.7</sub>As and GaAs, as determined from band-edge luminescence measurements, is 550 meV, so the conduction ...  
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 S Gehrsitz, FK Reinhart, C Gourgon, N Herres... - Journal of Applied ..., 2000 - link.aip.org  
 ... RA Logan and FK Reinhart, "Optical waveguides in GaAs[Single Bond]AlGaAs epitaxial layers," J. Appl. Phys. ... C. Bosio, JL Staehli, M. Guzzi, G. Burri, and RA Logan, "Direct-energy-gap dependence on Al concentration in Al[sub x][bold Ga[sub 1][bold - ]x]As," Phys. Rev. ...  
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 VT Dolgoplov, AA Shashkin, AV Aristov, D Schmerek... - Physical review ..., 1997 - APS  
 ... The **energy gap** is deduced from the gate voltage dependence of the electron density in the 2DES. Up to a magnetic field of 16 T we find that the spin **gap** value is proportional to ... We use AlGaAs-GaAs single-heterojunction samples with a metallic gate on the crystal surface that

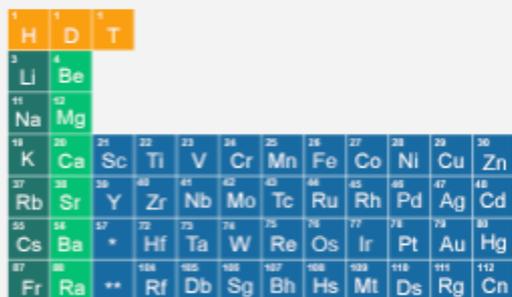
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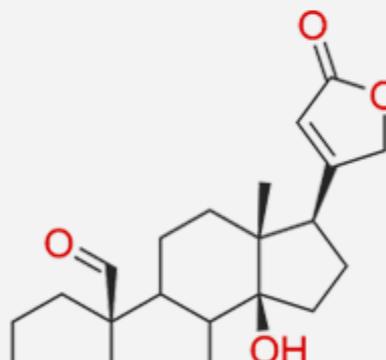
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## Search by elements



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H	D	T															
3	4																
Li	Be																
11	12																
Na	Mg																
19	20	21	22	23	24	25	26	27	28	29	30						
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn						
37	38	39	40	41	42	43	44	45	46	47	48						
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd						
55	56	57	72	73	74	75	76	77	78	79	80						
Cs	Ba	*	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg						
87	88	104	105	106	107	108	109	110	111	112							
Fr	Ra	**	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn						

## Search by structure



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- Une collection systématique
  - De données faisant l'objet d'une évaluation critique
  - Par des auteurs et éditeurs renommés
  - ... depuis 1900

**Plus de 400  
volumes ; 15  
chaque année**

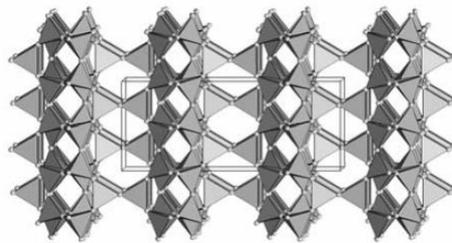
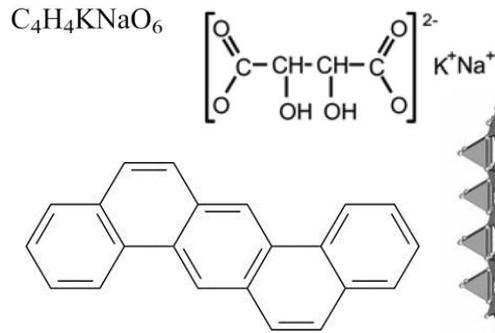
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- Page 3:** Table of physical constants for various elements and compounds.
- Page 4:** Diagrams illustrating the structure of a crystal lattice and the arrangement of atoms.
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❖ Des données faisant l'objet d'une évaluation critique, présentées dans leur contexte.

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& Atoms (14.528\*)

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cond  
(307)

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- **Propriétés physiques**  
**(72.000 fiches de données)**
- **Données Structure/Diffraction**  
**(195.000 fiches de données)**
- **Diagramme Phase**  
**(33.100 fiches de données)**

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Property	Temperature	Specimen Details	Remark	ISP ID	Reference
$E_{g,dir} = 1.519$ eV	T = 0 K	GaAs	used in the calculation $\Delta_{so} = 0.341$ eV for spin-orbit split $\Gamma_{7V} - \Gamma_{8V}$ $E_1 = 2.969$ eV, calculated $\Gamma_{8c} - \Gamma_{7c}$ $\Delta_1 = 0.171$ eV, calculated $\Gamma_{7c} - \Gamma_{8c}$	P606848	<a href="#">173268. Pfeffe</a>
$E_{g,dir} = 1.42$ eV	T = 300 K	GaAs 600 nm thick GaAs layer clad by Al-Ga-As layers	–	P607170	<a href="#">173513. Elsaes</a>
$E_{g,dir} = 1.51$ eV	–	GaAs	calculated value at $\Gamma$ experimental value from the literature = 1.43 eV	P607223	<a href="#">173476. Alouar</a>
$E_{g,dir} = 1.547$ eV	T = 100 K	GaAs	$E_{v(3/2)} - E_c$ Ev split by tetragonal distortion from $p \parallel [0 0 1]$ $E_{v(3/2)} - E_{v(1/2)} = \hbar/2\pi \Omega_{TO}$ at $p = 0.56$ GPa at 100 K, $E_{v(3/2)} - E_{v(1/2)} = \hbar/2\pi \Omega_{LO}$ at $p = 0.6$ GPa at 100 K $p = 0.6$ GPa	P607243	<a href="#">173434. Cerdei</a>
$E_{g,dir} = 1.420$ eV	T = 300 K	GaAs bulk samples grown by molecular-beam epitaxy 2.05 $\mu\text{m}$ thick layer between two (Al,Ga)As layers	–	P607245	<a href="#">173427. Lee (1</a>

Inorganic Solid Phases

# Cu-O Binary Phase Diagram 30-50 at.% O

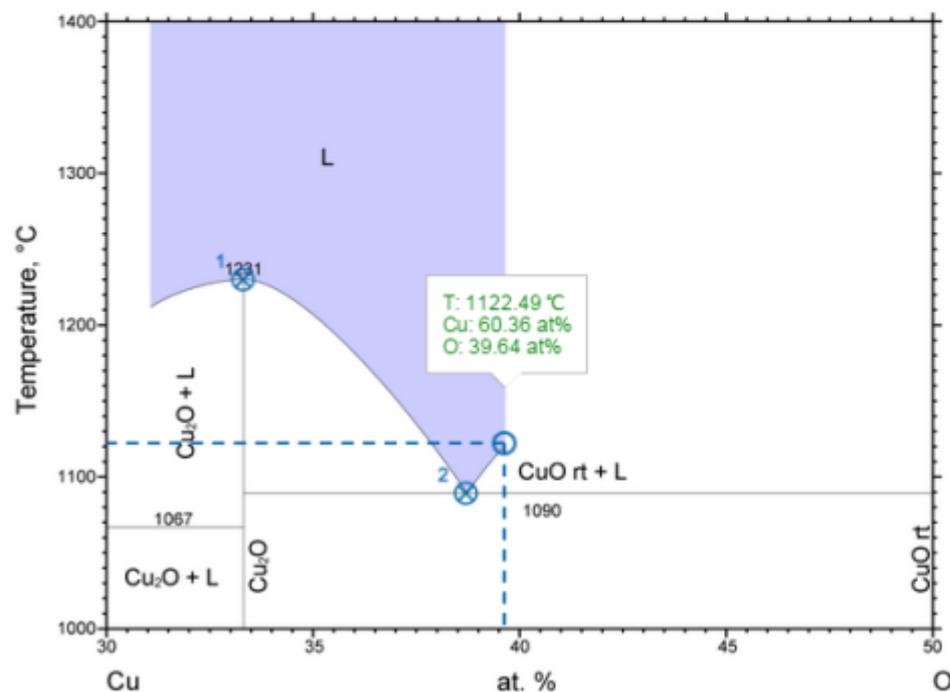
## General Information

Apdic: non-APDIC

Concentration Range: T[1000-1400 °C] vs. O conc.[9.5-22 wt.%]

Investigation Type: experimental

Temperature: 1000...1400 °C (1273...1673 K)



### Recorded Points

**Point 1**

T: 1230.46 °C  
Cu: 66.70 at%  
O: 33.30 at%

**Point 2**

T: 1089.50 °C  
Cu: 61.30 at%  
O: 38.70 at%

water



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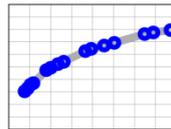
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<input type="checkbox"/> Thermodynamics	2117



## Adsorption Database

### Isothermally reversible physical adsorption

- **Liaisons Matériaux – Surfaces**
- 1000 isotherms
- 160 Adsorbates, 58 Adsorbents
- **Applications: Echange Ionique, Chromatographie, Epuration de l'eau, Couches, Catalyse, Epuration combustible.**

water



More Search Tools ▾

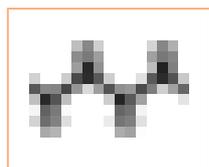
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## Polymer Thermodynamics

**Equilibrium Thermal properties**

- 150 Polymers
- 20,000 Experimental/120,000 Data Points Calculés

La transition vitreuse, chaleurs de fusion, enthalpie, entropie, spectres de vibration, etc.

water



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- **Propriétés thermophysiques des liquides organiques, de l'eau et de 1.225 mélanges binaires.**

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## Hexane Molar Heat Capacity At Constant Pressure

X Close

Thermophysical Properties

### ▼ Molar Heat Capacity at Constant Pressure of Hexane

Filter data by:

Temperature [K]:

210.42 — 423.42



Pressure [kPa]:

84795 — 863800


 \*\*\*\*  
 Hide Filter Tools

Temperature $T$ [K]	Pressure $p$ [kPa]	Molar Heat Capacity $C_p$ [J/(K·mol)]	State	Reference
299.25	612100.000	187.87	Liquid	17. Czarnota (1985)
299.35	134200.000	177.53	Liquid	17. Czarnota (1985)
299.35	231400.000	173.22	Liquid	17. Czarnota (1985)
299.45	334800.000	173.22	Liquid	17. Czarnota (1985)
299.45	425300.000	175.81	Liquid	17. Czarnota (1985)
299.55	519400.000	179.25	Liquid	17. Czarnota (1985)
299.55	710700.000	193.04	Liquid	17. Czarnota (1985)
299.75	863800.000	202.52	Liquid	17. Czarnota (1985)



water

## Refine Your

## Data Sources

- Adsorption
- Inorganic
- Landolt-Handbook
- Polymer
- Substance
- Thermophysical

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- Advanced
- Biophysical
- Electromagnetic
- Geo-Analytical
- Mechanical
- Molecular
- Optics
- Particle, Atomic & Nuclear Physics
- Solid-State
- Thermophysical

## Substance Profile

## Anthracene

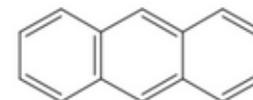
## General information

Molecular Formula: C<sub>14</sub>H<sub>10</sub>

Element System: C-H

CAS-RN: 120-12-7

InChI: InChI=1S/C14H10/c1-2-6-12-10-14-8-4-3-7-13(14)9-11(12)5-1/h1-10H

[View Interactive Structure](#)[3D Interactive Structure](#)[Information on Springer Materials](#)

## Properties frequently appearing with anthracene

- |                            |                                |                                   |
|----------------------------|--------------------------------|-----------------------------------|
| » Crystal Structure (62)   | » Permittivity (40)            | » Diamagnetic Susceptibility (38) |
| » Chemical Shift (51)      | » Effective Mass (38)          | » Band Gap (38)                   |
| » Coupling Constant (46)   | » Magnetic Susceptibility (38) | » Mobility (38)                   |
| » Band Structure (42)      | » Density (38)                 | » Luminescence (38)               |
| » Dielectric Constant (40) | » Hole g-Factor (38)           | » Polarization Degree (37)        |

[» See More](#)[Chemical Properties + Synthesis](#)

Molecular Weight: 178.233

Calculated Log P: 4.424

Rotatable Bonds: 0

H Acceptors: 0

H Donors: 0

Reactions having this substance as a reactant: 1053

Reactions having this substance as a product: 285

Journal articles containing this substance: 1307

Patents containing this substance: 142

Other publications containing this substance: 91

Suppliers: –

Data from SPRESIweb

## Recherche multiple :

- Google-like
- Par tableau périodique des éléments
- Recherche avancée
- Recherche par structure

substance: boron nitride (BN)  
 property: properties of wurtzite-type BN

For crystal structure see Fig. 1

w-BN is gene  
 c-BN. Thus,

Electronic p

band structu

All recent cal

energy gap

$E_{g,ind}(\Gamma-K)$

$E_{g,dir}(\Gamma)$

$E_{g,dir}(M)$

$E_{g,dir}(L)$

$E_{g,dir}(A)$

$E_{g,dir}(H)$

$E_{g,dir}(K)$

structure of

$E_{v,max} - E_{v,min}$

$E_{\sigma}^{\pi}$

$E_{\sigma}$

$E_{g,\sigma\pi}$

References:

63B	Bundy, F. P., Wentorf, R. H.: J. Chem. Phys. 38 (1963) 1144.
68V	Vereshchagin, I. F., Zubova, E. V., Burenkova, I. N., Revin, N. I.: Sov. Phys. Dokl. (English Transl.) 13 (1970) 1144.
72F	Franz, J.: Phys. Rev. 172 (1968) 1144.
79P	Pesitich, M.: Phys. Rev. 180 (1969) 1144.
79S	Sirovica, M.: Phys. Rev. 180 (1969) 1144.
80P	Pesitich, M.: Phys. Rev. 180 (1969) 1144.
82H	Hosono, T.: Phys. Rev. 180 (1969) 1144.
86K1	Kessler, H.: Phys. Rev. 180 (1969) 1144.
86K2	Kolus, J.: Phys. Rev. 180 (1969) 1144.
117	Phys. Rev. 180 (1969) 1144.
87G	Gorbunov, V. I.: Phys. Rev. 180 (1969) 1144.
61	Phys. Rev. 180 (1969) 1144.
88G	Gorbunov, V. I.: Phys. Rev. 180 (1969) 1144.
62	Phys. Rev. 180 (1969) 1144.
90L	Lam, S. C.: Phys. Rev. 180 (1969) 1144.
91X	Xu, J.: Phys. Rev. 180 (1969) 1144.
94E	Edwards, J. J.: Phys. Rev. 180 (1969) 1144.
94G	Gavrilovic, M.: Phys. Rev. 180 (1969) 1144.
94S	Solomon, J. J.: Phys. Rev. 180 (1969) 1144.
94T	Termonia, J.: Phys. Rev. 180 (1969) 1144.
95S	Solomon, J. J.: Phys. Rev. 180 (1969) 1144.
97A	Alber, J.: Phys. Rev. 180 (1969) 1144.
97I	Inaba, T.: Phys. Rev. 180 (1969) 1144.
98S	Solomon, J. J.: Phys. Rev. 180 (1969) 1144.
99T	Tanaka, T.: Phys. Rev. 180 (1969) 1144.
4944	Phys. Rev. 180 (1969) 1144.

Fig. 1. Crystal structures of four modifications of boron nitride: h-BN, r-BN, w-BN, and c-BN.

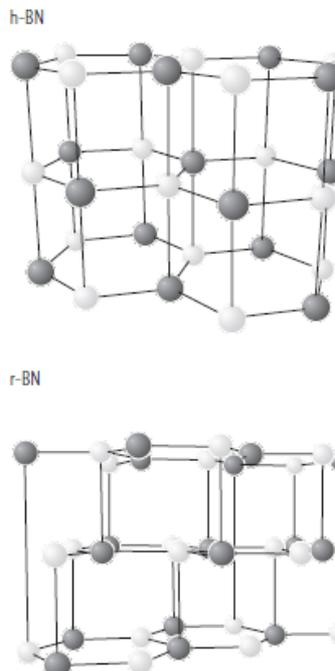
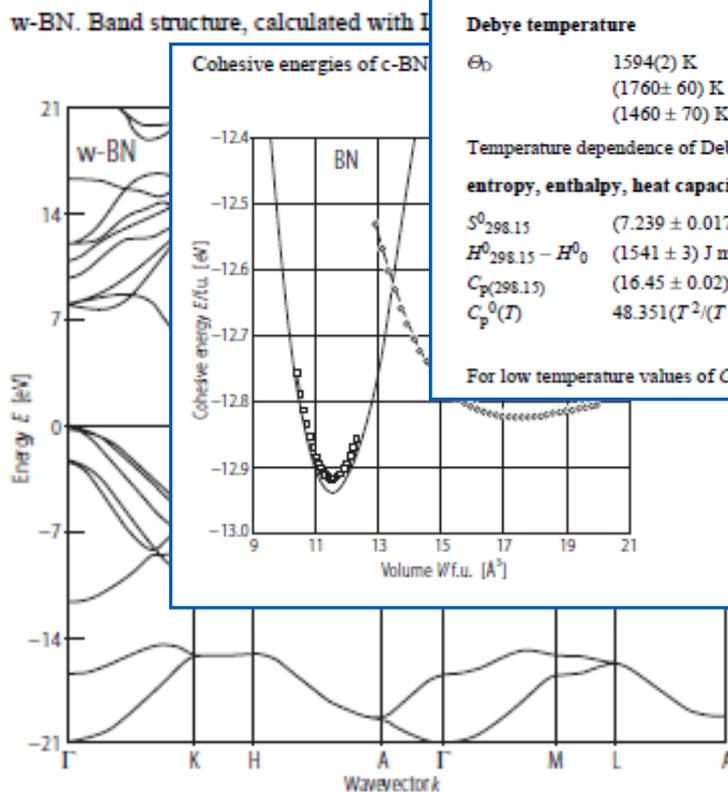


Fig. 2. w-BN. Band structure, calculated with I



Further properties

cohesive energy

see Fig. 9

$\Delta E_0$  0.011 eV/atom difference to  $E_0$  of c-BN

density

$d$  3.473 g cm<sup>-3</sup> standard conditions X-ray diffraction  
 3.49 g cm<sup>-3</sup> at 25 °C  
 3.470 g cm<sup>-3</sup> at 25 °C

Debye temperature

$\Theta_D$  1594(2) K  $T = 300$  K calorimetry  
 (1760 ± 60) K  $T = 50$  K  
 (1460 ± 70) K

Temperature dependence of Debye temperature: see Fig. 10.

entropy, enthalpy, heat capacity

$S^0_{298.15}$  (7.239 ± 0.017) J mol<sup>-1</sup> K<sup>-1</sup>  
 $H^0_{298.15} - H^0_0$  (1541 ± 3) J mol<sup>-1</sup>  
 $C^0_{P(298.15)}$  (16.45 ± 0.02) J mol<sup>-1</sup> K<sup>-1</sup>  
 $C^0_{P(T)}$  48.351(T<sup>2</sup>/(T<sup>2</sup> - 8.369T + 68306.334))<sup>2</sup> J mol<sup>-1</sup> K<sup>-1</sup>  
 $T = 420...980$  K calorimetry

For low temperature values of  $C_p$  see Fig. 11.

Données  
 comparatives

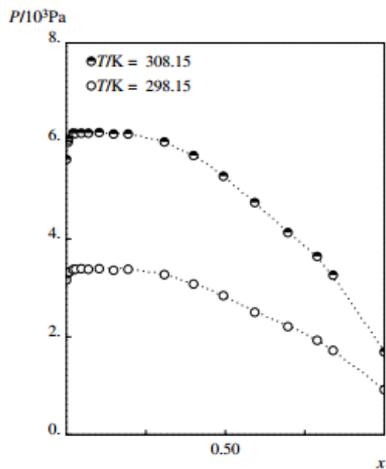
Références Chiffres Schémas Graphiques

## Données "Pures"

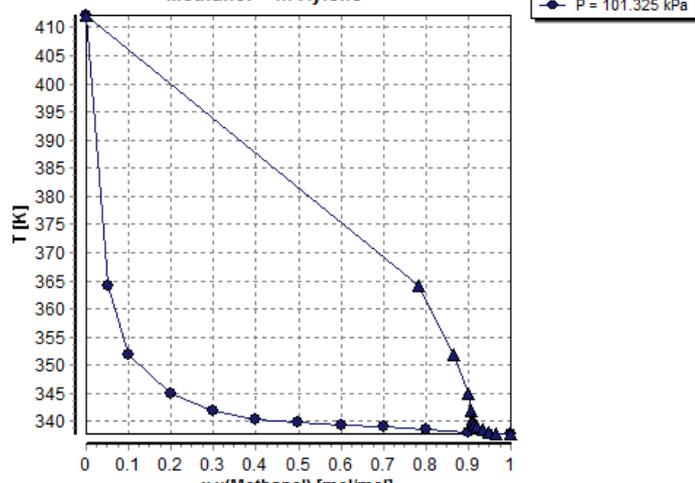
File Number: LB0508

 Components: 1. H<sub>2</sub>O, Water [7732-18-5]  
 2. C<sub>8</sub>H<sub>7</sub>N, 3-Methylpyridine [108-99-6]

T/K = 298.15		T/K = 308.15	
$x_1$	$P/10^3\text{Pa}$	$x_1$	$P/10^3\text{Pa}$
0.000000	3.168	0.000000	5.624
0.006000	3.293	0.006000	5.980
0.007800	3.325	0.007800	6.037
0.021300	3.380	0.021300	6.163
0.028500	3.389	0.028500	6.151
0.047900	3.396	0.047900	6.169
0.068900	3.389	0.068900	6.162
0.103600	3.390	0.103600	6.175
0.149300	3.368	0.149300	6.147
0.194500	3.382	0.194500	6.143
0.308600	3.274	0.308600	5.985
0.401400	3.081	0.401400	5.708
0.494200	2.845	0.494200	5.288
0.592900	2.509	0.592900	4.746
0.698300	2.210	0.698300	4.136
0.790500	1.939	0.790500	3.645
0.839400	1.723	0.839400	3.262
1.000000	0.921	1.000000	1.696

Uncertainties:  $\sigma(x_1) = 0.0005$ ;  $\sigma(P/10^3\text{Pa}) = 0.027$ Abe, J.-I.; Nakanishi, K.; Touhara, H. Thermodynamic properties of aqueous solutions of hydrophilic compounds. 1. Pyridine and methylpyridines. *J. Chem. Thermodyn.* 1978, 10, 483-494

## Methanol + m-Xylene



## m-Xylene

## Vapor Pressure of m-Xylene

## Component

Formula	Molar Mass	CAS Registry Number	Name
C <sub>8</sub> H <sub>10</sub>	106.167	108-38-3	m-Xylene

## Data Table

Download Data Table as CSV File

T [K]	P [kPa]	State	Reference
263.75	0.099	Vapor-Liquid	65
264.75	0.120	Vapor-Liquid	4
266.40	0.137	Vapor-Liquid	4
270.35	0.183	Vapor-Liquid	4
273.15	0.180	Vapor-Liquid	21
273.15	0.228	Vapor-Liquid	3
273.15	0.233	Vapor-Liquid	13
273.47	0.210	Vapor-Liquid	65
278.15	0.312	Vapor-Liquid	27
283.15	0.447	Vapor-Liquid	3
283.15	0.468	Vapor-Liquid	6
283.35	0.433	Vapor-Liquid	65
285.65	0.520	Vapor-Liquid	13
288.15	0.640	Vapor-Liquid	6
293.15	0.833	Vapor-Liquid	3
293.15	0.855	Vapor-Liquid	6
293.29	0.863	Vapor-Liquid	65
298.15	1.060	Vapor-Liquid	39
298.15	1.063	Vapor-Liquid	36
298.15	1.064	Vapor-Liquid	44
298.15	1.100	Vapor-Liquid	27
298.15	1.107	Vapor-Liquid	6
298.15	1.113	Vapor-Liquid	13

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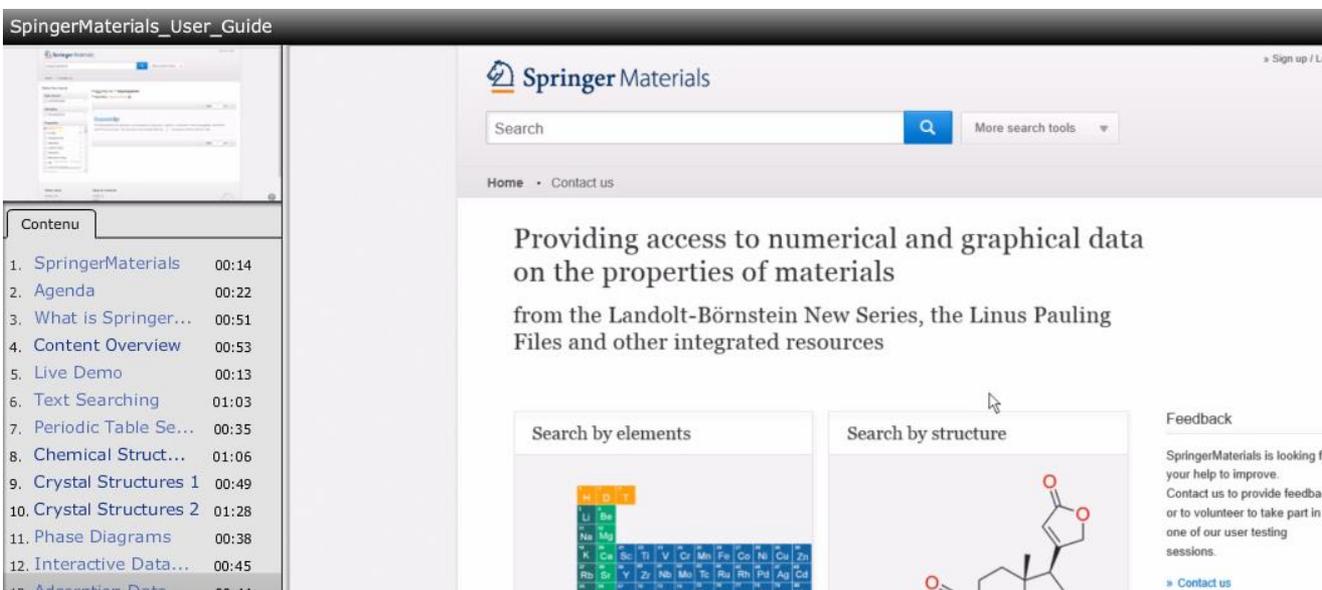
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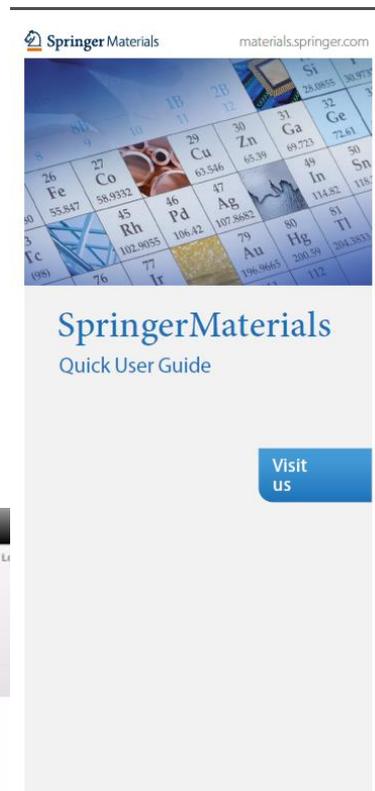
- Lien direct vers le [tutoriel vidéo](https://app.brainshark.com/springer/vu?pi=zllz15uBLjzNfcnz0) :

<https://app.brainshark.com/springer/vu?pi=zllz15uBLjzNfcnz0>



The screenshot shows the SpringerMaterials website interface. At the top, there is a search bar with a magnifying glass icon and a dropdown menu for 'More search tools'. Below the search bar, there are links for 'Home' and 'Contact us'. The main content area features the heading 'Providing access to numerical and graphical data on the properties of materials' followed by a sub-heading 'from the Landolt-Börnstein New Series, the Linus Pauling Files and other integrated resources'. There are two search options: 'Search by elements' with a periodic table icon and 'Search by structure' with a chemical structure icon. A 'Feedback' section is visible on the right, encouraging user input. On the left side, there is a 'Contenu' (Content) table of contents.

Contenu	
1. SpringerMaterials	00:14
2. Agenda	00:22
3. What is Springer...	00:51
4. Content Overview	00:53
5. Live Demo	00:13
6. Text Searching	01:03
7. Periodic Table Se...	00:35
8. Chemical Struct...	01:06
9. Crystal Structures 1	00:49
10. Crystal Structures 2	01:28
11. Phase Diagrams	00:38
12. Interactive Data...	00:45
13. Adaptation Data	00:11



The screenshot shows the cover of the 'SpringerMaterials Quick User Guide'. The top part features a periodic table with various elements highlighted in different colors. Below the periodic table, the text 'SpringerMaterials Quick User Guide' is displayed. A blue button with the text 'Visit us' is located at the bottom right of the cover.

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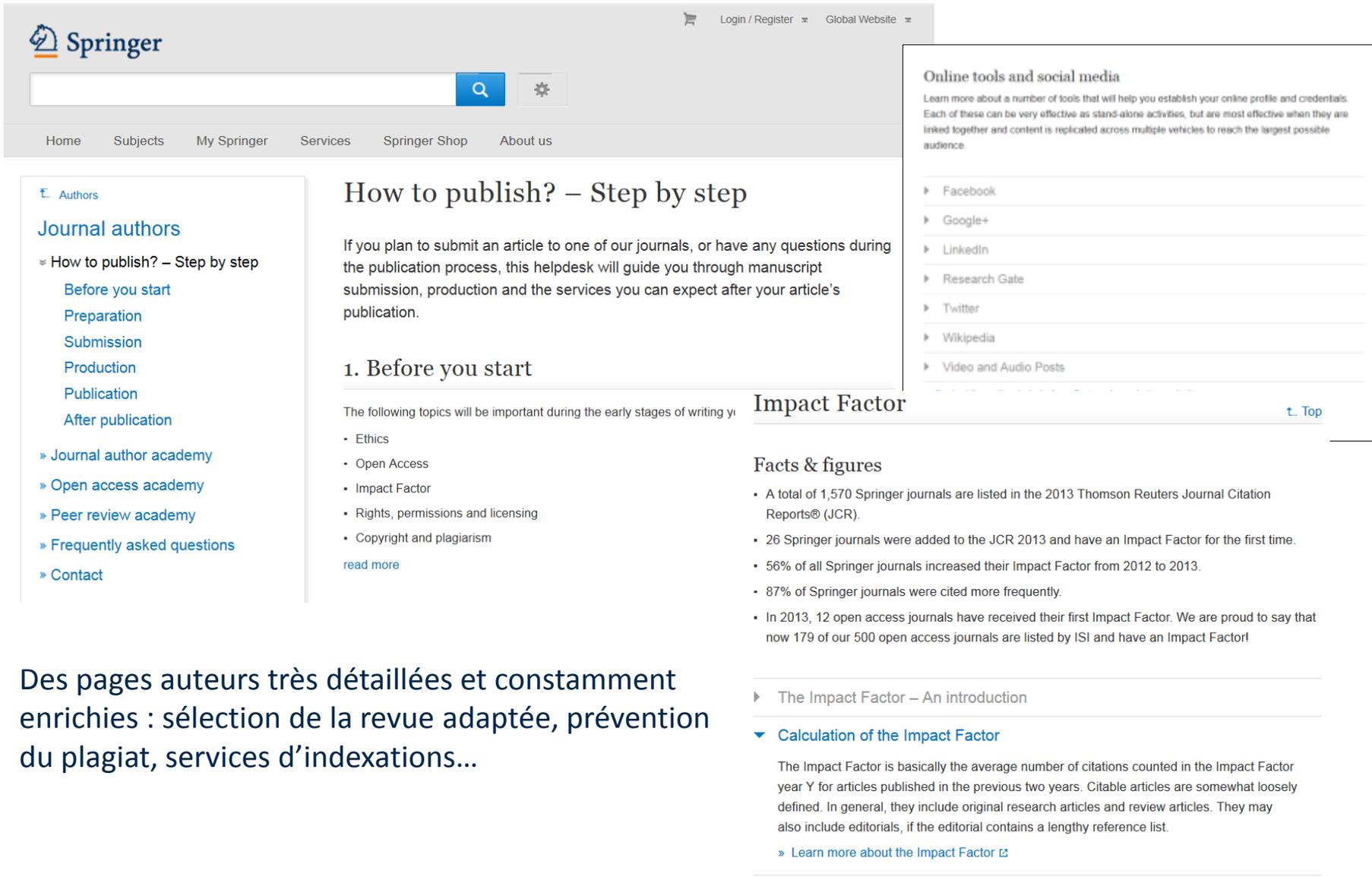
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