




## GUÍA DE USO

### 1. CONTENIDO

SpringerLink es una de las principales plataformas de información electrónica del campo de las ciencias, la técnica y las ciencias sociales. Proporciona acceso a publicaciones de todo tipo: revistas, libros, series de libros, protocolos y obras de referencia.


### 2. BUSCAR

#### Basic Search

Opción apropiada para comenzar una búsqueda simple. Se introduce el término que queremos buscar y se pulsa en el botón 



#### Búsqueda avanzada

Pulsamos en el botón  para acceder a la búsqueda avanzada. Este tipo de búsqueda se reserva para consultas más complejas ya que busca en todos los campos. Permite establecer combinaciones para elaborar la estrategia de búsqueda. Se pueden utilizar los siguientes operadores booleanos:

- AND para recuperar registros que contengan todas las palabras que separa el operador.
- OR para los que contengan cualquiera de los términos buscados.
- NOT para los registros que no contengan la palabra que sigue al operador.
- Truncamiento (\*), que sustituye el final de la palabra.
- Comodín (?) que sustituye un solo carácter.

## Advanced Search

**Find Resources**

with all of the words

with the exact phrase

with at least one of the words

without the words

where the title contains

e.g., "Cassini at Saturn" or Saturn

where the author / editor is

e.g., "H.G.Kennedy" or Elvis Morrison

Show documents published

between  and

Include Preview-Only content

## Búsqueda por disciplinas y tipo de documento

Desde la pantalla de inicio podemos buscar por las diferentes disciplinas y, también podemos buscar por tipología documental: revistas, libros, series de libros, protocolos y obras de referencia.

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

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**Recent Activity**

**What's being read within your organization**

<b>Book/Moiler</b>	<b>1 min ago</b>
Computer-Aided Design of User Interfaces V, 2007	
<b>Original Paper</b>	<b>5 mins ago</b>
The evolution of disease resistance genes Plant Molecular Biology, January 2000	
<b>Original Research Paper</b>	<b>5 mins ago</b>
Biological synthesis of platinum nanoparticles with apoferritin Biotechnology Letters, October 2009	

## Limitar los resultados

Refine Your Search

Content Type	
Article	4.393.766
Chapter	1.212.453
Reference Work Entry	273.168
Book	56.940
Protocol	30.065
Journal	2.641
Book Series	1.669
Reference Work	229

Discipline	
	see all
Medicine	1.031.268
Chemistry	997.397
Life Sciences	800.176
Biomedical Sciences	657.408
Computer Science	604.329

Subdiscipline	
	see all
Physical Chemistry	352.298
Internal Medicine	339.195
Biochemistry & Biophysics	313.090
Biochemistry	308.613
Theoretical Computer Science	250.339

Published In	
	see all
Fresenius' Zeitschrift für analytische Chemie	55.430
Klinische Wochenschrift	33.761
Naturwissenschaften	33.659
Journal of Materials Science	31.526
Encyclopedic Dictionary of Polymers	27.921

Language	
	see all
English	4.989.189
German	838.974
Dutch	59.265
French	47.220
Italian	22.542

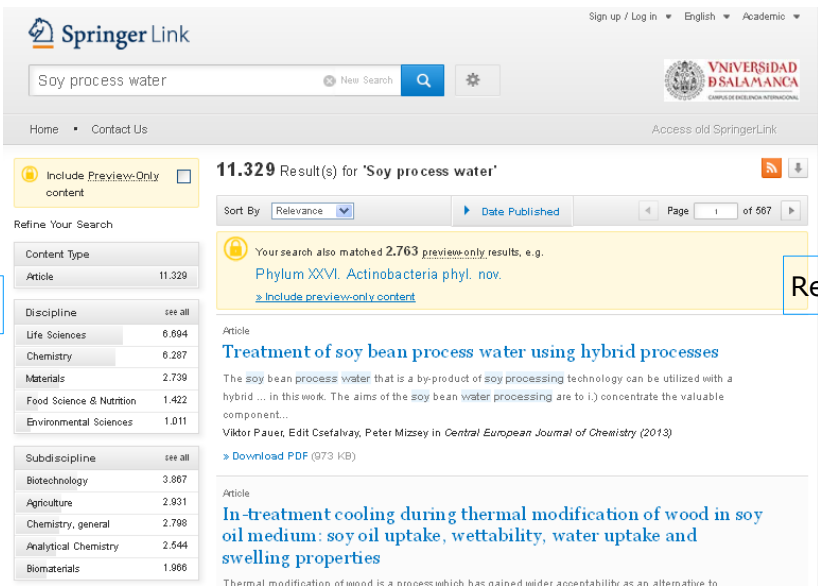
Desde la lista de resultados, se puede modificar y afinar la búsqueda mediante los filtros que se muestran en el bloque izquierdo de la pantalla: por tipo de documento, disciplina, subdisciplina, publicación y lengua.

Si no seleccionamos la opción Preview- Only sólo nos aparecerán los documentos de los títulos que tiene suscritos la Universidad de Salamanca.

Include Preview-Only content

### 3. VER LOS RESULTADOS

En la parte central aparecen los resultados de nuestra búsqueda y a la izquierda podemos localizar diferentes cuadros para filtrar los resultados.

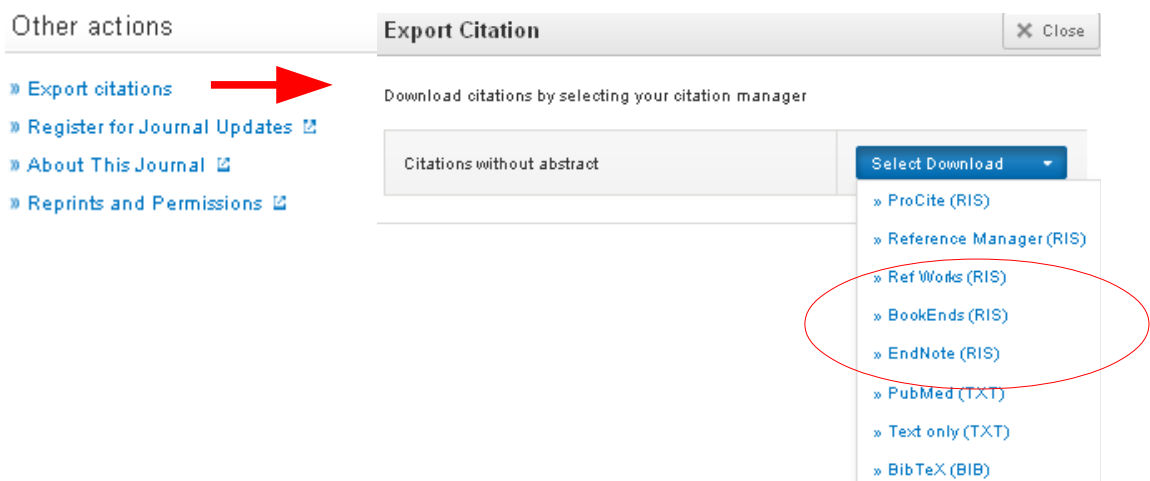


The screenshot shows the Springer Link search interface. The search term is "Soy process water", resulting in 11,329 results. On the left, a "Filtros" (Filters) box highlights the "Refine Your Search" section, which includes filters for Content Type (Article: 11,329), Discipline (Life Sciences: 6,694; Chemistry: 6,287; Materials: 2,739; Food Science & Nutrition: 1,422; Environmental Sciences: 1,011), and Subdiscipline (Biotechnology: 3,867; Agriculture: 2,931; Chemistry, general: 2,798; Analytical Chemistry: 2,544; Biomaterials: 1,966). The "Resultados" (Results) box highlights the first two search results:

- Phylum XXVI. Actinobacteria phyl. nov.** (with a link to include preview-only content)
- Treatment of soy bean process water using hybrid processes** by Váktor Pauer, Edit Csefalvay, Peter Mizsey in *Central European Journal of Chemistry* (2013). Includes a "Download PDF (973 KB)" link.
- In-treatment cooling during thermal modification of wood in soy oil medium: soy oil uptake, wettability, water uptake and swelling properties** (with a link to include preview-only content)

### 4. EXPORTAR REFERENCIAS BIBLIOGRÁFICAS

Las referencias bibliográficas se pueden exportar a diferentes gestores bibliográficos, entre ellos RefWorks y EndNote, pero también en formato RIS.





The screenshot shows the "Export Citation" dialog box. On the left, under "Other actions", the "Export citations" link is highlighted with a red arrow. The main area of the dialog is titled "Export Citation" and contains the text "Download citations by selecting your citation manager". Below this, there is a section for "Citations without abstract" and a "Select Download" dropdown menu. The dropdown menu is open, showing the following options:

- » ProCite (RIS)
- » Reference Manager (RIS)
- » Ref Works (RIS)
- » BookEnds (RIS)
- » EndNote (RIS)
- » PubMed (TXT)
- » Text only (TXT)
- » BibTeX (BIB)

The "Ref Works (RIS)" and "EndNote (RIS)" options are circled in red.

## 5. HERRAMIENTAS



1. **Material suplementario.** Si hay material suplementario disponible en la plataforma será señalado en **Supplementary material**.
2. **Contenido relacionado.** En el caso de que haya documentos relacionados con nuestro artículo serán mostrados en **Related Content**.
3. **Referencias.** Es una lista con los trabajos que ha utilizado el autor para elaborar su artículo. En muchos casos la plataforma proporciona acceso a las obras citadas. Aparecen como **References**.
4. **Sobre este artículo.** Con esta opción podremos conocer los datos de la revista, autores, temas, etc. Se informa como **About this Article**.

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Journal of the American Oil Chemists' Society  
August 2007, Volume 84, Issue 8, pp 769-776

### Chromatographic Analysis of the Reaction of Soy Flour with Formaldehyde and Phenol for Wood Adhesives

Linda Lorenz, Charles R. Frihart, James M. Wescott

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**Abstract**

The desire to make more biobased and lower-cost bonded wood products has led to an interest in replacing some phenol and formaldehyde in wood adhesives with soybean flour. Improved knowledge of the soy protein properties is needed to relate resin chemistry to resin performance before and after wood bonding. To expose the soy protein's functional groups, it needs to be disrupted, with minimal hydrolysis, to maximize its incorporation into the final polymerized adhesive lattice. The best conditions for alkali soy protein disruption were to maintain the temperature below 100 °C and react the soy flour with sodium hydroxide at pH 9–12 for about 1 hour. A gel permeation chromatography procedure was optimized to determine conditions for selectively breaking down the high molecular weight soy protein fragments that contribute to high adhesive viscosity. This method and extraction data were used to evaluate the reaction of the disrupted soy flour protein with formaldehyde and phenol to provide a stable adhesive. The results were used to develop more economical adhesives that are ideally suited for the face section of oriented strandboard.

Within this Article:

- » Introduction
- » Experimental Procedures
- » Results and Discussion
- » References
- » References

Other actions

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- » Reprints and Permissions 

1

» Related Content

2


» Supplementary Material (0)

3

» References (13)

4

» About this Article

<p><b>Title</b> Chromatographic Analysis of the Reaction of Soy Flour with Formaldehyde and Phenol for Wood Adhesives</p> <hr/> <p><b>Journal</b> » Journal of the American Oil Chemists' Society » Volume 84, Issue 8, pp 769-776</p> <hr/> <p><b>Cover Date</b> 2007-08-01</p> <hr/> <p><b>DOI</b> 10.1007/s11746-007-1097-6</p>	<p><b>Topics</b></p> <ul style="list-style-type: none"> <li>» Agriculture</li> <li>» Biomaterials</li> <li>» Biotechnology</li> <li>» Chemistry/Food Science, general</li> <li>» Analytical Chemistry</li> <li>» Industrial Chemistry/Chemical Engineering</li> </ul> <hr/> <p><b>Keywords</b> GPC HPLC Phenol-formaldehyde Soy flour Wood adhesive</p>	<p><b>Authors</b> Linda Lorenz <sup>(1)</sup> Charles R. Frihart <sup>(2)</sup> James M. Wescott <sup>(2)</sup></p> <hr/> <p><b>Author Affiliations</b> 1. Forest Products Laboratory, USDA Forest Service, One Gifford Pinchot Drive, Madison, WI, 53726, USA 2. Heartland Resource Technologies, Waunakee, WI, 53597, USA</p>
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