

# Current Contents Connect<sup>®</sup> Quick Reference Card

Search or browse over 8,800 journals covered across seven multidisciplinary editions and two collections. The editions and collections can be searched independently or in combination, depending on your institution's subscriptions. Current Contents Connect is updated daily and provides access to all significant items published in journals, including articles, review articles, news items, letters and editorials.

## 1 Search

Search by Topic, Author, Group Author, Publication Name, and Address. Use the drop down menu for each search box to choose the area of your search. You can limit your search by publication year, original language of publication or document type.

- 2 Use the drop down menu to change the relationship between each search field to AND, OR, or NOT.
- 3 Add additional fields for a more complex search.
- 4 Change the time frame and data limits of your search.

### SEARCH OPERATORS

Search using AND, OR, NOT, and SAME (same sentence) to create logical search statements. Nest search operators inside parentheses. Search exact or truncated phrases inside quotations marks.

### TRUNCATION SYMBOLS

Use truncation to retrieve plurals and variant spellings.

- \* = zero to many characters
- ? = one character
- \$ = zero or one character

The screenshot shows the ISI Web of Knowledge search interface. At the top, there are navigation links: Sign In, My EndNote Web, My ResearcherID, My Citation Alerts, My Journal List, My Saved Searches, Log Out, and Help. Below this is the 'Current Contents Connect' header with a 'Take the next step' icon. The main search area is titled 'Current Contents Connect®' and contains a search form with the following elements:

- 1** Search for: A search box containing 'biodiesel and produc\*' with a dropdown menu set to 'Topic' and a search icon.
- 2** AND: A dropdown menu set to 'AND' with a search icon.
- 3** Add Another Field >>: A button to add more search criteria.
- 4** Current Limits: [Hide Limits and Settings] (To save these permanently, sign in or register).

Below the search form, there are sections for 'Timespan' (All Years, From 1998 to 2008), 'Current Contents Editions' (with checkboxes for Agriculture, Social & Behavioral Sciences, Clinical Medicine, Life Sciences, Physical, Chemical & Earth Sciences, Engineering, Computing & Technology, and Arts & Humanities), and 'Current Contents Collections' (with checkboxes for Electronics & Telecommunications Collection and Business Collection).

On the right side of the interface, there are several informational sections:

- Discover Current Contents Connect:** Cover-to-cover journal coverage, plus evaluated websites.
  - 8,800 journals
  - Over 7,000 relevant websites (via Current Web Contents)
  - Want to know more?
  - Training in multiple languages
- Customize Your Experience:** Sign In | Register
  - Save and manage your references online with EndNote Web – freely available and fully integrated.
  - Save and run searches
  - Create alerts and RSS feeds
  - Choose your start page
  - Want to know more?
- My ResearcherID:**
  - What is ResearcherID?
  - Sign In to ISI Web of Knowledge to get your ResearcherID.
- Further Information:**
  - What's New?
  - Training and Support
  - Help Desk
  - Provide Feedback
  - Search the Web with Thomson Scientific WebPlus



THOMSON REUTERS

SEARCH

NAVIGATE

REFINE

PERSONALIZE

SAVE

# Full Record

## 1 Titles

The full title is indexed and searched in a Topic search. Foreign language titles are translated into English.

## 2 Authors

All authors are indexed. Search using last name and up to five initials.

## 3 Source

Source titles are searchable. Click on the source title to move to the Table of Contents for this issue of the journal. Search using the full title or use the Search Aid on the Search page to select a title.

## 4 Abstract

All author abstracts are indexed and searched in a Topic search.

## 5 Author Keywords

All author keywords are indexed and searched in a Topic search.

## 6 KeyWords Plus

KeyWords Plus® are unique to Web of Science and consist of words and phrases harvested from the titles of the cited articles. KeyWords Plus are searched in a Topic search.

## 7 Addresses

All author addresses are indexed and searchable. Reprint authors are identified and their e-mail addresses are provided when available.

Search | Advanced Search | Search History | Browse Journals | Marked List (3)

Current Contents Connect®

<< Back to results list | Record 18 of 35 | Record from Current Contents Connect®

1 **Properties of a potential biofuel obtained from soybean oil by transmethylation with dimethyl carbonate**

Full Text →Links | Print | E-mail | Add to Marked List | Save to EndNote® Web | more options

Holdings [Go]

2 **Author(s):** Fabbri, D (Fabbri, Daniele), Bevoni, V (Bevoni, Valerio), Notari, M (Notari, Marcello), Rivetti, F (Rivetti, Franco)

3 **Source:** FUEL Volume: 86 Issue: 5-6 Pages: 690-697 Published: MAR-APR 2007

4 **Abstract:** Biodiesel is a fuel generally consisting of a mixture of fatty acid methyl esters (FAMES) which is used in alternative or in combination with petroleum diesel for its environmental benefits. Biodiesel is conveniently manufactured from vegetable oils by transesterification of triglycerides with methanol. However, the process brings about the concurrent formation of glycerol, which may become an oversupplied chemical if biodiesel production keeps growing. A novel biodiesel-like material (abbreviated as DMC-BioD) was developed by reacting soybean oil with dimethyl carbonate (DMC), which avoided the co-production of glycerol. The main difference between DMC-BioD and biodiesel produced from vegetable oil and methanol (MeOH-biodiesel) was the presence of fatty acid glycerol carbonate monoesters (FAGCs) in addition to FAMES. In the following study, details regarding synthesis and composition of DMC-BioD are provided along with physical properties relevant for its use as a fuel. In addition, the production of potential pyrogenic contaminants was investigated by analytical pyrolysis and compared with those from MeOH-biodiesel, and the model compounds tristearin, triolein, trilinolein and oleic acid glycerol carbonate ester (OAGC). The presence of FAGCs influenced both fuel and flow properties, while the distribution of main pyrogenic compounds, including polycyclic aromatic hydrocarbons (PAHs), was little affected. Benefits and drawbacks of DMC as a candidate transmethylation reagent for producing biofuel from renewable resources and alternative co-products (glycerol carbonate and glycerol dicarbonate) are discussed. (c) 2006 Elsevier Ltd. All rights reserved.

**Document Type:** Article  
**Language:** English

5 **Author Keywords:** biodiesel; glycerol carbonate; pyrolysis

6 **KeyWords Plus:** BIODIESEL PRODUCTION; VEGETABLE-OIL; PYROLYSIS; COMBUSTION; EMISSIONS; TRANSESTERIFICATION; HYDROCARBONS; FUELS

7 **Addresses:** Fabbri, D (reprint author), Univ Bologna, Chem Lab, CIRSA, Via S Alberto 163, I-48100 Ravenna, Italy  
Univ Bologna, Chem Lab, CIRSA, I-48100 Ravenna, Italy  
Ist Guido Donegani SpA, Polimeri Europa, I-28100 Novara, Italy

**E-mail Addresses:** dani.fabbri@unibo.it

**Publisher:** ELSEVIER SCI LTD, THE BOULEVARD, LANGFORD KEENE, OXFORD, ENGLAND, http://www.elsevier.com

**Discipline:** CHEMISTRY [CurrentWeb Contents](#)  
CHEMICAL ENGINEERING [CurrentWeb Contents](#)

**CC Editions/Collections:** Physical, Chemical & Earth Sciences

**Cited by: 4**  
This article has been cited 4 times (from Web of Science).  
Sun FB, Chen HZ Evaluation of enzymatic hydrolysis of wheat straw pretreated by atmospheric glycerol autocatalysis JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY 11 1039-1044 NOV  
Georgogianni KG, Kontominas MG, Tegou E, et al. Biodiesel production: Reaction and process parameters of alkali-catalyzed transesterification of waste frying oils ENERGY & FUELS 5 3023-3027 SEP-OCT  
Kjenski J, Rozycki K, Lipkowski AW, et al. New ester biofuel Glycerol (R) PRZEMYSŁ CHEMICZNY 4 269-272 APR

[ view all 4 citing articles ]  
[Create Citation Alert](#)

**Related Records:**  
Find similar records based on shared references (from Web of Science).  
[ view related records ]

**References: 34**  
View the bibliography of this record (from Web of Science).

**Information**  
national's impact factor (in on Reports)

**rection**  
to improve the quality of suggesting corrections, form.

If your institution also has a subscription to *Web of Science*, you may see links to **Citing Articles, Cited References and Related Records.**

Click **Create Citation Alert** to be notified when the article is cited by any new Web of Science record. Citation Alerts will remain active for one year, but can be renewed at any time.

# Browse

## 1 Table of Contents

Tables of Contents are records created for all journals indexed for *Current Contents Connect*. Click the **Browse Journals** link to browse all journals by Edition, Discipline and Title.

## 2 CCC Editions

The seven editions and two collections indexed for *Current Contents Connect* are:

- Life Sciences (1398 journals)
- Clinical Medicine (1358 journals)
- Social and Behavioral Sciences (1850 journals)
- Agriculture, Biology & Environmental Sciences (1160 journals)
- Engineering, Computing & Technology (1232 journals)
- Physical, Chemical & Earth Sciences (1262 journals)
- Arts and Humanities (1148 journals)
- Business Collection (235 journals)
- Electronics & Telecommunications Collection (195 journals)

Each of the editions is further divided into as many as 26 discipline areas. Journals can be indexed in multiple editions.

[<< Leave Browse](#)

### Current Contents Connect®

#### Browse Journals

[Browse Home](#) > [Disciplines](#) > [Journals](#) > [Issues](#) > [Table of Contents](#)

Selected Edition: **PHYSICAL, CHEMICAL & EARTH SCIENCES**

Selected Discipline: **CHEMISTRY**

IDS # 141UY

**FUEL**

**86 (5-6): MAR-APR 2007**

----- ARTICLES -----

Lo Monaco, S; Lopez, L; Rojas, H, et al.

[Applications of electron microprobe analysis \(EPMA\) in the study of Venezuelan source rocks: La Luna and Querecua](#)  
FUEL, 86 (5-6): 641-648 MAR-APR 2007

Lee, CE; Hwang, CH

[An experimental study on the flame stability of LFG and LFG-mixed fuels](#)  
FUEL, 86 (5-6): 649-655 MAR-APR 2007

Andersson, K; Johnsson, F

[Flame and radiation characteristics of gas-fired O-2/CO2 combustion](#)  
FUEL, 86 (5-6): 656-668 MAR-APR 2007

Reinik, J; Heinmaa, I; Mikkola, JP, et al.

[Hydrothermal alkaline treatment of oil shale ash for synthesis of tobermorites](#)  
FUEL, 86 (5-6): 669-676 MAR-APR 2007

Macias-Perez, MC; Bueno-Lopez, A; Lillo-Rodenas, MA, et al.

[SO2 retention on CaO/activated carbon sorbents. Part I: Importance of calcium loading and dispersion](#)  
FUEL, 86 (5-6): 677-683 MAR-APR 2007

Kumabe, K; Hanaoka, T; Fujimoto, S, et al.

[Co-gasification of woody biomass and coal with air and steam](#)  
FUEL, 86 (5-6): 684-689 MAR-APR 2007

Fabbri, D; Bevon, V; Notari, M, et al.

[Properties of a potential biofuel obtained from soybean oil by transmethylation with dimethyl carbonate](#)  
FUEL, 86 (5-6): 690-697 MAR-APR 2007

Ga-Houreaud, L; Torrente, C; Galan, MA

[Study of the solubility of kerogen from oil shales](#)  
FUEL, 86 (5-6): 698-705 MAR-APR 2007

Click directly on the title to move to the Full Record for any article in a journal issue's Table of Contents.

# Refine and Analyze

## 1 Refine your Results

Use Refine to mine a set of up to 100,000 results to find the top 100 Subject Categories, Source Titles, Document Types, Authors, Publication Years, Countries, Institutions, Language and Discipline.

## 2 Sort Results

Sort up to 100,000 records by

- Latest Date (default)
- Relevance
- Publication Year
- Source Title
- First Author

## 3 Analyze Results

Like Refine, with Analyze you can mine a set of up to 100,000 results. With Analyze you can output the results to Microsoft® Excel to create your own graphs.

## 4 Output Records or Save to Endnote Web

Output records, add to your Marked List, or save to EndNote Web. Quickly print, e-mail or save to a temporary marked list (500 records maximum), or save permanently to EndNote Web (10,000 max). Click "more options" to save a range of records, adjust your saved fields, or export directly to ResearchSoft reference software (EndNote, Reference Manager, and ProCite) you have installed on your desktop.

The screenshot displays the ISI Web of Knowledge interface. At the top, it shows the user is signed in and provides navigation links for databases, search, and account management. The main search area shows the current topic as 'biodiesel and product' with a timespan of 'All Years' across various databases. The results are sorted by 'Latest Date' and show 835 records on page 1 of 84. A list of six search results is displayed, each with a title, author(s), and source information. On the left, a 'Refine Results' sidebar allows filtering by subject areas (e.g., Engineering, Chemistry, Energy & Fuels), document types (e.g., Article, Review), authors, source titles (e.g., Journal of the American Oil Chemists Society), and publication years. At the bottom, an 'Output Records' section provides options for selecting records to print, email, or save to EndNote Web, with a 'Save To...' dropdown menu for selecting reference software.

# Personalize

## 1 Create Personal Profile

Any *Current Contents Connect* user can create a personal ISI Web of Knowledge profile to take advantage of powerful personalization options. Creating a personal profile allows you to save:

- Unlimited saved searches and search alerts
- Unlimited citation alerts
- An **Endnote Web** library of up to 10,000 references

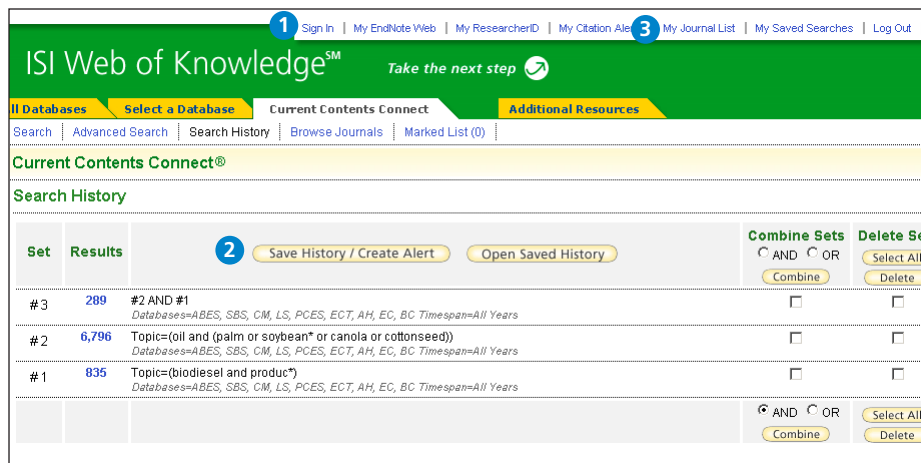
## 2 Save Searches and Create Search Alerts

Click **Search History** to view your search sets and create set combinations. Save up to 20 sets as a Search History or an Alert. Alerts will be based on the last search statement in your history. Alerts will remain active for 24 weeks but can be renewed at any time. Click "My Saved Searches" and "My Citation Alerts" to manage and renew your alerts. If an alert expires, it will remain as a saved search strategy in your personal profile until you delete it. Searches can also be saved as RSS feeds; simply click the **XML** icon after clicking Save History.

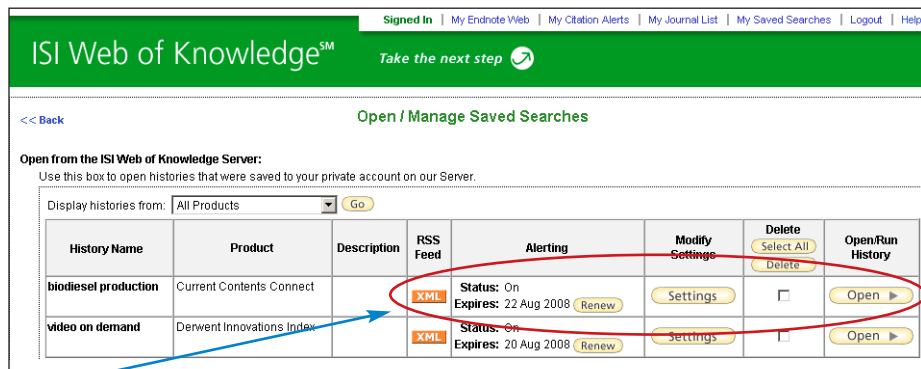
## 3 Table of Contents Alerts

You may set up unlimited Table of Contents alerts that will email you the table of contents of a new journal issue when it is available in Current Contents Connect. Access this feature by clicking "My Journal List" at the top of the page.

- Click "Renew" to set a new expiration date for any alert.
- Click "Settings" to turn alerts on or off.
- Click "Open" to run the saved search
- Click XML to set an RSS Feed



The screenshot shows the 'Current Contents Connect' Search History page. At the top, there are navigation links for 'Sign In', 'My EndNote Web', 'My ResearcherID', 'My Citation Alerts', 'My Journal List', 'My Saved Searches', and 'Log Out'. The main header includes 'ISI Web of Knowledge' and 'Take the next step'. Below the header, there are tabs for 'All Databases', 'Select a Database', 'Current Contents Connect', and 'Additional Resources'. The 'Search History' section contains a table with columns for 'Set', 'Results', and search details. Three search sets are listed: #3 (289 results), #2 (6,796 results), and #1 (835 results). Each row includes a 'Save History / Create Alert' button, an 'Open Saved History' button, and options to 'Combine Sets' (AND/OR) and 'Delete Set' (Select All/Delete).



The screenshot shows the 'Open / Manage Saved Searches' page. It includes navigation links for 'Signed In', 'My Endnote Web', 'My Citation Alerts', 'My Journal List', 'My Saved Searches', 'Logout', and 'Help'. The main header includes 'ISI Web of Knowledge' and 'Take the next step'. Below the header, there is a '<< Back' link and the title 'Open / Manage Saved Searches'. A note states: 'Open from the ISI Web of Knowledge Server: Use this box to open histories that were saved to your private account on our Server.' Below this, there is a dropdown menu for 'Display histories from: All Products' and a 'Go' button. The main content is a table with columns: 'History Name', 'Product', 'Description', 'RSS Feed', 'Alerting', 'Modify Settings', 'Delete', and 'Open/Run History'. Two rows are shown: 'biodiesel production' and 'video on demand'. The 'RSS Feed' column contains 'XML' icons. The 'Alerting' column shows 'Status: On' and 'Expires: 22 Aug 2008' with a 'Renew' button. The 'Modify Settings' column has a 'Settings' button. The 'Delete' column has 'Select All' and 'Delete' buttons. The 'Open/Run History' column has an 'Open' button with a right-pointing arrow. A red oval highlights the 'XML', 'Status: On', 'Expires: 22 Aug 2008', 'Renew', 'Settings', and 'Open' elements for the first row. A blue arrow points from the 'XML' icon to the 'video on demand' row.

# Manage

## EndNote Web

Save up to 10,000 records in your EndNote Web library. EndNote Web also allows you to add and format references in a document and search other online databases and library catalogs. References imported from ISI Web of Knowledge resources will remain marked with an EndNote Web icon and you can link back to the full record and view up-to-date citation information. EndNote Web also allows you to add and format citations to documents you are writing and perform searches of other online databases. Once you have created your EndNote Web library you can access your library at any time, either from your Web of Knowledge profile or by going to [www.myendnoteweb.com](http://www.myendnoteweb.com) and using your ISI Web of Knowledge user ID and password.

## Getting Help

Click the **Help** button on any page to get detailed help on features as well as detailed search tips and examples.

Contact the Technical Help Desk for your region at:  
[scientific.thomsonreuters.com/support/techsupport](http://scientific.thomsonreuters.com/support/techsupport)

Contact the education team at:  
[scientific.thomsonreuters.com/support/training/contacttraining/](http://scientific.thomsonreuters.com/support/training/contacttraining/)

To view a recorded training module, visit:  
[scientific.thomsonreuters.com/support/recorded-training/](http://scientific.thomsonreuters.com/support/recorded-training/)

Interested in more tips and tricks?  
For ongoing Web-based training, visit: [scientific.thomsonreuters.com/support/training/webtraining](http://scientific.thomsonreuters.com/support/training/webtraining)

The screenshot displays the EndNote Web interface. At the top, there is a navigation bar with the EndNote Web logo and the text "provided by ISI Web of Knowledge". Below the logo, there are tabs for "My References", "Collect", "Organize", "Format", "Options", and "Administrator Tools". A "Welcome, Liz" message and "Log Out" link are visible in the top right corner. The main content area is divided into two sections: "Quick Search" and "All My References".

**Quick Search**

Search for:   
in:

**My References**

**All My References (80)**

- biodiesel (10)
- climate change (27)
- farming (7)
- fuel cell (4)
- textile (13)
- ukraine (17)
- [Unfiled] (2)
- Quick List (0)

You have shared this group.

**Groups Shared by Others**

- climate
- DeMuth

**All My References**

All  Page

<input type="checkbox"/>	Author	Year	Title	Edit
<input type="checkbox"/>	Abrams, L.	2006	Knitting, autonomy and identity: The role of hand-knitting in the construction of women's sense of self in an island community, Shetland, c. 1850-2000 Textile History ISI Web of Knowledge <sup>SM</sup> → Source Record, Related Records, Times Cited: 0	Edit
<input type="checkbox"/>	Bauer, E.	2008	Climatic response to anthropogenic sulphate aerosols versus well-mixed greenhouse gases from 1850 to 2000 AD in CLIMBER-2 Tellus Series B-Chemical and Physical Meteorology ISI Web of Knowledge <sup>SM</sup> → Source Record, Related Records, Times Cited: 0	Edit
<input type="checkbox"/>	Berchmans, H. J.	2008	Biodiesel production from crude <i>Jatropha curcas</i> L. seed oil with a high content of free fatty acids Bioresource Technology ISI Web of Knowledge <sup>SM</sup> → Source Record	Edit
<input type="checkbox"/>	Bohannon, J.	2008	Climate change - The big thaw reaches Mongolia's Pristine North Science ISI Web of Knowledge <sup>SM</sup> → Source Record, Related Records, Times Cited: 0	Edit
<input type="checkbox"/>	Boysen, B. M.	2006	Soviet legacy and Ukrainian nation. The museum of the history of the Zaporog Cossacks on the island of Chortycja Osteuropa ISI Web of Knowledge <sup>SM</sup> → Source Record, Related Records, Times Cited: 0	Edit