

FSTA[®] on Web of Science

The food science resource

Food Science & Technology Abstracts (FSTA) is the definitive food and beverage R&D database, providing thorough coverage of pure and applied research in food science, food technology, and food-related human nutrition. FSTA is produced by IFIS, the leading international information provider and distributor of food and drink related information – constantly monitoring developments in the areas of food science, food technology and nutrition.

An established, comprehensive and food science centric information resource, FSTA has been created by IFIS' team of expert scientists, who evaluate, hand-pick and summarize source material to create high quality records of direct relevance and high scientific integrity. FSTA collates and reports the latest developments and research findings in all sciences relevant to food, beverages and nutrition.

Nearly every discovery is influenced by earlier research, both in its subject area and in related fields, and a publication can have significant influence and impact on other research after it has been published. When connected to the multidisciplinary citations on the Web of Science platform, FSTA links you to a full citation network to accurately and confidently connect you to the highest quality multidisciplinary research.

FSTA coverage on Web of Science:

- ✓ International content
- ✓ Over 1.5 million records
- ✓ 1,100+ current journals
- ✓ Coverage back to 1969
- ✓ A full range of disciplines offers insights into a wide range of food-related disciplines, such as biotechnology, microbiology, agronomy, public health, food safety and veterinary medicine.
- ✓ Specialized indexing - Use the FSTA Thesaurus for more accurate retrieval. This collection of more than 13,000 keywords continually adds terms to keep pace with new technologies.

Why use FSTA on Web of Science?

Broader citation connections

Only on *Web of Science* can you track citation impact for FSTA's indexed articles and easily navigate to all citing articles across the *Web of Science* platform.

Highly Cited and Hot Papers

Highly Cited Papers (top 1%) and Hot Papers can be identified within other databases, when they are also indexed in the *Web of Science Core Collection*.

All Database searching

Run an 'All Database' search to include FSTA alongside your institution's full Web of Science subscription to see everything in your subject specialty and beyond.

Access trusted full text

Easily identify, filter and access Open Access articles in FSTA, and get one-click access to Open Access and subscribed articles with *Kopernio*.

Visual results analysis

Explore trends and gain unique insights into your search results with Web of Science's intuitive visual analysis tool.

Quick Reference Guide

Basic search

Choose a search option:
Basic Search
Advanced Search

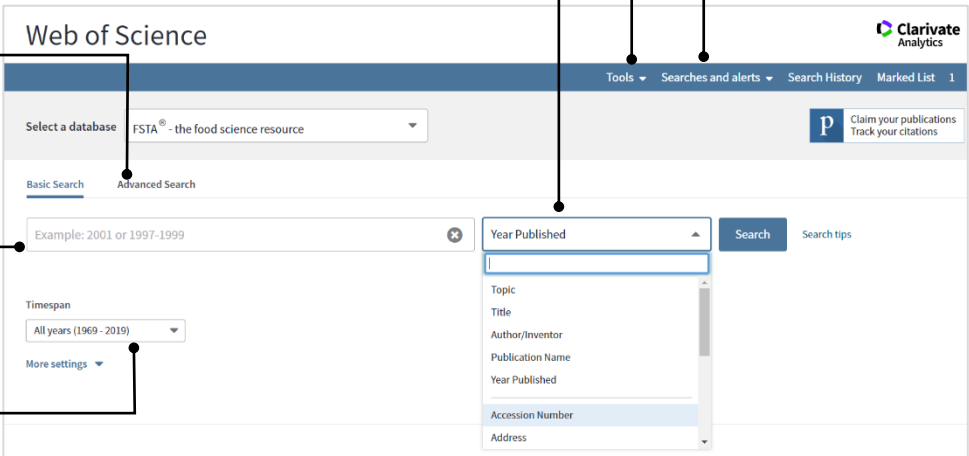
Select Your Search Field
Use the drop down to select your search field.
Search by Topic, Author, Publication Name, etc.

Use Tools to move to your online accounts:
EndNote, Kopernio or Publons.

Use Searches and Alerts to move to your Saved Searches

Search
Combine words and phrases to search across the source records in FSTA.

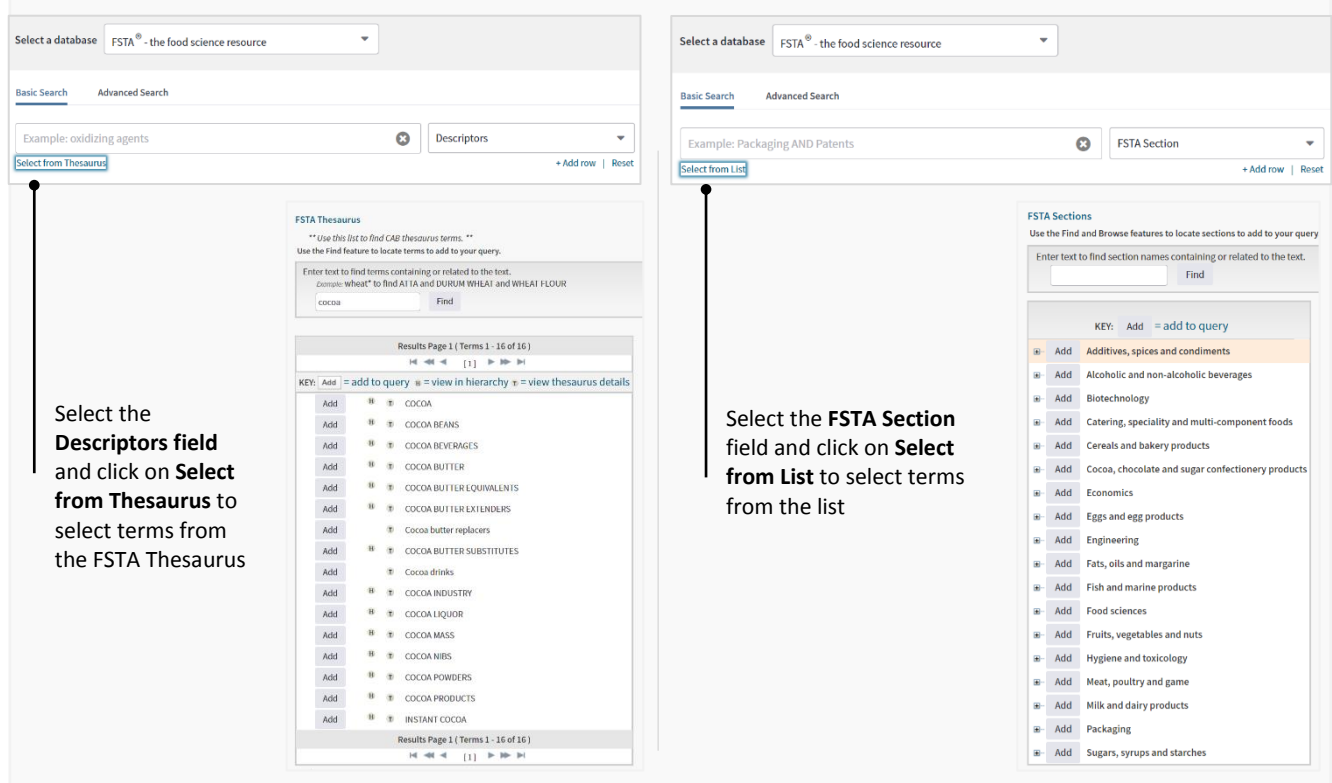
Limit Your Search
Limit the dates which you search.



Searching the FSTA Thesaurus

Select the Descriptors field and click on Select from Thesaurus to select terms from the FSTA Thesaurus

Select the FSTA Section field and click on Select from List to select terms from the list



Search results

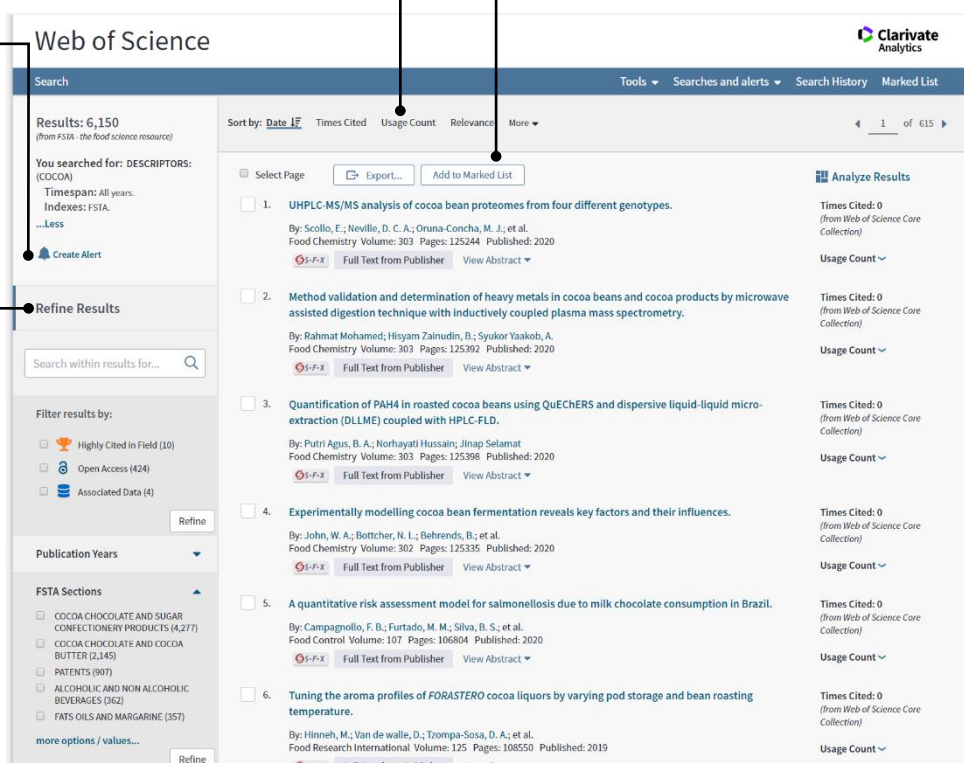
Click **Create Alert** to save the search statement as a search alert.

Refine your results
Mine your full set of results to find Hot & Highly Cited Papers, Associated Data, Open Access records, Publication Years, and more. Click **View All Options** to see the complete list of fields.

Open Access
Limit search results to all items identified as **Open Access** (DOAJ Gold, Other Gold, Bronze, Green Published, Green Accepted) and access to article-level OA versions.

Sort results
by Publication Date (default), Times Cited, Usage Count, Relevance, Recently Added, First Author or Source Title.

Output search results
Export to your *EndNote* library, send to *InCites* for analysis, save as text, email, etc. Save up to 50 Marked Lists containing up to 50,000 records per list.



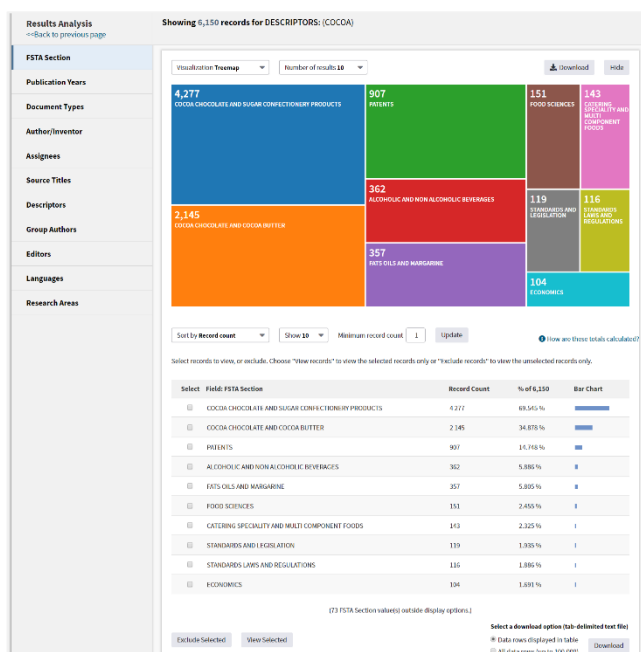
Analyze Results

This function allows you to group and rank records in a results set by extracting data values from a variety of fields. Use this function to find the most prevalent authors in a particular field of study or generate a list of source titles ranked by record count based on your search query.

The **visualization** at the top of the page shows up to 25 values. You can download a JPG image of the visualization.

The **data table** below the visualization shows up to 500 values. You can also change the sort order and set the Minimum record count.

You can **save the results** that appear in the results table (up to 200,000 rows). Click the **Download** button to download the file, named "analyze.txt".



| Select | Field: FSTA Section | Record Count | % of 6,150 | Bar Chart |
|--------------------------|--|--------------|------------|-----------|
| <input type="checkbox"/> | COCOA CHOCOLATE AND SUGAR CONFECTIONERY PRODUCTS | 4,277 | 69.54% | |
| <input type="checkbox"/> | COCOA CHOCOLATE AND COCOA BUTTER | 2,145 | 34.87% | |
| <input type="checkbox"/> | PATENTS | 907 | 14.74% | |
| <input type="checkbox"/> | ALCOHOLIC AND NON-ALCOHOLIC BEVERAGES | 362 | 5.88% | |
| <input type="checkbox"/> | FATS OILS AND MARGARINE | 357 | 5.80% | |
| <input type="checkbox"/> | FOOD SCIENCES | 151 | 2.45% | |
| <input type="checkbox"/> | CATERING SPECIALTY AND MULTI COMPONENT FOODS | 143 | 2.32% | |
| <input type="checkbox"/> | STANDARDS AND REGULATION | 119 | 1.93% | |
| <input type="checkbox"/> | STANDARDS LINES AND REGULATIONS | 115 | 1.86% | |
| <input type="checkbox"/> | ECONOMICS | 104 | 1.69% | |

Search results

Link to **full text**, library holdings or Google Scholar.

Export Record
Export to your *EndNote* library, send to *InCites* for analysis, save as text, email, etc. or add to a Marked List.

The **Times Cited** count displays the total number of times a published paper was cited by other papers within *Web of Science Core Collection*. The link takes you to a Citing

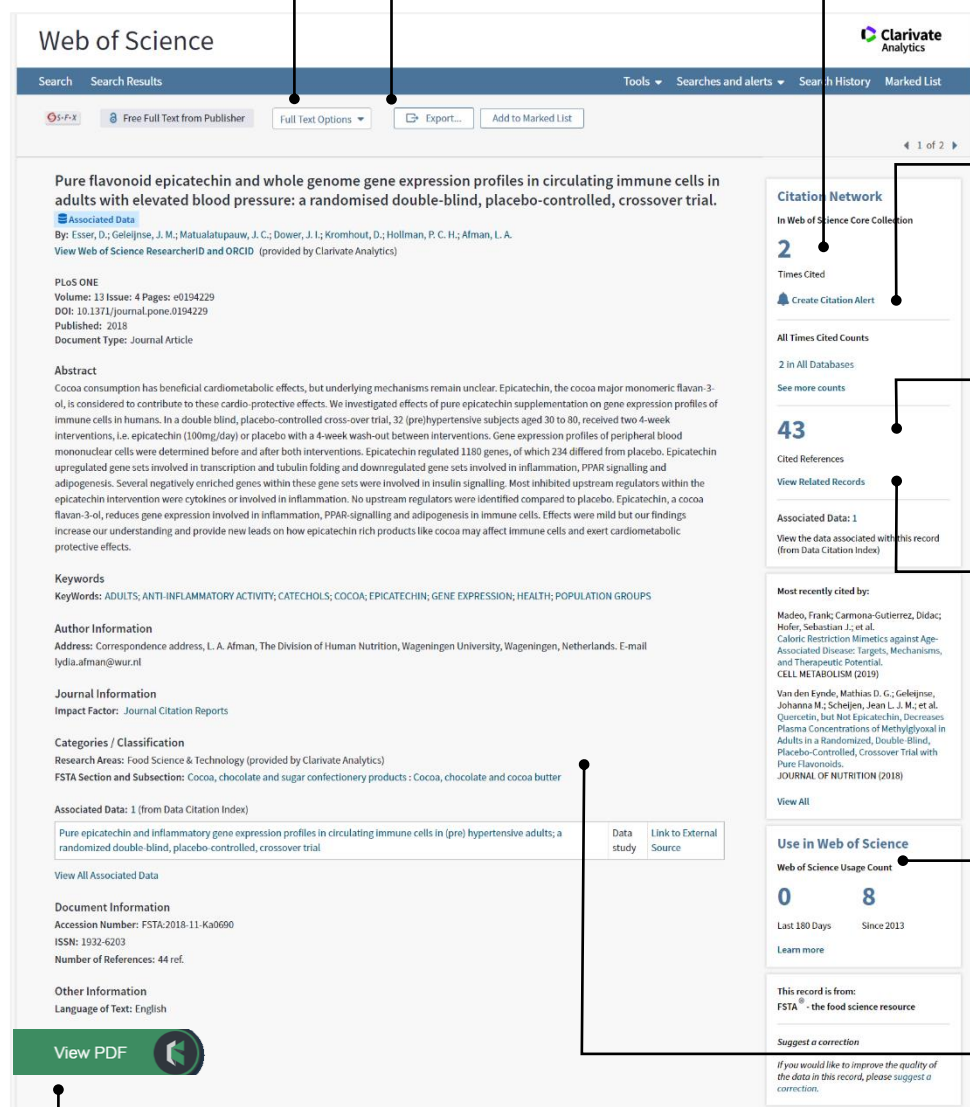
Create a **Citation Alert** for the current record. Receive emails whenever a document you specify is cited by a new article.

The **Cited References** count displays the number of documents cited by the current record. Click the link to view the list of cited references.

To view **Related Records** that share cited references with the record you are viewing, click the **View Related Records** link.

See the number of full text click-throughs or bibliographic exports for this item in the last 180 days or since 2013.

View all of the information about a record, including the **FSTA Section and Subsection**.



Web of Science

Search Search Results Tools Searches and alerts Search History Marked List

Free Full Text from Publisher Full Text Options Export... Add to Marked List

Pure flavonoid epicatechin and whole genome gene expression profiles in circulating immune cells in adults with elevated blood pressure: a randomised double-blind, placebo-controlled, crossover trial.

Associated Data
By: Esser, D.; Geleijnse, J. M.; Matulaputra, J. C.; Dower, J. I.; Kromhout, D.; Hollman, P. C. H.; Afman, L. A.
View Web of Science ResearcherID and ORCID (provided by Clarivate Analytics)

PLoS ONE
Volume: 13 Issue: 4 Pages: e0194229
DOI: 10.1371/journal.pone.0194229
Published: 2018
Document Type: Journal Article

Abstract
Cocoa consumption has beneficial cardiometabolic effects, but underlying mechanisms remain unclear. Epicatechin, the cocoa major monomeric flavan-3-ol, is considered to contribute to these cardio-protective effects. We investigated effects of pure epicatechin supplementation on gene expression profiles of immune cells in humans. In a double blind, placebo-controlled cross-over trial, 32 (pre)hypertensive subjects aged 30 to 80, received two 4-week interventions, i.e. epicatechin (100mg/day) or placebo with a 4-week wash-out between interventions. Gene expression profiles of peripheral blood mononuclear cells were determined before and after both interventions. Epicatechin regulated 1180 genes, of which 234 differed from placebo. Epicatechin upregulated gene sets involved in transcription and tubulin folding and downregulated gene sets involved in inflammation, PPAR signalling and adipogenesis. Several negatively enriched genes within these gene sets were involved in insulin signalling. Most inhibited upstream regulators within the epicatechin intervention were cytokines or involved in inflammation. No upstream regulators were identified compared to placebo. Epicatechin, a cocoa flavan-3-ol, reduces gene expression involved in inflammation, PPAR-signalling and adipogenesis in immune cells. Effects were mild but our findings increase our understanding and provide new leads on how epicatechin rich products like cocoa may affect immune cells and exert cardiometabolic protective effects.

Keywords
KeyWords: ADULTS; ANTI-INFLAMMATORY ACTIVITY; CATECHOLS; COCOA; EPICATECHIN; GENE EXPRESSION; HEALTH; POPULATION GROUPS

Author Information
Address: Correspondence address, L. A. Afman, The Division of Human Nutrition, Wageningen University, Wageningen, Netherlands. E-mail lydia.afman@wur.nl

Journal Information
Impact Factor: Journal Citation Reports

Categories / Classification
Research Areas: Food Science & Technology (provided by Clarivate Analytics)
FSTA Section and Subsection: Cocoa, chocolate and sugar confectionery products : Cocoa, chocolate and cocoa butter

Associated Data: 1 (from Data Citation Index)
Pure epicatechin and inflammatory gene expression profiles in circulating immune cells in (pre) hypertensive adults; a randomized double-blind, placebo-controlled, crossover trial

Document Information
Accession Number: FSTA-2018-11-Ka9690
ISSN: 1932-6203
Number of References: 44 ref.

Other Information
Language of Text: English

View PDF

Citation Network
In Web of Science Core Collection
2 Times Cited
Create Citation Alert

All Times Cited Counts
2 in All Databases
See more counts

43 Cited References
View Related Records

Associated Data: 1
View the data associated with this record (from Data Citation Index)

Most recently cited by:
Madeo, Frank; Carmona-Gutierrez, Didac; Hofer, Sebastian J.; et al. Caloric Restriction Mimetics against Age-Associated Diseases: Targets, Mechanisms, and Therapeutic Potential. CELL METABOLISM (2019)
Van den Eynde, Mathias D. G.; Geleijnse, Johanna M.; Scheljen, Jean L. J. M.; et al. Quercetin, but Not Epicatechin, Decreases Plasma Concentrations of Methylglyoxal in Adults in a Randomized, Double-Blind, Placebo-Controlled, Crossover Trial with Pure Flavonoids. JOURNAL OF NUTRITION (2018)

View All

Use in Web of Science
Web of Science Usage Count
0 8
Last 180 Days Since 2013
Learn more

This record is from:
FSTA® - the food science resource

Suggest a correction
If you would like to improve the quality of the data in this record, please suggest a correction.

To access the full-text PDF just click on the *Kopernio* button. *Kopernio* is a free, easy-to-use browser plugin that helps you save time accessing full-text journal articles by bringing your institutional subscriptions as well as open access content into your Web of Science workflow at your point of need. Download *Kopernio* for Chrome, Firefox or Opera using your browser's extension manager or visit kopernio.com.

Contact our experts today:

+1 215 386 0100 (U.S.)

+44 (0) 20 7433 4000 (Europe)

webofsciencegroup.com