

# Organic Chemistry Laboratory II Workshop

**Scientific Writing  
Literature Search**

# ORG LAB II WEBSITE

<https://koutentisresearchgroup.weebly.com/org-lab-ii.html>

# LITERATURE SEARCH – WRITING A REVIEW

## KEYWORDS, OPERATORS & FILTERS

Literature Search: a librarian's handout to introduce *tools, terms and techniques*



### BRAINSTORM keywords

These are the main ideas of your research question/topic sentence.



### EXPAND your keywords

Look at the subject headings of the materials you find and use those terms as applicable.

Or look up your keywords in a subject-specific database thesaurus to find predefined terms (called “*controlled vocabulary*”).



### USE Boolean operators

Insert **AND**, **OR**, and **NOT** into your search to broaden or narrow it.

*For example:* PTSD OR Post Traumatic Stress Disorder AND soldiers NOT Navy.



### REFINE your search results

Filters in the database allow you to narrow a search by year, content type, etc.



[https://libraryconnect.elsevier.com/sites/default/files/ELS\\_Webb-LC\\_litsearch\\_handout.pdf](https://libraryconnect.elsevier.com/sites/default/files/ELS_Webb-LC_litsearch_handout.pdf)  
[https://www.elsevier.com/data/assets/pdf\\_file/0004/711346/ACAD\\_L\\_BRO\\_LitSearchSupportforResearchers\\_WEB.pdf](https://www.elsevier.com/data/assets/pdf_file/0004/711346/ACAD_L_BRO_LitSearchSupportforResearchers_WEB.pdf)



# Scientific Papers – Original Research Articles

“A **scientific paper** is a written and published report describing original research results”

<http://www.nature.com/scitable/topicpage/scientific-papers-13815490>

Let's have a look on a  
scientific paper

## Abstract - Importance

- ⦿ For busy readers the Abstract, sometimes called the **Summary**, may be the only part of the paper they read, unless it succeeds in convincing them to take the time to read the whole paper!
- ⦿ For readers in developing countries with limited access to the literature, the Abstract may be the only information on your work that is available to them.
- ⦿ Abstracting services may use the text of the title plus the Abstract and keywords for their searchable databases

## Abstract - Content

- ⦿ Some **background information**
- ⦿ The principal activity (or **purpose**) of the study and its scope
- ⦿ Some information about the **methods** used in the study
- ⦿ The most important **results of the study**
- ⦿ A statement of **conclusion** or recommendation



# Introduction

- As your primary reading audience of editor and referees will probably start reading at the Introduction, **an effective Introduction is particularly important.** Referees are likely to look here for evidence to answer the following questions.
  1. **Is the contribution new?**
  2. **Is the contribution significant?**
  3. **Is it suitable for publication in the journal?**

## Introduction

1. Statements about the field of research to provide the reader with a setting or **context for the problem** to be investigated and to claim its centrality or importance.
2. More specific statements about the aspects of the problem already studied by other researchers, laying a foundation of **information already known**.
3. Statements that indicate the **need for more investigation**, creating a gap or research niche for the present study to fill.
4. Statements giving the **purpose/ objectives of the study** or **outlining its main activity or findings**.
5. Optional statement(s) that give a positive value or justification for carrying out the study.

**Results & Discussion**

**Conclusions**

**Experimental Section**

**References**

## References: Styles

### ● ACS style

Surname1, X1.; Surname2, X2.; ....; SurnameX, XX. *Journal Abbreviation* **Year**, *Volume*, xxx-xxx.

e.g. Borsdorf, R.; Hofmann, H.-J.; Kohler, H.-J.; Scholz, M.; Fabian, J. *Tetrahedron* **1970**, 26, 3227–3231.

### ● RSC Style

X1. Surname1, X2. Surname2, ...and XX. SurnameX,  
*Journal Abbreviation*, Year, **Volume**, xxx-xxx.

e.g. W. R. Bowman, M. O. Cloonan, A. J. Fletcher and T. Stein, *Org. Biomol. Chem.*, 2005, **3**, 1460–1467.

### ● Wiley Style

# Journals' Abbreviations

<http://cassi.cas.org/search.jsp>



## CAS Source Index (CASSI) Search Tool

[Search](#) | [About](#) | [Contact Us](#) | [Help](#) | [CAS](#) | [American Chemical Society](#)

### CAS Source Index (CASSI) Search Tool

The CAS Source Index (CASSI) Search Tool is an online resource intended to support researchers and librarians who need accurate bibliographic information. Use this complimentary tool to quickly identify or confirm journal titles and abbreviations for publications indexed by CAS since 1907, including serial and non-serial scientific and technical publications.

**Save time and effort.** Locate the bibliographic details you need quickly and easily. Search by Title, Abbreviation, CODEN, ISBN, or ISSN. Note that there is a limit of 100 answers per search, so it is recommended that you make your search as specific as possible.

Title or Abbreviation ▼

[Search Tips](#)

Exact match

Search

## Exercises

- (1) What is the abbreviation for the Journal “*Chemical Communications*”
- (2) What is the full name for the abbreviated Journal name “*J. Org. Chem.*”

# Searching the Literature



# Major Publishers of Organic Chemistry Journals

[http://www.organicdivision.org/organic\\_journals.html](http://www.organicdivision.org/organic_journals.html)

- ACS Journals: <http://pubs.acs.org/> (*Journal of Organic Chemistry, Organic Letters, Chemical Reviews*)
- RSC Journals: <http://pubs.rsc.org/> (*Organic Biomolecular Chemistry, Chemical Communications, Perkin Transactions 1* etc.)
- Elsevier/ Science Direct Journals: <http://www.sciencedirect.com/> (*Tetrahedron, Tetrahedron Letters*)
- Wiley Journals: <http://onlinelibrary.wiley.com/browse/publications> (*European Journal of Organic Chemistry*)
- Thieme Journals: <https://www.thieme.de/en/thieme-chemistry/journals-54617.htm> (*Synthesis, Synlett*)

<https://www.doi.org/>



# Databases

# Databases

library.ucy.ac.cy/el

Ελληνικά English Français

**Πανεπιστήμιο Κύπρου**  
**Βιβλιοθήκη**

**bankscope**  
Η βάση περιέχει πληροφορίες για τις δημόσιες και ιδιωτικές τράπεζες σε όλο τον κόσμο.  
**Bankscope**

*bankscope*  
World banking information source

1 2 3 4 5

Αναζητήστε ολες τις πηγες (β)

**Πηγές**

- Κατάλογος Βιβλιοθήκης
- Ηλεκτρονικά περιοδικά
- Βάσεις δεδομένων**
- Ηλεκτρονικά βιβλία
- Διδακτορικές διατριβές
- Ψηφιακές συλλογές
- Κατάλογοι άλλων Βιβλ.
- Πρόσβαση στις ηλεκτ. Fi και VPN

**Θεματικές πύλες**

**Υπηρεσίες**

- Δανεισμός
- Διαδανεισμός
- Οδηγοί χρήσης ΒΠΚ
- Πληροφοριακή παιδεία/Σεμινάρια
- Βιβλιογραφική διαχείριση
- Υποστήριξη έρευνας
- Ρωτήστε τον Βιβλιοθηκονόμο
- Ξεναγήσεις
- Υποβολή αιτημάτων
- Εισήγηση αγοράς υλικού
- Τεχνική υποστήριξη
- Χρήστες με προβλήματα όρασης
- Νέες παραλαβές βιβλίων

**Ανακοινώσεις**

- 15/01/2015  
Ebrary - Πρόσβαση σε 77,000 ηλεκτρονικά βιβλία.
- 13/01/2015  
Bankscope - world banking information source
- 07/01/2015  
Πληροφοριακή παιδεία
- 09/12/2014  
Σεμινάριο χρήσης εργαλείου βιβλιογραφικής διαχείρισης RefWorks
- 09/12/2014  
Open Access 2020: A new business for universities

**Librarian's offline.**

Show all downloads...

jo501881y.pdf ja045006t.pdf

10:56 PM 1/19/2015

# Databases

- Web of Science

## Web of Science



Select a database

Learn about alerting enhancements!

[Search tips](#)

[+ Add row](#) | [Reset](#)

Timespan

[More settings](#)

# Databases

- Scopus <http://www.scopus.com/>



[Search](#) [Sources](#) [Lists](#) [SciVal ↗](#)



[Create account](#)

[Sign in](#)

## Document search

[Compare sources >](#)

Documents  Authors  Affiliations [Advanced](#)

[Search tips ?](#)

Search

*E.g., "Cognitive architectures" AND robots*

Article title, Abstract, Keywords



[> Limit](#)

[Reset form](#)

[Search Q](#)

# Databases

## Espacenet Patents database

<http://www.epo.org/searching/free/espacenet.html>



Media

Contact us

thiazine

Website

Patents

English ▾

Home

Searching for patents

Applying for a patent

Law & practice

News & issues

Learning & events

About us

Home > Searching for patents > Technical information > Espacenet - patent search

Espacenet - patent search

Global Patent Index (GPI)

European Publication Server

Searching Asian documents

EP full-text search

## Espacenet patent search

 Print  Share



### Support

Talk to EPO experts or get help from other users

> [Visit the discussion forum](#)

### Contact

With its worldwide coverage and search features, Espacenet offers free access

# LITERATURE SEARCH – WRITING A REVIEW

## KEYWORDS, OPERATORS & FILTERS

Literature Search: a librarian's handout to introduce *tools, terms and techniques*



### BRAINSTORM keywords

These are the main ideas of your research question/topic sentence.



### EXPAND your keywords

Look at the subject headings of the materials you find and use those terms as applicable.

Or look up your keywords in a subject-specific database thesaurus to find predefined terms (called “*controlled vocabulary*”).



### USE Boolean operators

Insert **AND**, **OR**, and **NOT** into your search to broaden or narrow it.

*For example:* PTSD OR Post Traumatic Stress Disorder AND soldiers NOT Navy.



### REFINE your search results

Filters in the database allow you to narrow a search by year, content type, etc.



[https://libraryconnect.elsevier.com/sites/default/files/ELS\\_Webb-LC\\_litsearch\\_handout.pdf](https://libraryconnect.elsevier.com/sites/default/files/ELS_Webb-LC_litsearch_handout.pdf)  
[https://www.elsevier.com/data/assets/pdf\\_file/0004/711346/ACAD\\_L\\_BRO\\_LitSearchSupportforResearchers\\_WEB.pdf](https://www.elsevier.com/data/assets/pdf_file/0004/711346/ACAD_L_BRO_LitSearchSupportforResearchers_WEB.pdf)

# Databases

- **REAXYS!** <https://www.reaxys.com/#/search/quick>


Reaxys<sup>®</sup>

[Quick search](#) [Query builder](#) [Results](#) [Synthesis planner](#) [History](#)

[Register >](#) [Sign in](#) [?](#)

Search substances, reactions and documents

in Reaxys, PubChem, eMolecules, LabNetwork and SigmaAldrich

Import 

Search Reaxys


Substance CAS Registry Number, e.g. 102625-70-7

AND




[Content Overview](#) | Latest update: 12. January 2020 >


118M

 Substances


49M

 Reactions

59M

 Documents

37M

 Bioactivities


ELSEVIER

Copyright © 2020 Elsevier Life Sciences IP Limited.

[Terms and Conditions](#) [Privacy policy](#) [About content](#) [Performance Page](#)

Cookies are used by this site. To decline or learn more, visit our [Cookies page](#)

 RELX Group™

Feedback 

# Databases

- Organic Syntheses (<http://www.orgsyn.org/>)



**Organic Syntheses**

A Publication  
of Reliable Methods  
for the Preparation  
of Organic Compounds

Search Citation   
Annual Volume  Page

Home Search For Authors Submission About OrgSyn Safety Grants/Programs Contact OrgSyn

*Organic Syntheses is now on Twitter!*



Follow us @OrgSynth

*Receive announcements when new articles appear and other news*

**Board of Editors**



[Kevin R. Campos](#)  
Merck Research Laboratories

All procedures and characterization data in OrgSyn are peer-reviewed and checked for reproducibility in the laboratory of a member of the Board of Editors

QUICK NAVIGATION

Select Ann. Volume

Waiting for dryicon... **Volume 96 (2019)**



## EXERCISES

**(1) Find the following articles from the corresponding journal website:**

(a) *Org. Lett.* **2018**, 20, 1384-1387; (b) *Tetrahedron Lett.* **2014**, 55, 7147-7155; (c) *J. Pharm. Pharmacol.* **2013**, 65, 1701-1725; (d) *Nat. Prod. Rep.* **2008**, 25, 166-187.

**(2) Find the articles that have cited the article: *Nat. Prod. Rep.* **2008**, 25, 166.**

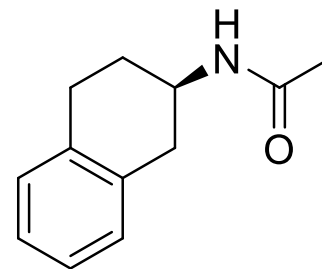
**How many articles have cited this work?**

**(3) How many publications does Phil Baran have?**

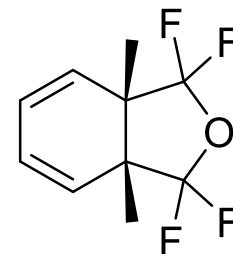
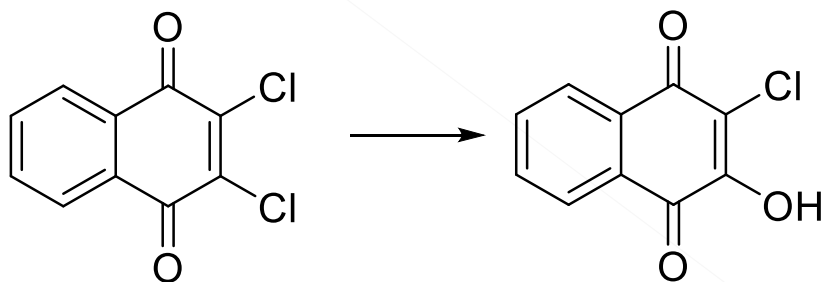


## Exercises

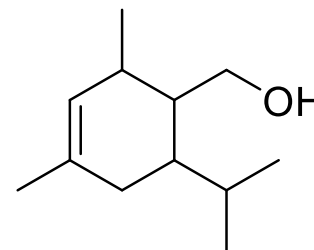
(1) Find the  $^1\text{H-NMR}$  spectrum of the following compound:



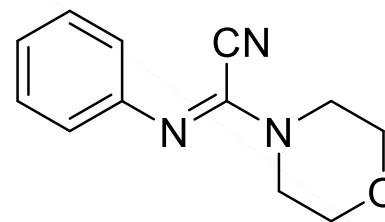
(2) Find conditions for the following reaction:



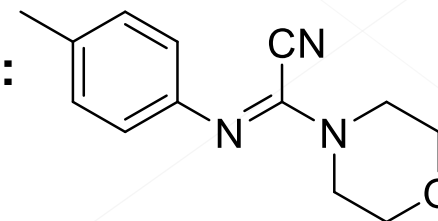
(3) What are the precursors for the following compound:



(4) Find a synthesis for the following compound:



(5) Find the melting point for the following compound:



# How to access



Search for

All resources



Sources

Subject Resources

Services

My Library account

Borrowing

Interlibrary loan

UCY ID issuing/Library card

Photocopying

Library guides

Information literacy/Seminars

Citation management

Research support

Ask a Librarian

School visits

Request & application forms

Home » Services » Technical support » VPN Service

## VPN Service (Virtual Private Network)



VPN (Virtual Private Network) Service allows Library users who are members of the UCY community to have access, regardless of their IP address, to all Library's information sources and services provided through the Web as if they connect within the University network.

### Installation and Configuration Guides

- Windows
- Mac
- iPhone & iPad
- Android

### Attention!

Connection to VPN (Virtual Private Network) Service is necessary every time you want your computer to be part of the university network.

For questions or more information you may contact the [Helpdesk of Information Systems Services of the University](#), tel. +357 22802222



Librarian's offline.

# sci-hub.io



## SCI-HUB

...to remove all barriers in the way of science

enter URL, PMID / DOI or search string

Activate V  
Go to PC set

[about](#)

[ideas](#)

[community](#)

[donate](#)



# Interlibrary Loan Service (Υπηρεσία Διαδανεισμού)



Αναζητήστε

Ηλεκτρονικό και 1



Πηγές

Θεματικές πύλες

Υπηρεσίες

Ο Λογαριασμός μου στη Βιβλιοθήκη

Δανεισμός

Διαδανεισμός

■ Παραγγελία

■ Παραλαβή

■ Κόστος

■ Δικαιώματα και υποχρεώσεις

■ Παραγγελίες που δεν ικανοποιήθηκαν

Πανεπιστημιακή κάρτα/Κάρτα Βιβλιοθήκης

Φωτοτυπίες-Εκτυπώσεις

Αρχική » Υπηρεσίες » Διαδανεισμός

## Διαδανεισμός

Η Υπηρεσία Διαδανεισμού αναλαμβάνει να αναζητήσει βιβλία, άρθρα περιοδικών, πρακτικά συνεδρίων, ανακοινώσεις/ δημοσιεύσεις συνεδρίων, τα οποία είναι αναγκαία για την μελέτη και έρευνα σας και τα οποία δεν υπάρχουν στη συλλογή της Βιβλιοθήκης του Πανεπιστημίου Κύπρου.

Είναι πολύ σημαντικό για την ταχύτερη εξυπηρέτησή σας να βεβαιώνετε ότι το υλικό που ζητάτε δεν υπάρχει στη συλλογή της ΒΠΚ (έντυπη και ηλεκτρονική).

Δυνατότητα παραγγελίας βιβλιογραφίας προς την υπηρεσία Διαδανεισμού έχουν όλα τα μέλη της πανεπιστημιακής κοινότητας καθώς και εξωτερικοί χρήστες που είναι μέλη της ΒΠΚ.

■ Παραγγελία

■ Παραλαβή

■ Κόστος

■ Δικαιώματα και υποχρεώσεις

■ Παραγγελίες που δεν ικανοποιήθηκαν

click.





# Presentation feedback

When survey is active, respond at [PollEv.com/mariakoyioni836](https://PollEv.com/mariakoyioni836)

**0 surveys done**

 0 surveys underway

Start the presentation to see live content. Still no live content? Install the app or get help at [PollEv.com/app](https://PollEv.com/app)



Thank you for your attention

