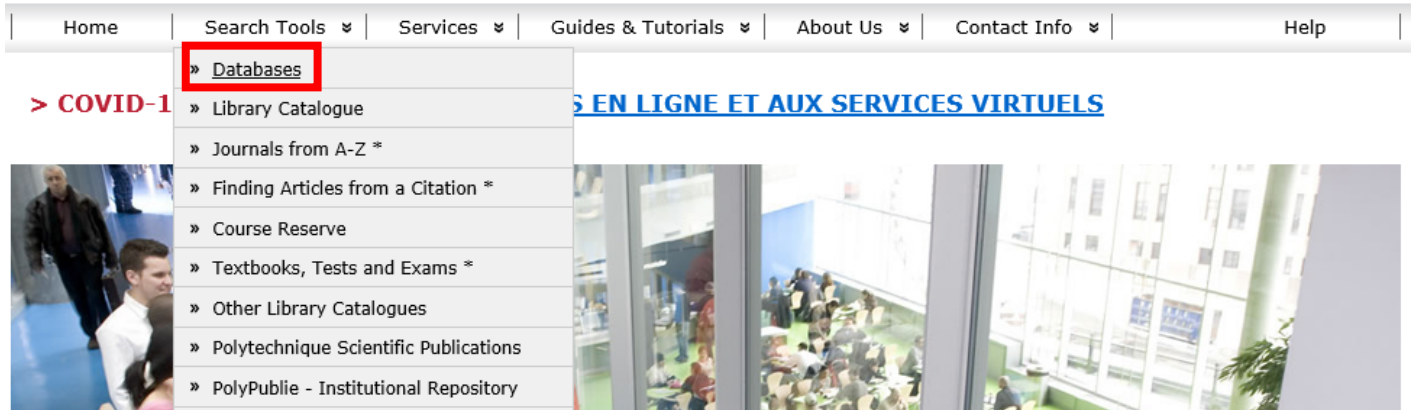
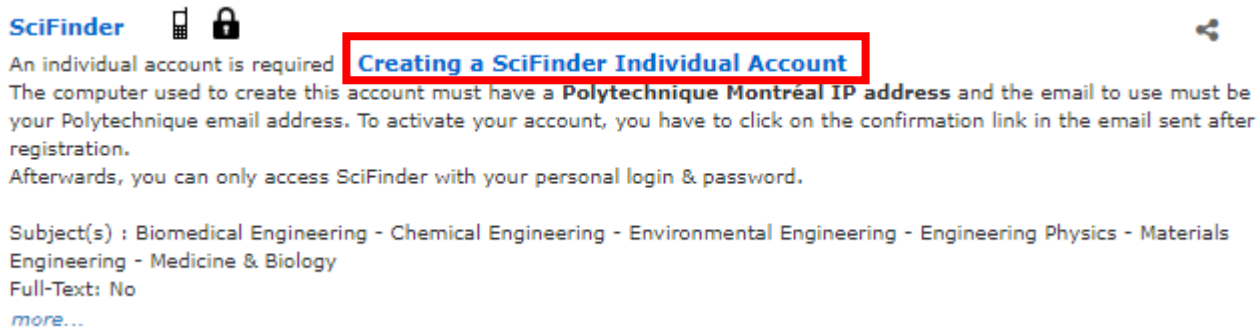


The SciFinder database can be found in our list of Databases.



The screenshot shows a website navigation bar with the following items: Home, Search Tools, Services, Guides & Tutorials, About Us, Contact Info, and Help. A dropdown menu is open under 'Search Tools', and the 'Databases' option is highlighted with a red rectangular box. Other options in the dropdown include Library Catalogue, Journals from A-Z, Finding Articles from a Citation, Course Reserve, Textbooks, Tests and Exams, Other Library Catalogues, Polytechnique Scientific Publications, and PolyPublie - Institutional Repository. Below the navigation bar, there is a banner with the text '> COVID-19' and 'EN LIGNE ET AUX SERVICES VIRTUELS'.

You must create an account to access SciFinder.



The screenshot shows the SciFinder account creation page. The SciFinder logo is at the top left, followed by a mobile phone icon and a lock icon. The main heading is 'Creating a SciFinder Individual Account', which is highlighted with a red rectangular box. Below the heading, there is a paragraph of text: 'An individual account is required. The computer used to create this account must have a Polytechnique Montréal IP address and the email to use must be your Polytechnique email address. To activate your account, you have to click on the confirmation link in the email sent after registration. Afterwards, you can only access SciFinder with your personal login & password.' Below this text, there is a list of subjects: 'Subject(s) : Biomedical Engineering - Chemical Engineering - Environmental Engineering - Engineering Physics - Materials Engineering - Medicine & Biology'. At the bottom, it says 'Full-Text: No' and 'more...'. There is also a share icon on the right side.

Access SciFinder with your username and password.



## Sign In

Username

Password

Keep me signed in  
(Do not use on a shared computer)

[Forgot Username or Password?](#)

By using SciFinder®, you agree to the [License Agreements and Policies](#)

## New to SciFinder?

[Learn more about gaining access to SciFinder.](#)

For a literature review search in SciFinder, limit the search to **1 to 2 concepts** and use only 1 keyword or expression for each one.

Subject example:  
Prototype of a micropump [implanted] for the use of anti-epileptic drug delivery.

Concept #1  
Micropumps

AND

Concept #2  
Drug delivery

Choose "Advanced Search".

The screenshot displays the SciFinder interface. At the top left is the SciFinder logo with the tagline "A CAS SOLUTION". Below the logo is a navigation bar with three tabs: "Explore" (selected), "Saved Searches", and "SciPlanner". On the left side, there is a sidebar menu with three main categories: "REFERENCES" (with sub-items: Research Topic, Author Name, Company Name, Document Identifier, Journal, Patent, Tags), "SUBSTANCES" (with sub-items: Chemical Structure, Markush, Molecular Formula, Property, Substance Identifier), and "REACTIONS" (with sub-item: Reaction Structure). The "Research Topic" option under REFERENCES is highlighted with a blue bar. The main content area is titled "REFERENCES: RESEARCH TOPIC" and contains a search input field. Below the field, there are examples: "The effect of antibiotic residues on dairy products" and "Photocyanation of aromatic compounds". A blue "Search" button is positioned below the examples. At the bottom of the search area, there is a link for "Advanced Search" which is highlighted with a red rectangular box.

Combine the keywords using AND. Limit your search to the last 10 years. Choose "Review" for the document type. Select the desired languages.

REFERENCES: RESEARCH TOPIC ?

micropumps AND drug delivery

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Search

[Advanced Search](#)  Always Show

Publication Years 2010-

Examples: 1995, 1995-1999, 1995-, -1995

- Document Types
- |   |  |
|---|--|
| <input type="checkbox"/> Biography      | <input type="checkbox"/> Historical        |
| <input type="checkbox"/> Book           | <input type="checkbox"/> Journal           |
| <input type="checkbox"/> Clinical Trial | <input type="checkbox"/> Letter            |
| <input type="checkbox"/> Commentary     | <input type="checkbox"/> Patent            |
| <input type="checkbox"/> Conference     | <input type="checkbox"/> Preprint          |
| <input type="checkbox"/> Dissertation   | <input type="checkbox"/> Report            |
| <input type="checkbox"/> Editorial      | <input checked="" type="checkbox"/> Review |

- Languages
- |   |                                   |
|---|-----------------------------------|
| <input type="checkbox"/> Chinese            | <input type="checkbox"/> Japanese |
| <input checked="" type="checkbox"/> English | <input type="checkbox"/> Polish   |
| <input checked="" type="checkbox"/> French  | <input type="checkbox"/> Russian  |
| <input type="checkbox"/> German             | <input type="checkbox"/> Spanish  |
| <input type="checkbox"/> Italian            |                                   |

Author Last Name \* First Middle

Company

Examples:

Minnesota Mining and Manufacturing

DuPont

34 references of "Review" type combine both concepts. Checkmark and click on "Get References".

Select All Deselect All

1 of 5 Research Topic Candidates Selected

- 5 references were found containing "micropumps AND drug delivery" as entered.
- 34 references were found containing both of the concepts "micropumps" and "drug delivery".
- 51360 references were found containing either the concept "micropumps" or the concept "drug delivery".
- 87 references were found containing the concept "micropumps".
- 51307 references were found containing the concept "drug delivery".

Get References

Click on the title to evaluate the relevance of each result.

REFERENCES ?

Get Substances Get Reactions Get Related Citations Tools

Analyze Refine Categorize

Analyze by: Author Name

Meng Ellis 7

Hoang Tuan 3

Sen Ayusman 3

Sheybani Roya 3

Antonini Angelo 2

Barkam Swetha 2

Borenstein Jeffrey T 2

Borkholder David A 2

Cobo Angelica 2

Duan Wentao 2

Show More

Sort by: Accession Number

0 of 34 References Selected

- 1. Micropumps and biomedical applications - A review**  
Quick View Other Sources  
By Wang, Yao-Nan; Fu, Lung-Ming  
From Microelectronic Engineering (2018), 195, 121-138. | Language: English, Database: CAPLUS  
This paper presents a review of the current state-of-the-art in micropumping technol. for biomedical applications. The review for past five years. A comparative study is presented of the various mech. and non-mech. micropumps proposed for biomedical appl range, flow rate, backpressure, and so forth. The basic operating pri...
- 2. Intracochlear drug delivery systems: a novel approach whose time has come**  
Quick View Other Sources  
By Peppi, M.; Marie, A.; Belline, C.; Borenstein, J. T.  
From Expert Opinion on Drug Delivery (2018), 15(4), 319-324. | Language: English, Database: CAPLUS  
A review discussing intracochlear drug delivery systems, a novel approach to treat hearing loss. It also discusses the design and microfabrication and microfluidics technologies toward platforms suitable for preclin. and clin. use.
- 3. The Magneto hydrodynamic Effect and Its Associated Material Designs for Biomedical Applications: A State-of-the-Art Review**  
Quick View Other Sources  
By Gregory, Thomas Stanley; Cheng, Rui; Tang, Guoyi; Mao, Leidong; Tse, Zion Tsz Ho  
From Advanced Functional Materials (2016), 26(22), 3942-3952. | Language: English, Database: CAPLUS  
A review. The presented article discusses recent advances in biomedical applications of classical MHDs (MHD), with a focus on op microparticle sorting for lab-on-a-chip devices to advanced physiol. monitoring techniques. 100 papers in the field of MHDs are rev including material considerations for MHD applications, MHD a...
- 4. MEMS: Enabled Drug Delivery Systems**

This literature review seems interesting. Its record indicates that it is a "General Review".

### 1. **Micropumps** and biomedical applications - A review

By: Wang, Yao-Nan; Fu, Lung-Ming

This paper presents a review of the current state-of-the-art in **micropumping** technol. for biomedical applications. The review focuses particularly on the actuation schemes, flow directing methods and liq. chamber configurations used in the devices proposed over the past five years. A comparative study is presented of the various mech. and non-mech. **micropumps** proposed for biomedical applications. The performance of the various devices is compared in terms of their actuation voltage, power consumption, operating frequency range, flow rate, backpressure, and so forth. The basic operating principles and advantages of each method are introduced, and their limitations described where appropriate. The review provides a useful source of ref. for selecting **micropumping** schemes capable of meeting the specific flow rate requirements of different biomedical applications. In general, the review is expected to be of interest to both seasoned researchers and practitioners in the **micropumping** and biomedical technol. fields and those entering the field for the first time.

#### Indexing

Pharmaceuticals (Section63-0)

#### QUICK LINKS

0 Tags, 0 Comments

#### SOURCE

*Microelectronic Engineering*  
Volume 195  
Pages 127-138  
Journal: **General Review;**  
Online Computer Edition  
2018  
CODEN: MIENEF  
ISSN: 0167-9317  
DOI: 10.1016/j.mee.2018.04.008