

Finding your way/papers in scientific libraries

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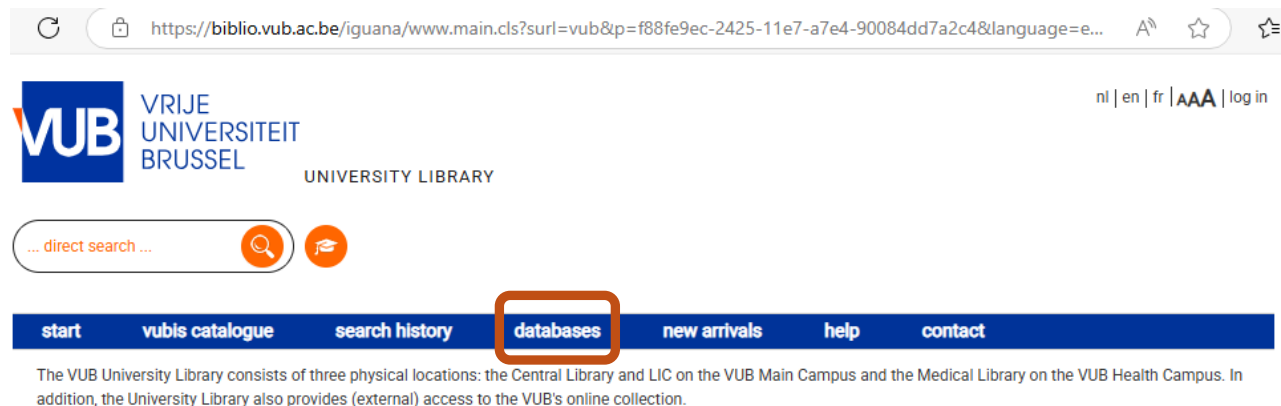
Access to libraries

- University libraries are subscribed to different journals and publishers → 'free' access to papers
- Bruface students can access both ULB and VUB libraries
- ULB:
<https://bib.ulb.be/>
- VUB:
<https://biblio.vub.ac.be/>

Access to web of science

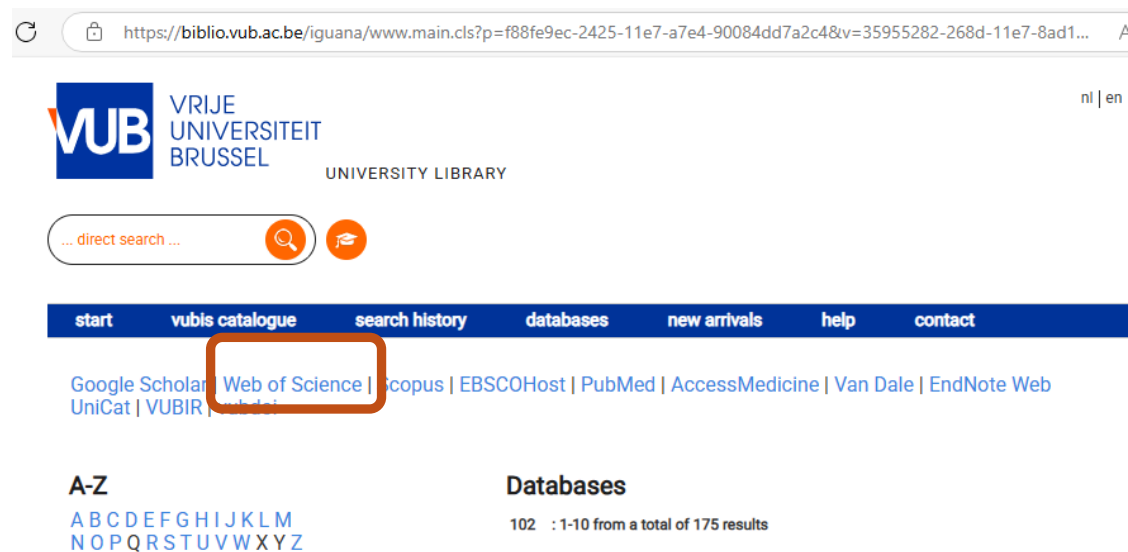
- <https://biblio.vub.ac.be/>

- Databases:



The screenshot shows the VUB University Library homepage. The navigation menu includes links for 'start', 'vubis catalogue', 'search history', 'databases', 'new arrivals', 'help', and 'contact'. The 'databases' link is highlighted with a red box. Below the navigation menu, there is a text block: 'The VUB University Library consists of three physical locations: the Central Library and LIC on the VUB Main Campus and the Medical Library on the VUB Health Campus. In addition, the University Library also provides (external) access to the VUB's online collection.'

- Web of science:



The screenshot shows the 'databases' page on the VUB University Library website. The 'Web of Science' link is highlighted with a red box. Below the navigation menu, there is a list of databases: 'Google Scholar', 'Web of Science', 'Copius', 'EBSCOHost', 'PubMed', 'AccessMedicine', 'Van Dale', 'EndNote Web', 'UniCat', and 'VUBIR'. Below this list, there are two sections: 'A-Z' with a list of letters 'ABCDEFGHIJKLM' and 'NOPQRSTUVWXYZ', and 'Databases' with the text '102 : 1-10 from a total of 175 results'.

Search on..

- Topic
but also:
- Author
- Address
- Publication (name of journal)
- ...

The screenshot shows the Web of Science search interface. The browser address bar displays <https://www.webofscience.com/wos/alldb/basic-search>. The page header includes the text "ivate" and "of Science™" with a "Search" button. The main content area has two tabs: "DOCUMENTS" (selected) and "RESEARCHERS". Below the tabs is a search input field with "Search in: All Databases" and "Collections: All" dropdown menus. A search dropdown menu is open, listing search criteria: "Topic" (highlighted), "Title", "Author", "Publication/Source Titles", "Year Published", "Publication Date", "Abstract", and "Address". To the right of the dropdown is a search input field containing the text "Example: oil spill* mediterranean". Below the input field are "Clear" and "Search" buttons. At the bottom right, there is a "Sign in to access" button.

Be specific..

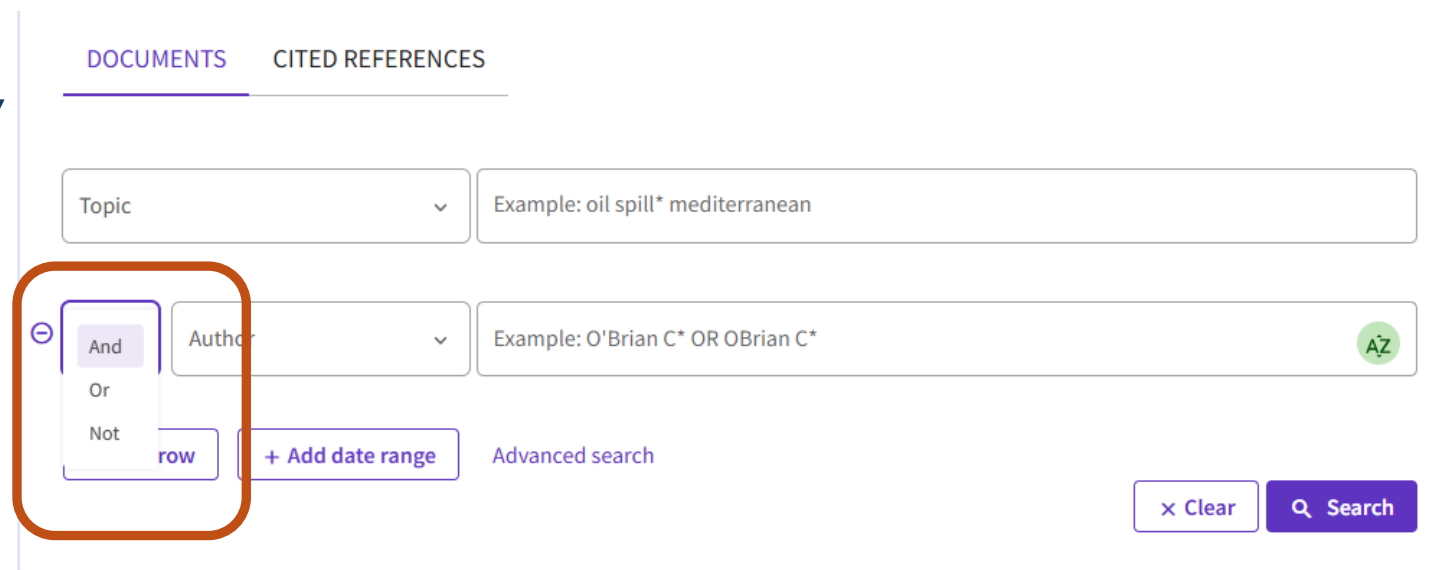
The screenshot shows a search engine interface with the following elements:

- Search Bar:** Contains the text "textile reinforced concrete (Topic)". A red box highlights the number "2,412" next to the text "2,412 results from All Databases for:". A "Copy query link" button is visible to the right.
- Keywords:** Below the search bar, there are several keyword tags: "+ textile reinforced concrete", "+ textile-reinforced concrete", "+ textile reinforced mortar", "+ textile reinforced concrete trc", and "+ tex".
- Refined By:** A filter is applied: "NOT Database: Preprint Citation Index". A "Clear all" button is next to it.
- Document Count:** "2,412 Documents" is displayed, along with a "You may also like..." link.
- Buttons:** "Analyze Results", "Citation Report", and "Create Alert" buttons are located in the top right.
- Refine results sidebar:** Located on the left, it includes:
 - Export Refine** button.
 - Search within topic...** input field.
 - Quick Filters:** "Highly Cited Papers" (6), "Review Article" (81), "Open Access" (775).
 - Publication Years:** 2025 (17), 2024 (268), 2023 (273), 2022 (259), 2021 (228). A "See all >" link is present.
 - Document Types:** Article (2,015), Meeting (406), Review Article (81), Dissertation Thesis (76), Awarded Grant (17). A "See all >" link is present.
 - Authors:** Section header with an upward arrow.
- Main Results Area:** Shows a list of results with checkboxes and sorting options.
 - 0/2,412 results. Buttons for "Add To Marked List" and "Export".
 - Sort by "Relevance". Page "1" of "49".
 - Result 1:** "Textile Reinforced Concretes for structural or repair application". Date: 2023. Grant Source: UKRI. Funding Agency: Engineering & Physical Sciences Research Council (EPSRC). Grant Number: 2885406. Includes a "Vlink" button.
 - Result 2:** "Experimental Study on the Flexural Behavior of Steel-Textile-Reinforced Concrete: Various Textile Reinforcement Details". 9 Citations, 25 References. Author: You, J; Park, J; (...); Hong, S. Date: Feb 2020. Journal: APPLIED SCIENCES-BASEL. Includes a "Vlink" button and "Free Full Text from Publisher" link.
 - Result 3:** "Investigations on the influence of matrix and textile on the response of textile reinforced concrete slabs under impact loading". 15 Citations, 18 References. Author: Gopinath, S; Prakash, A; (...); Harish, MB. Date: Nov 2018. Journal: SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES. Includes a "Vlink" button.

- A general topic will yield a huge list of publications

Search on..

- Multiple items: 'add row'
- Use 'AND' , 'OR'



The screenshot shows a search interface with two tabs: 'DOCUMENTS' and 'CITED REFERENCES'. Below the tabs are two search input fields. The first field is labeled 'Topic' and contains the example text 'oil spill* mediterranean'. The second field is labeled 'Author' and contains the example text 'O'Brian C* OR OBrian C*'. A dropdown menu is open over the 'Author' field, showing three options: 'And', 'Or', and 'Not'. The 'Or' option is highlighted. Below the dropdown menu is a button labeled '+ Add date range' and a link labeled 'Advanced search'. At the bottom right of the interface are two buttons: 'x Clear' and 'Q Search'.

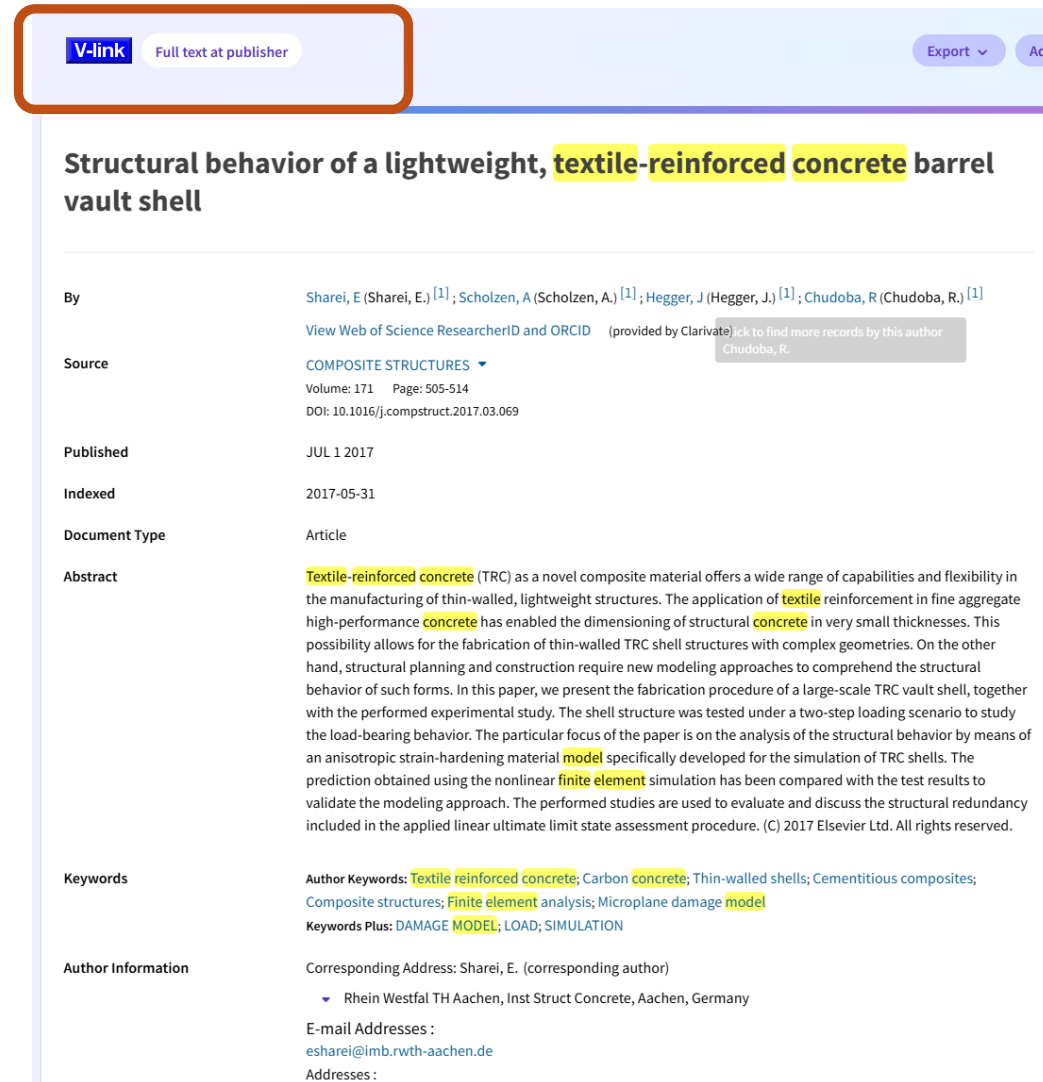
'OR':

e.g. equivalent terms

Different terminology for the same topic/materials/...

(free) access

- V-link
- Full text at publisher



The screenshot shows a research article page. At the top, there is a navigation bar with a blue 'V-link' button and a white 'Full text at publisher' button, both highlighted with a red border. To the right are 'Export' and 'Add' buttons. The article title is 'Structural behavior of a lightweight, textile-reinforced concrete barrel vault shell'. The authors listed are Sharei, E (Sharei, E.) [1]; Scholzen, A (Scholzen, A.) [1]; Hegger, J (Hegger, J.) [1]; and Chudoba, R (Chudoba, R.) [1]. The source is 'COMPOSITE STRUCTURES', Volume 171, Page 505-514, DOI: 10.1016/j.compstruct.2017.03.069. The article was published on JUL 1 2017 and indexed on 2017-05-31. The document type is 'Article'. The abstract discusses the use of textile-reinforced concrete (TRC) for thin-walled structures, mentioning a finite element simulation and experimental study. Keywords include 'Textile reinforced concrete', 'Carbon concrete', 'Thin-walled shells', 'Cementitious composites', 'Composite structures', 'Finite element analysis', and 'Microplane damage model'. The author information section identifies Sharei, E. as the corresponding author from Rhein Westfal TH Aachen, Inst Struct Concrete, Aachen, Germany, with an email address of esharei@imb.rwth-aachen.de.

V-link Full text at publisher Export Add

Structural behavior of a lightweight, textile-reinforced concrete barrel vault shell

By Sharei, E (Sharei, E.) [1]; Scholzen, A (Scholzen, A.) [1]; Hegger, J (Hegger, J.) [1]; Chudoba, R (Chudoba, R.) [1]
View Web of Science ResearcherID and ORCID (provided by Clarivate) [click to find more records by this author Chudoba, R.](#)

Source COMPOSITE STRUCTURES ▾
Volume: 171 Page: 505-514
DOI: 10.1016/j.compstruct.2017.03.069

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Indexed 2017-05-31

Document Type Article

Abstract Textile-reinforced concrete (TRC) as a novel composite material offers a wide range of capabilities and flexibility in the manufacturing of thin-walled, lightweight structures. The application of textile reinforcement in fine aggregate high-performance concrete has enabled the dimensioning of structural concrete in very small thicknesses. This possibility allows for the fabrication of thin-walled TRC shell structures with complex geometries. On the other hand, structural planning and construction require new modeling approaches to comprehend the structural behavior of such forms. In this paper, we present the fabrication procedure of a large-scale TRC vault shell, together with the performed experimental study. The shell structure was tested under a two-step loading scenario to study the load-bearing behavior. The particular focus of the paper is on the analysis of the structural behavior by means of an anisotropic strain-hardening material model specifically developed for the simulation of TRC shells. The prediction obtained using the nonlinear finite element simulation has been compared with the test results to validate the modeling approach. The performed studies are used to evaluate and discuss the structural redundancy included in the applied linear ultimate limit state assessment procedure. (C) 2017 Elsevier Ltd. All rights reserved.

Keywords Author Keywords: Textile reinforced concrete; Carbon concrete; Thin-walled shells; Cementitious composites; Composite structures; Finite element analysis; Microplane damage model
Keywords Plus: DAMAGE MODEL; LOAD; SIMULATION

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Tips for exploring among the mass

- Start from a set of key publications, which closely represent topic
- Use the list of references, they can direct you to other valuable papers on the same topic
- Look also at research groups with expertise, not only topics (ask your supervisor)

≠ exhaustive search !

= fast basis for (part of) the state of the art