

# IEEE Xplore

IEEE Xplore is a powerful research tool that provides access to key scientific and technical publications from IEEE (Institute of Electrical and Electronics Engineers) and its partners such as: IEEE journals, IEEE conference proceedings, IEEE standards and the IEEE-Wiley eBooks Library and IET conference proceedings.

This database is available on and off campus and may be accessed from **Databases** in the **Electronic Library** at: [www.ljmu.ac.uk/library/e-library](http://www.ljmu.ac.uk/library/e-library)

- Go to **Discover**, if prompted, **Sign in** with your **LJMU username@ljmu.ac.uk** and **password**
- Select the **Databases** option
- Type **IEEE Xplore** into the search box and select the **search icon**
- Select **IEEE Xplore** from the results list and then the online link in the **View Online** box

## Searching

You can perform a basic search by typing your search term(s) in the global search box and selecting the search icon or selecting suggested searches from the drop down list:



By selecting the Advanced Search option **ADVANCED SEARCH ▶** you can choose to perform the following searches:

- **Advanced Search** allows you to build up searches by typing single keywords or phrases into the search boxes and using the drop down menus to link your terms together and choosing the fields to search.
- **Command Search** allows you to build up more complex searches using parentheses to group elements as operations and specify which operations take place before others.
- **Citation Search** allows you to search for specific references using citation details in the fields provided, such as DOI, author, publication details, etc.

## Search Tips

### Boolean Operators

Boolean search operators: **AND**, **OR** and **NOT**, link your keywords together and enable you to search more effectively:

- The term **AND**, will narrow a search to only find records which contain all search terms, for example: optical **AND** communication
- The term **OR**, will widen a search to find records containing any of your alternative search terms, but not necessarily all, for example: wireless **OR** networks
- The term **NOT**, excludes part of a topic or specific terms from a search, for example: networks **NOT** ad-hoc

Boolean operators can be used in the Global and Command searches by typing them in **CAPITAL LETTERS** in between the search terms. For the Advanced search option use the drop down menus to select the Boolean operator you wish to use. If you use three search boxes, the expression formed by the first two boxes takes precedence over the entry in the third box.

### Exact word or phrases

You can search for an exact word or phrase of two or more words by surrounding it with quotation marks. For example, if you type "**computer**" in quotation marks this will ensure that the database only searches for that exact word and not any variances. If you type "**radio transmissions**" in quotation marks this ensures that the database only retrieves records where these words appear together as a phrase.

### Truncation


An asterisk is a truncation symbol that can be used after the first few characters of a word to include all varying endings of that word in a search, for example: comput\* will find **computer**, **computers**, **computing**, **computerised** and **computation**

### Alternative Search Terms

If you are struggling to find information on a given topic – try changing your search terms to include alternative keywords. For example, a mobile device could also be referred to as a smartphone or tablet

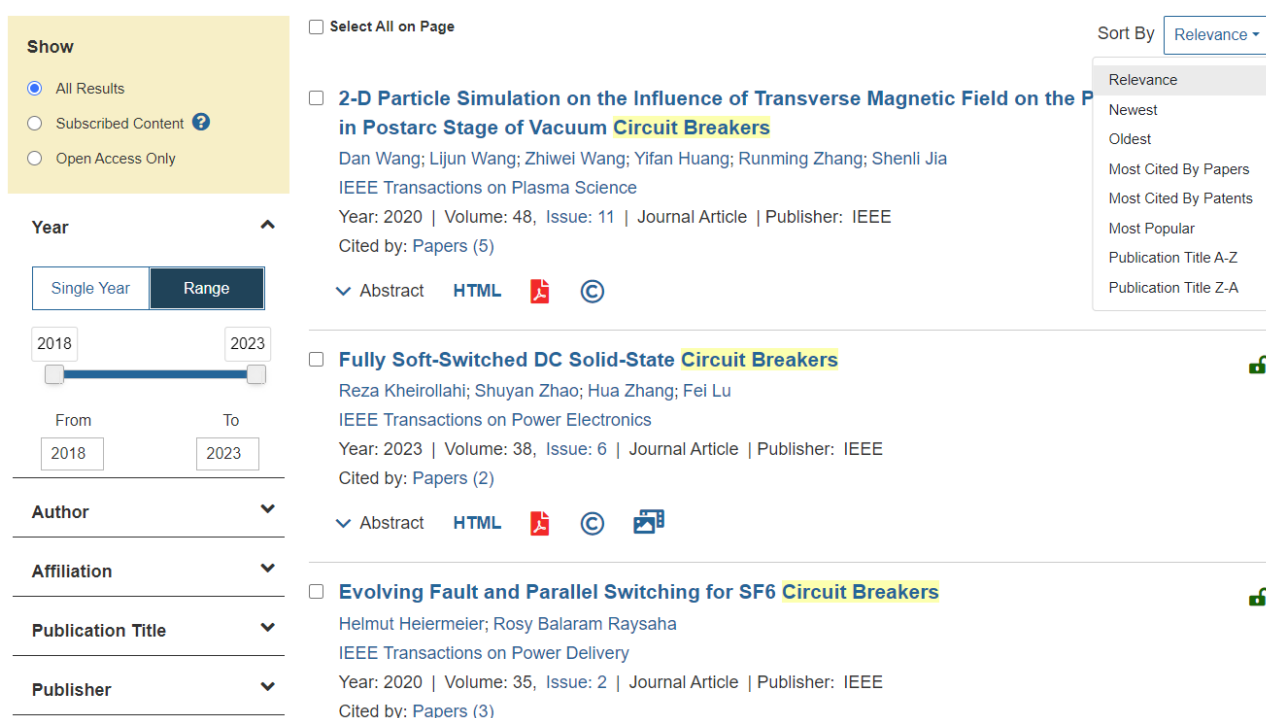
### Search Limits

You can limit your searches by **Publisher**, **Content Type** or **Publication Year** using the refinement options on the search results page. This will help you to find the most relevant research quickly and easily, filtering out any results which are not fully focused on your search topic.

Further guidance on how to use each of the different searches and other useful search tips are available for each search by selecting the help icon 

## Displaying Results

The brief bibliographic details of each record will be displayed on the results screen, for example, **author, title, source, year**, etc. It will default to order by relevance but you can change this to other options, for example, **newest first** or **most cited** using the **Sort by** drop down menu:




The screenshot shows a search results interface. On the left, there are filters for 'Show' (All Results, Subscribed Content, Open Access Only), 'Year' (Single Year, Range), and dropdown menus for Author, Affiliation, Publication Title, and Publisher. A 'Search within results' box is also present. On the right, a 'Sort By' dropdown menu is open, showing options: Relevance, Newest, Oldest, Most Cited By Papers, Most Cited By Patents, Most Popular, Publication Title A-Z, and Publication Title Z-A. The main results area shows three entries, each with a checkbox, title, authors, source, year, volume, issue, journal type, publisher, and citation count. Each entry has icons for Abstract, HTML, PDF, and Creative Commons.


Select All on Page

**2-D Particle Simulation on the Influence of Transverse Magnetic Field on the Postarc Stage of Vacuum Circuit Breakers**  
Dan Wang; Lijun Wang; Zhiwei Wang; Yifan Huang; Runming Zhang; Shenli Jia  
IEEE Transactions on Plasma Science  
Year: 2020 | Volume: 48, Issue: 11 | Journal Article | Publisher: IEEE  
Cited by: Papers (5)  
Abstract HTML PDF CC

**Fully Soft-Switched DC Solid-State Circuit Breakers**  
Reza Kheirollahi; Shuyan Zhao; Hua Zhang; Fei Lu  
IEEE Transactions on Power Electronics  
Year: 2023 | Volume: 38, Issue: 6 | Journal Article | Publisher: IEEE  
Cited by: Papers (2)  
Abstract HTML PDF CC

**Evolving Fault and Parallel Switching for SF6 Circuit Breakers**  
Helmut Heiermeier; Rosy Balam Raysaha  
IEEE Transactions on Power Delivery  
Year: 2020 | Volume: 35, Issue: 2 | Journal Article | Publisher: IEEE  
Cited by: Papers (3)

- Select the **title** to view the full record
- To access the full-text document select the **PDF icon** 

You can refine your results further by searching within your list of results with additional keywords   or using some of the limiter options on the left hand side of the screen.

## Print/Save

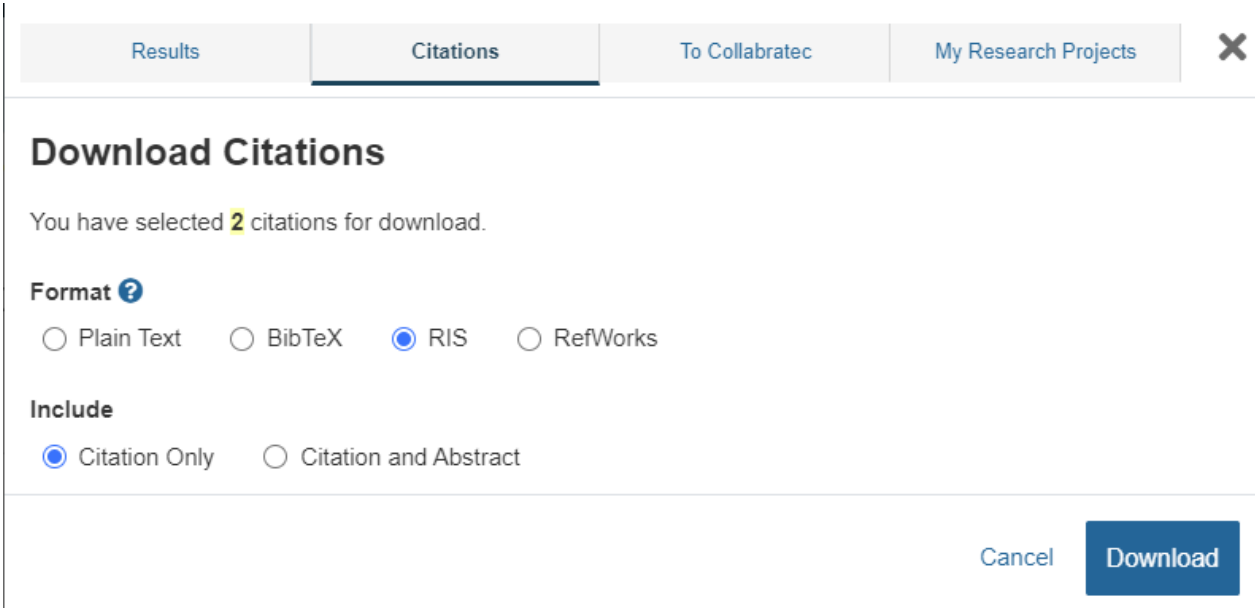
- The document is displayed as a PDF document, using Adobe Acrobat Reader software

- To print or save the individual document select the appropriate icon within the Acrobat

screen   and follow the onscreen instructions

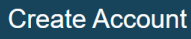

## Export Citations

- You can export citations into Referencing Managing software such as EndNote
- Mark the citations you wish to export by ticking the box next to the title
- Select the drop down menu **Export** and select the **Citations** tab
- Select the appropriate format and what to include and select **Download**:



- If you are using EndNote then the format you need to select is **RIS**

## IEEE Account

- You can create your own personal area by selecting **Create Account**  at the top of the screen
- On the next screen fill in the online form, read and accept the IEEE Privacy Policy and then select **Create Account** 
- Creating your own account will allow you to save searches and set up email alerts
- To access this account in the future select the **Personal Sign in** link at the top of the screen

## Further Help

Further guidance is available by selecting the **Help** drop down menu and selecting **Resources and Help**. You can also contact your Academic Engagement Librarian for help and guidance via **LJMU HelpMe**.

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By: Kelsey Johnston