

Lecture 10: Free Academic Search Engine: Google Scholar

Science Communication: Research Productivity and Data Analytics using Open Source Software

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Welcome to the course on Science Communication, Research Productivity and Data Analytics Using Open Source Software.

Today we will learn about Google Scholar, a free academic search engine. So, for making an account in Google Scholar, one should have an account in Gmail, and from that you can make your account. And from Google Scholar on the left hand side there are three lines given on the top, and you can see in your account article profiles, My-Library, alerts, metrics, advanced settings are there. So, by clicking articles, you can search for them. Say for example, if you write this COVID, you can see different kinds or relative terms it gives you. For example, in this search we are searching COVID-19 pandemic, and then it will automatically put your terms in double quotes for exact search and from this search we have got 992 results. So, you can include patents and citations.

You can also create the alert for these articles. See here on the right hand side, you can see what kind of full text access options you have for Google Scholar. For some articles, full-text is available and you can save the article, you can cite the article in various reference styles. You can save the article into my-library by creating a new label.

After creating a new label, you can see in my-library all the articles pertaining to COVID-19 pandemic are there. You can export them through BibTex, EndNote, RefMan, CSV. You can even add a year to the search phrase to retrieve the articles published in that particular year by writing the year. For example, I am writing COVID-19 and I need articles which are published during 2021. So, I am writing that and see all articles published during 2021, you can see, are there.

We can conduct the advanced search also, and the option for advanced search is given on the left hand side. You can just click that. For advanced search, you don't have to build any search, you just have to find articles with all the words, with all the words means

AND, with the exact phrase means double quotes, with at least one of the words means OR, without the words means NOT. So, you can give the keywords according to your need and where my recorded words occur anywhere in the article or in the title. And you can even search by the author, by the publication, by the dates.

So, I am writing India with all the words with at least the words pandemic and exact phrase COVID-19 and I want that article to be published during 2020. India Pandemic “COVID-19” source 2020. So, I have done that search.

And after article search, we have profile search. You can search various profiles of the researcher. I am writing about Kamal Kishore Pant. So, this is the profile of Kamal Kishore Pant. You can see his H-index is 63 and I10-index is 206. Okay. Number of articles which are getting at least 10 citations. So, his 206 articles have at least 10 citations.

You can arrange the articles according to citations, or year of publication. In setting, you can even write the library links. As I belong to IIT, I am linked to that link. So, whenever I search in Google Scholar, whatever IIT Delhi eResources is subscribing too, they also get a search. And in this button, you can get the click button at the top-most right corner of the URL searching board. And this is for Google Scholar.

Now we move to a demo session of the Google Scholar for getting more clarity. So, this is Google Scholar. So, I am signing in. So, this is my Google Scholar. You have my profile, My-Library, alerts, metrics, all this. And this is my profile. And you can go to My-Library, you can search articles, profiles, you can have advanced search and all. So, I'm searching for articles. So, I'm searching on COVID-19 pandemic. So. And I want that to include citations, not only include citations, but also, patents. So, you can see, say, cited by related articles. All this you can see in Google Scholar. So, create new. You can save this another article, you can save another this one more article, all this.

So, now you can go to My-Library. See reference management, we have three articles. Now we can export them as CSV files. And, you can see the CSV file, author, title, publication information, volume, page number and so on. Now I want to do a profile search. This is the profile of Professor Kamal Kishore Pant. And, you can even put the alerts, daily alerts. Okay. Whenever any citation comes to your article or any new article coming to your reading list, then the alert will come to your mail. You can do the advanced search also. See. Like I'm doing an advanced search with all the words. I'm doing an advanced search for India with the phrase “COVID-19”.

So, India Pandemic COVID-19. So, everywhere, wherever COVID-19 India is coming, it is there. You can conduct advanced searches for other terms also. And from the setting, you can see here the library link is there. You can write your library link, so that you can search e-resources by your library through Google Scholar.

And this is the button which I have told you about. If you do that, a pop up button will come. Okay. Install scholar button. To browse. And add it to Chrome. This will be added as an extension in Chrome. See, I have pinned the extension logged to your Google account. Then you can see, you can search directly from here.

Okay. So, for Exporting the data, Google Scholar data, we can have one more software Publish or Perish. And if we write, Publish or Perish, we will get Harzing.com. We will go to this and from this we can directly download for Microsoft Windows.

Okay. Publish or Perish installer for Windows 2.4 MB from this clicking. You can download the file. And then. Yeah. This kind of setup is there. I agree. Install, finish.

So. You can conduct a search. For Kamal Kishore Pant for Google Scholar, his 40 papers are there and 24 H-index, G-index and so on. You can search for any other author like. So, you can download the results from save as you can copy the results. Okay. And you can even save the results, and metrics as CSV file. Okay. Or results as APA reference, JSON, and results as CSV file. This is the Publish or Perish record for CNR Rao. You can try this by downloading from Harzing.com for Publish or Perish.

For questions or queries you can write to us on a Discussion Forum. or you can write individually also, if you need. So, thank you for listening and hope you will definitely learn from this course. Once again.