

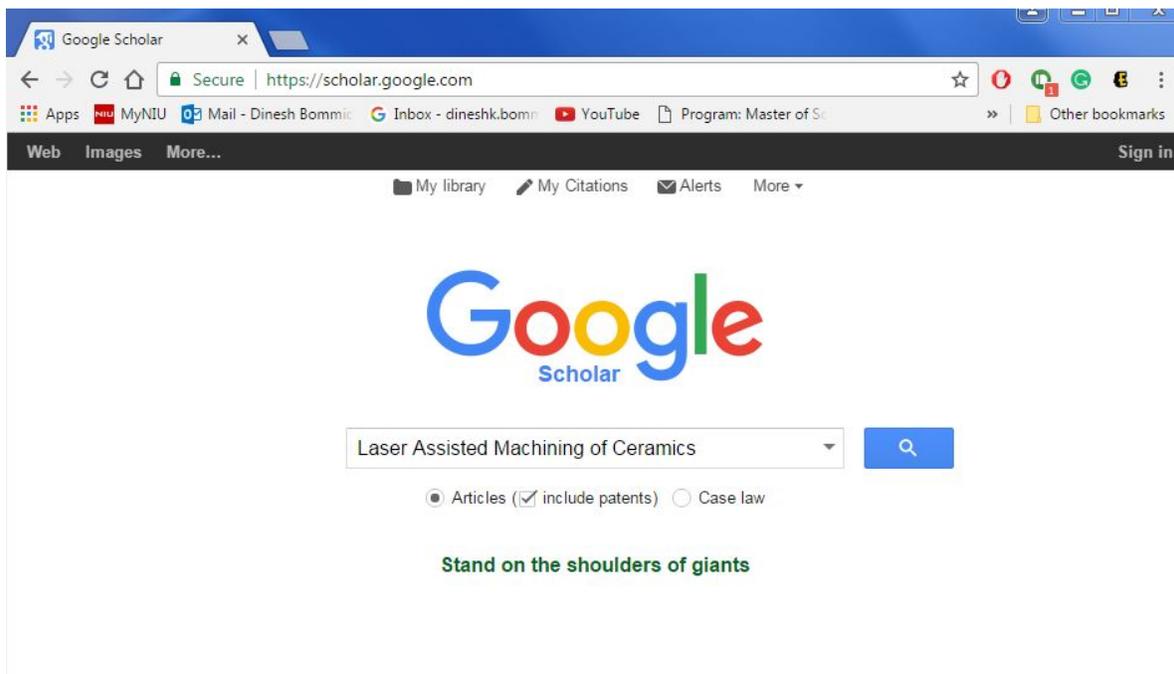
Preparation by:

Graduate Student: Mujahid Mohiuddin Moahhamed

Tutorial for
Literature Review Using Google Scholar
Interlibrary Loan

This tutorial aims at teaching the maximum utilization of online resources to obtain reference documents.

Google Scholar is a powerful tool. Search appropriate keywords related to your topic of interest to obtain best results. Be flexible in selecting the keywords. Think outside of the box! Here we will look for Laser Assisted Machining of Ceramics



Computational Materials Science and Mechanics Laboratory (CMSML) Education/Research Materials

PI: Iman Salehinia, Ph.D.

- Specify the time period to obtain more recent articles/journal papers.

The screenshot shows a Google Scholar search for "Laser Assisted Machining of Ceramics". The search results are filtered by date, with "Any time" selected. A red box highlights the "Any time" filter, and a red arrow points to it from the text "Specify duration over here to access documents from a specific time period". Another red box highlights the "Cited by 154" link for the first article, with a red arrow pointing to it from the text "This indicates PDF file is available for download." The first article is "Experimental investigation of thermo-mechanical characteristics in laser-assisted machining of silicon nitride ceramics" by FP Incropera (2001). The second article is "Experimental evaluation of the laser assisted machining of silicon nitride ceramics" by YC Shin and FP Incropera (2000). The third article is "An investigation of laser-assisted machining of Al₂O₃ ceramics planing" by CW Chang and CP Kuo (2007). The fourth article is "Evaluation of surface roughness in laser-assisted machining of aluminum oxide ceramics with Taguchi method" by CW Chang and CP Kuo (2007). The fifth article is "Laser assisted machining: an overview" by M Antonia (1997).

- Once you found an article/ journal paper related to your interest check for more related articles/journal papers by clicking on Cited By. To check other articles/papers who has used this primary paper as reference.

The screenshot shows a Google Scholar search for "Laser Assisted Machining of Ceramics". The search results are filtered by date, with "Any time" selected. A red box highlights the "Cited by 154" link for the first article, with a red arrow pointing to it from the text "Cited by indicates the number of articles that has cited this particular paper. By clicking on the hyperlink we can access to those papers". The first article is "Experimental investigation of thermo-mechanical characteristics in laser-assisted machining of silicon nitride ceramics" by FP Incropera (2001). The second article is "Experimental evaluation of the laser assisted machining of silicon nitride ceramics" by YC Shin and FP Incropera (2000). The third article is "An investigation of laser-assisted machining of Al₂O₃ ceramics planing" by CW Chang and CP Kuo (2007). The fourth article is "Evaluation of surface roughness in laser-assisted machining of aluminum oxide ceramics with Taguchi method" by CW Chang and CP Kuo (2007). The fifth article is "Laser assisted machining: an overview" by M Antonia (1997).

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- Use Search within citing articles to search for particular keywords from those articles/journal papers.

Keywords 3

Scholar About 154 results (0.03 sec)

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1 Search within citing articles

Experimental investigation of thermo-mechanical characteristics in laser-assisted machining...
AK Dubey, V Yadava - International Journal of Machine Tools and ..., 2008 - Elsevier
Laser beam machining (LBM) is one of the most widely used thermal energy based non-contact type advance machining process which can be applied for almost whole range of materials. Laser beam is focussed for melting and vaporizing the unwanted material from the
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This page represents all the articles that has cited this particular paper

NIU Students can utilize the benefits of NIU Library and NIU ILLiad to access articles/journal papers that are not available for free over the internet.

1. Select Article Database
2. Click on A-Z List

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Lee Schreiner Sheet Music Collection
Coinciding with the centennial of World War I, over 200 pieces of sheet music about the war have been digitized and are now available in the Lee Schreiner Sheet Music Collection.

University Libraries Dean Search
University Libraries Job Opportunity: Research Associate, Albert Johannsen Project

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1 Article Databases

2 A-Z List

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Click on Academic Search Complete.

The screenshot shows the Northern Illinois University Libraries website. The main heading is "A-Z Databases: Founders Memorial Library Databases". Below this, there are search filters for "All Subjects", "Founders Memorial Library", and "All Vendors / Providers". A search bar contains "Search for Databases" and a "Go" button. The results section shows "310 Databases found for Founders Memorial Library Databases". Under the letter "A", the "Academic Search Complete" database is highlighted with a red box and labeled as "Popular". The description for Academic Search Complete states: "The world's largest academic multi-disciplinary database, Academic Search Premier provides full text for nearly 4,700 publications, including full text for more than 3,600 peer-reviewed journals. PDF backfiles to 1975 or further are available for well over one hundred journals, and searchable cited references are provided for more than 1,000 titles."

1. Provide different keywords of your interest.
2. Select Article as Document Type.
3. Click on Search

The screenshot shows the EBSCOhost search interface. The search bar contains the keywords "Laser Assisted Machining" and "Ceramic". The search results are filtered by "Document Type" and "Article" is selected. The search options section includes "Search Modes and Expanders" (Boolean/Phrase, Find all my search terms, Find any of my search terms, SmartText Searching), "Limit your results" (Full Text, Scholarly (Peer Reviewed) Journals, Publication), "References Available" (Published Date, Publication Type, Language, Cover Story, Image Quick View), and "Apply related words" (Also search within the full text of the articles, Apply equivalent subjects). The search bar has a "Search" button and a "Clear" button. The search options section has a "Reset" button.

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If the results pull up any article of interest **Click on SFX-NIU**

Searching: Academic Search Complete | Choose Databases

Laser Assisted Machining Select a Field (optional) Search Clear

AND Ceramic Select a Field (optional)

AND finite element analysis Select a Field (optional)

Search Results: 1 - 2 of 2

1. **A study of preheating characteristics according to various preheating methods for laser-assisted machining.** If this is the article of interest Click SFX-NIU option below

By: Hwang, Seong-Ju; Oh, Won-Jung; Lee, Choon-Man. International Journal of Advanced Manufacturing Technology, Oct2016, Vol. 86 Issue 9-12, p3015-3024, 10p. DOI: 10.1007/s00170-016-8387-9.

Subjects: SILICON nitride; STRENGTH of materials; THERMAL conductivity; FINITE element method; MECHANICAL engineering; Engineering Services

Academic Journal SFX-NIU

2. **Multiscale Finite Element Modeling of Silicon Nitride Ceramics Undergoing Laser-Assisted Machining.**

By: Yinggang Tian; Shin, Yung C. Journal of Manufacturing Science & Engineering, Apr2007, Vol. 129 Issue 2, p287-295, 9p, 1 Chart, 12 Graphs. DOI: 10.1115/1.2673595.

Subjects: MACHINING; LASERS -- Industrial applications; SILICON nitride; FINITE element method; CERAMICS; MICROSTRUCTURE; Pottery, Ceramics, and Plumbing Fixture Manufacturing

Academic Journal SFX-NIU

Page: 1

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Northern Illinois University University Libraries

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SFX

Title: A study of preheating characteristics according to various preheating methods for laser-assisted machining

Source: The International Journal of Advanced Manufacturing Technology [0268-3768] Hwang, Seong-Ju yr:2016 vol:86 iss:9-12 pg:3015 -3024

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