### Web of Science

# (http://apps.isiknowledge.com/)

**Web of Science (WOS)** provides access to the world's leading citation databases. It searches over 10,000 journals from over 45 different languages across sciences, social sciences, and arts and humanities with back files to 1900. The citations (or footnotes) allow one to navigate forward, backward, and through journal articles and both journal and bookbased proceedings. Its Analyze Tool also helps in finding hidden trends and patterns, gain insight into emerging fields of research, identify leading researchers, institutions, and journals, and trace the history of a particular field of study.

Accessible to: 50 phase I universities (through the N-LIST Programme) with backfiles from 1999 onwards

#### Search

The Search interface of Web of Science provides three types of searching.

- 1. Simple Search
- 2. Cited Reference Search
- 3. Advanced Search

#### Simple Search

The search interface of WOS provides searching by Topic, Title, Author, Editor, Group Author, Publication Name, Year Published, Address, Conference, Funding Agency and Grant Number. One can enter the search term and select the search field from the dropdown menu provided near search box. The screenshot below describes the simple search in WOS database.

The following Boolean Operators can be used to expand or narrow down the search results.

- AND: Use "AND" operator to combine two or more terms and to search records with both the terms
- OR: Use "OR" operator to combine two or more terms and search records with either of the terms
- NOT: Use "NOT" to exclude a term from search results

Click on 'Add Another Field' for entering additional search terms.

The search can also be limited by type of document such as Article, Book Review, Bibliography, Editorial matter, Music etc. One can also make search for documents in specific language or selected languages only.

The time span can be used for limiting documents by publication year.

Sign In       My EndNote Web       My ResearcherID       My Citation Alerts         ISIN Web of Science         Search       Citled Reference Search       Advanced Search       Search History       Marked List (0)         Web of Science       Web of Science       Advanced Search       Search History       Marked List (0)	May Saved Searches   Log Out   Help University Grants Commission UGC
Search for: Example: oil spill* mediterranean AND Example: O'Brian C* OR OBrian C* Need help finding papers by an author? Use Author Finder. AND Example: Cancer* OR Journal of Cancer Research and Clinical Oncology Add Another Field >>	Looking for ISI Proceedings? It is now searchable from within Web of Science as the Conference Proceedings Citation Index More Information. Note: Times Cited counts now include proceedings citations. More Information. Discover Web of Science Explore the work?s leading citation scheberser withe BitMidesurgerst
Search       Clear         Current Limits: [Hide Limits and Settings]       (To save these permanently, sign in or register.)         Timespan:       (updated 2010-04-17)         C       From [1999]       to 2010 (default is all years.)	database with multidisciplinary coverage of over 10,000 high-impact journals in the sciences, social sciences, and arts and humanile as with a coverage for over 120,000 conferences. Powerful bools include cited reference searching, Clataton Maps, and the Analyze Tool. • Want to know more? • Training in multiple languages
Citation Databases:	Customize Your Experience Sign In   Register • Save and manage your references online with EndNote Web—freely available and fully integrated. • Save and run searches • Create alerts and RS freeds

The lookup icon (<sup>S)</sup>) near any field can be used to browse the list of indexed terms in that field. This function is available for fields like Author, Group Author and Publication Name. On clicking the lookup icon the list of terms are shown as given below in the screenshot.

ISI Web of Knowle	Enter first few		
Web of Science®	letters and click	k	
Publication Name Index	Move To	Timespan=19	999-2010
Use the Browse and Find features	TEL	query.	
Click on a letter or type a few Show the Example: neuro to find the ROSCIENC Neurology Move To	he beginning of the title to browse alphabe E 0-9 A B C D E F G H I J K L M N C	ibetically by title. I O P Q R S T U V W X Y Z	
Enter text to find titles containing the text. <u>Example: neuros* to find JOURNAL OF</u>	NEUROSURGERY and NEUROSURGER	ERY	
		OREHABILITATION	
Previous	Click on the		Next ►
Add to	Add button and	tie	
Add NEUROLOGY	OK for entering		
Add NEUROLOGY ASIA	into search hoy		
Add NEUROLOGY MATRY A	Into scarch box		
Add NE COGY REFERENCE S	ERIES		
	NE		
	INS IN DRUSUPHILA		
Transfer your selected title(s) below to t	he Publication Name field on the s	search page. OK Cancel	
NEUROLOGY			

The terms are alphabetically browsable, you may also enter the search term and click 'Move To' to move to specific browse term. Click on the Add button beside the desired term and click 'OK' to insert the term in the search box for simple search screen.

The search results are displayed as described in Search Results section.

### Cited Reference Search

Cited Reference Search is used to find articles that have cited a previously published work. It can be used to discover how a known idea or innovation has been confirmed, applied, improved, extended, or corrected.

For searching articles enter the name of the primary Cited Author (last name of the first author of the cited publication) and the abbreviated title of a Cited Work (abbreviated journal name incase of a journal articles) and then click Search. The screenshot given below gives the 'Cited Reference Search' window.

ISI Web of Knowledge <sup>™</sup> web of Science Additional Resources Search Cited Reference Search Advanced Search S	iearch History Marked List (0)	Click here to
Web of Science® Enter the		index
Cited Reference Search. Fir Step 1: Enter the author's name Cited Author: Anand A Example: O'Brian C* OR OBrian C*	ame ork	
Cited Work: Example: J Comput Appl Math* journal abbreviation list		9
Cited Year(s) 2004-2010 Example: 1943 or 1943-1945		

The lookup icon ( $\bigcirc$ ) can be used for browsing through the alphabetical list of Cited Author or Cited work. On clicking the lookup icon besides the Cited author the list of authors can be browsed and added to search query as explained earlier in simple search.

The screenshot given below displays cited references based on the search made in the Cited Reference Search page. From here select the references and click on 'Finish Search' to retrieve the list of citing articles. The list of the articles are displayed as given in the Search Results.

Web o	f Science®		lick 'Finish					
inco o		C	earch' to vi	ow th	ne			
<< Back t	o previous							
Cited	Reference	Search. Find the article	earch result	IS				
Step :	2 of 2: Select	cited references and click	·		$\square$	, 		
Select	the references	for which you wish to see the	iticles, then click	the "Finis	h Search	n" button.		
Hint: L	ook for cited re	eference variants (sometiv	rent pages of the same	e article a	re cited o	ir papers ar	re cited incorrectly).	
CITED R	EFERENCE INI	DEX 156	Mage 1	of 4 🤇	50) <b> </b>	M		
, Iz (	Select Page)	Select Clear All		Click	hor	o to		
*	Finish Sea	irch						
Select	Cited Author	Cited Work [SHOW ABBREVIATED TITLES]		cnar	ige i	ne vi	ew Article ID	Citing Articles **
Г	ANAND A	904 APPL OPT		UI ai	licie			1
Г	ANAND A	ACAD MANAGEMENT EXEC						1
ন	ANAND A	ACOUSTICS RESEARCH LETT Title: Monitoring formation of hig ultrasound (HIFU) induced lesi ultrasound	ERS ONLINE-ARLO an intensity focused ons using backscattered	2004	5	88	DOI 10.1121/1.1652131	13
Г	AND A	ADV PLANT PHYSI	_	2005		221		1
Г	ANA	Soloct the		2005	8	221		1
Г	ANAND A			2007				1
		articles from	RICS AND					
Г	Anand A	the checkbox	ance data to hild HIV transmission	2007	197	S17	DOI 10.1016/j.ajog.2007.03.082	2
	Anand A	AMERICAN JOURNAL OF PHYS CIRCULATORY PHYSIOLOGY Title: Baroreflex responsiveness acclimatization in humans	IOLOGY-HEART AND	2008	295	H1794	DOI 10.1152/ajpheart.131.2008	1
Г	Anand A	AMERICAN JOURNAL OF PHYS CIRCULATORY PHYSIOLOGY Title: Hemodynamics and musi activity after 8 h of sustained hyp	SIOLOGY-HEART AND cle sympathetic nerve poxia in healthy humans	2007	293	H3027	DOI 10.1152/ajpheart.00277.2007	2
	Anand A	AMERICAN JOURNAL OF PHYS CIRCULATORY PHYSIOLOGY Title: Evidence of impaired hypo intermediate-duration hypoxic et	IOLOGY-HEART AND xic vasodilation after xposure in humans	2006	291	H2173	DOI 10.1152/ajpheart.01021.2005	5
	Anand A	AMERICAN JOURNAL OF RESP CRITICAL CARE MEDICINE Title: Do inhaled carbon nanopr directly into the desculation in hu	PIRATORY AND articles translocate	2006	173	426	DOI 10.1164/rccm.200506-865OC	73

#### Advanced Search

The Advanced Search allows you to create complex queries using field tags, set combinations or a combination of both. Please note that you cannot mix set combinations and field tags in a single search query.

Also searching can be made combining two set of earlier searches. For combining two sets of searches, use the set no of the two searches from search history and combine using Boolean operators (AND, OR, NOT).



### Search Results

Screenshot of the Search Results is given below.

Search Results are sorted according to Latest date by default. The results can also be sorted by Times Cited, Relevance, First Author, Source and Publication Year selecting the desired option from top right of search results.

One can also search within the search results from the search box available on left. The search results can be further filtered by different fields from left menu.

The list of articles can be analyzed and citation reports can be created as described later in 'Analyze Results'.



# Save, Print or Export Search Results

The search results can be printed, sent by e-mail or saved to different citation formats. You have an option to select, save, print or export selected records or all records.

Results: 209 Show 10 per page 💌	Mage 1	of 21 Go ►►	Sort by: Latest Date
Output Records			
Step 1:	Step 2:	Step 3: [How do I export to bi	bliographic management software?)
<ul> <li>Selected Records on page</li> </ul>	<ul> <li>Authors, Title, Source</li> </ul>	Print E-mail Add to Ma	arked List Save to EndNote Web
C All records on page	💌 plus Abstract	Save to EndNote, RefMan, Pr	oCite
C Records to	C Full Record	Save to other Reference Softw	are 💌 🤇 Save
lease wait while your request is processed. Note: Depending on the number of records, t	his may take a few moments.)		
roduct: Web of Science elected action: Export to Reference Softwar rocessing 10 records: 0Done.	2		
Export If the "Export" proc (Note: Read help for	ess does not start automatically, then cli r information on how to download and in	ick "Export." stall the Export plugin.)	

The selected records can be added to marked list for future use. On clicking the marked list of items the listed records can be saved or exported with customized fields selected. These records can also be e-mailed in text or html format.

b of Science Marked Re II down to view records 1. Select the fields to in	ecords - 8 Articles nclude in the output. <u>Reset to Defaults</u>		Delete This L
✓ Author(s)	☑ Title	✓ Source	🗖 language
□ abstract*	cited references*	🗖 document type	🗖 subject category
🗖 addresses	🗖 times cited	🗖 keywords	D publisher information
ISSN	cited reference count	🗖 source abbrev.	🗖 page count
<ul> <li>IDS number</li> <li>*Selecting these items</li> <li>2. Select an option.</li> </ul>	☐ funding information s will increase the processing time.		
Field Ta	gged V Format for Print Save to My EndNote Web Save to EndNote, RefMan, ProCite	E-mail record Return e-mail (optio Notes (optio	ls to: nal): nal):

### Full Record

On clicking the title of any article from the search results, the full record can be viewed as given in the below screen shot.

<< Back to results list	Record 1 of 1	Record from Web of Science®
Measurement of parameters of sin and a synthetic reference wave Full Text NCBI Print E-mail Add to more options Author(s): Anand A (Anand, Arun), Chhaniwal VK: Source: APPLIED OPTICS Volume: 46 Issue Times Cited: 5 References: 9 E: Citation M Abstract: The use of digital holographic intrefero curvature, and refractive index are the lens param the lens under test are recorded at various positic computed plane wavefont to determine the curva of the test lens where a single finge results. The focal length lens to concentrate a collimated bear found by using this method. The implementations bloonwer lenses. The method can be utilized to mo Optical Society of America. Document Type: Article Language: English KeyWords Plus: REFRACTIVE-INDEX Reprint Address: Anand, A (reprint author), Indian Addresses: 1. Indian Inst Technol, Instrument Design Dev Ctr 2. Inst Tech Opt. D-70569 Stutgari, Germany 3. Plasma Res, Bhat 382428, Gandhinagar India E-mail Addresses: arun_nair_in@yahoo.com Publisher: OPTICAL SOC AMER, 2010 MASSACH Subject Category: Optics IDS Number: 151UT ISSN: 0003-6935	nple lenses using digital holographic interferometry Marked List Save to EndNote Web Save to EndNote, RefMan, PmCile (Chhaniwal, Vani K.) er 11 Pages: 2022-2026 Published: APR 10 2007 tap methy in the testing of simple thin lenses is explored. Focal length, radius of veters that can be determined using this method. The digital holograms using ons of the test lens using off-axis geometry. This is combined with a digitally ture of the light beam emerging from the test lens. Focal length, radius of of the test lens. The nonunformities on the lens surface could also be of the method is shown by using computer simulations in the case of easure the parameters of plano-convex and concave lenses also. (c) 2007 In Inst Technol, Instrument Design Dev Ctr, New Delhi 110016, India UUSETTS AVE NW, WASHINGTON, DC 20036 USA	Cited by: 5 This article has been cited 5 times (from Web of Science). Barbosa EA, de Bousa CBF, Maffei WM Measurement of Iow-derivative surface lenses by two-laser holography with BH2TiO20 crystals APPLIED OPTICS 48 27 5114-5120 SEP 20 2009 Anand A, Chhaniwal VK, Almoro P, et al. Shape and deformation measurements of 30 objects using volume speckle field and phase retrieval OPTICS LETTERS 34 10 1522-1524 MAY 15 2009 Kumar VP, Chatterjee S Technique for the focal-length measurement of positive lenses using Fizeau interferometry APPLIED OPTICS 48 4 730-736 FEB1 2009 [ view all 5 citing articles ] Create Citation Alert Find similar records based on shared references (from Web of Science). [ view related records ] References: 9 View the bibliography of this record (from Web of Science).

The Full record of an article contains the following information.

**Titles:** The full title is indexed and searched in a Topic search. Foreign language titles are translated into English.

**Authors:** All authors are indexed. Search using last name and up to five initials. Click an author's name to find all the articles by that author.

**Source:** Source titles are searchable. Search using the full title or use the Search Aid on the General Search page to select a title.

Abstract: All author abstracts are indexed and searched in Topic search.

Author Keywords: All author keywords are indexed and searched in Topic search.

**KeyWords Plus:** KeyWords Plus® are unique to Web of Science and consist of words and phrases harvested from the titles of the cited articles. KeyWords Plus are searched in Topic search.

**Addresses:** Addresses of all authors are indexed and are searchable. E-mail addresses of author responsible for secondary reprints are provided when available.

Click at the **References number** to move to the citations of a paper.

Click at the **Cited By number** to move to the papers that have cited the source article. The number of papers you are able to view may be lower than the "Cited By" number if your institution does not subscribe to all indexes within Web of Science. The bibliographic information for the three latest papers to cite this paper will automatically display with the full record.

Click View Related Records to find papers that have cited the same earlier materials.

Click **Create Citation Alert** to be notified when the paper is cited by any new Web of Science record. Citation Alerts will remain active for one year, but can be renewed at any time.

The **Citation Map** (<sup>EEE</sup>) link creates a citation map. It presents the citation relationships (cited references and citing articles) between a paper and other papers in an interactive graphical tree format.



To view the citation map click on Citation map link and select the desired format and click 'Create Map' to create the map as shown below.

The top panel (Citation Map) is an interactive graphical presentation of the Citation Map consisting of a citation tree of nodes (records) showing their citation relationships. The lower left panel (Results Set) displays a summary of cited and citing records in the Citation Map along with the Primary Author, Journal Name, and Article Title. The lower right panel (Record View) displays the Full Record of the target record.



The top menus and options allow managing and controlling the appearance of the Citation Map. The citation map can be changed by different order of nodes like, Author, Publish Year, Journal Title, Institution etc. The colour of the citation map can also be changed. One can save the citation map as image file.

### Analyze Results

The Analyze results option available on the right of search results page enables to analyze and create a graphical report on the basis of Author, Country, Institution, Publication Year, Funding Agency etc.

Rank the records by this field:	Analyze:	Set display options:	Sort by:
Document Type Institution Name Language Publication Year	Up to 5000 💌 Records.	Show the top 10 💌 Results. Minimum record count (Threshold): 2	Record count Selected field

For such analysis select the option, then the number of records to be analyzed and the display option. Based on the data, the report is generated as shown below.

3,889 records. Cited A	uthor=(Anand)					
Rank the records	s by this field:	Analyze:			Set display options:	Sort by:
Document Type Institution Name Language Publication Year v	Up to 50	00 💌 Reco	ords. S	Show the top 25 Minimum record o	Results. count (Threshold): 2	Record count C Selected field
e the checkboxes bel te: The number of rec	ow to view the records. You ca ords displayed may be greater	n choose to vie r than the listed	w those selecte I Record Count	d records, or you	can exclude them ( and view the ot	hers)
View Records	ed more records than the hum	Record	analyzed. % of	Bar Chart	Save Analysis Data to File	
X Exclude Records		Count	3889			
	2009	647	16.6367 %			
	2009	647	16.6367 %	-		
	2009 2008 2007	647 618 528	16.6367 % 15.8910 % 13.5768 %			
	2003 2008 2007 2006	647 618 528 405	16.6367 % 15.8910 % 13.5768 % 10.4140 %	Ē		
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	2009 2008 2007 2006 2005 2004 2003 2002 2010 2010	647 618 528 405 336 254 242 215 195	16.6367% 15.8910% 13.5768% 10.4140% 8.6398% 6.5312% 6.2227% 5.5284% 5.0141%			
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	2009 2008 2007 2006 2005 2004 2003 2002 2010 2001 2000 1999	618 528 405 336 254 242 215 195 185 137 114	16.6367% 15.8910% 13.5768% 10.4140% 8.6398% 6.5312% 6.2227% 5.5284% 5.0141% 4.7570% 3.5228% 2.9313%	-		
	2009 2008 2007 2006 2005 2004 2003 2002 2010 2001 2000 1999 1999	618 528 405 336 254 242 215 195 185 137 114 13	16.6367 % 15.8910 % 13.5768 % 10.4140 % 8.6398 % 6.5312 % 6.2227 % 5.5284 % 5.0141 % 4.7570 % 3.5228 % 2.9313 % 0.3343 %			

# **Create Citation Report**

To access the Citation Report, click the Create Citation Reports link that appears below the Sort by box on the Results page. Citation Report provides aggregate citation statistics for a set of search results. These statistics include:

- The total number of times all items have been cited
- The average number of times an item has been cited
- The number of times an item has been cited each year
- The average number of times an item has been cited in a year

A screenshot of Citation report is as shown below.



A Citation Report is available for results of the following searches: Search, Author Finder, Search within Results, Refine Results, Analyze Results. It is not available for: Cited Reference Search Results, Citing Articles, Related Records.