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Pro-apoptotic effects of lipid oxidation products: HNE at the crossroads of NF-kappa B pathway and anti-apoptotic Bcl-2

TI

Timucin, Ahmet Can; Basaga, Huveyda. **FREE RADICAL BIOLOGY AND MEDICINE** 111 : 209-218. ELSEVIER SCIENCE INC. (Oct 2017)

AU
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Abstract (summary) Translate

AB

The axis between lipid oxidation products and cell death is explicitly linked. 4-Hydroxynonenal (HNE), as well as other lipid oxidation products was also established to induce apoptosis in various experimental settings. Yet, the decision leading to apoptotic execution not only includes upregulation of pro-apoptotic signals but also involves a downregulation of anti-apoptotic signals. Within the frames of this paradigm, HNE acts significantly different from other lipid oxidation products in the regulation of two widely known anti-apoptotic elements, Nuclear Factor-kappa B (NF-kappa B) transcription factors and its target anti-apoptotic B-Cell Lymphoma-2 (Bcl-2) protein. Even so, a review inclusively linking these anti-apoptotic factors and their crosstalk upon HNE exposure is still at demand. In order to elucidate presence of such crosstalk, reports on the link between HNE and NF-kappa B pathway, on the link between HNE and anti-apoptotic Bcl-2 and on the crossroad of these links during HNE exposure were summarized and discussed. IKK, the upstream kinase of NF-kappa B, has been shown to regulate HNE mediated phosphorylation and inactivation of Bcl-2 by our group. Based on this observation and other studies reporting on HNE-NF-kappa B pathway interaction, IKK was proposed to mediate the crosstalk of NF-kappa B pathway and anti-apoptotic Bcl-2 protein, when HNE is present. These reports further suggested that HNE based inhibition of NF-kappa B pathway is highly likely. Besides, evidence on the HNE-anti-apoptotic Bcl-2 axis supported the deduction of HNE mediated NF-kappa B pathway inhibition and IKK mediated Bcl-2 inactivation. In conclusion, through combining all evidences, three possible scenarios intervening the HNE mediated crosstalk between NF-kappa B pathway and anti-apoptotic Bcl-2 protein, was extrapolated.

Indexing (details) Cite

RF, CAU, CTI, CPUB, CYR, CVO, CPG

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SU	**Subject**	Biochemistry & Molecular Biology; Endocrinology & Metabolism; CYTOCHROME-C RELEASE; ATTENUATES 4-HYDROXYNONENAL-INDUCED APOPTOSIS; HUMAN OSTEOARTHRITIC CHONDROCYTES; CHRONIC CEREBRAL HYPOPERFUSION; GLUTATHIONE-S-TRANSFERASE; PROGRAMMED CELL-DEATH; PC12 CELLS; MEDIATED APOPTOSIS; HYDROGEN-PEROXIDE; LIVER-INJURY
IF	**Identifier (keyword)**	4-Hydroxynonenal, Nuclear factor-kappa B, B-cell lymphoma-2, Apoptosis
TI	**Title**	Pro-apoptotic effects of lipid oxidation products: HNE at the crossroads of NF-kappa B pathway and anti-apoptotic Bcl-2
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AU	**Correspondence author**	Basaga, Huveyda Sabanci Univ, Mol Biol Genet & Bioengn Program, Fac Engn & Nat Sci, Istanbul, Turkey.
GI	**Grant**	Sabanci University Postdoctoral Fellowship, , Ahmet Can Timucin was supported by Sabanci University Postdoctoral Fellowship.
LG	**Language**	English
LA	**Language of abstract**	English
DTYPE	**Document type**	Review
PUB	**Publication title**	FREE RADICAL BIOLOGY AND MEDICINE
VOL	**Volume**	111
ISS	**Issue title**	Special Issue
PG	**Pagination**	209-218
PCT	**Page count**	10
ISSN	**ISSN**	0891-5849
ISSN	**Electronic ISSN**	1873-4596
PSTYPE	**Publication type**	Journal
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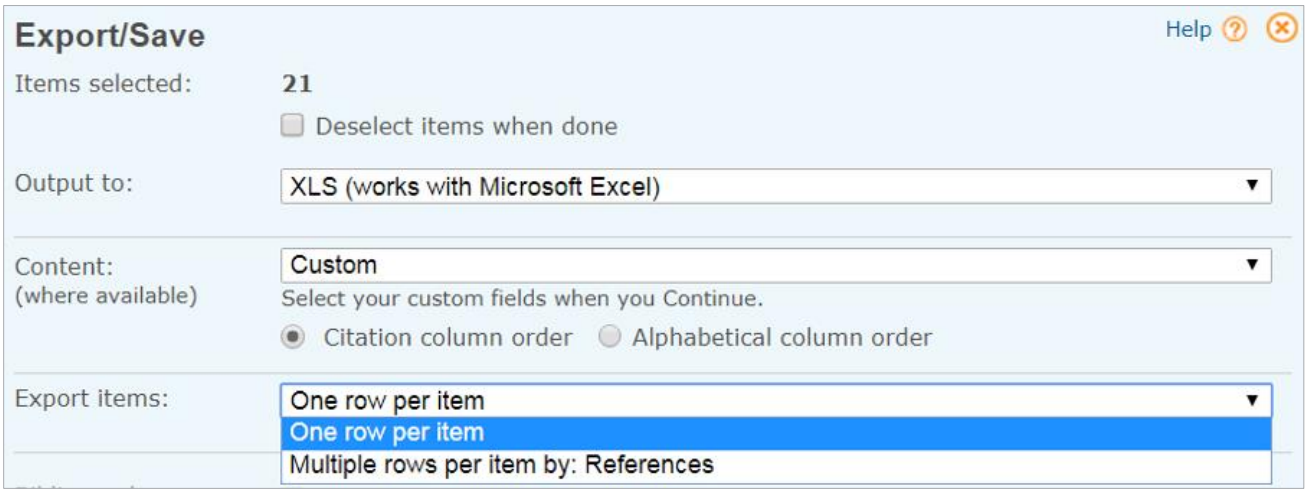

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3	HO-1/EBP interaction alleviate	INTERNATIONAL JOURNAL OF MOLE	2017	2. Ning, W. TGF-beta(1) stimulates HO-1 via
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Daratumumab granted breakthrough drug status

Laubach, Jacob P; Tai, Yu Tzu; Richardson, Paul G; Anderson, Kenneth C. **EXPERT OPINION ON INVESTIGATIONAL DRUGS** 23.4 (Apr 2014): 445-452.

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Some references may contain corporate rather than personal authors, e.g.:

References

1. ASTM. Standard test methods for laboratory testing of non-commercial mosquito repellent formulation on the skin. ASTM-E951-94 (2000);
2. WHO. World Malaria Report 2012. WORLD MALARIA REPORT 2012 (2012) 1;
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4. Adams, R P. Identification of essential oil components by gas chromatography/mass spectroscopy (2001);
5. Aktar, Md Wasim. Impact of pesticides use in agriculture: their benefits and hazards. Interdisciplinary toxicology (2009) 2: 1. DOI http://dx.doi.org/10.2478/v10102-009-0001-7;
6. Ansari, M A. Larvicidal and mosquito repellent action of peppermint (Mentha piperita) oil. BIORESOURCE TECHNOLOGY (2000) 71: 267;

There are some cited patents in SciSearch. These consist of some or all of the following elements: assignee, title, publication year, country code, patent number and kind code, for example the first in this list of references:

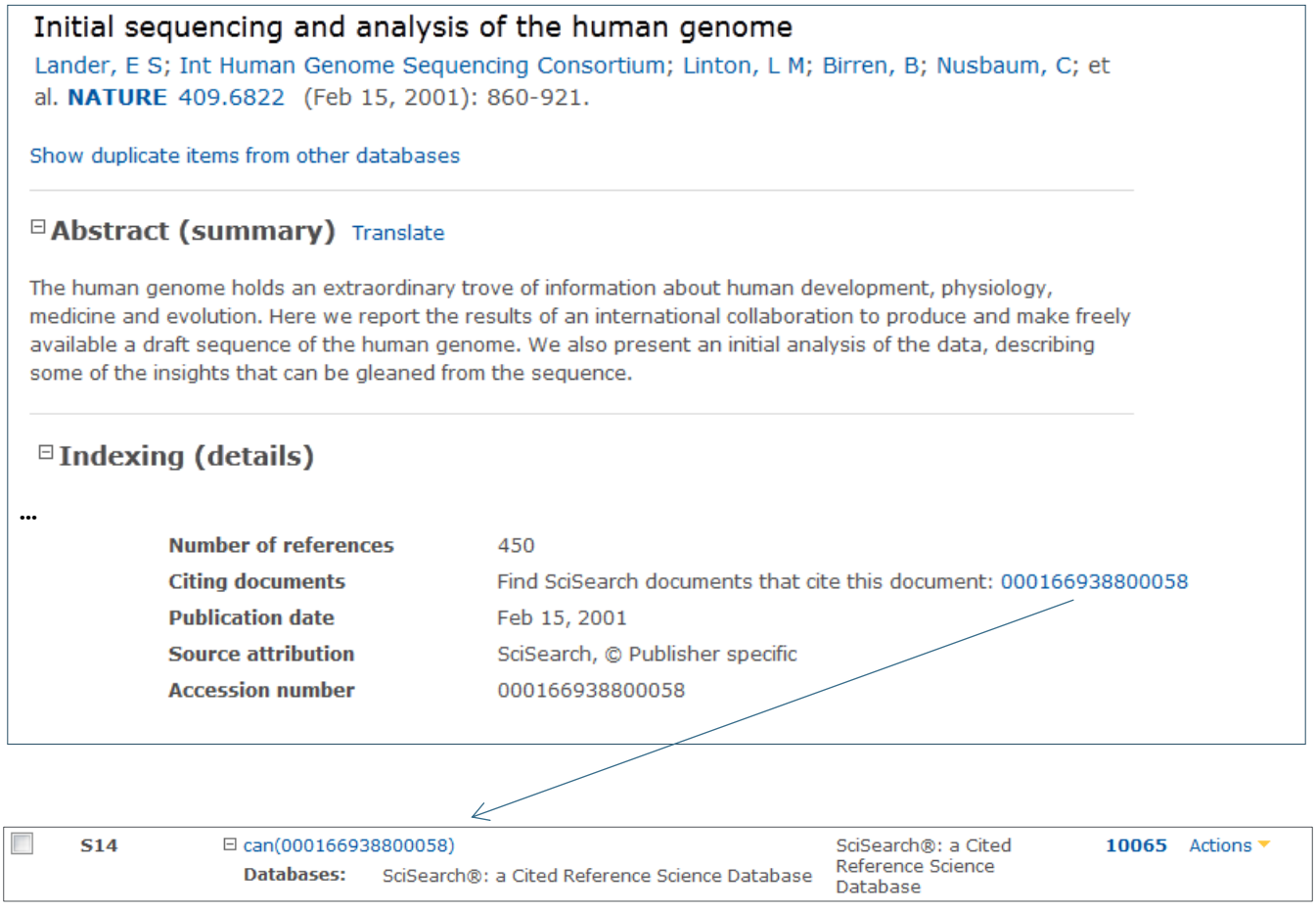
References	1. Kramaric, A. Thermoreversible gel as a liquid pharmaceutical carrier for a galenic formulation. European Patent (1992) 0551626(A1) (Patent); 2. Babar, A. Ketoprofen suppository dosage forms: In vitro release and in vivo absorption studies in rabbits. DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY (1999) 25: 241; 3. Baloglu, E. Rheological and mechanical properties of poloxamer mixtures as a mucoadhesive gel base. PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY (2011) 16: 627. DOI http://dx.doi.org/10.3109/10837450.2010.508074;

You can search for cited patents with the query RF(PATENT).

Citing articles

Finding articles that cite a known paper or author can reveal much about the continuation or discontinuation of certain areas of research, and who might be supporting or challenging the work.

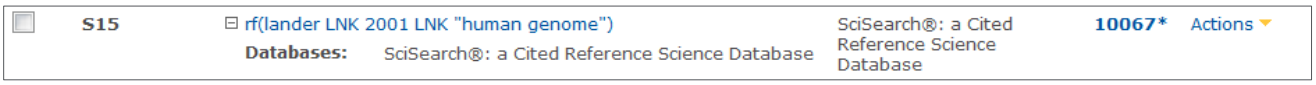
The easiest way to search for citing articles is to locate the document representing your reference and use the 'citing' link within it. For example, to find articles citing "Initial sequencing and analysis of the human genome" published by Lander et al in Nature 2001, search first for the Lander article, open it, locate the citing link towards the bottom of the document, and click it:



The resulting 10,065 articles are those citing the Lander paper above.

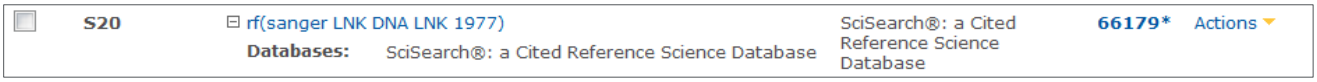
It is also possible to search for papers citing your reference on the Command Line or Advanced Search page. Start with the parts of the reference you know. Use field code RF which covers the whole reference, or the more specific ones CAU (cited author), CTI (cited title), CPUB (cited publication), CYR (cited year), CPG (cited first page), CVO (cited volume), and CDOI (cited DOI). Use LNK to combine parts of the same reference, or AND to combine different references.

For example, to find articles which cite the Lander 2001 paper on the human genome:

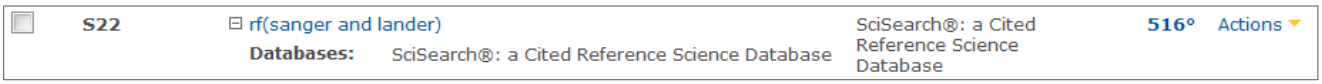


The 10,067 results are articles in SciSearch which cite Lander's paper, in effect the same as the result of set 14.

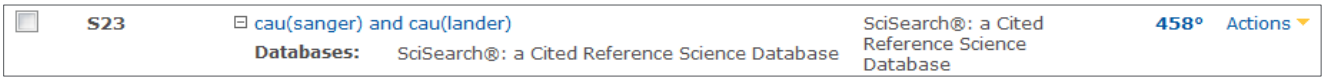
To find articles which cite Sanger's 1977 paper on DNA sequencing:



To find articles citing both Lander and Sanger:

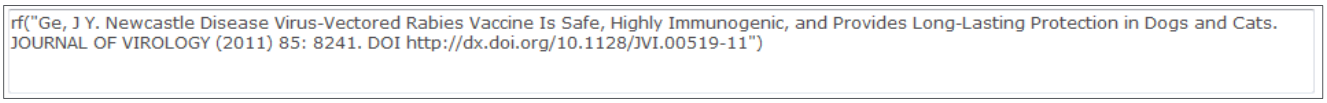


With very prominent names you may find the results a little imprecise as 'Sanger' or 'Lander' may be part of the article title. In such cases, using the more specific field codes will return better results, e.g.:

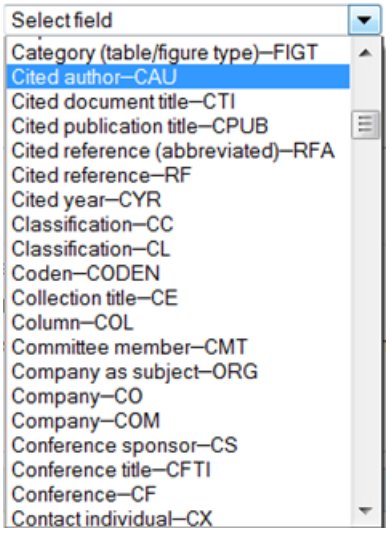


All parts of the reference are searchable. For example, to search for a reference dated 1971, from volume 48 or 49, page 267 with the word 'allergy' in the title or publication name, enter: *rf(1971 LNK (48 OR 49) LNK 267 LNK allergy)*

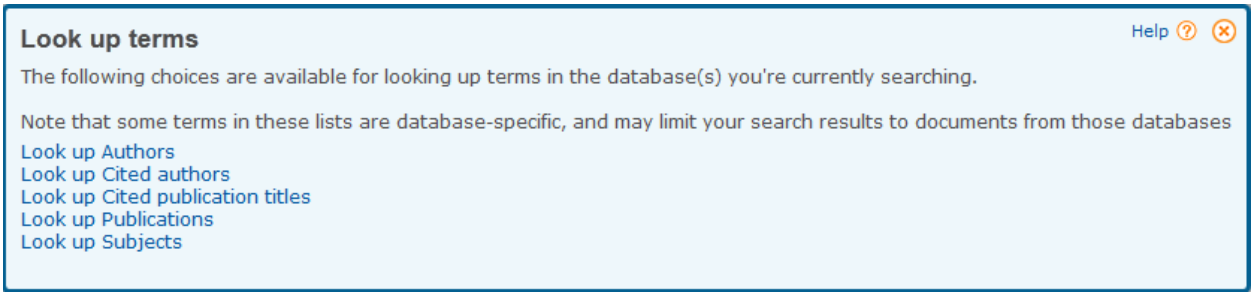
The reference is searchable in its entirety too, if you know it or want to copy and paste it, e.g.:



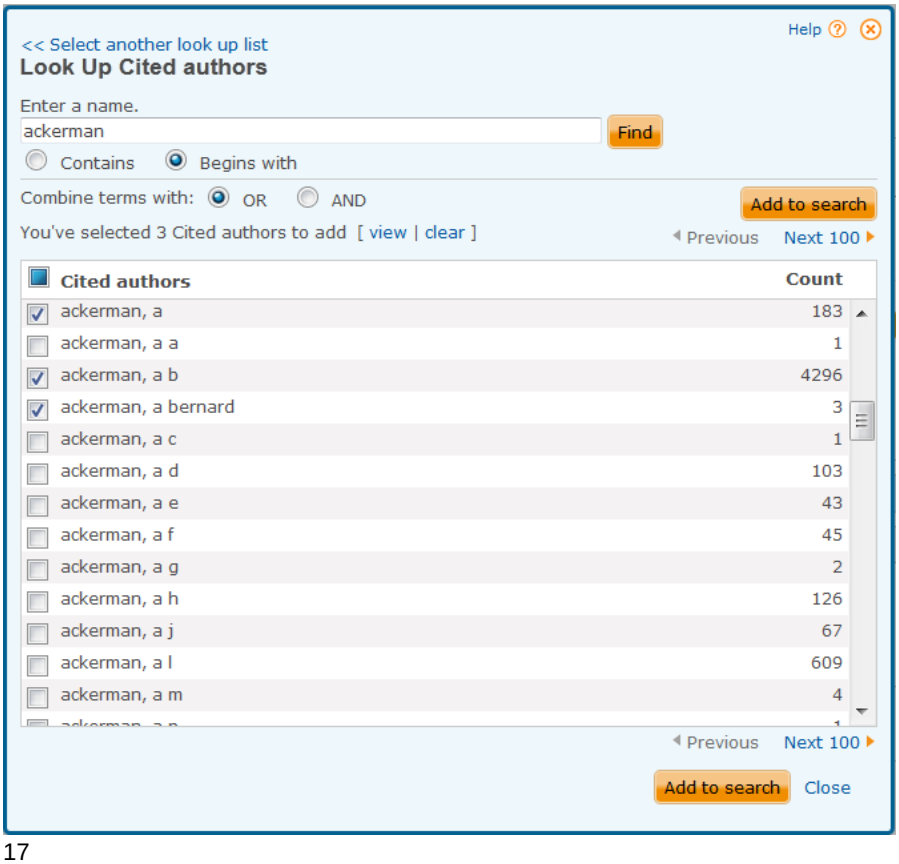
The examples above are all shown on the Command Line page. You can find the relevant field codes in the 'Search fields' menu:



You also have the option to look up various parts of the cited reference. On the Command Line, click 'Look up terms':

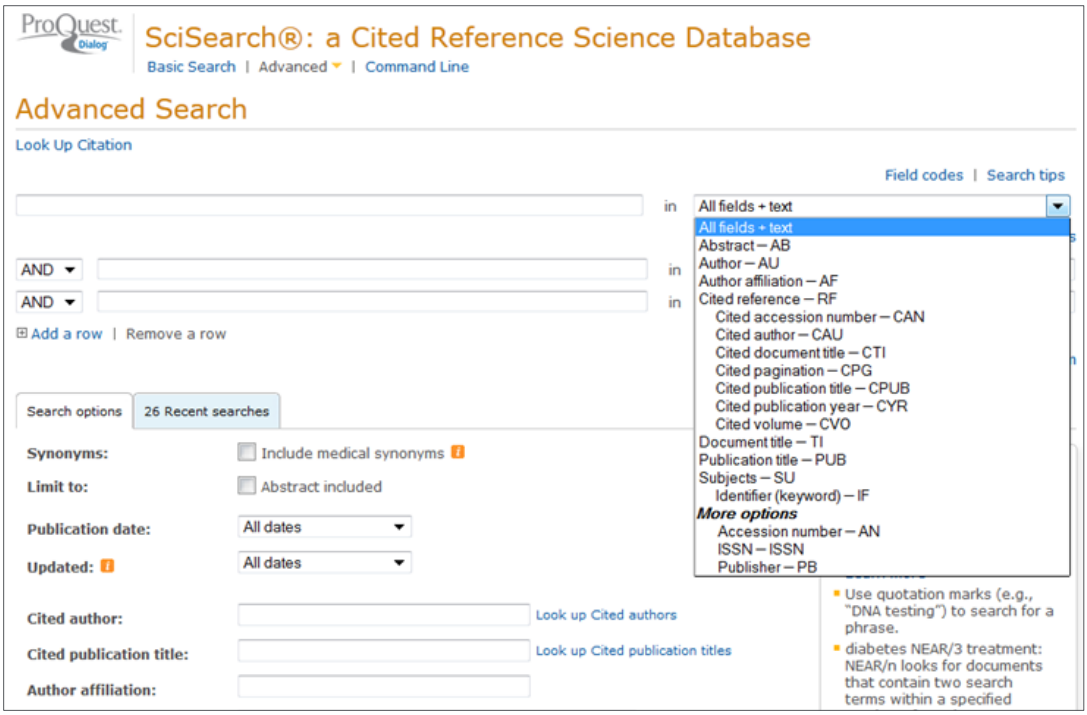


Then click the piece of the reference you want to look up – either the cited author or the cited publication title, enter a term or name, click Find and select the one(s) that look promising:



When looking up cited publications, bear in mind that about 80% of references have fully spelled out publication titles, and 20% may have abbreviations, so browse several options to get good coverage.

The search fields, their codes, and the look-up lists are all available on the Advanced Search page too:



When you have located the reference(s) you need, simply add them to your search. The results will be the articles in SciSearch which cite these papers; display, print or export these in the usual way to complete your research.

Cited authors

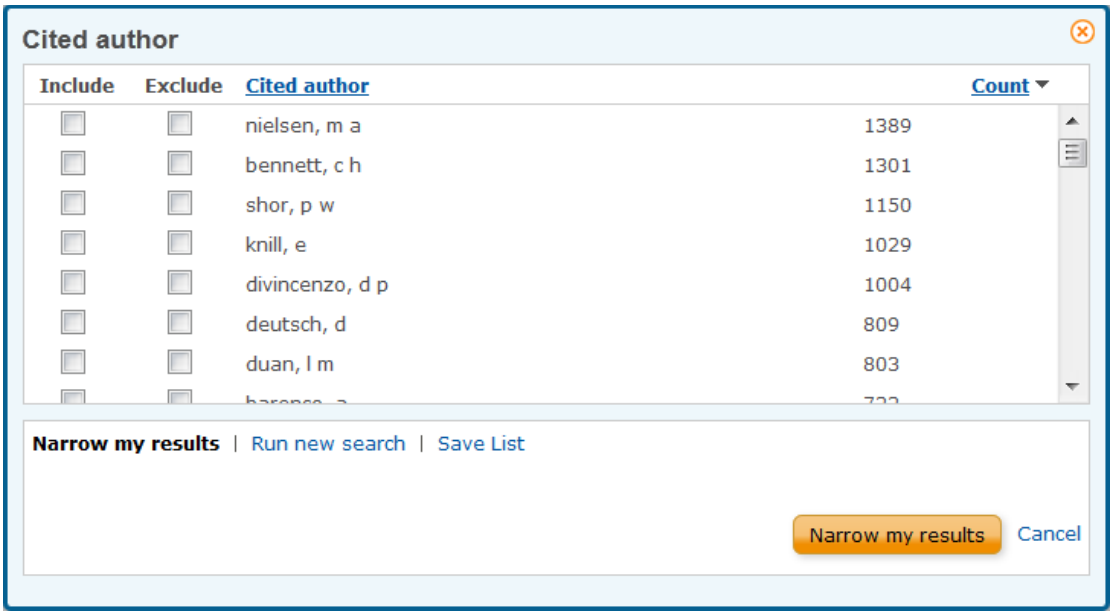
Frequently cited authors in a subject area may be potential collaborators, or you may wish to find key opinion leaders or rising stars. It is easy to identify them as follows. Start with a subject search in the usual way:

	Set	Search	Databases	Results	Actions
	S1	ti,su(quantum computation) **Databases:** SciSearch®: a Cited Reference Science Database	SciSearch®: a Cited Reference Science Database	5659*	Actions

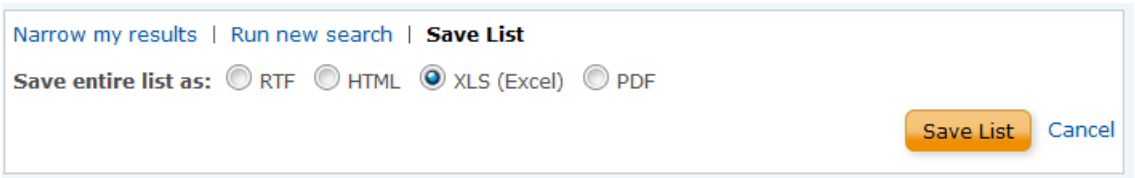
Subscription customers will see the 'Cited authors' results filter in the right-hand panel. Open this:

The five most frequently cited authors in the 5,659 results on quantum computation are displayed. Note that, in cited references, only the first author is included.

Choose 'More options' to review the top 500 cited authors:



In this example, 'Nielsen, M A' was the most frequently cited author in the results on quantum computation, appearing in 1,389 of the bibliographies in the 5,659 articles. At this point, subscription customers can include or exclude particular authors, run a new search, save the list, or export it to Excel for further analysis:



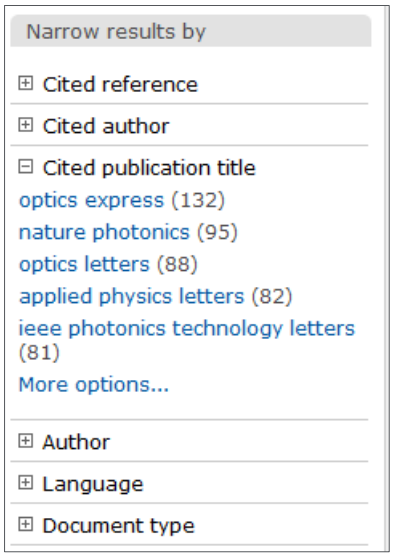
	A	B	C	D
1	**Searched for:**	**ti,su(quantum computation)**		
2	**Databases:**	**SciSearch®**		
3				
4	**Cited author**	**Count**		
5	nielsen, m a	1389		
6	bennett, c h	1301		
7	shor, p w	1150		
8	knill, e	1029		
9	divincenzo, d p	1004		
10	deutsch, d	809		
11	duan, l m	803		
12	barenco, a	722		
13	cirac, j i	714		
14	grover, l k	696		
15	loss, d	690		
16	kitaev, a y	660		
17	gottesman, d	645		
18	zanardi, p	602		
19	lloyd, s	569		
20	raussendorf, r	523		
21	jones, j a	499		

Cited publications

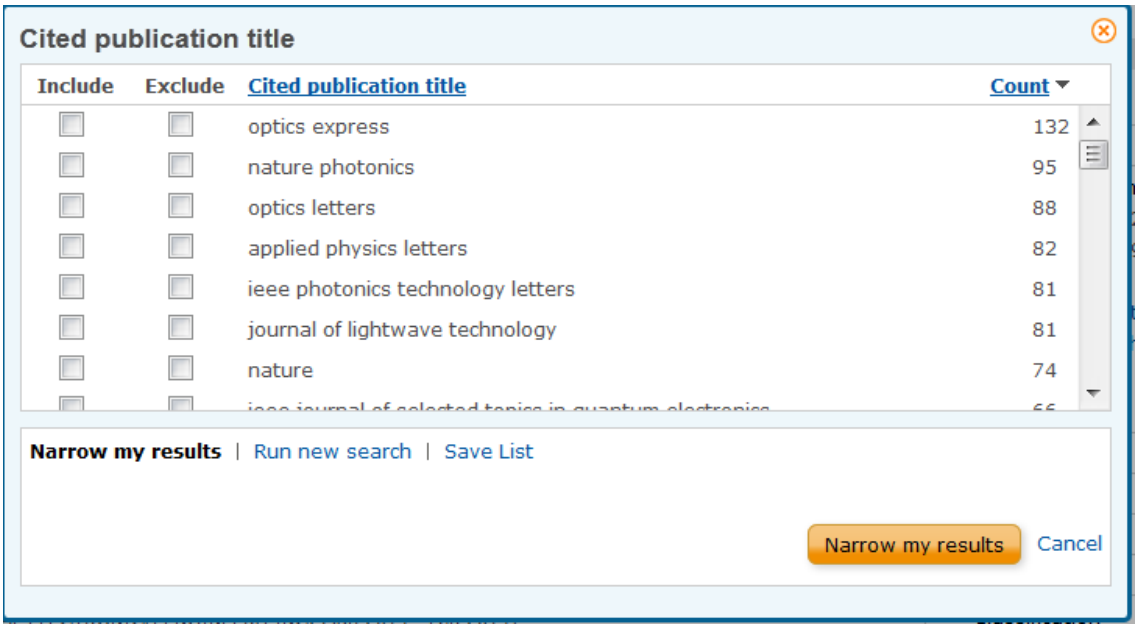
Frequently cited publications in a subject area will be a useful guide for authors. These are identified just as easily as the cited authors. Start with the subject:

	Set	Search	Databases	Results	Actions
	S2	ti,su(photonics) and yr(2014) **Databases:** SciSearch®: a Cited Reference Science Database	SciSearch®: a Cited Reference Science Database	306*	Actions

Subscription customers can open the 'Cited publications' filter in the right-hand panel to see the top five cited publications:



Again, choose 'More options' to see the list of 500 most cited publications:



In this example, the journal Optics Express was the most frequently cited publication: it appeared in 132 of the 306 results on photonics in 2014.

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