

# ProQuest Technology Research Professional

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#### Description

This database is the most comprehensive engineering and technology research offering from ProQuest, with coverage of the world literature on technology and applied science, including materials science, aerospace engineering, mechanical engineering, civil engineering, condensed matter physics, computer science and electronic engineering.

#### Included Databases

- Abstracts in New Technology & Engineering
- Civil Engineering Abstracts
- Earthquake Engineering Abstracts
- Mechanical & Transportation Engineering Abstracts
- ProQuest Advanced Tech & Aerospace Professional
- ProQuest Materials Research Professional

#### The following thesauri are available:

- Abstracts in New Technologies and Engineering Thesaurus
- Copper Thesaurus
- Engineered Materials Thesaurus
- Metallurgical Thesaurus
- NASA Thesaurus
- Technology thesaurus

#### **Date Coverage**

1962-present

### **Geographic Coverage**

International

#### Subject Coverage

- Aerospace
- Civil engineering
- Computer and information systems
- Earthquake engineering
- Electronics
- Engineered materials
- Environmental engineering
- Materials Science
- Mechanical engineering
- New technologies in engineering
- Physics
- Telecommunications

#### **Update Frequency**

Update records are loaded on most days, but there is usually one large update towards the start of each calendar month.

### **Document Types**

- Books
- Conference Papers
- Journal Articles
- Patents
- Reports
- Standards

### Publisher

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# Sample document

	Citation/Abst	ract « Back to results	Document 1 o	
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ті	Electrooxidation of hydrazine hydrate using NiaLa catalyst for anion exchange membrane fuel cells Sakamoto, Tomokazu; Asazawa, Koichiro; Martinez, Ulises 🐹; Halevi, Barr; Suzuki, Toshiyuki; et al. Journal of Power Sources 234 (Jul 15, 2013): 252-259. Show duplicate items from other databases		Other formats:	
B			Brief citation	
			Find a copy	
_			360 LINK to Full Text	
B	Abstract (summary) Translate		Check for full text via 360 Link	
	Carbon supported Ni, La impregnation/freeze-dryi	n ØS•F•X		
	of hydrazine hydrate on			
		e array in 1.0ANBM KOHANB+ANB1.0ANBM hydrazine hydrate solution at 60ANB degre		
	C. The Ni0.9La0.1/C cata	ty Check for full text via WebBridge		
		illarly made Ni/C catalyst. Chemical insight suggests that the cause of improved 9La0.1/C catalyst is likely multifunctional synergism of the components. However, X-ra		
		e (XAFS) and high voltage electron microscopy (HVEM) unexpectedly show some		
		the fcc-Ni catalyst particles. As a result of the screening tests, an unsupported synthesized by spray pyrolysis and tested in a direct hydrazine hydrate fuel cell MEA	More like this	
	(DHFC) producing 453AN	IBmWANBcm-2.	See similar documents	
υ	🗆 Indexing (detai	Is) 🗏 Cite		
- I	Subject	Carbon;		
		Fuel cells;		
		Nickel;		
		High voltages; Hydrates;		
		Catalysts; Arrays;		
		Hydrazines		
гі	Title	Electrooxidation of hydrazine hydrate using NiaLa catalyst for anion exch membrane fuel cells	ange	
U	Author	Sakamoto, Tomokazu; Asazawa, Koichiro; Martinez, Ulises; Halevi, Barr; Suzuki, Toshiyuki; Arai, Shigeo; Matsumura, Daiju; Nishihata, Yasuo; Atanassov, Plamen; Tanaka, Hirohisa		
A	Language	English		
E	Document type	Journal Article		
.	Publication title	Journal of Power Sources		
B C	Source details	Journal of Power Sources [J. Power Sources]. Vol. 234, pp. 252-259. 15 J	ul	
~		2013.		
o	Volume	234		
G	Pagination	252-259		
т	Page count	8		
N	ISSN	0378-7753		
,	Publisher	Elesevier Science B.V., P.O. Box 211 Amsterdam 1000 AE Netherlands		
B L	Subfile	Mechanical & Transportation Engineering Abstracts (MT); Electronics and Communications Abstracts (EA); CSA / ASCE Civil Engineering Abstracts (		
		Aerospace & High Technology Database (AH)	CE),	
	URL	http://www.sciencedirect.com/science/article/pii/S0378775313002474		
	Publication date	Jul 15, 2013		
R   V	Date revised	2013-06-01		
•	Accession number	17991762		
N	Document URL			
	Document UKL	http://search.proquest.com/professional/docview /1365152855?accountid=137296		
/	First available	2013-06-06		
,	Updates	2013-06-06		

# Search fields

Field Name <sup>1</sup>	Field Code	Example	Description and Notes
Abstract	AB	ab("X-ray absorption fine structure")	Use adjacency and/or Boolean operators to narrow search results.
Abstract present	ABANY	"protein targets " AND abany(yes)	Add: AND ABANY(YES) to a query to limit retrieval to records with abstracts.
Accession number	AN	an(17991762)	A unique document identification number assigned by the information provider.
			A record can display multiple accession numbers – depending on the products within which it is stored.
All fields	ALL	all("direct hydrazine hydrate fuel cell")	Searches all fields in bibliographic files. Use adjacency and/or Boolean operators to narrow search results.
All fields + text		"direct hydrazine hydrate fuel cell"	Same as ALL field code: searches all fields in bibliographic files.
Author <sup>1</sup> Author First Name Author Last Name	AU AUFN AULN	au("tanaka, hirohisa") aufn(hirohisa) auln(tanaka)	Includes all authors. See also First author.
Author affiliation	AF	af(Physical Biosciences Division, Lawrence Berkeley National Laboratory, Berkeley)	
Cited author	CAU	cau(thomas harris)	Authors of cited works.
Cited document title	СТІ	cti("lithium titanate")	
Cited publication date	CYR	cyr(2009)	
Cited publication title	CPUB	cpub("biotechnology for biofuels")	
Classification code <sup>2</sup>	сс	cc("electrical properties")	Not currently displayed
Conference information	CF	cf("offshore structures ")	Includes conference title, location,
		cf(glasgow)	number, date.
		cf(sweden)	
-		cf(2008)	
Corporate author	СА	ca(hoechst or schering)	
Date revised	DREV	drev(2013-06-01)	Date that the Information provider revised
		drev(>20131231)	the record. Note that not all Providers identify a date of revision.

DOI	DOI	doi("10.1007/s00707-013-0941-z")	Digital Object Identifier. Search the portion of the DOI that comes after http://dx.doi.org/.
Document feature	DF	df(graphs)	Indicates presence in original article of availability of graphics, tabular data, illustrations, etc.
Document title	ТІ	ti("Electrooxidation of hydrazine hydrate using NiaLa catalyst")	Includes Title, Alternate Title, Original Title, and Subtitle but not Publication Title (PUB).
Title only	TIO	tio("NiaLa catalyst")	Searches only the Title, not Subtitle or Alternate Title.
Alternate title	ΟΤΙ	oti(federleicht)	Usually the original, non-English title
Document type	DTYPE	dtype("journal article")	
First author	FAU	fau("sakamoto, tomokazu)	First name listed in Author field. It is included in Author browse, but its position cannot be specified in the Author browse.
L			See also Author.
First available	FAV	fav(20130606) fav(>20131231) fav(20120101-20120630)	Indicates the first time a document was loaded in a specific database on PQD. It will not change regardless of how many times the record is subsequently reloaded, as long as the accession number does not change.
From database <sup>3</sup>	FDB	ti(ligand?) AND fdb(materialsresearchprof) ti(ligand?) AND fdb(10000201)	Useful in multi-file searches to isolate records from a single file. FDB cannot be searched on its own; specify at least one search term then AND it with FDB.
Identifier (keyword)	IF	if(irrigation OR drainage)	
ISBN	ISBN	isbn(9780877035527)	
ISSN	ISSN	issn(0378-7753) issn(03787753)	Also retrieves electronic ISSNs.
Issue	ISS	iss(1)	Also searchable via the Look Up Citation tool.
Journal title	JN, PUB	jn("journal of power sources")	Journal names only. For complete Publication name types, use PUB.
			Displays in Publication title. Also searchable via the Look Up Citation tool for Publication name.
Language	LA	la(english)	The language in which the document was originally published.

Notes	NT	nt(reprint*)	
Number of pages	PCT	pct(8)	
Pagination	PG	pg(252-259)	See also Start page.
Patent application date	PAD	pad(20040501)	Displays in Patent information
		pad(2004-05-01)	
		pad(>20101231)	
		pad(20110101-20110630)	
Patent application number	PA, PAT	pa("10/840183")	Displays in Patent information
Patent assignee	AP, PAT	ap(tata)	Displays in Patent information
Patent publication country	PC, PAT	pc(us)	Displays in Patent information
Patent publication number	PN, PAT	pn(us7249222)	Patent publication number
Publication date	PD	pd(20130715)	
Publication title <sup>2</sup>	PUB	pub("journal of power sources")	Title of publication where document originally appeared. Also searchable via the Look Up Citation tool.
Publication type	PT, STYPE	pt("scholarly journals")	
Publication year	YR, PY	yr(2015)	Single year or a range of years may be
		yr(>2011)	searched.
		yr(2013-2014)	Displays in Publication date.
Publisher	PB	pb("wiley blackwell")	
References	RF	rf(Krause AND "climate protection")	
Source type	PT, STYPE	stype("conference papers & proceedings")	Searches references cited in the original document.
Start page	FP	fp(134)	Also searchable on the Look Up Citation page.
			Displays in Pagination.
Subfile	SFL	sfl(metadex)	The individual database(s) in which the record appears.
		sfl(	Also searchable using two-letter codes (see appendix 1,below)
Subject <sup>2</sup>	SU	su(catalysts)	

Updates	UD	ud(20130606)	
Volume	VO	vo(234)	
1 Proquest Technology Personal Professional is a 'mote product' it brings tegether multiple databases under a single search interface. All the fields			

Proquest Technology Research Professional is a 'meta-product'; it brings together multiple databases under a single search interface. All the fields
listed here as being searchable and displayable may not be present in every one of these individual databases.

2. A Lookup/Browse feature is available for this field in the Advanced Search dropdown or in Browse Fields.

3. Go to Field Codes Help in Advanced Search. Click 'Search' from the bottom left nav. Enter: "fdb" and click: Search. Then click: "Targeting databases when you search," which will retrieve the list of database names and codes that can be searched with FDB.

### Search tools

Field codes are used to search document fields, as shown in the sample document. Field codes may be used in searches entered on the **Basic Search**, **Advanced Search**, and **Command Line** search pages. **Limit options**, **Look up lists**, and **"Narrow results by" filters** tools are available for searching. Some data can be searched using more than one tool.

### **Limit options**

Limit options are quick and easy ways of searching certain common concepts. Check boxes are available for:

### Scholarly journals

Short lists of choices are available for:

### Source type, Document type and Language

Date limiters are available in which you can select single dates or ranges for date of publication and updated.

### Lookup lists

You can browse the contents of certain fields by using Look Up lists in the fields drop-down for:

### Author, Publication title, Subject, Classification

### "Narrow Results By" filters

When results of a search are presented, the results display is accompanied by a list of "Narrow results by" options shown on the right-hand panel. Click on any of these options and you will see a ranked list showing the most frequently occurring terms in your results. Click on the term to apply it to ("narrow") your search results. Narrow results by filters in this database include:

# Scholarly journals, Source type, Publication title, Document type, Author, Subject, Classification, Language, Database, Publication date.

### Look up citation

If you need to trace a particular bibliographic reference, use the Look Up Citation feature. Find a link to this toward the top left of the Advanced Search page, or in the drop list under Advanced on any search form; click this and you will go to a page where you can enter any known details of the citation, including: Document title, Author, Publication title, ISSN, ISBN, Volume, Issue, Page, Publication date, DOI.

## Subfiles

The following subfiles are available in ProQuest Technology Research Professional. Both subfile name and two-letter code is searchable with the SFL field label.

- Advanced Polymers Abstracts (EP)
- Aerospace & High Technology Database (AH)
- Aluminium Industry Abstracts (AI)
- ANTE: Abstracts in New Technologies and Engineering (AN)
- Ceramic Abstracts/World Ceramics Abstracts (WC)
- Civil Engineering Abstracts (CE)
- Composites Industry Abstracts (ED)
- Computer and Information Systems Abstracts (CI)
- Copper Technical Reference Library (CD)
- Corrosion Abstracts (CO)
- Earthquake Engineering Abstracts (EQ)
- Electronics and Communications Abstracts (EA)
- Engineered Materials Abstracts, Ceramics (EC)
- Environmental Engineering Abstracts (EN)
- Materials Business File (MB)
- Mechanical & Transportation Engineering Abstracts (MT)
- METADEX (MD)
- Solid State and Superconductivity Abstracts (SO)

### **Document formats**

Pre-defined document formats are available for viewing and download. Search results can be downloaded with the Download all results, Email, Print and Export/Save options, and when creating an alert. To design your own download format, choose the "Custom" format option and check the fields to be displayed.

Document Format	Fields	Online	Export / Download
Brief view	Title and Publication date.	✓	
Detailed view	Same as Brief view plus a 3-line KWIC window.	$\checkmark$	
KWIC (Keyword in Context)	Detailed view plus all occurrences of your search terms, highlighted within the fields where the terms occur.	~	~
Preview	Title, Author, Publication title, Publisher, Volume, Issue, Pagination, Publication date, Abstract, Subject.	V	
Brief citation	Bibliographic record minus Abstract and Indexing	$\checkmark$	√
Citation/Abstract	Bibliographic citation plus Abstract and indexing		
Full text	The record with Full text	<b>√</b> 1	√2
Full text + graphics	Complete record with Full text plus graphics	<b>√</b> <sup>3</sup>	
Link to full text	A link to the original document.	<b>√</b> <sup>3</sup>	
Full text PDF	PDF version of the original article	√3	
Custom	Choose the fields you want.		√3

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2 Full text is not available for export/download where only A&I (abstract & indexing) data is available.

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