

PASCAL is a unique multidisciplinary, multilingual bibliographic database covering the major international literature in Science, Technology and Medicine. Each citation includes the article's original title, an English translated title and, in most cases, a French title. Over 75% of documents have an abstract, mostly in English or French. Author abstracts are included in 80% of records since 1995. Author affiliations are given in all records since 1995. Approximately 5000 journal titles are indexed in PASCAL which corresponds to a worldwide coverage. The coverage in PASCAL by language is approximately as follows: English 76%, French 10%, Russian 6%, German 5%, and other languages 3%. Controlled terms from a vocabulary of over 80,000 terms are provided in English, French, and in some cases, Spanish; German descriptors are also provided in the area of metallurgy.

## SUBJECT COVERAGE

- Agriculture
- Astronomy and Astrophysics
- Biology
- Chemistry and Related Fields
- Engineering and Technology
- Environment
- Food Industry
- Forestry
- Medicine
- Pharmacology
- Physical Sciences
- Psychology

## SOURCES

- Journals (93%)
- Reports
- Conference Proceedings
- Books
- Theses (mainly French)

## FILE DATA

- 1977 to present (05/08): more than 15.7 million records
- Updated weekly (with about 10,000 records)
- Automatic current-awareness searches (SDIs) are run weekly

## PRODUCER

Centre National de la Recherche  
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Germany  
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E-mail: [helpdesk@fiz-karlsruhe.de](mailto:helpdesk@fiz-karlsruhe.de)

## USER AIDS

- Thesaurus for the Social Sciences \*
  - Online Helps (HELP DIRECTORY lists all help messages available)
  - STNGUIDE
- \* available at producer /supplier

SEARCH AND DISPLAY FIELDS

Search Field Name	Search Code	Search Examples	Display Code
Basic Index (contains single words from all titles (TI, TIEN, TIES, TIDE, TIFR), abstract (AB), abstract in French (ABFR), all controlled terms (CT, CTDE, CTES, CTFR), and all broader terms (BT,BTDE, BTES, BTFR) fields) 1)	None or /BI	S GENETIC DIVERSITY S MAN MACHINE SYSTEM S NIOBIUM (S) ORGANIC S ?CEPHALOSPOR?	TI, TIEN, TIES, TIDE, TIFR, AB, ABFR, CT, CTDE, CTES, CTFR, BT, BTDE, BTES, BTFR
Abstract	/AB	S FISH/AB	AB
Abstract in French	/ABFR	S MUSCULAIRES/ABFR	ABFR
Accession Number	/AN	S 2000-0403563/AN	AN
Application Number, Original	/APO	S PCT-US85-01299/APO	SO
Author (includes patent inventor)	/AU	S MANAHAN D T/AU S BUCHER, D/AU	AU
Availability (of document) 3)	/AV	S CNRS-1007/AV	AV
Bibliographic Level	/BL	S L1 AND MONOGRAPHIC/BL	BL
Broader Term	/BT (/BTEN)	S MANAGEMENT SCIENCE/BT	BT
Broader Term (in German)	/BTDE	S NETZPLANTECHNIK/BTDE	BTDE
Broader Term (in Spanish)	/BTES	S PACIFICO NORDESTE/BTES	BTES
Broader Term (in French)	/BTFR	S OPTIQUE ATMOSPHERIQUE/BTFR	BTFR
Classification Code 3)	/CC (/CCEN)	S 001A01A03A/CC S ABSORPTION/CC	CC
Classification Code in Spanish) 3)	/CCES	S OBESIDAD/CCES	CCES
Classification Code (in French) 3)	/CCFR	S ANALYSE NUMERIQUE/CCFR	CCFR
Corporate Source (includes affiliation of author and patent assignee) 3)	/CS	S DEPARTMENT NEUROLOGY/CS	CS
Controlled Term (contains Physics and Astronomical Code)	/CT (/CTEN)	S BODE DIAGRAM/CT	CT
Controlled Term (in German) 4)	/CTDE	S BEGLEITELEMENT/CTDE	CTDE
Controlled Term (in Spanish) (contains Physics and Astronomical Code)	/CTES	S ABANDONO ESTUDIO/CTES	CTES
Controlled Term (in French) (contains Physics and Astronomical Code)	/CTFR	S SCIENCE DU SOL/CTFR	CTFR
Controlled Word	/CW	S MONOCRYSTALS/CW	CT, CTDE
Country of Publication (ISO code and text)	/CY	S AU/CY S AUSTRALIA/CY	CY
Dissertation Information	/DI	S MARSEILLE/DI AND 1999/PY	SO, DI
Document Type (ISO code and text, and French text)	/DT (/TC)	S B/DT AND L5 S BOOK/DT AND L5 S LIVRE/DT AND L5	DT
Field Availability	/FA	S TIES/FA	not displayed
International Patent Classification	/IC (/IPC)	S A61K035/IC	IC
International Standard (Document) Number	/ISN	S 1000-9426/ISN S AAEJAF/ISN S 1-85312-006-5/ISN	ISN, SO
Journal Title (contains full and abbreviated title)	/JT	S JOURNAL DE GENETIQUE HUMAINE/JT S J ACOUST EMISS/JT	JT, JTA, JTF, SO
Language (ISO code and text)	/LA	S GERMAN/LA S DE/LA	LA
Meeting Date 2)	/MD	S MD=4 NOV 1999	MD, SO

- 1) In addition to right truncation, simultaneous left and right truncation are available in this field. At least 4 characters need to be used for the length of the stem.
- 2) Numeric search field that may be searched using numeric operators or ranges.
- 3) Search with implied (s) proximity is available in this field.
- 4) Only available in the area of metallurgy.

## SEARCH AND DISPLAY FIELDS (continued)

Search Field Name	Search Code	Search Examples	Display Code
Meeting Location	/ML	S LYON/ML	ML, SO
Meeting Title	/MT	S AACHENER DERMATOLOGENABEND/MT	MT, SO
Meeting Year 2)	/MY	S 1998-1999/MY	MY, SO
Note (contains translation data and map information)	/NTE	S VERSION ANGLAISE/NTE S GEOLOGICAL MAP/NTE	NTE
Number of Report	/NR	S NBS-IR85-3281/NR	NR
Physics and Astronomy Code	/PAC	S 0130M/PAC	PAC, CT, CTES, CTFR
Publisher 3)	/PB	S SPRINGER BERLIN/PB	PB, SO
Publication Date 2)	/PD	S 19891018/PD	PD, SO
Patent Number, Original	/PNO	S EP 0 080 384/PNO	SO
Priority Number, Original	/PRNO	S GB 8206262/PRNO	SO
Publication Year 2)	/PY	S 1999-2000/PY	PY, SO
Reference Count 2)	/REC (/RE.CNT	S REC>25	REC, SO
Summary Language (ISO code and text)	/SL	S FRENCH/SL AND L5 S FR/SL	SL
Source (contains journal title, patent-, application-, and priority information, meeting information, pagination, number of report, publisher, dissertation information, ISSN, ISBN, and CODEN)	/SO	S JOURNAL OF PERFORMANCE/SO S JPCFEV/SO and 1999/SO S (PATENT AND FR)/SO S CNRS/SO	SO
Title (contains original titles and titles in English, French, German and Spanish)	/TI	S VISIBLE SPECTRUM/TI S RISULTATI/TI AND EN/SL	TI, TIDE, TIEN, TIES, TIFR
Title (in German)	/TIDE	S TECHNISCHE LOESUNGEN/TIDE	TIDE
Title (in English)	/TIEN	S SEMICONDUCTOR LASER?/TIEN	TIEN
Title (in Spanish)	/TIES	S INSTRUMENTO ECONOMICO/TIES	TIES
Titel (in French)	/TIFR	S METHODE DE DETERMINATION/TIFR	TIFR
Update Date	/UP (/ED)	S UP=JAN 2001	UP
Word Count, Title 2)	/WC:T	S WC.T<10	WC.T

2) Numeric search field that may be searched using numeric operators or ranges.

3) Search with implied (s) proximity is available in this field.

## DISPLAY AND PRINT FORMATS

Any combination of display fields and formats may be used to display or print answers. Multiple codes must be separated by commas or spaces, e.g. 'D L1 1-5 TI AU'. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for all searchable fields. Highlighting must be ON during SEARCH in order to use the HIT, KWIC, and OCC formats.

More information about display fields for specific types of information is available by typing one of the following 'HELP' commands at an arrow prompt (=>) in the PASCAL database:

HELP DFIELDS	-	lists all valid custom formats
HELP EFIELDS	-	lists all selectable fields
HELP FORMATS	-	lists valid predefined formats
HELP SRTFIELDS	-	lists valid sort fields

## DISPLAY AND PRINT FORMATS (continued)

Format	Definition	Examples
AB	Abstract	D TI AB
ABFR	Abstract in French	D ABFR
AN	Accession Number	D 1-5 AN
AU	Author (includes patent inventor)	D AU TI
AV	Availability	
BL	Bibliographic Level	
BT (BTEN)	Broader Term	D BT
BTDE	Broader Term in German	D BTDE
BTES	Broader Term in Spanish	D BTES
BTFR	Broader Term in French	D BTFR
CC (CCEN)	Classification Code	D CC
CCES	Classification Code (in Spanish)	D CCES
CCFR	Classification Code (in French)	D CCFR
CP	Copyright Notice	D CP
CS	Corporate Source (includes affiliation of author and patent assignee)	S CS
CT (CTEN)	Controlled Term	D CT CC
CTDE	Controlled Term in German	D CTDE
CTES	Controlled Term in Spanish	D CTES
CTFR	Controlled Term in French	D CTFR
CY	Country of Publication	D CY
DI 1)	Dissertation Information	D DN
DT (TC)	Document Type	D DT
IC (IPC)	International Patent Classification	
ISN 1)	International Standard (Document) Number	
JT 1)	Journal Title (contains full and abbreviated title)	
JTA 1)	Journal Title, Abbreviated	
JTF 1)	Journal Title, Full	
LA	Language	D LA TI
MD 1)	Meeting Date	
ML 1)	Meeting Location	
MT 1)	Meeting Title	
MY 1)	Meeting Year	
NR	Number of Report	D NR
NTE	Note (contains translation data and map information)	D SO NTE
PAC	Physics and Astronomy Code	
PB 1)	Publisher	
PD 1)	Publication Date	
PY 1)	Publication Year	D PY
REC (REC.CNT) 1)	Reference Count	
SL	Summary Language	
SO	Source	D SO
TI	Titles	D TI 1-10
TIDE	Title (in German)	D TIDE
TIEN	Title (in English)	D TIEN
TIES	Title (in Spanish)	D TIES
TIFR	Title (in French)	D TIFR
UP (ED) 1)	Update Date	
WC.T 1)	Word Count, Title	D WC.T
ABS	AN, CP, AB, ABFR	
ALL (ALLEN)	BIB, ABS, IC, CC, PAC, CT, BT	D ALLEN
ALLDE 3)	BIB, ABS, IC, CC, PAC, CTDE, BTDE	D ALLDE
ALLES	BIB, ABS, IC, CCES, PAC, CTES, BTES	D ALLES
ALLFR	BIB, ABS, IC, CCFR, PAC, CTFR, BTFR	D ALLFR
DALL	ALL, with delimiter for post-processing	D DALL
IALL	ALL, indented with text labels	D IALL

1) Custom display only.

3) Only available in the area of metallurgy.

## DISPLAY AND PRINT FORMATS (continued)

Format	Definition	Examples
BIB	AN, CP, TI (all titles), AU, CS, SO, NR, DT, BL, CY, LA, SL, NTE, AV (default)	D 8 BIB
IBIB	BIB, indented with text labels	D IBIB
IND	AN, CP, IC, CC, CCFR, CCES, PAC, CT, CTFR, CTDE, CTES, BT, BTFR, BTDE, BTES	D IND
INDDE	3) AN, CP, IC, CC, PAC, CTDE, BTDE	D INDDE
INDEN	AN, CP, IC, CC, PAC, CT, BT	D INDEN
INDES	AN, CP, IC, CCES, PAC, CTES, BTES	D INDES
INDFR	AN, CP, IC, CCFR, PAC, CTFR, BTFR	D INDFR
MAX	BIB, ABS, IC, CC, CCFR, CCES, PAC, CT, CTFR, CTDE, CTES, BT, BTFR, BTDE, BTES	D 1-3 MAX
TRIAL (SAM, FREE)	TI (all titles), IC, CC, CCFR, CCES, PAC, CT, CTFR, CTDE, CTES, BT, BTFR, BTDE, BTES	D TRI
TRIALDE	3) TI (all titles), IC, CC, PAC, CTDE, BTDE	
TRIALEN	TI (all titles), IC, CC, PAC, CT, BT	
TRIALES	TI (all titles), IC, CCES, PAC, CTES, BTES	
TRIALFR	TI (all titles), IC, CCFR, PAC, CTFR, BTFR	
SCAN	2) TI, CT, CTFR, CTDE, CTES (random display without answer number)	
HIT	Hit-term(s) and field(s)	D HIT
KWIC	Up to 50 words before and after hit-term(s) (KeyWord-In-Context)	D KWIC
OCC	Number of occurrences of hit-term(s) and field(s) in which they occur	D OCC

2) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

3) Only available in the area of metallurgy.

## SELECT, ANALYZE, AND SORT CODES

The SELECT command is used to create E-numbered or L-numbered lists of terms taken from the specified field(s) in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphanumeric (A) or numeric (N) order of the specified field(s).

Definition	Code	Analyze/ Select 1)	Sort
Abstract	AB	x 2)	-
Abstract in French	ABFR	x 2)	-
Accession Number	AN	x	-
Author	AU	x	A
Availability	AV	x	A
Bibliographic Level	BL	x	A
Broader Term (in English)	BT (BTEN)	x	-
Broader Term (in German)	BTDE	x	-
Broader Term (in Spanish)	BTES	x	-
Broader Term (in French)	BTFR	x	-
Classification Code	CS (CCEN)	x	A
Classification Code (in Spanish)	CCES	x	A
Classification Code (in French)	CCFR	x	A

1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.

2) Appends /BI to the terms created by SELECT.

## SELECT, ANALYZE, AND SORT CODES

Definition	Code	Analyze/ Select 1)	Sort
Citation	CIT (RE)	x 3)	A
CODEN	CODEN	-	A
Corporate Source (patent assignee)	CS	x	A
Controlled Term	CT (CTEN)	x	-
Controlled Term (in German)	CTDE	x	-
Controlled Term (in Spanish)	CTES	x	-
Controlled Term (in French)	CTFR	x	-
Country of Publication	CY	x	A
Dissertation Information	DI	x	A
Document Type	DT (TC)	x	A
International Patent Classification	IC (IPC)	x	A
International Standard Book Number	ISBN	-	A
International Standard (Document) Number	ISN	x 4)	A
International Standard Serial Number	ISSN	-	A
Journal Title (contains full and abbreviated title)	JT	x	A
Journal Title, Abbreviated	JTA	x 5)	A
Journal Title, Full	JTF	x 5)	A
Language	LA	x	A
Meeting Date	MD	x	N
Meeting Location	ML	x	A
Meeting Title	MT	x	A
Meeting Year	MY	x	N
Number of Report	NR	x	A
Note	NTE	x	A
Occurrence Count of Hit Terms	OCC	-	N
Physics and Astronomy Code	PAC	x	A
Publisher	PB	x	A
Publication Date	PD	x	N
Publication Year	PY	x	N
Reference Count	REC (RE.CNT)	x	N
Summary Language	SL	x	A
Source	SO	x 6)	A
Title	TI	x	A
Title (in German)	TIDE	x	A
Title (in English)	TIEN	x	A
Title (in Spanish)	TIES	x	A
Title (in French)	TIFR	x	A
Update Date	UP (ED)	x	N
Word Count, Title	WC.T	x	N

- 1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
- 3) SELECT or ANALYZE CIT allows you to extract the reference from the source documents in this file and have them automatically converted to a citation format for searching in the SCISEARCH file. SEL or ANALYZE CIT extracts first author, publication year, volume, first page, with a truncation symbol and with /RE appended to the terms created by SELECT.
- 4) Selects or analyzes CODEN, ISSN, and ISBN and appends /ISN to the terms created by SELECT.
- 5) Appends /JT to the terms created by SELECT.
- 6) Selects or analyzes CODEN, ISSN, and ISBN and appends /SO to the terms created by SELECT.

## SAMPLE RECORDS

## DISPLAY MAX

AN 2008-0228760 PASCAL  
 CP Copyright .COPYRGT. 2008 INIST-CNRS. All rights reserved.  
 TIEN An harmonised combination of tenders in order to increase utility for customers  
 TIFR Une combinaison harmonisee d'offres afin d'augmenter l'utilite pour la clientele  
 TIDE Mit stimmiger Kombination von Angeboten zu gesteigertem Kundennutzen  
 AU BLUMENSTEIN Andreas  
 CS Buero fuer Mobilitaet AG, Bern/Burgdorf, Switzerland  
 SO Strasse und Verkehr, (2007), 93(10), 32-35  
 ISSN: 0039-2189 CODEN: SVERAA  
 DT Journal  
 BL Analytic  
 CY Switzerland  
 LA German  
 SL French  
 AV INIST-6514, 354000162021040070  
 ABFR Des mesures isolees pour les pietons et les cyclistes apportent effectivement d'importantes ameliorations mais elles sont incapables de modifier sensiblement le comportement en matiere de transport. Pour augmenter de maniere significative ces parts dans les deplacements, il s'agit de constituer un ensemble par une combinaison harmonisee de mesures autrement isolees. L'adaptation de l'approche marketing classique issue de la direction d'entreprise permet d'atteindre cet objectif. La constitution d'ensembles 'sur mesure' n'est judicieuse qu'en integrant les chances et les synergies locales. Tels sont les resultats du mandat de recherche SVI 'Reflexions sur une approche marketing pour le trafic pietonnier et cycliste'.  
 CC 001D15B; Applied sciences; Transportation economics, Transportation management  
 001D15C; Applied sciences; Road transportation  
 001D14005; Applied sciences; Buildings, Public works, Civil engineering; Transportation infrastructure  
 295; Buildings, Public works, Civil engineering  
 CCFR 001D15B; Sciences appliquees; Economie des transports, Gestion des transports  
 001D15C; Sciences appliquees; Transports routiers  
 001D14005; Sciences appliquees; Batiment, Travaux publics, Genie civil; Infrastructure des transports  
 295; Batiment, Travaux publics, Genie civil  
 CCES 001D15B; Ciencias aplicadas; Economia de los transportes, Gestion de los transportes  
 001D15C; Ciencias aplicadas; Transportes por carretera  
 001D14005; Ciencias aplicadas; Edificios, Obras publicas, Ingenieria civil; Infraestructura de los transportes  
 295; Edificios, Obras publicas, Ingenieria civil  
 CT Transportation policy; Road traffic; Pedestrian traffic; Bicycle; Marketing; Offer; Switzerland  
 CTFR Politique transport; Trafic routier; Trafic pieton; Bicyclette; Commercialisation; Offre; Suisse  
 CTES Politica transporte; Trafico carretera; Trafico peatones; Bicicleta; Comercializacion; Oferta; Suiza  
 BT Europe  
 BTFR Europe  
 BTES Europa

## DISPLAY ALL

AN 2008-0243256 PASCAL  
 CP Copyright .COPYRGT. 2008 INIST-CNRS. All rights reserved.  
 TIEN Foreign body reaction to materials implanted as biocompatible for internal fixation  
 TIDE Fremdkoerperreaktion nach Implantation eines biokompatiblen Osteosynthesesystems  
 AU THIELE A.; BILKENROTH U.; BLOCHING M.; KNIPPING S.  
 CS Klinik fuer Hals-, Nasen-und Ohrenheilkunde, Kopf-und Halschirurgie der Martin-Luther-Universitaet Halle-Wittenberg, Germany, Federal Republic of; Institut fuer Rechtsmedizin der Martin-Luther-Universitaet Halle-Wittenberg, Germany, Federal Republic of; Klinik fuer Hals-, Nasen-, Ohrenheilkunde, Universitaetskliniken des Saarlandes, Homburg, Germany, Federal Republic of  
 SO HNO. Hals-, Nasen-, Ohrenaerzte, (2008), 56(5), 545-548, 10 refs. ISSN: 0017-6192  
 DT Journal  
 BL Analytic  
 CY Germany, Federal Republic of  
 LA German  
 SL English  
 AV INIST-15900, 354000195856610100  
 AB After implantation of resorbable materials for internal fixation, foreign body reactions are described in 0-47% of cases. Copolymers of poly-L-lactic acid (PLLA) and polyglycolic acid (PGA) seem to offer better biocompatibility than other materials. One of our patients had a midfacial fracture, which we fixed using a resorbable system based on PLLA-PGA (82%-18%); a foreign body reaction developed after 22 months. When resorbable materials are used it is essential to be aware specifically of the risk of foreign body reactions, especially when the facial area is involved. This risk must be discussed with the patient in some detail during the preoperative period.  
 CC 002B10; Life sciences; Medical sciences  
 CT Foreign body; Fracture; Implant; Device; Lactic acid polymer; Face; ENT; Stomatology; Treatment; Internal fixation  
 BT Osteosynthesis; Diseases of the osteoarticular system; Trauma; Surgery

## DISPLAY BIB

AN 2008-0244954 PASCAL  
 CP Copyright .COPYRGT. 2008 INIST-CNRS. All rights reserved.  
 TIEN Design sensitivity analysis of nonlinear structures subjected to thermal loads  
 AU PARENTE Evandro JR; MARQUES DE SOUSA Joao Batista JR  
 CS Department of Structural Engineering, Federal University of Ceara, Campus do Pici, Bloco 710, 60455-760, Fortaleza, Ceara, Brazil; Department of Civil Engineering, Federal University of Ouro Preto, Brazil  
 SO Computers & structures, (2008), 86(11-12), 1369-1384, 42 refs. ISSN: 0045-7949  
 DT Journal  
 BL Analytic  
 CY United Kingdom  
 LA English  
 AV INIST-15265, 354000183079350190