

Subject Coverage	<ul style="list-style-type: none"> • Abrasives • Applications • Archeology • Art • Automotive Engineering • Building Ceramics (bricks, pipes, roofing tiles) • Business Information • Catalysis • Cements • Ceramic Engineering • Ceramic-Metal Systems • Ceramics • Chemistry • Composites • Construction • Corrosion • Crystallography • Design • Dielectrics • Earth Science • Electroceramics • Engineering • Environmental and Pollution Information • Ferroelectrics 	<ul style="list-style-type: none"> • Fiber Materials • Fuel Engineering • Fuels • Furnaces • Geochemistry • Geophysics • Geosciences • Glass • Glass Chemistry • Glass Processing • Glass Properties • Hazardous Waste Management • Inorganic Chemistry • Instruments • Kilns • Lasers • Legislation and Standards • Limes • Magnetic Materials • Magnetic Properties • Materials Science • Microelectronics • Mineralogy • Nuclear Materials 	<ul style="list-style-type: none"> • Optical Properties • Optics • Patents • Phase Transitions • Physical Chemistry • Physics • Plasma • Plasters • Process Engineering and Equipment • Production Processes and Equipment • Properties and Testing • Raw Materials • Refractories • Rheology • Semiconductors • Space Technology • Superconductors • Structural Clay Products • Test methods • Theoretical Physics • Thermodynamics • Tribology • Whiteware (tableware, sanitary-ware, tiles)
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File Type Bibliographic

Features	Alerts (SDIs) Monthly			
	CAS Registry Numbers® <input checked="" type="checkbox"/>	Page Images <input type="checkbox"/>	STN AnaVist <input type="checkbox"/>	
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Record Content • The **CERAB File (Ceramic Abstracts/World Ceramics Abstracts)** is a bibliographic database that covers worldwide literature on all aspects of ceramics. The database corresponds to the printed publication *World Ceramics Abstracts; Ceramic Abstracts*. This comprehensive database contains records from the scientific, commercial, and engineering literature on traditional and advanced ceramics and related materials, including their properties, processing, testing, applications, and manufacture.

File Size • More than 397,441 records (10/2010)

Coverage Approximately 1975 to present. The oldest record in the database has a publication date of 1971.

Updates

- Updated monthly
- Reloaded when new or revised information is available.

Language English

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Sources

- Books
- Conference Proceedings
- Journals
- Patents
- Reports
- Trade Literature

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- STNGUIDE
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Search and Display Field Codes

Fields that allow left truncation (BI, AB, TI) in this file are marked with an asterisk (*).

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single words from the title (TI), abstract (AB), and controlled term (CT) fields)	None (or /BI)	S SEMICONDUCTOR S PHASE EQUILIBRIA S FERROMAGNET? (L) OXIDE# S ?CERAM?	AB, CT, TI
Abstract *	/AB	S MODEL?/AB S ?CERAM?/AB	AB
Accession Number	/AN	S 2004:706/AN	AN
Application Country	/AC	S GB/AC	AI
Application Number	/AP	S GB1990-11149/AP	AI
Author	/AU	S GOBEL K?/AU	AU
Classification Code	/CC	S GLASS CHEMISTRY/CC	CC
Controlled Term	/CT	S INTEGRATED CIRCUIT/CT	CT
Controlled Word	/CW	S CIRCUIT/CW	CT
Corporate Source	/CS	S BAYER AG/CS S (DOW (S) LTD)/CS	CS
Document Number	/DN	S "83-03734A (WC)"/DN	DN
Document Type (code and text)	/DT (or /TC)	S JOURNAL/DT S P/DT	DT
Element Terms (contains chemical elements and formulas, compounds (CP), materials (SY >= 2 metals), dopings, ions negative (IN), ions positive (IP), isotopes (IS), and nuclear reactions (target T, reaction R, final nucleus F)) (1)	/ET	S AL*AS*GA*P/ET (4) S CR-AL-ZR/ET S SIB20/ET S RB CP/ET S CU SY 3/ET S FE DOPING/ET S MGO:CR/ET	ET
E-mail Address	/EML	S james@ssplnet.org/EML	EML
Entry Date (2)	/ED (or /UP)	S L3 AND ED>=20041219	ED
Field Availability	/FA	S AB/FA	Not displayed
File Segment	/FS	S EARTHQUAKE ENGINEERING/FS	FS
International Standard Serial (Document) Number	/ISN	S 0005-8580/ISN	D ISN
Journal Title	/JT	S GLASS TECHNOL/JT	SO
Language (code and text)	/LA	S EN/LA S GERMANY/LA	LA
Meeting Date (2,3)	/MD	S 20040629/MD	SO, MD
Meeting Location (3)	/ML	S RUSSIA/ML	SO, ML
Meeting Title (3)	/MT	S LASER/MT	SO, MT
Meeting Year (2,3)	/MY	S 2005/MY	SO
Note	/NTE	S MONOGRAPH/NTE	NTE
Patent Assignee	/PA (CS)	S BASF	PA CS
Patent Country (code and text)	/PC	S US/PC S GREAT BRITAIN/PC	PI
Patent Kind Code	/PK	S STATUTORY/PK	PI
Patent Number	/PN	S US105402/PN	PI
Priority Country	/PRC	S AUSTRIA/PRC	PRAI
Priority Date	/PRD	S 19880301/PRD	PRAI
Priority Number	/PRN	S US1986-945126/PRN	PRAI
Priority Year	/PRY	S 2002/PRY	PRAI
Publication Date (2)	/PD	S PD >= 19981219	PI
Publication Year (2)	/PY	S 1955-1996/PY	PI, SO
Publisher (3)	/PB	S SPRINGER/PB	PB

Search and Display Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Reference Count Source (contains journal title, collation information, publisher information, ISSN, ISBN)	/REC /SO	S 6/REC S (J AM CERAM AND 79(S)10)/SO S 0-8247-9560-1/SO	REC SO
Title Update Date (2)	/TI /UP (or /ED)	S TITANOSILICATE/TI S L3 AND UP>=19960100	TI ED

(1) Elements appear in Hill system order with an asterisk (*) between element terms.

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

(3) Field added May 2005, new data only.

DISPLAY and PRINT Formats

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

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

Format	Content	Examples
AB	Abstract	D AB 1-10
AI	Application Information	D AI
AN	Accession Number	DIS AN 3
AP	Application Number	D AP
AU	Author	D 1-3 AU
CC (1)	Classification Code	D CC 1-5 L8
CS	Corporate Source	D CS 3,7
CT (1)	Controlled Term	D TI CT 8
DN	Document Number	D DN 1-4
DT (TC)	Document Type	D DT
ED	Entry Date	D ED
EML	E-mail Address	D EML
ET (1)	Element Terms	D ET
FS	File Segment	D FS
ISN	International Standard (Document) Number	D ISN
JT	Journal Title	D JT
JTA	Journal Title, Abbreviation	D JTA
LA	Language	D 2-8 11 LA
MD	Meeting Date	D MD
ML	Meeting Location	D ML
MT	Meeting Title	D MT
NTE	Note	D NTE
PA	Patent Assignee	D PA
PB	Publisher	D PB
PI	Patent Information	D PI CS
PN	Patent Number	D PN
PRAI	Priority Information	D PRAI
PRN	Priority Number	D PRN
PY	Publication Year	D PY
REC	Reference Count	D REC
SO	Source	D SO
TI (1)	Title	D TI AU 1-3
UP	Update Date	D UP

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
ABS ALL	AB AN, DN, TI, AU, IN, CS, PA, PI, AI, PRAI, PY, SO, NTE, DT, FS, LA, REC, ED, AB, CC, CT, ST, ET	D L3 1-12 ABS D 4 7 ALL
BIB	AN, DN, TI, AU, IN, CS, PA, PI, AI, PRAI, PY, SO, NTE, DT, FS, LA, REC, ED (BIB is the default)	D 1-5 BIB
CBIB	AN, compressed bibliographic information	D CBIB 1-
DALL	ALL, delimited for post-processing	D DALL
FREE (1)	TI, CC, CT	D FREE
IALL	ALL, indented with text labels	D DALL
IBIB	BIB, indented with text labels	D DALL
IND (1)	CC, CT, ET	DIS IND 4 7
SAM (1)	TI, CC, CT	D SAM
SCAN (1,2)	TI, CC, CT	D SCAN
TRIAL (TRI) (1)	TI, CC, CT	D TRIAL TOTAL
HIT KWIC OCC (1)	Fields containing hit terms Hit terms plus 20 words on either side (Key-Word-In-Context) Number of occurrences of hit terms and fields in which they occur	D HIT D KWIC NOH D OCC

(1) No online display fee for this format.

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

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field 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 alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y	N
Application Country	AC	Y	N
Application Information	AI	Y	N
Application Number	AP	Y	Y
Author	AU	Y	Y
Citation	CIT	Y (2,3)	N
Classification Code	CC	Y	Y
Controlled Term	CT	Y	N
Corporate Source	CS	Y	N
Document Number	DN	Y	Y
Document Type	DT	Y	Y
Element Terms	ET	Y	N
Entry Date	ED	Y	Y
File Segment	FS	Y	Y
International Standard Book Number	ISBN	N	Y
International Standard (Document) Number	ISN	Y	N
International Standard Serial Number	ISSN	N	Y

SELECT, ANALYZE, and SORT Fields (cont'd)

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Journal Title	JT	Y	Y
Journal Title, Abbreviation	JTA	Y	Y
Language	LA	Y	Y
Meeting Date	MD	Y	Y
Meeting Location	ML	Y	Y
Meeting Title	MT	Y	Y
Note	NTE	Y	N
Occurrence Count of Hit Terms	OCC	N	Y
Patent Assignee	PA	Y	Y
Patent Country	PC	Y	N
Patent Information	PI	Y (3)	N
Patent Kind Code	PK	Y (3)	Y
Patent Number	PN	Y (3)	Y
Priority Country	PRC	N	N
Priority Information	PRAI	Y	Y
Priority Number	PRN	N	Y
Publication Date	PD	Y (3)	Y
Publication Year	PY	Y	Y
Publisher	PB	Y	Y
Source	SO	Y (4)	N
Title	TI	Y (default)	Y
Update Date	UP	Y	Y

- (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 AU.
- (2) Extracts first author, publication year, volume, and first page with a truncation symbol appended and with /RE appended to the terms created by SELECT.
- (3) SELECT HIT and ANALYZE HIT are not valid with this field.
- (4) Selects or analyzes ISBN or ISSN with /SO appended to the terms created by SELECT.

Sample Records**DISPLAY BIB**

AN 1993:17837 CERAB
 DN WCA090994 (WC)
 TI OXIDATION RESISTANT CARBON AND METHOD FOR MAKING SAME
 PI GB 2266098 A 19931020
 PRAI US 1986-873004 19860611
 DT Patent
 FS Ceramic Abstracts/World Ceramics
 LA English
 ED Entered STN: 19 Dec 2004
 Last Updated on STN: 19 Dec 2004

DISPLAY CBIB

1995:7844 Document No.: CA7411201 (WC). Corrosion of Ceramics. McCauley R
 A. Publisher: Marcel Dekker, Inc.. ISBN: 0824794486. Notes: Illustrations.
 Language: English.

DISPLAY ALL

AN 1989:764 CERAB
DN 8907A2-C-0323 (EM); CA6804997 (WC)
TI Crystallization of Titanosilicate Glasses for
Nuclear Waste Immobilization
AU Hayward P J; Vance E R; Cann C D; Doern D C
CS Atomic Energy of Canada
SO Journal of the American Ceramic Society. Vol. 72, no. 4, pp. 579-586.
Apr. 1989. Publisher: American Ceramic Society, Inc , 735 Ceramic Place,
Westerville, OH, 43081, USA. ISSN: 0002-7820
DT Journal; Article; (Journal Article)
FS Engineered Materials; Ceramic Abstracts/World Ceramics
LA English
ED Entered STN: 20041219
Last Updated on STN: 20041219
AB The effects of different cooling and reheating rates on the phase
constitutions of Na₂O--Al₂O₃--TiO₂--SiO₂ glass-ceramics
containing up to 20 wt.% of simulated nuclear fuel recycle waste have been
studied using X-ray diffraction, differential thermal analysis, and
scanning and transmission electron microscopy. The metastable formation of
a perovskite-structured phase (nominally CaTiO₃, but containing ionic
substituents) was observed in samples with up to 15 wt.% of simulated
waste after cooling from the melt at rates between 0.25-50 deg C/min. When
the partially devitrified glass was reheated to 1050 deg C, incomplete
conversion of this phase to sphene (nominally CaTiSiO₅) occurred by
reaction with the silica-rich glass matrix. The conversion was completed
by heating further to 1150 deg C. Waste loadings => 10 wt.% produced
crystallization of powellite (nominally CaMoO₄) in addition to sphene
and perovskite, whereas metastable perrierite (a rare-earth
titanosilicate) was also crystallized at waste loadings => 15 wt.%. New
data on elemental partitioning between the crystalline and vitreous phases
confirmed earlier results obtained in different atmospheres and with
simplified waste compositions and were largely in accord with
crystal--chemical predictions. 15 ref.--AA
CC A2 Microstructure (EM); Nuclear materials (WC)
CT Silicates; Glass Ceramics; Crystallization; Nuclear Fuels; Perovskite
Structure; Waste Disposal; Nuclear Waste; Glass-ceramics; Titania; Phases;
Nuclear Materials
ET Na; O; Al; O*Ti; TiO; Ti cp; cp; O cp; O*Si; SiO; Si cp; Ca*O*Ti; Ca sy 3;
sy 3; O sy 3; Ti sy 3; CaTiO; Ca cp; Ca*O*Si*Ti; Ca sy 4; sy 4; O sy 4; Si
sy 4; Ti sy 4; CaTiSiO; Ca*Mo*O; Mo sy 3; CaMoO; Mo cp

DISPLAY IND

CC Magnetic materials (WC)
CT Molybdates; Rare Earths; Magnetic Properties; Pyrochlore; Structure
ET Ln; Mo; O; Sm; Gd; Y

DISPLAY TRIAL

TI Type II Magnetic Levitation on Sinter-Forged
YBa₂Cu₃O_{sub x} Superconductor
CC F2 Electrical/Electronic/Optical (EM); Superconductors (WC); RG,
Electroceramics; MRG, Titanates, zirconates and niobates; 76 SOLID-STATE
PHYSICS (AH)
CT Yttrium Compounds; Barium Compounds; Copper Compounds; Oxides;
Superconductors; Meissner Effect; Sintering; Magnetic Properties; Sinter
Forging; Magnetism; Electroceramic; Orthorhombic; Powder; Tetragonal;
Barium Oxide; Copper Oxide; Yttrium Oxide; Usa; High Temperature
Superconductors; Levitation; Mixed Oxides; Annealing; Copper Oxides;
Crystallography; Phase Transformations; Shear Strain

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