

ENERGY

- Subject Coverage**
- Electric power generation and transmission
 - Energy conservation
 - Energy consumption and utilization
 - Energy conversion and storage
 - Energy policy, management, economy
 - Energy-related aspects of environmental and biomedical sciences, health, safety, physics, esp. elementary particles, nuclear physics, accelerators, chemistry, Materials, geosciences
 - Fossil fuels (coal, petroleum, natural gas, etc.)
 - Fusion energy
 - Hydrogen and other natural and synthetic fuels
 - Nuclear energy (fuels, power plants, technology)
 - Renewable energies (solar, wind, geothermal, etc.)

File Type Bibliographic

Features

Thesaurus	Controlled Term (/CT)			
Alerts (SDIs)	Not available			
CAS Registry Number [®] Identifiers	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	STN [®] AnaVist [™] <input type="checkbox"/>
Keep & Share	<input checked="" type="checkbox"/>	SLART	<input checked="" type="checkbox"/>	STN Easy[®] <input checked="" type="checkbox"/>
Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>	

- Record Content**
- Records contain bibliographic information, abstracts, and indexing.
 - Controlled terms are also available in German, titles and abstracts may be also present in German.

File Size • More than 5.7 million records (12/2013)

Coverage 1974-2013

Updates Static file

Language English, German

Database Producer Contracting Parties of the
IEA Energy Technology Data Exchange
Operating Agent: US Department of Energy OSTI
P.O. Box 1000
Oak Ridge, TN, 37831, U.S.A.

Partner for Germany: FIZ Karlsruhe
Copyright Holder: US Department of Energy OSTI and its IEA ETDE Contracting Parties

Database Supplier FIZ Karlsruhe
STN Europe
P.O. Box 2465
76012 Karlsruhe
Germany
Phone: +49 7247 808-555
Fax: +49 7247 808-259
Email: helpdesk@fiz-karlsruhe.de

- Sources**
- Journals and serials
 - Reports
 - Conference contributions
 - Books
 - Patents
 - Other non-conventional literature
-

- User Aids**
- Online Helps (HELP DIRECTORY lists all help messages available)
 - STNGUIDE
-

- Clusters**
- AEROTECH
 - ALLBIB
 - AUTHORS
 - CORPSOURCE
 - ELECTRICAL
 - ENGINEERING
 - ENVIRONMENT
 - FUELS
 - GEOSCIENCE
 - GOVREGS
 - HEALTH
 - MATERIALS
 - PHYSICS
 - TOXICOLOGY
- [STN Database Clusters](#) information (PDF)
-

Pricing Enter HELP COST at an arrow prompt (=>).

Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (*).

General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from the title (TI), abstract (AB), German abstract (ABDE), French abstract (ABFR), controlled term (CT), German controlled term (CTDE), and broader term (BT) fields)	None or /BI	S CATALYST# S DENOX AIR HEATER S DOMESTIC ANIMALS(S)ENVIRONMENT S ?LASER?	TI, AB, ABDE (1), ABFR (1), CT,CTDE BT (1)
Accession Number Application Country (1) Application Date (1,2) Application Number (1) Author (editor, patent inventor) Broader Term Classification Code (code, main code and text)	/AN /AC /AD /AP /AU /BT /CC	S "1998(10):37057"/AN S JP/AC S 19951228/AD S 63-113531/AP S WEIGERT, P./AU S TOXIC MATERIALS/BT S 32/CC S 200202/CC S F1100/CC S *320303/CC S (ISOTOPE(W)EFFECTS)/CC	AN AI AI AI AU BT CC
Controlled Term (main headings) (3,4)	/CT	S AIR FLOW/CT S *ELECTRIC POWER/CT S (MAIZE(S)DRYING)/CT	CT
Controlled Term in German Corporate Source (affiliation, country of affiliation, patent assignee)	/CTDE /CS	S BACKOEFFEN/CTDE S (KAWASAKI(S)TOKYO)/CS S MOBIL OIL CORP?/CS S FRANCE/CS	CTDE CS, AU, SO
Country of Publication (code and text)	/CY	S AUSTRALIA/CY S AU/CY	CY
Document Number (abstracting journal) (5)	/DN	S ERA/DN	DN
Document Type (code and text)	/DT (or /TC)	S PATENT/DT	DT
Element Terms (contains chem. elements and formulas, compounds (CP), materials (SY: >= 2 metals), dopings, ions neg. (IN), ions pos. (IP), isotopes (IS), nuclear reactions (target T, reactionR, final nucleus F)) (6)	/ET	S ALCUMG2/ET S AL*CU*MG/ET S TI-MO-SI/ET S MG CP/ET S TI SY 3/ET S SI:H/ET S BE IP 2/ET S "BE2+"/ET S MG IS/ET S 6LI R/ET	ET
Entry Date (2)	/ED (or /UP)	S ED>DEC 2008	not displayed
Field Availability (1)	/FA	S ABDE/FA	FA
International Patent Classification	/IC	S G21C001-002/IC S G21C001/IC	IC
Journal Title	/JT	S J. ENERGY/JT	SO
Language (code and text)	/LA	S GERMAN/LA S RU/LA	LA
Meeting Date (2)	/MD	S 19881101/MD	SO
Meeting Year (2)	/MY	S 1982-1983/MY	SO
Number of Contract	/NC	S AC05-84OR21400/NC	NC

ENERGY**General Search Fields (cont'd)**

Search Field Name	Search Code	Search Examples	Display Codes
Number of Report (number and prefix)	/NR	S DE85006772/NR S BMFT-FB-T/NR	NR
Other Sources (7)	/OS	S NUCLEAR NOT CA/OS	not displayed
Patent Country	/PC	S US/PC	PI
Patent Kind Code (1)	/PK	S A1/PK	PI
Patent Number	/PN	S 1284794/PN	PI
Priority Country (1)	/PRC	S FR/PRC	PRAI
Priority Date (1,2)	/PRD	S PRD=28 MAR 1997	PRAI
Priority Number (1)	/PRN	S 505137/PRN	PRAI
Publication Date (2)	/PD	S 19981001-19981031/PD	SO, PI
Publication Year (2)	/PY	S 1980-1981/PY	SO, PI
Source (contains CODEN, journal title and other higher level, titles, ISBN, ISSN, publisher, meeting information, number of contract, number of report)	/SO	S (RESIDUE#(L)FOOD)/SO S 0001-2351/SO S (J AND ENERGY)/SO	SO
Title	/TI	S ENVIRONMENT? POLLUTANT#/TI	TI

(1) Search and display fields only available for citations with Accession Numbers since 1990(2):10000 (beginning 1990).

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

(3) Pairs of controlled terms (main term/qualifier) are searchable with (S) operator.

(4) A thesaurus is available in this field.

(5) Search and Display fields only available for citations until 1989.

(6) Elements cited in Hill System order with an asterisk (*) between element terms.

(7) Information also searchable in another file can be excluded, e.g. NOT CA/OS; NOT NTS/OS.

Controlled Term (/CT) Thesaurus

All Relationship Codes can be used with both the SEARCH and EXPAND command in the /CT thesaurus.

Code	Content	Examples
ALL AUTO (1)	All Associated Terms Automatic Relationship (SELF, USE, UF, USE+, UF+)	E KAONS+ALL/CT S ENERGY COMPLEXES+AUTO/CT
BT	Broader Terms (also BT1, BT2 etc. possible)	E HINKLEY POINT-B REACTOR+BT/CT
HIE	Hierarchy (all Broader and Narrower Terms)	E ENERGY RECOVERY+HIE/CT
KT	Keyword Terms (Multi-word Phrases containing the specified Keyword Term)	E ENERGY+KT/CT
NT	Narrower Terms (also NT1, NT2 etc. possible)	S ENERGY SOURCES+NT/CT
PFT	All Preferred and Forbidden Terms (SELF, USE, UF, USE+, UF+, SEE)	E ENEA+PFT/CT
RT	Related Terms (see also)	E ENERGY CONSERVATION+RT/CT
STD	Standard (all Broader, Narrower, and Related Terms)	E POLLUTION CONTROL+STD/CT

(1) Automatic Relationship is SET OFF. In case of SET REL ON the result of EXPAND or SEARCH without any relationship code is the same as described for AUTO.

DISPLAY and PRINT Formats

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

Hit-term highlighting is not available.

Format	Content	Examples
AB ABDE ABFR AI AN AU BT CC CS CT CTDE CY DN DT (TC) ET FA IC LA NC NR PI PRAI SO TI	Abstract Abstract in German Abstract in French Application Information Accession Number Author (patent inventor) Broader Term Classification Code Corporate Source (patent assignee) (format includes AU) Controlled Term Controlled Term in German Country (of Publication) Document Number Document Type Element Terms Field Availability International Patent Classification Language Number of Contract Number of Report Patent Information Priority Information Source Title	D AB D ABDE D ABFR D AI D AN D AU D BT D CC D CS D CT D CTDE D CY D DN D DT D ET D FA D IC D LA D NC D NR D PI D PRAI D SO D TI
ALL ALLDE ALLFR DALL IALL BIB IBIB IND SCAN (1) TRIAL (TRI, SAMPLE, SAM)	BIB, AB, IC, CC, CT, BT, ET BIB, ABDE, IC, CC, CT, CTDE, BT, ET BIB, ABFR, IC, CC, CT, BT, ET ALL, delimited for post processing ALL, indented with text labels AN, TI, AU, CS, NC, NR, SO, DT, CY, LA, DN, FA Patents: AN, TI, AU, CS, PI, AI, PRAI, DT, CY, LA, DN, FA (BIB is default) BIB, indented with text labels AN, IC, CC, CT, CTDE, BT, ET TI, CT, CTDE (random display without answer numbers) TI, IC, CC, CT, CTDE, BT, ET	D ALL D ALLDE D ALLFR D DALL D IALL D BIB D IBIB D IND D SCAN D TRIAL

(1) 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).

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

Field Name	Field Code	ANALYZE/ SELECT	SORT
Abstract	AB	Y	N
Abstract in French	ABFR	Y	N
Abstract in German	ABDE	Y	N
Accession Number	AN	Y	N
Application Country	AC	N	Y
Application Date	AD	N	Y
Application Information	AI	Y (1)	Y
Author (patent inventor)	AU	Y	Y
Broader Term	BT	Y	N
Citation	CIT (RE)	Y (2)	N
Classification Code	CC	Y	Y
CODEN	CODEN	N	Y
Controlled Term	CT	Y	N
Controlled Term in German	CTDE	Y	N
Corporate Source (patent assignee)	CS	Y	Y
Country of Publication	CY	Y	Y
Document Number	DN	Y	N
Document Type	DT (TC)	Y	Y
Element Term	ET	Y	N
Field Availability	FA	Y	N
International Patent Classification	IC	Y	Y
International Standard Book Number	ISBN	N	Y
International Standard Serial Number	ISSN	N	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
Number of Contract	NC	Y	Y
Number of Report	NR	Y	Y
Patent Country	PC	N	Y
Patent Information	PI	Y	Y
Patent Kind Code	PK	N	Y
Priority Country	PRC	N	Y
Priority Date	PRD	N	Y
Priority Information	PRAI	Y (3)	Y
Publication Date	PD (PY)	Y	Y
Source	SO	Y (4)	N
Title	TI	Y (default)	Y

(1) Appends /AP to the terms created by SELECT.

(2) SELECT or ANALYZE CIT allows you to extract the reference data from the source documents in this file and have them automatically converted to a citation format for searching in the SCISEARCH file. SEL CIT selects first author, publication year, volume, first page, and a truncation symbol with /RE appended.

(3) Appends /PRN to the terms created by SELECT.

(4) Selects or analyzes CODEN, ISSN and ISBN with /SO appended to the terms created by SELECT.

Sample Records**DISPLAY ALL OF JOURNAL**

AN 2006(12):72403 ENERGY

TI Synthesis and photoluminescence of Pb₅(VO₄)₃OH nanocrystals.

AU Zhang Haiping (State Key Laboratory of Crystal Materials, Shandong University, Jinan 250100 (China); Shandong Institute of Light Industry, Jinan 250100 (China)); Lue Mengkai (State Key Laboratory of Crystal Materials, Shandong University, Jinan 250100 (China)). E-mail: mklu@icm.sdu.edu.cn; Xiu Zhiliang (State Key Laboratory of Crystal Materials, Shandong University, Jinan 250100 (China)); Zhou Guangjun (State Key Laboratory of Crystal Materials, Shandong University, Jinan 250100 (China)); Wang Shufen (State Key Laboratory of Crystal Materials, Shandong University, Jinan 250100 (China))

SO Journal of Alloys and Compounds (21 Jun 2005) v. 396(1-2) p. 243-246.
DOI: 10.1016/j.jallcom.2004.08.107; PII: S0925-8388(04)01577-4; Copyright
(c) 2004 Elsevier Science B.V., Amsterdam, The Netherlands, All rights
reserved; Country of input: International Atomic Energy Agency (IAEA).
CODEN: JALCEU ISSN: 0925-8388

DT Journal
CY Netherlands
LA English
FA AB

AB Pb5(VO4)3OH nanocrystals with different morphologies and sizes were
prepared through chemical precipitation processes in the presence of
different surfactants-dodecyl dimethylbenzylammonium bromide (DDBAB) or
sodium dodecylbenzenesulfonate (SDBS), respectively. The products were
characterized by X-ray diffraction (XRD) and transmission electron
microscopy (TEM). The role of surfactants in the synthesis process had
been tentatively proposed. Luminescence of the Pb5(VO4)3OH nanocrystals
were also investigated by photoluminescence spectroscopy

CC *S36 Materials science

CT LEAD COMPOUNDS; MORPHOLOGY; NANOSTRUCTURES; PHOTOLUMINESCENCE;
PRECIPITATION; SPECTROSCOPY; SURFACTANTS; SYNTHESIS; TRANSMISSION
ELECTRON MICROSCOPY; VANADATES; X-RAY DIFFRACTION

BT COHERENT SCATTERING; DIFFRACTION; ELECTRON MICROSCOPY; EMISSION;
LUMINESCENCE; MICROSCOPY; OXYGEN COMPOUNDS; PHOTON EMISSION; SCATTERING;
SEPARATION PROCESSES; TRANSITION ELEMENT COMPOUNDS; VANADIUM COMPOUNDS

ET H*O*Pb*V; H sy 4; sy 4; O sy 4; Pb sy 4; V sy 4; Pb5(VO4)3OH; Pb cp; cp;
V cp; O cp; H cp

DISPLAY BIB OF REPORT

AN 2006(12):72823 ENERGY

TI Annual report of Naka Fusion Research Establishment from April 1, 2004 to
March 31, 2005.

AU Editor(s): Yamamoto, Takumi; Sato, Masayasu; Kudo, Yusuke; Shu, Wataru;
Yoshida, Hidetoshi (Japan Atomic Energy Research Inst., Naka, Ibaraki
(Japan). Naka Fusion Research Establishment)

CS Japan Atomic Energy Research Inst., Kashiwa, Chiba (Japan)

NR JAERI-Review--2005-046

SO Sep 2005. 128 p. Available from INIS in electronic form; Also available
from JAEA; URL: <http://jolisf.tokai-sc.jaea.go.jp/pdf/rev/JAERI-Review-2005-046.pdf>.

DT Report; Progress Report; Availability Note

CY Japan

LA English

FA AB

DISPLAY BIB OF PATENT

AN 1999(9):44253 ENERGY

TI Manufacturing method of steel for thermonuclear reactor having excellent
low temperature toughness and creep strength.

AU Hasegawa, Toshinaga; Tomita, Sachio

CS Nippon Steel Corp., Tokyo (Japan)

PI JP 10310820 A 24 Nov 1998 13 p.
Available from JAPIO. Also available from EPO

AI JP 9-118205 8 May 1997

DT Patent; Availability Note

CY Japan

LA Japanese

FA AB

THESAURUS EXPAND FORMAT

=> E NATURAL GAS+ALL/CT

E1 18068 BT2 ENERGY SOURCES/CT
E2 11252 BT2 FUELS/CT
E3 13336 BT1 FOSSIL FUELS/CT
E4 18068 BT2 ENERGY SOURCES/CT
E5 11252 BT3 FUELS/CT
E6 2258 BT2 GAS FUELS/CT
E7 6676 BT3 FLUIDS/CT
E8 28999 BT2 GASES/CT
E9 7417 BT1 FUEL GAS/CT
E10 60725 --> NATURAL GAS/CT
E11 94 NT1 ABIOGENIC GAS/CT
E12 6071 NT1 LIQUEFIED NATURAL GAS/CT
E13 241 RT ALASKA GAS PIPELINE/CT
E14 210 RT ARCTIC GAS PIPELINES/CT
E15 7204 RT DEREGULATION/CT
E16 573 RT FLARING/CT
E17 758 RT GAS HEAT PUMPS/CT
E18 1657 RT GAS HYDRATES/CT
E19 1219 RT GAS METERS/CT
E20 739 RT GAS SPILLS/CT
E21 118 RT GASBUGGY EVENT/CT
E22 1042 RT LNG PLANTS/CT
E23 209 RT MASTER METERING/CT
E24 17375 RT NATURAL GAS DEPOSITS/CT
E25 8680 RT NATURAL GAS DISTRIBUTION SYSTEMS/CT
E26 14236 RT NATURAL GAS INDUSTRY/CT
E27 20073 RT NATURAL GAS WELLS/CT
E28 1447 RT PETROCHEMISTRY/CT
E29 17 RT POLAR GAS PROJECT/CT
E30 291 RT PRIMARY RECOVERY/CT
E31 7979 RT PUBLIC UTILITIES/CT
E32 346 RT REFINERY GASES/CT
E33 109 RT RIO BLANCO EVENT/CT
E34 11797 RT STORAGE FACILITIES/CT
E35 60 RT WASATCH FORMATION/CT
***** END *****

In North America
CAS
STN North America
P.O. Box 3012
Columbus, Ohio 43210-0012 U.S.A.

CAS Customer Center:
Phone: 800-753-4227 (North America)
614-447-3700 (worldwide)
Fax: 614-447-3751
Email: help@cas.org
Internet: www.cas.org

In Europe
FIZ Karlsruhe
STN Europe
P.O. Box 2465
76012 Karlsruhe
Germany
Phone: +49-7247-808-555
Fax: +49-7247-808-259
Email: helpdesk@fiz-karlsruhe.de
Internet: www.stn-international.com

In Japan
JAICI (Japan Association for
International Chemical Information)
STN Japan
Nakai Building
6-25-4 Honkomagome, Bunkyo-ku
Tokyo 113-0021, Japan
Phone: +81-3-5978-3601 (Technical Service)
+81-3-5978-3621 (Customer Service)
Fax: +81-3-5978-3600
Email: support@jaici.or.jp (Technical Service)
customer@jaici.or.jp (Customer Service)
Internet: www.jaici.or.jp