

# ENERGY



---

<b>Subject Coverage</b>	<ul style="list-style-type: none"><li>• Electric power generation and transmission</li><li>• Energy conservation</li><li>• Energy consumption and utilization</li><li>• Energy conversion and storage</li><li>• Energy policy, management, economy</li><li>• Energy-related aspects of environmental and biomedical sciences, health, safety, physics, esp. elementary particles, nuclear physics, accelerators, chemistry, materials, geosciences</li><li>• Fossil fuels (coal, petroleum, natural gas, etc.)</li><li>• Fusion energy</li><li>• Hydrogen and other natural and synthetic fuels</li><li>• Nuclear energy (fuels, power plants, technology)</li><li>• Renewable energies (solar, wind, geothermal, etc.)</li></ul>																														
<b>Access</b>	Available in the IEA ETDE member countries only: Brazil, Canada, Denmark, Finland, Germany, Republic of Korea, Mexico, The Netherlands, Norway, Portugal, South Africa, Spain, Sweden, Switzerland, United States.																														
<b>File Type</b>	Bibliographic																														
<b>Features</b>	<table><tr><td>Thesaurus</td><td>Controlled Term (/CT)</td><td></td><td></td><td></td><td></td></tr><tr><td><a href="#">Alerts (SDIs)</a></td><td>Twice a month</td><td></td><td></td><td></td><td></td></tr><tr><td>CAS Registry Numbers®</td><td><input type="checkbox"/></td><td>Page Images</td><td><input type="checkbox"/></td><td>STN AnaVist</td><td><input type="checkbox"/></td></tr><tr><td><a href="#">Keep &amp; Share</a></td><td><input checked="" type="checkbox"/></td><td><a href="#">SLART</a></td><td><input checked="" type="checkbox"/></td><td><a href="#">STN Easy</a></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Learning Database</td><td><input type="checkbox"/></td><td>Structures</td><td><input type="checkbox"/></td><td>STN Viewer</td><td><input type="checkbox"/></td></tr></table>	Thesaurus	Controlled Term (/CT)					<a href="#">Alerts (SDIs)</a>	Twice a month					CAS Registry Numbers®	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	STN AnaVist	<input type="checkbox"/>	<a href="#">Keep &amp; Share</a>	<input checked="" type="checkbox"/>	<a href="#">SLART</a>	<input checked="" type="checkbox"/>	<a href="#">STN Easy</a>	<input checked="" type="checkbox"/>	Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>	STN Viewer	<input type="checkbox"/>
Thesaurus	Controlled Term (/CT)																														
<a href="#">Alerts (SDIs)</a>	Twice a month																														
CAS Registry Numbers®	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	STN AnaVist	<input type="checkbox"/>																										
<a href="#">Keep &amp; Share</a>	<input checked="" type="checkbox"/>	<a href="#">SLART</a>	<input checked="" type="checkbox"/>	<a href="#">STN Easy</a>	<input checked="" type="checkbox"/>																										
Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>	STN Viewer	<input type="checkbox"/>																										
<b>Record Content</b>	<ul style="list-style-type: none"><li>• Records contain bibliographic information, abstracts, and indexing.</li><li>• Controlled terms are also available in German, titles and abstracts may be also present in German.</li><li>• ENERGY contains the INIS database as a subset.</li></ul>																														
<b>File Size</b>	More than 5.4 million records (02/2012)																														
<b>Coverage</b>	1974-present																														
<b>Updates</b>	Twice a month																														
<b>Language</b>	English, German																														
<b>Database Producer</b>	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  
E-mail: 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    | • FUELS      |
| • ALLBIB      | • GEOSCIENCE |
| • AUTHORS     | • GOVREGS    |
| • CORPSOURCE  | • HEALTH     |
| • ELECTRICAL  | • MATERIALS  |
| • ENGINEERING | • PHYSICS    |
| • ENVIRONMENT | • TOXICOLOGY |
- [STN Database Clusters](#) information (PDF).
- 

**Pricing** See the [STN Price List](#) or 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, INIS and ENERGY (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 BACKKOEFFEN/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 S ED>DEC 2008	ET
Entry Date (2)	/ED (or /UP)		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 <b>(7)</b>	/OS	S NUCLEAR NOT INIS/OS	not displayed
Patent Country	/PC	S US/PC	PI
Patent Kind Code <b>(1)</b>	/PK	S A1/PK	PI
Patent Number	/PN	S 1284794/PN	PI
Priority Country <b>(1)</b>	/PRC	S FR/PRC	PRAI
Priority Date <b>(1,2)</b>	/PRD	S PRD=28 MAR 1997	PRAI
Priority Number <b>(1)</b>	/PRN	S 505137/PRN	PRAI
Publication Date <b>(2)</b>	/PD	S 19981001-19981031/PD	SO, PI
Publication Year <b>(2)</b>	/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 INIS/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 <b>(1)</b>	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/C

**(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 Pb<sub>5</sub>(VO<sub>4</sub>)<sub>3</sub>OH 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 Pb<sub>5</sub>(VO<sub>4</sub>)<sub>3</sub>OH 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 Pb<sub>5</sub>(VO<sub>4</sub>)<sub>3</sub>OH 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; Pb<sub>5</sub>(VO<sub>4</sub>)<sub>3</sub>OH; 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  
E-mail: 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  
E-mail: 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  
E-mail: support@jaici.or.jp (Technical Service)  
customer@jaici.or.jp (Customer Service)  
Internet: www.jaici.or.jp