INIS (International Nuclear Information System)

Subject Coverage

- Economic Aspects, Nuclear Law, Nuclear Power Documentation
- Engineering Science and Technology
- Isotopes, Isotope Applications and Radiation, Radiation Sources
- Life Sciences (Effects and Aspects of External Radiation, Radionuclides, Radiation Protection, Safety, Environmental Aspects)
- Nuclear Energy, Nuclear Fuels, Nuclear and Fusion Reactors, Instrumentation
- Other Problems connected with Nuclear Power:
  Chemistry, Materials Sciences;
  Mathematical Methods and Computer Codes
- Physics (General Physics, High-Energy Physics, Neutron and Nuclear Physics)
- Safety Monitoring and Control
- Waste Management

File Type

Bibliographic

Access

Available in INIS member countries only. INIS is not available in the USA, ENERGY may be used - it contains INIS as a subset.

Features

Alerts (SDIs)	Not available				
CAS Registry Numbers®	☐	Page Images	☐	STN AnaVist	☐
Keep & Share	☑	SLART	☑	STN Easy	☐
Learning Database	☐	Structures	☐	STN Viewer	☐

Record Content

- Records contain bibliographic information, indexing, and mostly an abstract.
- Titles are always in English, and additionally included in the original language.
- Abstracts may be available in English, French, or German.

File Size

More than 3.1 million record (03/10)

Coverage

1970-present

Updates

Currently not being updated

Language

English, French, German

Database Producer

International Atomic Energy Agency (IAEA)
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Sources

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

  * supplied by the members of IAEA (International Atomic Energy Agency) and 22 international organizations.

User Aids

- INIS Thesaurus*
- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

  * available from the producer

Clusters

- AEROTECH
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- AUTHORS
- CORPSOURCE
- ELECTRICAL
- ENGINEERING
- ENVIRONMENT
- FUELS
- GEOSCIENCE
- GOVREGS
- HEALTH
- MATERIALS
- PHYSICS
- 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 title (TI), abstract (AB), controlled term (CT), and broader term (BT) fields)	None or /BI	S REACTOR# S NUCLEAR(2W)OPTIONS S NUCLEAR(W)POWER(S)DURATION	TI, AB, ABDE, ABFR, CT, CTDE, BT, BTDE
Abstract*	/AB		AB, ABDE, ABFR
Abstract in French	/ABFR		ABFR
Abstract in German	/ABDE		ABDE
Accession Number	/AN		
Author (incl. editor, patent inventor)	/AU	S HINDE, D/AU	AU
Availability	/AV		
Broader Term	/BT	S ANGULAR MOMENTUM/BT	BT
Broader Terms in German	/BTDE	S MOS-TRANSISTOREN/BTDE	BTDE
Classification Code in German (code, main code and text) **(1)**	/CCDE	S ALLGEMEINE PHYSIK/CCDE	CC
Classification Code, INIS and ENERGY (code, main code and text) **(1)**	/CC	S E3200/CC S *E3500/CC S (NON(W)BREEDING)/CC	CC
Controlled Term	/CT	S RADIATION DOSES/CT	CT
Controlled Term in German	/CTDE	S ALLYLRADIKALE/CTDE S (POLYMERE(S)PHYSIKAL?)/CTDE	CTDE
Controlled Word	/CW		
Corporate Source (incl. affiliation, patent assignee) **(1)**	/CS	S (SANDIA(S)ALBUQUERQUE)/CS S (ISOLATION(L)COLUMBUS)/CS S MOBIL OIL ?/CS	CS
Country of Publication (ISO code and text)	/CY	S AUSTRALIA/CY S AU/CY	CY
Document Type (code and text)	/DT	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, reaction R, final nucleus F)) **(2)**	/ET	S MG/ET S ALCU2MN/ET S TI-MO-AL/ET S AL*CU*MN/ET **(3)** S MG CP/EP S ZN SY 3/ET S SI:H/ET S BE IP 2/ET S 119SN/ET	ET
E-mail Address	/EML		
Entry Date **(4)**	/ED	S L7 AND ED>MAR 97	
Field Availability	/FA	S ABFR/FA	FA
Journal Title (contains full and abbreviated title)	/JT	S GAN NO RINSHO/JT	JT, JTA, JTF, SO
Language (ISO code and text)	/LA	S RUSSIAN/LA S DE/LA	LA
Meeting Date **(4)**	/MD	S 860922/MD	MD, SO
Meeting Location	/ML		ML, SO
Meeting Title	/MT		MT, SO
Meeting Year **(4)**	/MY	S 1996/MY	MY, SO
Number of Contract	/NC	S 256-81-7 WAS UK/NC	NC
Number of Report (number and prefix)	/NR	S AAEC-E--609/NR S AAEC/NR	NR

General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Publication Date **(4)**	/PD	S 710622/PD	PD, SO
Publication Year **(4)**	/PY	S 1994/PY	PY, SO
Publisher **(1)**	/PB		PB, SO
Publisher Item Identifier	/PUI		
Source (contains CODEN, journal title and other higher level titles, ISBN, ISSN, publisher, meeting information, number of contract, number of report, patent, application, and priority information, and International Patent Classification)	/SO	S (COMPUTER APPLICATION#)/SO S 1-88914-8/SO S (RAPID(W)CITY(S)SD)/SO	SO
Title*	/TI	S (ANTI(W)NBC(S)OVERSHOE)/TI	TI
Uniform Resource Locator	/URL		
Update Sate	/UP		
Word Count, Title	/WC.T		

(1) Search with implied(S) proximity is available in this field.
(2) Search with special characters
(3) Elements cited in Hill System order with an asterisk (*) between element terms
(4) Numeric search field that may be searched using numeric operators or ranges.

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 available for all fields. Highlighting must be ON during SEARCH to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB	Abstract	D AB
ABDE	Abstract in German	D ABDE
ABFR	Abstract in French	D ABFR
AN	Accession Number	D AN
AU	Author (incl. patent inventor)	D AU
AV **(1)**	Availability	D AV
BT	Broader Term	D BT
BTDE	Broader Term in German	D BTDE
CC	Classification Code	D CC
CS	Corporate Source (incl. patent assignee)	D CS
CT	Controlled Term	D CT
CTDE	Controlled Term in German	D CTDE
CY	Country of Publication	D CY
DT	Document Type	D DT
ED	Entry Date and Update Date	D ED
EML **(1)**	E-mail Address	D EML
ET	Element Terms	D ET
FA	Field Availability	D FA
JT **(1)**	Journal Title	D JT
JTA **(1)**	Journal Title, Abbreviated	D JTA
JTF **(1)**	Journal Title, Full	D JTF
LA	Language	D LA

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
MD **(1)** ML **(1)** MT **(1)** MY **(1)** NR NC PB **(1)** PD **(1)** PUI PY **(1)** SO TI URL **(1)** WC.T **(1)**	Meeting Date Meeting Location Meeting Title Meeting Year Number of Contract Number of Report Publisher Publication Date Publisher Item Identifier Publication Year Source Title Uniform Resource Locator Word Count, Title	D MD D ML D MT D MY D NC D NR D PB D PD D PUI D PY D SO D TI D URL
ALL ALLDE ALLFR DALL IALL BIB IBIB IND INDDE TRIAL TRIALDE	BIB, AB, CC, CT, BT, ET BIB, ABDE, CC, CTDE, BTDE, ET BIB, ABFR, CC, CT, BT, ET ALL, delimited for post processing ALL, indented with text labels AN, TI, AU, CS, NC, NR, SO, DT, CY, LA, FA (BIB is default) BIB, indented with text labels AN, IC, CC, CT, BT, ET AN, IC, CC, CTDE, BTDE, ET TI, IC, CC, CT, BT, ET, FA TI, IC, CC, CTDE, BTDE, ET, FA	D ALL D ALLDE D ALLFR D DALL D IALL D BIB D IBIB D IND D INDDE D TRIAL D TRIALDE
HIT KWIC OCC	Hit term(s) and field(s) Up to 50 words before and after hit term(s) (KeyWord-In-Context) Number of occurrences of hit term(s) and field(s) in which they occur	D HIT D KWIC D OCC

(1) Custom display only.

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	SORT
Abstract	AB	Y	N
Abstract in French	ABFR	Y	N
Abstract in German	ABDE	Y	N
Accession Number	AN	Y	N
Author (patent inventor)	AU	Y	Y
Availability	AV	Y	Y
Broader Term	BT	Y	N
Broader Term in German	BTDE	Y	N
Classification Code	CC	Y	Y
CODEN	CODEN	N	Y

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

Field Name	Field Code	ANALYZE/ SELECT	SORT
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 Type	DT	Y	Y
Element Terms	ET	Y	N
E-mail address	EML	Y	Y
Entry Date	ED	Y	Y
Field Availability	FA	Y	N
International Standard Book Number	ISBN	N	Y
International Standard Serial Number	ISSN	N	Y
Journal Title	JT	Y	Y
Journal Title, Abbreviated	JTA	Y	Y
Journal Title, Full	JTF	Y	Y
Language	LA	Y	Y
Meeting Date	MD	Y	Y
Meeting Location	ML	Y	Y
Meeting Title	MT	Y	Y
Meeting Year	MY	Y	Y
Number of Contract	NC	Y	Y
Number of Report	NR	Y	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y
Publisher	PB	Y	Y
Publisher Item Identifier	PUI	Y	Y
Source	SO	Y	N
Title	TI	Y (default)	Y
Uniform Resource Locator	URL	Y	Y
Update Date	UP	Y	Y
Word Count, Title	WC.T	Y	Y

Sample Records

DISPLAY BIB OF PATENT

```
AN    28(6):22698  INIS
TI    Vacuum vessel of thermonuclear device and method of manufacturing it.
AU    Uchida, Takaho; Shibui, Masanao; Ito, Koji
CS    Toshiba Corp., Kawasaki, Kanagawa (Japan)
PI    JP 8233966 A 13 Sep 1996 5 p.
      Available from JAPIO. Also available from EPO.
AI    JP 7-34831 23 Feb 1995
DT    Patent; Availability Note
CY    Japan
LA    Japanese
FA    AB
```

DISPLAY BIB OF BOOK

```
AN    28(5):17996  INIS
TI    Digital projection radiography.
      Digitale Projektionsradiographie.
AU    Busch, H.P. (Krankenhaus der Barmherzigen Bueder, Trier (Germany).
      Radiologie)
SO    Measurement of dose-area product in diagnostic radiology as a method of
      assessing the radiation exposure. (Results, experience, proposals for
```

improvement, recommendations relating to radiological protection). Report of an expert meeting.
Die Messung des Dosisflaechenproduktes in der diagnostischen Radiologie als Methode zur Ermittlung der Strahlenexposition. (Ergebnisse, Erfahrungen, Verbesserungsvorschlaege und Empfehlungen zum Strahlenschutz). Bericht ueber ein Expertentreffen.
Editor: Loester, W.; Drexler, G.; Stieve, F.E.
Berlin: Hoffmann. 1995. p. 93-98 of 280 p.
ISBN: 3-87344-095-4
DT Book Article
CY Germany, Federal Republic of
LA German
FA AB; ABDE

DISPLAY BIB OF JOURNAL

AN 28(6):22582
TI Systematics of charge distribution studies in low-energy fission of actinides.
AU Naik, H. (Bhabha Atomic Research Centre, Bombay (India). Radiochemistry Div.); Dange, S.P. (Bhabha Atomic Research Centre, Bombay (India). Radiochemistry Div.); Singh, R.J. (Bhabha Atomic Research Centre, Bombay (India). Radiochemistry Div.); Manohar, S.B. (Bhabha Atomic Research Centre, Bombay (India). Radiochemistry Div.)
SO Nuclear Physics. A (13 Jan 1997) v. 612(2) p. 143-162.
CODEN: NUPABL ISSN: 0375-9474
DT Journal; Numerical Data
CY Netherlands
LA English
FA AB

DISPLAY ALL OF JOURNAL

AN 28(6):22582 INIS
TI Systematics of charge distribution studies in low-energy fission of actinides.
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SO Nuclear Physics. A (13 Jan 1997) v. 612(2) p. 143-162.
CODEN: NUPABL ISSN: 0375-9474
DT Journal; Numerical Data
CY Netherlands
LA English
FA AB
AB Charge distribution studies were carried out in the thermal neutron-induced fission of 229Th, 241Pu and 245Cm as well as in the spontaneous fission of 252Cf. The width parameter (sigmaZ /sigmaA), the most probable charge/mass (ZP/AP) and the charge polarization (DELTAZ) as a function of fragment mass were deduced. The slope of charge polarization as a function of fragment mass [delta(DELTAZ)/deltaA'], average charge dispersion parameter (left angle sigmaZ right angle) and proton odd-even effect (deltaP) were also obtained for these fissioning systems. These data along with the literature data for even-Z fissioning systems such as 233Th*, 233U*, 234U*, 236U*, 239U*, 239Pu*, 240Pu* and 250Cf* are discussed in terms of nuclear-structure effects and dynamics of descent from saddle point to the point of neck formation and from the formation of the neck to the scission point. (orig.)

CC *G3470; G3590

CT BRANCHING RATIO; CALIFORNIUM 252; CHARGE DISTRIBUTION; CURIUM 245 TARGET; EXPERIMENTAL DATA; FISSION FRAGMENTS; FISSION YIELD; PLUTONIUM 241 TARGET; SPONTANEOUS FISSION; THERMAL FISSION; THORIUM 229 TARGET *CALIFORNIUM 252: *SPONTANEOUS FISSION; *CURIUM 245 TARGET: *THERMAL FISSION; *PLUTONIUM 241 TARGET: *THERMAL FISSION; *SPONTANEOUS FISSION: *CHARGE DISTRIBUTION; *THERMAL FISSION: *CHARGE DISTRIBUTION; *THORIUM 229 TARGET: *THERMAL FISSION

BT ACTINIDE NUCLEI; ALPHA DECAY RADIOISOTOPES; BARYON REACTIONS; CALIFORNIUM ISOTOPES; DATA; DECAY; EVEN-EVEN NUCLEI; FISSION; HADRON REACTIONS; HEAVY NUCLEI; INFORMATION; ISOTOPES; NEUTRON REACTIONS; NUCLEAR DECAY; NUCLEAR FRAGMENTS; NUCLEAR REACTION YIELD; NUCLEAR REACTIONS; NUCLEI; NUCLEON REACTIONS; NUMERICAL DATA; RADIOISOTOPES; SPONTANEOUS FISSION RADIOISOTOPES; TARGETS; YEARS LIVING RADIOISOTOPES; YIELDS

ET Th; 229Th; is; Th is; Pu; 241Pu; Pu is; Cm; 245Cm; Cm is; Cf; 252Cf; Cf is