

<b>Subject Coverage</b>	<ul style="list-style-type: none"> <li>• Application of polymers</li> <li>• Applied polymer literature</li> <li>• Chemical methods, auxiliary materials, chemical structures</li> <li>• Industrial, economic, and environmental aspects</li> <li>• Physics of polymers</li> <li>• Polymers, monomers</li> <li>• Production and processing of plastics</li> <li>• Semi-finished products</li> </ul>																																
<b>File Type</b>	Bibliographic																																
<b>Features</b>	<table border="0"> <tr> <td>Thesaurus</td> <td colspan="3">Controlled Term Fields (/CT, /CTDE)</td> </tr> <tr> <td><a href="#">Alerts (SDIs)</a></td> <td colspan="3">Not available</td> </tr> <tr> <td><a href="#">CAS Registry Numbers®</a></td> <td><input type="checkbox"/></td> <td>Page Images</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 type="checkbox"/></td> </tr> <tr> <td>Learning Database</td> <td><input type="checkbox"/></td> <td>Structures</td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td><a href="#">STN AnaVist</a></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td><a href="#">STN Easy</a></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td><a href="#">STN Viewer</a></td> <td><input type="checkbox"/></td> </tr> </table>	Thesaurus	Controlled Term Fields (/CT, /CTDE)			<a href="#">Alerts (SDIs)</a>	Not available			<a href="#">CAS Registry Numbers®</a>	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	<a href="#">Keep &amp; Share</a>	<input checked="" type="checkbox"/>	<a href="#">SLART</a>	<input type="checkbox"/>	Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>			<a href="#">STN AnaVist</a>	<input type="checkbox"/>			<a href="#">STN Easy</a>	<input checked="" type="checkbox"/>			<a href="#">STN Viewer</a>	<input type="checkbox"/>
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		<a href="#">STN Viewer</a>	<input type="checkbox"/>																														
<b>Record Content</b>	<ul style="list-style-type: none"> <li>• Bibliographic information, indexing, and abstracts.</li> <li>• Classification codes and controlled terms are available in English and German.</li> <li>• Citation added since 1979 contain abstracts in English or German, since 1997 abstracts are in English only.</li> </ul>																																
<b>File Size</b>	<ul style="list-style-type: none"> <li>• 436,215 citations</li> </ul>																																
<b>Coverage</b>	1973-2005																																
<b>Updates</b>	Not updated																																
<b>Language</b>	English, German																																
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**Sources**

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## Search and Display Field Codes

There are no fields that allow left truncation in this file.

### 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), controlled term in German (CTDE) and supplementary term (ST) fields)	None or /BI	S FUEL CELL#	TI, AB, CT, CTDE, ST
Accession Number	/AN	S 1998:9355/AN	AN
Author	/AU	S HAMNETT, A/AU	AU
Availability	/AV	S TIB/AV	AV
Classification Code in German (code, main code and text in German) <b>(1)</b>	/CCDE	S ELEKTROCHEMISCHE ELEMENTE/CCDE S 3860/CCDE	CCDE
Classification Code (code, main code and text in English) <b>(1)</b>	/CC (or /CCEN)	S 3860/CC S *8371/CC S FOAM PRODUCTION/CC	CC
Controlled Term in German <b>(2)</b>	/CTDE	S KALTVERFORMUNG/CTDE	CTDE
Controlled Term <b>(2)</b>	/CT (or /CTEN)	S FOAMING IN SITU/CT	CT
Controlled Word (contains English and German)	/CW	S NITROVERBINDUNGEN/CW S OPTICAL/CW	CT, CTDE
Corporate Source (affiliation, country of affiliation) <b>(1)</b>	/CS	S UNIV? NEWCASTLE TYNE/CS S RWTH AACHEN?/CS S GB/CS	CS, AU
Document Type (code and text)	/DT (or /TC)	S J/DT S JOURNAL/DT	DT
Entry Date <b>(3)</b>	/ED (or /UP)	S ED>19980200 and L1	ED
Journal Title	/JT	S J. APPL. ELECTROCHEM./JT	JT, SO
Language (ISO code and text)	/LA	S DE/LA AND BRENNSTOFFZELLE#	LA
Meeting Date <b>(3)</b>	/MD	S MD=22 FEB 2001	MD, SO
Meeting Location <b>(1)</b>	/ML	S DENTON STATES/ML	ML, SO
Meeting Title	/MT	S INJECTION MOLDING/MT	MT, SO
Meeting Year <b>(3)</b>	/MY	S MY>2000	MY, SO
Number of Report (number and prefix)	/NR	S DOT-FAA-CT-82-147/NR S BMFT/NR	NR
Publication Year <b>(3)</b>	/PY	S 1991-1992/PY	PY, SO
Source (contains CODEN, journal title and other higher level titles, ISBN, ISSN, publisher, meeting information, number of report)	/SO	S J APPL ELECTROCHEM/SO S PROBLEMLUESUNG?(S)ELASTOMER?/SO S 3-18-234160-X/SO S (DUESSELDORF(S)VDI)/SO	
Supplementary Term	/ST	S SULFONAT?/ST	ST
Title	/TI	S O2-ENTWICKLUNG/ST S (PET(S)BOTTLE?)/TI	TI

**(1)** Search with implied (S) proximity is available in this field.

**(2)** An online thesaurus is available in this field.

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

## Controlled Term Thesaurus (/CT, /CTDE)

All Relationship Codes can be used with both the SEARCH and EXPAND command in the Controlled Term fields (/CT, /CTDE). The thesaurus is available in both German and English. By default, both languages are shown. Please note that English terms are searchable in CT only, and German terms in /CTDE only.

Code	Content	Examples
ALL	All associated terms	E HYDRAZINES+ALL/CT
AUTO (1)	Automatic relationship (TRL,USE,UF,SEE,OLD)	S ETHYLENE+AUTO/CT
BT	Broader terms (also BT1, BT2, etc. possible)	E PHOSGENE+BT/CT
HIE	Hierarchy (all broader and narrower terms)	S MINERALIEN+HIE/CTDE
NT	Narrower terms (also NT1, NT2, etc. possible)	S MORPHOLOGIE+NT/CTDE
OLD	Replaced terms (OLD, NOTE)	E MAKROCYCLEN+OLD/CTDE
PFT	Preferred and forbidden terms (USE, UF, SEE, OLD, NOTE)	S ETHYLENE+PFT/CT
RT	Related terms	S BESTAENDIGKEIT+RT/CTDE
STD	Standard (all broader, narrower and related terms)	E CYCLOALIPHATICS+STD/CT
SEE	Forbidden and choice of preferred terms	E CARBONATE+SEE/CT
TRL	Translated, preferred and forbidden terms	S SOLAR HEATING+TRL/CT
UF	Preferred and forbidden terms	S ETHYLENE+UF/CT
USE	Forbidden and preferred terms	S ETHYLEN+USE/CTDE

(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 CS. 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 to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB	Abstract	D TI AB
AN	Accession Number	D 1-5 AN
AU	Author	D AU TI
AV	Availability	D AV
CC (CCEN)	Classification Code	D CC
CCDE	Classification Code in German	D CCDE
CS	Corporate Source (format includes AU)	D CS
CT (CTEN)	Controlled Term	D CT
CTDE	Controlled Term in German	D CTDE
DT (TC)	Document Type	D DT LA
ED (UP) (1)	Entry Date	D ED
JT (1)	Journal Title	D JT
LA	Language	D LA
MD (1)	Meeting Date	D MD
ML (1)	Meeting Location	D ML
MT (1)	Meeting Title	D MT
MY (1)	Meeting Year	D MY
NR	Number of Report	D NR
PY (1)	Publication Year	D PY
SO	Source	D L5 SO
ST	Supplementary Term	D ST
TI	Title	D TI 1-10

**DISPLAY and PRINT Formats (cont'd)**

Format	Content	Examples
ABS ALL ALLDE DALL IALL BIB IBIB IND SCAN (2) TRIAL (TRI, SAM, SAMPLE)	AN, AB AN, TI, AU, CS, NR, SO, DT, LA, AV, AB, CC, CT, ST AN, TI, AU, CS, NR, SO, DT, LA, AV, AB, CCDE, CTDE, ST ALL, with delimiter for post-processing ALL, indented with labels AN, TI, AU, CS, NR, SO, DT, LA, AV (BIB is default) BIB, indented with labels AN, CC, CCDE, CT, CTDE, ST TI, CT (random display without answer numbers) TI, CC, CT, ST	D ABS D ALL 1-10 D ALLDE D DALL D IALL D BIB D IBIB D L5 IND D STD D TRI
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.

(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 (2)	N
Accession Number	AN	Y	N
Author	AU	Y	Y
Availability	AV	Y	Y
Classification Code	CC (CCEN)	Y	Y
Classification Code in German	CCDE	Y	Y
CODEN	CODEN	N	N
Controlled Term	CT (CTEN)	Y	N
Controlled Term in German	CTDE	Y	N
Corporate Source	CS	Y	Y
Document Type	DT (TC)	Y	Y
Entry Date	ED (UP)	Y	Y
International Standard (Document) Number	ISN	Y (3)	N
International Standard Book Number	ISBN	N	Y
International Standard Serial Number	ISSN	N	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
Meeting Date	MD	Y	Y
Meeting Location	ML	Y	Y

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

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Meeting Title	MT	Y	Y
Meeting Year	MY	Y	Y
Number of Report	NR	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Publication Year	PY	Y	Y
Source	SO	Y (4)	N
Supplementary Term	ST	Y	N
Title	TI	Y (default)	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 TI.  
 (2) Appends /BI to the terms created by SELECT.  
 (3) Selects or analyzes CODEN, ISSN and ISBN and appends /ISN to the terms created by SELECT.  
 (4) Selects or analyzes CODEN, ISSN and ISBN and appends /SO to the terms created by SELECT.

**Sample Records****EXPAND in CT/ THESAURUS**

```
=> E HYDRAZINES+ALL/CT
E1      4   BT2  EN hetero compounds/CT
E2      0           DE HETEROVERBINDUNGEN/CT
E3     78   BT1  EN nitrogen compounds/CT
E4      0           DE STICKSTOFFVERBINDUNGEN/CT
E5    1017   --> EN hydrazines/CT
E6      0           DE HYDRAZINE/CT
E7      0   UF   EN hydrazine/CT
E8     244   NT1  EN hydrazides/CT
E9      0           DE HYDRAZIDE/CT
E10     210   NT1  EN hydrazones/CT
E11     0           DE HYDRAZONE/CT
E12     150   NT1  EN semicarbazide/CT
E13     0           DE SEMICARBAZID/CT
E14     47   NT1  EN thiosemicarbazide/CT
E15     0           DE THIOSEMICARBAZID/CT
E16    24790  RT   EN amines/CT
E17     0           DE AMINE/CT
*****  END  *****
```

**DISPLAY ALL OF JOURNAL**

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AN  2002:11009  APOLLIT
TI  Recent advance in living anionic polymerization of functionalized styrene
    derivatives
AU  Hirao, Akira; Loykulnant, Surapich; Ishizone, Takashi (Department of
    Polymeric and Organic Materials, Graduate School of Science and
    Engineering, Tokyo Institute of Technology, Ohokayama, Tokyo (JP))
SO  Progress in Polymer Science (2002) v. 27(8), p. 1399-1471
    CODEN: PRPSB8  ISSN: 0079-6700
DT  Journal
LA  English
AB  This review covers recent advance of living anionic polymerization of
    styrene derivatives with functional groups. Although there have so far
    been reported several successful systems of living anionic polymerization
    of functionalized styrene derivatives, most useful functional groups are
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not amenable to the conditions of living anionic polymerization of styrene. Therefore, we herein present two generalized strategies to be able to achieve the living anionic polymerization of styrenes with such functional groups that are normally incompatible with carbanionic species. The first strategy involves protection of the functional group and living anionic polymerization of the resulting protected monomer, followed by deprotection to regenerate the original functional group after the polymerization. In the second strategy, an electron-withdrawing functional group is introduced into the benzene ring of styrene to purposefully lower the reactivity of the generated chain-end carbanion, thereby allowing the functional group and the carbanion to coexist. The living anionic polymerization of a number of styrene derivatives with functional groups became indeed possible by employing two proposed strategies. Their scopes, limitations, and possibilities are also discussed. (orig.)

- CC \*1121 Styrene polymers  
3200 Polymerization  
3230 Catalysts  
3850 Reactive polymers
- CT ALKYL; ALPHA-METHYLSTYRENE; AMIDES, N-SUBSTITUTED; AMINES; ANIONS; BLOCK COPOLYMERIZATION; C-AROMATICS; CARBONYLS; POLYMER DERIVATIVES; END GROUPS; ESTERS; ETHERS; ETHYLENE; HALIDES, ORGANIC; MAIN CHAIN; IONIC POLYMERIZATION; CATALYSTS; LIVING POLYMERS; SOLVENTS; METALS; METHYL; MICROSTRUCTURE; MOLECULAR WEIGHT; MONOMERS; MONOSACCHARIDES; OXAZOLINE; PHENOL; POLYMERIZATION TEMPERATURE; POLYSTYRENE; REACTIVITY; PROTECTIVE GROUPS; SILICON COMPOUNDS; STYRENE; SULFIDES; SULFONES; COMPARISON; VINYL
- ST living polymerization of styrene derivatives

#### DISPLAY ALL OF CONFERENCE

- AN 2002:13369 APOLLIT
- TI 2001 annual meeting of the Deutsche Gesellschaft fuer Zerstoerungsfreie Pruefung (DGZfP)  
DGZfP-Jahrestagung 2001. Zerstoerungsfreie Materialpruefung. ZfP in Anwendung, Entwicklung und Forschung
- CS Deutsche Gesellschaft fuer Zerstoerungsfreie Pruefung e.V., Berlin (DE)
- SO Ser. Title: Deutsche Gesellschaft fuer Zerstoerungsfreie Pruefung. Berichtsband (2001) v. 75-CD, CD-ROM  
Conference: 2001 annual meeting of the Deutsche Gesellschaft fuer Zerstoerungsfreie Pruefung (DGZfP). Jahrestagung 2001 der Deutschen Gesellschaft fuer Zerstoerungsfreie Pruefung (DGZfP): ZfP in Anwendung, Entwicklung und Forschung, Berlin (Germany), 21-23 May 2001
- DT Computer medium; Conference
- LA German
- AB Topics of this proceedings are in general all aspects of non-destructive materials testing: ultrasonic testing; leak detection; acoustic methods; magnetic methods; electromagnetic methods; digital radiographic testing; computertomography; non-metals - methods; non-metals - polymers; non-metals - carbon-fiber reinforced polymers; railway systems; automobile industry; characterization of materials; building sector. (SR)
- CC \*6120 Testing  
5420 Carbon fiber-reinforced plastics  
1230 Epoxy resins  
1183 Polyesters, polycarbonates
- CT FIBER-REINFORCED PLASTICS; POLYCARBONATES; GLASS FIBER-REINFORCED PLASTICS; CARBON FIBER-REINFORCED PLASTICS; MEASURING INSTRUMENTS; TEST, NONDESTRUCTIVE; SANDWICH STRUCTURES; DAMAGES; ULTRASOUND; VOIDS; X-RAYS; FAULTS; POROSITY; EPOXY RESINS; ORIENTATION; SCATTERING; SHORT FIBER REINFORCEMENT; MICROWAVES; ANISOTROPY; FATIGUE; VISCOELASTICITY; ELASTIC MODULUS
- ST non-destructive analysis; cfrp;; fibre reinforced polycarbonates

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