

APOLLIT

| | | |
|--------------------------|--|-------------------------------------|
| Subject Coverage | <ul style="list-style-type: none"> • Application of polymers • Applied polymer literature • Chemical methods, auxiliary materials, chemical structures • Industrial, economic, and environmental aspects • Physics of polymers • Polymers, monomers • Production and processing of plastics • Semi-finished products | |
| File Type | Bibliographic | |
| Features | Thesaurus | Controlled Term Fields (/CT, /CTDE) |
| | Alerts (SDIs) | Not available |
| | Keep & Share | <input checked="" type="checkbox"/> |
| Record Content | <ul style="list-style-type: none"> • Bibliographic information, indexing, and abstracts. • Classification codes and controlled terms are available in English and German. • Citation added since 1979 contain abstracts in English or German, since 1997 abstracts are in English only. | |
| File Size | <ul style="list-style-type: none"> • 436,215 citations | |
| Coverage | 1973-2005 | |
| Updates | Not updated | |
| Language | English, German | |
| Database Producer | 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 Copyright Holder | |

Sources

- Journals
 - Books
 - Conference contributions
 - Reports
 - Other non-conventional literature
-

User Aids

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

Cluster

- ALLBIB
- AUTHORS
- CORPSOURCE
- MATERIALS
- POLYMERS

STN Database Cluster information:

<http://www.stn-international.com/en/customersupport/customer-support#cluster+%7C+subjects+%7C+features>

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) (1) | /CCDE | S ELEKTROCHEMISCHE ELEMENTE/CCDE S 3860/CCDE | CCDE |
| Classification Code (code, main code and text in English) (1) | /CC (or /CCEN) | S 3860/CC S *8371/CC S FOAM PRODUCTION/CC | CC |
| Controlled Term in German (2) | /CTDE | S KALTVERFORMUNG/CTDE | CTDE |
| Controlled Term (2) | /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) (1) | /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 (3) | /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 (3) | /MD | S MD=22 FEB 2001 | MD, SO |
| Meeting Location (1) | /ML | S DENTON STATES/ML | ML, SO |
| Meeting Title | /MT | S INJECTION MOLDING/MT | MT, SO |
| Meeting Year (3) | /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 (3) | /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  *****
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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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614-447-3731 (worldwide)
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