

- Subject Coverage**
- Agriculture
 - Anatomy
 - Astronomy
 - Behavioral sciences
 - Biology
 - Biotechnology
 - Chemistry
 - Engineering
 - Environmental sciences
 - Genetics
 - Immunology
 - Materials science
 - Mathematics
 - Medicine
 - Pharmacology
 - Physics
 - Plant sciences
 - Psychiatry
 - Reproductive systems
 - Surgery
 - Technical & applied sciences
 - Veterinary science
 - Zoology
 - Computer Sciences
 - Ecology
 - Energy
 - Neuroscience
 - Oncology
 - Pediatrics

File Type Bibliographic

- Features**
- Thesaurus
- [Alerts \(SDIs\)](#) Weekly
- CAS Registry Numbers[®] Page Images STN AnaVist
- [Keep & Share](#) [SLART](#) [STN Easy](#)
- Learning Database Structures STN Viewer

- Record Content**
- Multidisciplinary scientific and technical database that contains bibliographic information and cited references from approximately 5,900 of the world's leading scientific, technical, and medical journals
 - For records from January 1991 to the present, abstracts, author keywords, and KeyWords Plus[®] are generally included

File Size More than 32.6 million records (12/2011)

Coverage 1974-present

Updates Weekly

Language English

Database Producer

Thomson Reuters
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Sources

Contains all records published in Science Citation Index® and additional records from about 1,000 journals from the Current Contents® series of publications

User Aids

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Clusters

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| • BIOSCIENCE | • FUELS | • POLYMERS |
| • CHEMENG | • GEOSCIENCE | • RFTOOLS |
| • CHEMISTRY | • HEALTH | • SAFETY |
| • COMPUTER | • HUMANITIES | • TOXICOLOGY |
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SEARCH and DISPLAY Field Codes

The fields that allow left truncation are marked with an asterisk (*).

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single words from the title (TI), author keywords (ST), abstract (AB), and KeyWords Plus (STP) fields) (1)	None (or /BI)	S CONJUGAT? S PEPTIDE IMMUNOGEN# S DIELS (L) REARRANG? S ISOMER? S ?STEREO?	AB, TI, ST, STP
Abstract * (1)	/AB	S COLLAGEN FIBER#/AB	AB
Accession Number	/AN	S 91:99998/AN	AN
Author	/AU	S CARTER A?/AU	AU, AU.CS
Cited Reference (contains referenced author, year, volume, page, work, patent number, and patent inventor or assignee)	/RE	S BYRON B, 1985?/RE S US 3623975, 1971?/RE	RE
Cited Reference Author	/RAU	S BYRON B?/RAU(S)1985/RPY	RE
Cited Reference Count (2)	/REC	S L6 AND REC<=10	REC
Cited Reference Inventor	/RIN	S COTTER W?/RIN	RE
Cited Reference Page Number (2)	/RPG	S L6 AND 20>RPG>10	RE
Cited Reference Patent Number (3)	/RPN (or /PATS)	S US556669/RPN	RE
Cited Reference Publication Volume (2)	/RVL	S J BIOL CHEM/RWK (S) 264/RVL	RE
Cited Reference Publication Year (2)	/RPY	S RPY>=1993	RE
Cited Reference Work	/RWK	S MORGAN M?/RAU (S) NATURE/RWK	RE
Classification Code (Category Code) (4)	/CC	S CHEMISTRY/CC S "CHEMISTRY,ANALYTICAL"/CC	CC
Corporate Source (4)	/CS	S DOW FREEPORT/CS	CS, AU.CS
Country Name of Author	/CYA	S GREECE/CYA	CYA
Document Number	/DN	S 0000603128/DN	DN
Document Type (code and text)	/DT (or /TC)	S BIO/DT S BIOGRAPHY/DT	DT, TC
E-mail Address	/EML	S JBLAKE@ENSR.COM/EML	CS, EML
Entry Date (2)	/ED	S ED>940900	ED
Field Availability	/FA	S L1 AND RF/FA	Not displayed
File Segment	/FS	S L2 AND ENGI/FS	FS
The Genuine Article® Number (Order Number)	/GA (or /ON)	S DZ558/GA	GA
International Standard (Document) Number (5)	/ISN	S 0002-3264/ISN	ISN, SO
Journal Title	/JT	S JOURNAL OF ADVANCED ZOOLOGY/JT	JT, SO
Language (code and text)	/LA	S FR/LA S FRENCH/LA	LA
Publication Date (2)	/PD	S 20040000/PD	PD, SO
Publication Year (2)	/PY	S 2007-2008/PY	PY, SO
Publisher Information	/PB	S SPRINGER/PB	PB
Source (contains journal title, collation information, publication date, publisher name and address, and ISSN)	/SO	S (REVIEW# AND CHEMIST?)/SO S MACMILLAN MAGAZINES/SO	SO
Supplementary Term * (Author Keyword) (1)	/ST	S PHOTOMET? STEREO?/ST	ST
Supplementary Term Plus * (KeyWords Plus) (1)	/STP	S QUANTUM YIELD#/STP	STP

SEARCH and DISPLAY Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Title *	/TI	S EDUCATION/TI S STRUCTUR? ANALYSIS/TI	TI
Update Date (2)	/UP	S UP>=20040930	ED (UP)
Zip Code (2)	/ZP	S 43229/ZP	CS

(1) The abstract (AB), author keywords (ST), and KeyWords Plus (STP) are available from 1991 to the present.

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

(3) By default, displayed in STN format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset display to STN format, enter SET PATENT STN.

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

(5) Data available from 1992 to the present.

(6) Data available from 1983 to the present.

Limiting Search Codes (1)

Search Field Name	Search Code	Search Examples
English language records	/ENGLISH (2)	S L1/ENGLISH
Records in a language other than English	/NENGLISH (2)	S L1/NEN
Records that are articles	/ARTICLE (2)	S L1/ART
Non-article records	/NARTICLE (2)	S L1/NAR
Records that are reviews	/REVIEW (2)	S L1/REV,CRE (3)
Records with cited references	/CREF (2)	S L1/CRE
Records without cited references	/NCREF (2)	S L1/NCR
Records with abstracts	/ABSTRACT (2)	S L1/ABS,ENG (3)

(1) Only an answer set created in SCISEARCH may be limited.

(2) The code may be abbreviated to the first three letters.

(3) An answer set may be limited to more than one subject area.

DISPLAY and PRINT Formats

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

Hit-term highlighting is available in all fields except PY. Highlighting must be ON during SEARCH to use the HIT, KWIC, and OCC display formats.

Format	Content	Examples
AB	Abstract	D L4 1-4 AB
AN	Accession Number	DISPLAY L1 3 AN
AU (2)	Author	D AU 1,3-5
CC	Classification Code (Category Code)	D CC 5-10
CS (2)	Corporate Source	D 1-3,7,8 CS
CYA	Country Name of Author	D CYA
DN	Document Number	D DN
DT (TC)	Document Type	D DT 1-5
EML	E-mail Address	D EML
FS	File Segment	D L1 FS 3
GA (ON)	The Genuine Article Number	D 1,3,6,8 GA L5
ISN	International Standard (Document) Number	D ISN
JT	Journal Title	D JT

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
JTA	Journal Title, Abbreviated	D JTA
JTF	Journal Title, Full	D JTF
LA	Language	D L8 LA 1 3
PATS	Table of cited patent information (contains referenced patent number (RPN), year (RPY), and inventor referenced patent number (RIN))	D PATS
PB	Publisher Information	D PB
PD	Publication Date	D L1 PD
PY	Publication Year	D PY
RE	Table of Cited References (contains the author (RAU), inventor (RAU), patent number (RPN), work (RWK), page number (RPG), publication volume (RVL), and publication year (RPY))	D RE L1 4
REC	Cited Reference Count	D REC 3,4
SO	Source	D SO
ST	Supplementary Term (Author Keyword)	D L3 ST
STP	Supplementary Term Plus (KeyWords Plus)	D STP 2 L5
TI	Title	D TI 2
ABS	AB	D L3 4 ABS
ALL	AN, GA, TI, AU, CS, CYA, SO, PB, DT, FS, LA, REC, AB, CC, ST, STP, RE	D ALL
AU.CS	AU.CS displays linked together	D AU.CS
BIB	AN, GA, TI, AU, CS, CYA, SO, PB, DT, FS, LA, REC (BIB is the default)	D 5,3 BIB
CBIB	Compressed Bibliographic Information	D CBIB
DALL	ALL, delimited for post-processing	D DALL 1-5
IABS	ABS, with a text label	D IABS
IALL	ALL, indented with text labels	D L3 2 IALL
IBIB	BIB, indented with text labels	D IBIB
IND	CC, ST, STP	D 1-3,5,6 IND L3
SAM (TRIAL, FREE)	AN, GA, TI, REC, CC, ST, STP	D L2 SAM 3,4-7
SCAN (1)	AN, GA, TI, CC, ST, STP (random display without answer numbers)	D SCAN
HIT	Fields containing hit search terms	D L4 HIT 3
KWIC	Hit terms with 20 words on either side (Key-Word-In-Context)	D KWIC
OCC	Number of occurrences of hit terms and fields in which they occur	D OCC 1-6

(1) No online display charge for this option. SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

(2) AU.CS displays authors linked to their organization.

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers or 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	SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y	N
Author	AU	Y	Y
Citation	CIT	Y (2,3)	N
Cited Reference	RE	Y	N
Cited Reference Author	RAU	Y	N
Cited Reference Count	REC	Y	Y
Cited Reference Inventor	RIN	Y	N
Cited Reference Page Number	RPG	Y	N
Cited Reference Patent Number	RPN	Y	N
	PATS	Y	N
Cited Reference Publication Volume	RVL	Y	N
Cited Reference Publication Year	RPY	Y	N
Cited Reference Work	RWK	Y	N
Classification Code (Category Code)	CC	Y	Y
Corporate Source	CS	Y	Y
Country Name of Author	CYA	Y	Y
Document Number	DN	Y	Y
Document Type	DT	Y	Y
(Treatment Code)	TC	Y	Y
E-mail Address	EML	Y	Y
File Segment	FS	Y	Y
Hit Citation	HITRE	N	Y
International Standard (Document) Number	ISN	Y (4)	N
International Standard Serial Number	ISSN	N	Y
Journal Title	JT	Y	Y
Journal Title, Abbreviated	JTA	Y (6)	Y
Journal Title, Full	JTF	Y (6)	Y
Language	LA	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y (3)	Y
Source	SO	Y (5)	N
Supplementary Term (Author Keyword)	ST	Y	N
Supplementary Term Plus (KeyWords Plus)	STP	Y	N
The Genuine Article Number	GA	Y	Y
(Order Number)	ON	Y	Y
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 AU.

(2) Selects first author, publication year, volume, first page, and a truncation symbol with /RE appended.

(3) SELECT HIT is not valid with this field.

(4) Selects the ISSN with /ISN appended.

(5) Selects the ISSN with /SO appended.

(6) Appends /JT to the terms created by SELECT.

Sample Record

DISPLAY IALL

ACCESSION NUMBER: 2009:1259770 SCISEARCH
 THE GENUINE ARTICLE: 510BS
 TITLE: New Quenching Procedure for Preservation of Initial
 Polymer/Catalyst Particle Morphology in Ziegler-Natta
 Olefin Polymerization
 AUTHOR: Terano, Minoru (Reprint)
 CORPORATE SOURCE: Japan Adv Inst Sci & Technol, Sch Mat Sci, 1-1 Asahidai,
 Nomi, Ishikawa 9231292, Japan (Reprint)
 AUTHOR: Thang, Vu Quoc; Taniike, Toshiaki; Umemori, Masaki; Ikeya,
 Mitsuhiro; Hiraoka, Yuichi; Terano, Minoru (Reprint)
 CORPORATE SOURCE: Japan Adv Inst Sci & Technol, Sch Mat Sci, Nomi, Ishikawa
 9231292, Japan
 AUTHOR: Thang, Vu Quoc; Nghia, Nguyen Duc
 CORPORATE SOURCE: Vietnam Acad Sci & Technol, Inst Chem, Cau Giay, Ha Noi,
 Vietnam
 COUNTRY OF AUTHOR: Japan; Vietnam
 SOURCE: MACROMOLECULAR REACTION ENGINEERING, (12 OCT 2009) Vol.
 3, No. 8, pp. 467-472.
 ISSN: 1862-832X.
 PUBLISHER: WILEY-V C H VERLAG GMBH, PO BOX 10 11 61, D-69451
 WEINHEIM, GERMANY.
 DOCUMENT TYPE: Article; Journal
 LANGUAGE: English
 REFERENCE COUNT: 32
 ENTRY DATE: Entered STN: 5 Nov 2009
 Last Updated on STN: 5 Nov 2009

ABSTRACT:

Preservation of initial polymer/catalyst particle morphology under air, was examined using stopped-flow Ziegler-Natta polymerization with various quenching conditions and postchemical treatments. The exposure of the initial particles to air caused the fast formation of cracks on the surface, finally leading to significant reformation of the particle shape, when polymerizing particles were washed with P heptane at -65 degrees C under N-2 or under CO2. On the other hand, when the particles were washed with heptane containing an appropriate amount of tetrahydrofuran under CO2, the particle morphology under air was almost completely maintained even after 1 h exposure. The present results are useful for various ex situ characterizations of unstable initial polymer/catalyst particles.

CATEGORY: ENGINEERING, CHEMICAL; POLYMER SCIENCE
 SUPPLEMENTARY TERM: morphology; polyolefins; stopped-flow method;
 Ziegler-Natta polymerization
 SUPPL. TERM PLUS: MOLECULAR-WEIGHT DISTRIBUTION; STOPPED-FLOW
 POLYMERIZATION; PROPYLENE POLYMERIZATION; CATALYST;
 POLYPROPYLENE; POLYOLEFINS; DISTRIBUTIONS; REACTORS;
 KINETICS; PROPENE

REFERENCE(S):

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	ARN PG (RPG)	Referenced Work (RWK)
DASHTI A	2008	58	40	POLYM INT
HOCK C W	1966	4	3055	J POLYM SCI POL CHEM
HUTCHINSON R A	1992	44	1389	J APPL POLYM SCI
KAKUGO M	1989	22	3172	MACROMOLECULES
KAKUGO M	1990		345	CATALYTIC OLEFIN POL
KANG K S	1990	23	191	POLYM BULL
KAZUO S	1989	190	643	MAKROMOL CHEM
KEII T	1987	8	583	MAKROMOL CHEM-RAPID
KEII T	1995	4	947	MACROMOL THEOR SIMUL
LIU B P	2005	44	2382	IND ENG CHEM RES
LIU B P	2001	22	1	MACROMOL RAPID COMM
MARTINO A D	2005	26	215	MACROMOL RAPID COMM
MARTINO A D	2007	1	165	MACROMOL REACT ENG

SCISEARCH

MARTINO A D	2007	1	229	MACROMOL REACT ENG
MCKENNA T F	2001	56	3931	CHEM ENG SCI
MOORE E P	1996		86	POLYPROPYLENE HDB
MORI H	1998	199	613	MACROMOL CHEM PHYSIC
MORI H	1996	197	895	MACROMOL CHEM PHYSIC
NAGEL E J	1980	19	372	IND ENG CHEM PROD RD
NONSTI L	1994	32	3047	J POLYM SCI A
PATER J T M	2001	56	4107	CHEM ENG SCI
RAY W H	1988		563	TRANSITION METAL CAT
SCHEAL W R	1971	17	1189	AICHE J
SCHEAL W R	1972	10	2173	AICHE J
SIMONAZZI T	1991	16	303	PROG POLYM SCI
SINGH D	1971	4	599	MACROMOLECULES
SOARES J B P	2008	2	115	MACROMOL REACT ENG
SOARES J B P	2007	260	189	MACROMOL SYMP
TERANO M	1989	56	203	J MOL CATAL
VESTBERG T	2008	110	2021	J APPL POLYM SCI
YERMAKOV Y I	1970	9	7	PLAST MASSY
ZHENG X	2005	27	15	MACROMOL RAPID COMM

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