RAPRA (Polymer Library)

Subject Coverage

- Additives and compounding ingredients
- Applications of polymers
- Chemical modification
- Company and commercial information
- Environmental effects
- Industrial hazards and toxicology
- Intermediate and semi-finished products
- Machinery and test equipment
- Markets and industry statistics
- Polymer synthesis
- Processing technology
- Properties and testing
- Trade names and product announcements

File Type

Bibliographic

Features

Thesaurus	Controlled Term (/CT), Non-Polymer Term (/NPT)				
Alerts (SDIs)	Weekly or monthly (weekly is the default)				
CAS Registry Number® Identifiers	☐	Page Images	☐	STN® AnaVist™	☐
Keep & Share	☑	SLART	☑	STN Easy®	☑
Learning Database	☐	Structures	☐		

Record Content

- Records contain bibliographic data, in-depth indexing, and an abstract.
- The directory part consists of company address records and tradename records.

File Size

- 1.283.193 records (02/2019)

Coverage

1972 – to date

Updates

Weekly

Language

English

Database Producer

WTI-Frankfurt-digital GmbH
Ferdinand-Happ-Straße 32
60314 Frankfurt am Main
Germany
Phone: +49 69 4308-111
Fax: +49 69 4308-200
E-mail: kontakt@wti-frankfurt.de

Database Supplier

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

Sources

- Journals
- Conference Contributions
- Books
- Reports
- Standards
- Company publications and other non-conventional literature
- Patents

User Aids

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

Clusters

- ALLBIB
- AUTHORS
- BUSINESS
- CHEMENG
- CHEMISTRY
- COMPANIES
- CORPSOURCE
- ENGINEERING
- HPATENTS
- MATERIALS
- PATENTS
- POLYMERS

STN Database Clusters information (PDF)

Pricing

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), controlled term (CT), non-polymer term (NPT) **(10)**, subject heading Rapra (SHR) **(10)**, subject heading adhesives (SHA) **(10)**, corporate name (CO) **(10)**, geographic term (GT) **(10)**, and trade name (TN) **(10)** fields)	None or /BI	S BLOCK COPOLYMER? S MELINAR AND PRIC? AND ICI S WESTERN EUROPE AND PETP S ?ACRYLAMIDE?	TI, SO, AB, CT, NPT, SHR, SHA, CO, GT, TN
Abstract	/AB	S MARINE APPLICATION/AB	AB
Accession Number	/AN	S R:445780/AN S R445780/AN	AN
Author (including editor, inventor)	/AU	S ENDO, K/AU S (CONNAN A(S)EDITOR)/AU	AU, SO
Classification Code	/CC (or /CCEN)	S 43C112/CC S 6R4?/CC AND 43E/CC	CC
Controlled Term **(1,4)**	/CT	S BLOCK POLYMERISATION/CT S GEL+ALL/CT	CT
Controlled Word **(1)**	/CW	S COPOLYMER?/CW AND MOLECULAR STRUCTURE/CW	CT
Corporate Address **(2,10)**	/CA (or /PAA)	S ANAHEIM CA/CA	CA
Corporate Name (including /CS and /PA) **(3,10)**	/CO	S OSAKA UNIV?/CO S BASF UK/CO S ICI/CO AND MELINAR/TN	CO, CS, AU, SO
Corporate Source (incl. affiliation, corporate editor, patent assignee) **(3)**	/CS	S OSAKA UNIV?/CS S EXXON FRANCE/CS S ACS EDITOR/CS	CS, AU, SO
Digital Object Identifier	/FTDOI	S 10.1002/33008/FTDOI	FTDOI, SO
Document Type (code and text)	/DT (or /TC)	S JOURNAL/DT S J/DT	DT
Entry Date **(5)**	/ED (or /UP)	S ED>19990100	not displayed
Field Availability	/FA	S L7 AND AB/FA	not displayed
File Segment **(10)**	/FS	S L3 AND AD/FS	FS
Geographical Term **(10)**	/GT	S JAPAN/GT	GT
International Standard (Document) Number (contains ISSN and CODEN)	/ISN	S 1022-1344/ISN S ANALAO/ISN	ISN, SO
Issue (Rapra Issue Number) **(9,10)**	/IS	S 199809/IS	not displayed
Journal Title	/JT	S BRITISH POLYMER JOURNAL/JT	JT, SO
Language (ISO code and text)	/LA	S GERMAN/LA S DE/LA	LA
Meeting Title **(3)**	/MT	S COMPOSITE MATERIAL# DESIGN?/MT	SO
Non-Polymer Term **(1,4,10)**	/NPT	S LITHIUM COMPOUND/NPT S BUTYLLITHIUM+NT/NPT	NPT
Non-Polymer Word **(10)**	/NPW	S DIAMINE/NPW S LITHIUM COMPOUND/NPW	NPT
Number of Report	/NR	S BSI. BS 2782/NR S ISO/NR AND L7	NR
Publication Year **(5)**	/PY	S 1997-1998/PY AND L10	

General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Section Code (Category Codes) **(6,10)**	/SC	S KQ/SC S *CK/SC	SC
Source (contains journal title and other higher level titles collation, publisher, meeting information, number of report, ISSN, CODEN, URL, and FTDOI)	/SO	S CANADIAN PLASTICS/SO AND 1997/PY S COMPOSITE MATERIAL##/SO AND LORIENT/SO S BSI BS 2782/SO	SO, NR
Subject Headings **(3,7,10)**	/SH	S ECONOMIC INFORMATION PETP/SH	SHA, SHR
Subject Headings Adhesives Abstracts **(8,10)**	/SHA	S HOT MELT ADHESIVES, BOOKBINDING/SHA S HOT MELT ADHESIVES/SHA	SHR
Subject Headings Rapra **(8,10)**	/SHR	S ECONOMIC INFORMATION, PETP/SHR S ECONOMIC INFORMATION/SHR(L) WESTERN EUROPE/SHR	SHR
Title	/TI	S PETP PRIC?/TI	TI
Trade Name **(10)**	/TN (or /CN	S MELINAR/TN	TN
Uniform Resource Locator **(3)**	/URL	S ACTA CHEM SOC/URL	SO, URL

(1) Terms from the indexing fields CT (CW) and NPT (CW) are available for search and display both in American and British spelling.
(2) Search with implied (L) proximity is available.
(3) Search with implied (S) proximity is available.
(4) A thesaurus is available for this field.
(5) Numeric search field that may be searched with numeric operators or ranges.
(6) Main section (category) code is marked with an asterisk. Codes concerning Rapra Abstracts consist of 2 letters, codes concerning Adhesives Abstracts consist of 5 letters, of which the first two ones are always 'AD'.
(7) Search with (S) proximity is recommended. Use of (W) proximity is not allowed.
(8) Searchable are pairs of main heading, subheading and main heading alone.
(9) Field available until 2013.
(10) Fields available until June 2018.

Patent Search Fields

(Fields available until 2010)

Search Field Name	Search Code	Search Examples	Display Codes
Application Country (WIPO code and text)	/AC	S EP/AC S UNITED STATES/AC S JUNE 1997/AD(S)EP/AC	AI
Application Date **(1)**	/AD	S 19960100-19960400/AD	AI
Application Number **(2)**	/AP	S EP1993-304407/AP S 1993EP-0304407/AP S WO1993-DE540/AP S 1993WO-DE00540/AP	AI
Application Year **(1)**	/AY	S 1993-1994/AY	AI
Corporate Address **(3)**	/CA	S MILLBANK LONDON/CA S D-35260/CA	CA
Designated State (WIPO code and text)	/DS	S GB/DS S UNITED KINGDOM/DS	DS
International Patent Classification (includes ICM and ICS)	/IC	S C09B029-033/IC S C09B029/IC S C09B/IC	IC (ICM,ICS)
Inventor	/IN	S WIGHT P/IN	
IPC, Main	/ICM	S C09B029/ICM S C09B/ICM	IC (ICM,ICS)
IPC, Secondary	/ICS	S C08K005-45/ICS S C08K005/ICS	IC (ICM,ICS)

Patent Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Patent Assignee	/PA	S ZENECA/PA S DIAFOIL HOECHST/PA	PI
Patent Country (WIPO code and text)	/PC	S EP/PC S EUROPEAN PATENT OFFICE/PC	PI
Patent Kind Code	/PK	S EPA1/PK S EPA#/PK and 1994/PY	PI
Patent Number **(2)**	/PN	S EP590287/PN S EP----590287/PN S EP0590287/PN	PI
Priority Country (ISO code and text)	/PRC	S GB/PRC S UNITED KINGDOM/PRC	PRAI
Priority Date **(1)**	/PRD	S 24 JULY 1992/PRD S 19920724/PRD	PRAI
Priority Number **(2)**	/PRN	S GB1992-15777/PRN S 1992GB-0015777/PRN	PRAI
Priority Year **(1)**	/PRY	S 1998-1999/PRY	PRAI
Publication Date **(1)**	/PD	S JAN 1998/PD	PI

(1) Numeric search field that may be searched with numeric operators or ranges.
(2) Either STN or Derwent format may be used.
(3) Search with implied (L) is available in this field.

Super Search Fields 1) (available until 2010)

Search Field Name	Search Code	Fields Searched	Search Examples	Display Codes
Application Number Group	/APPS	/AP, /PRN	S JP1993-66782/APPS S 1993JP-0066782/APPS	AI, PRAI
International Patent Classification	/IPC	/IC	S C09D011/IPC S C08K005-45/IPC	IC (ICM, ICS)
Patent Number Group (2)	/PATS	/PN	S EP579121/PATS S EP----579121/PATS S EP0579121/PATS	PI
Patent Countries (code and text)	/PCS	/PC, /DS	S US/PCS S UNITED STATES/PCS	PI, DS

(1) Enter a super search code to execute a search in one or more fields that may contain the desired information. Super search fields facilitate crossfile and multifile searching. EXPAND may not be used with super search fields. Use EXPAND with the individual field codes instead.
(2) Either STN or Derwent format may be used.

Thesaurus Fields

Code	Content	Examples
ALL	All Associated Terms (BT, SELF, NOTE, USE, UF, NT, RT)	E ABSORPTION SPECTROSCOPY+ALL/CT S TITANIUM DIOXIDE+ALL/NPT
Auto **(1)**	Next n F-Terms and previous n F-Terms	S POLYPENTENAMER/CT
BT **(2)**	Broader Terms (BT, SELF)	
HIE	Hierarchy (BT, SELF, NT)	E DELAMINATION+HIE/CT
KT	Keyword Terms (Multi-word Phrases containing the specified Keyword Term) (SELF, KT)	E EXTRUDER+KT/CT
NOTE	Term with Scope Note (SELF, NOTE)	S CLAY+NOTE/NPT
NT **(3)**	Narrower Terms (SELF, NT)	S EXTRUDER+NT/CT S ALANINE+NT/NPT

Thesaurus Fields (cont'd)

Code	Content	Examples
RT	Related Terms (SELF, RT)	E ABRASION RESISTANCE+RT/CT
UF	Preferred Terms (SELF, UF)	E POLYACETAL+UF/CT
USE	Forbidden Terms (SELF, USE)	E ACETAL POLYMER+USE/CT

(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.
(2) Broader Term (BT) corresponds to the 'to' relationship in the printed Rapra Keyterm Thesaurus.
(3) Narrower Term (NT) corresponds to the 'from' relationship in the printed Rapra Keyterm Thesaurus.

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 TI AB
AI (AP) **(3)**	Application Information	D AI
AN	Accession Number	D L3 N
AU	Author (format includes CS)	D AU
CA **(4)**	Corporate Address	D CO CA
CC (CCEN)	Classification Code	D CC
CO **(4)**	Corporate Name (format includes CS)	D CO
CS	Corporate Source	D CS
CT	Controlled Term	D CT CC
DS **(3)**	Designated State	D DS
DT (TC)	Document Type	D DT
FS **(4)**	File Segment	D AU FS
FTDOI **(2)**	Digital Object Identifier	D FTDOI
GT **(4)**	Geographical Term	D GT
IC (IPC) **(3)**	International Patent Classification (Main and Secondary)	D IC
ICM **(3)**	IPC, Main	D ICM
ICS **(3)**	IPC, Secondary	D ICS
IN	Inventor	D IN
ISN **(2)**	International Standard (Document) Number	D ISN
JT **(2)**	Journal Title	D JT
LA	Language	D LA TI
MT **(2)**	Meeting Title	D TI MT L5
NPT **(4)**	Non-Polymer Term	D NPT
NR	Number of Report	D NR
PA **(3)**	Patent Assignee	D PA
PI (PN, PATS) **(1,3)**	Patent Information	D PI
PRAI (PRN) **(1,3)**	Priority Information	D PRAI
PY	Publication Year	D PY
SC **(4)**	Section Code	D SC
SHA **(4)**	Subject Headings Adhesives Abstracts	D SHA
SHR **(4)**	Subject Headings Rapra	D SHR
SO	Source (format includes NR and PY)	D SO
TI	Title	D TI AU SO
TN (CN) **(4)**	Trade Name	D TN
URL **(2)**	Uniform Resource Locator	D URL

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
ABS	AN, AB	D ABS
ALL **(1)**	BIB, AB, IND	D ALL
DALL	ALL, with delimiter for post processing	D DALL
IALL **(1)**	ALL, indented with text labels	D IALL
APPS **(1)**	Application Number Group	D APPS
BIB **(1)**	AN, FS, TI, AU, CS, NR, SO, PY, DT, LA For patent records since 1994: AN, FS, TI, IN, PA, CA, PI, DS, AI, PRAI, DT, LA (BIB is default)	D BIB
IBIB **(1)**	BIB, indented with text labels	D IBIB
IND	AN, FS, IC (ICM,ICS), CC, SC, CT, NPT, SHR, SHA, CO, CA, GT, TN	D IND
STD **(1)**	BIB, IC (ICM,ICS)	D STD
ISTD **(1)**	STD, indented with text labels	D ISTD
TRIAL (TRI, SAMPLE, SAM)	TI, CT, NPT, SHR, SHA	D TRI
HIT	Hit term(s) and field(s)	D HIT
KWIC	Up to 50 words before and after hit term(s) (KeyWord-In-Context)	D KWIC
OCC	Number of occurrences of hit term(s) and field(s) in which they occur	D OCC

(1) Application, priority and patent numbers are available in DERWENT and STN format. The format for DISPLAY, PRINT, SELECT and SORT is controlled by the Messenger SET PATENT command. The STN format is default. 'SET PAT DERWENT' changes (permanently) to the Derwent format. To change to the STN format again, enter 'SET PAT STN'.
(2) Custom display only.
(3) Field available until 2010.
(4) Field available until June 2018.

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	N
Accession Number	AN	Y	N
Application Country **(3)**	AC	Y	Y
Application Date **(3)**	AD	Y	Y
Application Information **(3)**	AI	Y	Y
Application Number **(3)**	AP	Y	Y
Application Number Group **(3)**	APPS	Y	N
Application Year **(3)**	AY	Y	Y
Author	AU	Y	Y
Citation	CIT	Y **(6)**	N
Classification Code	CC (CCEN)	Y	Y
CODEN	CODEN	N	Y
Controlled Term	CT	Y	N
Controlled Word	CW	Y	N
Corporate Address **(4)**	CA (PAA)	Y	Y **(2)**
Corporate Name **(4)**	CO	Y	Y

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

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Corporate Source	CS	Y	Y
Designated State **(3)**	DS	Y	N
Digital Object Identifier	FTDOI	N	Y
Document Type	DT (TC)	Y	Y
File Segment **(4)**	FS	Y	Y
Geographical Term **(4)**	GT	Y	N
International Patent Classification (Main and Secondary) **(3)**	IC	Y	N
International Standard (Document) Number	ISN	Y **(7)**	Y
International Standard Serial Number	ISSN	N	Y
Inventor **(3)**	IN	Y	Y
IPC, Main **(3)**	ICM	Y	Y
IPC, Secondary **(3)**	ICS	Y	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
Meeting Title	MT	Y	Y
Non-Polymer Term **(4)**	NPT	Y	N
Non-Polymer Word **(4)**	NPW	Y	N
Number of Report	NR	Y	Y
Patent Assignee **(3)**	PA	Y	Y
Patent Assignee Address **(3)**	PAA (CA)	Y	Y **(2)**
Patent Countries **(3)**	PCS	Y	N
Patent Country **(3)**	PC	Y	Y
Patent Kind Code **(3)**	PK	Y	Y
Patent Number **(3)**	PN (PI)	Y	Y
Patent Number Group **(3)**	PATS	Y	Y
Priority Country **(3)**	PRC	Y	Y
Priority Date **(3)**	PRD	Y	Y
Priority Number **(3)**	PRN (PRAI)	Y	Y
Priority Year **(3)**	PRY	Y	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y
Source	SO	Y **(8)**	N
Section Code **(4)**	SC	Y	N
Subject Headings **(4)**	SH	Y	N
Subject Headings Adhesives Abstracts **(4)**	SHA	Y	N
Subject Headings Rapra **(4)**	SHR	Y	N
Title	TI	Y (default)	Y
Trade Name **(4)**	TN (CN)	Y	Y
Trade Names **(4)**	CHEM	Y **(5)**	Y
Uniform Resource Locator	URL	Y	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) Sorts the postcodes in alphanumeric order.
(3) Fields available until 2010.
(4) Fields available until June 2018.
(5) Appends /BI to the terms created by SELECT.
(6) SELECT 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.
(7) Selects or analyzes CODEN and ISSN with /ISN appended to the terms created by SELECT.
(8) Selects or analyzes CODEN and ISSN with /SO appended to the terms created by SELECT.

Sample Record

DISPLAY ALL OF JOURNAL (as of November 2018)

AN R:3204381 RAPRA FS Rapra Abstracts
TI The creation of biologically inert elastomeric material based on thermoplastic elastomer blends.
AU Kulachenkova Z.A.; Bulkina A.K.; Kilin S.A.; Rumyantseva A.V.; Baranets I.V.; Otvalko Z.A.; Kurlyand S.K. (Lebedev Scientific Research Institute for Synthetic Rubber (NIISK), St. Petersburg, RU)
SO International Polymer Science and Technology 44, 12, 2017, T/63-66
ISSN: 0307-174X
PY 2017
DT Journal
LA English
AB Composites based on polyvinyl acetate, a copolymer of ethylene with a low vinyl acetate content, a divinyl styrene thermoplastic elastomer, and 3,4-isoprene rubber were developed for the production of sample specimens for children's creative play. Wide-ranging tests were carried out; results showed the total compliance of the developed composite materials with RFP and hygiene requirements. Based on polyvinyl acetate, a copolymer of ethylene with vinyl acetate with a low vinyl acetate content, a divinyl styrene thermoplastic elastomer, and 3,4-isoprene rubber, sample specimens of composites for children's creative play were obtained. For each of these, the collection and order of processing operations and regimes for carrying them out were determined. 2. It was established that, of the model composites obtained, the optimum properties for subsequent use in children's creative play are possessed by a composite based on thermoplastic elastomer 3,4-polyisoprene/Sevilen and a composite based on PVA/Sevilen. The results of the investigations conducted of morphology and elastic strength properties showed that only the composite based on 3,4-polyisoprene/Sevilen entirely satisfies RFP requirements with respect to elastic strength properties in the specified temperature range, does not possess an odour, does not contain toxic components, is pleasant to touch, and is convenient in modelling.
CC 3KKB; 3LET
CT THERMOPLASTIC-ELASTOMERS; COPOLYMER; VINYL-ACETATE; MIXED-MATERIAL; POLY-VINYL-ACETATE; STYRENE; BLEND; PROCESS-OPERATION; ODOR

DISPLAY ALL OF JOURNAL (until June 2018)

AN R:1290738 RAPRA FS Rapra Abstracts
TI Preparation of an intelligent hydrogel sensor based on g-C3N4 nanosheets for selective detection of Ag +.
AU Mengqiu Li; Huiwei Liao; Qiulin Deng; Yibing Wu; Feng Xiao; Xiao Wei; Dan Tu (Southwest University of Science and Technology, Mianyang; Huaiyin Institute of Technology, Huaian)
SO Journal of Macromolecular Science A 55, No.5, 2018, p.408-413
ISSN: 1060-1325
CODEN: JSPCE6
DOI: 10.1080/10601325.2018.1453260
PY 2018
DT Journal
LA English
AB In this study, an "intelligent" graphitic carbon nitride nanosheets/ polyacrylamide/ polyacrylic acid (CNNS/ PAM/ PAA) composite hydrogel was prepared by radical polymerisation method. The structure, swelling and fluorescent properties of the gels were investigated. The results showed that the mixed gel not only had pH sensitivity in aqueous solution, but also had specific concentration-dependent fluorescent intensities in the

presence of Ag + over the range (0-100) (mu) M with a detection limit of 6.31 (mu) M. The mixed gel can be applied to be fluorescence probe for detection of Ag +. (43 ref)

CC 6122; 627; 99; 6123; 42C3.10.1; 42C3411; 7223

SC *OB; OK; UJ; KN; KK; KB

CT ACRYLAMIDE POLYMER; ACRYLIC ACID POLYMER; AMIDE GROUP; AQUEOUS SOLUTION; BREATHING; CALCINED; CARBOXY GROUP; CARBOXYL GROUP; CARBOXYLIC ACID GROUP; CHELATE; COMPOSITE; CONJUGATED; CORRELATION COEFFICIENT; CRUCIBLE; DEGREE OF IONISATION; DEGREE OF IONIZATION; DEGREE OF SWELLING; DETECTION LIMIT; DIFFRACTION; ELECTRONIC TRANSITION; ELECTROSTATIC REPULSION; EMISSION SPECTRA; EQUILIBRIUM SWELLING; FLUORESCENCE; FLUORESCENT; FOURIER TRANSFORM INFRARED SPECTROSCOPY; FREE RADICAL POLYMERISATION; FREE RADICAL POLYMERIZATION; FREE-RADICAL POLYMERISATION; FREE-RADICAL POLYMERIZATION; FTIR; FTIR SPECTRA; FTIR SPECTROSCOPY; GELS; HYDROGEL; HYDROGEN BOND; HYDROXY GROUP; HYDROXYL GROUP; INFRA-RED SPECTRA; INFRARED SPECTRA; INFRARED SPECTROPHOTOMETRY; INFRARED SPECTROSCOPY; IONISATION; IONIZATION; IR SPECTRA; IR SPECTROMETRY; IR SPECTROSCOPY; IR SPECTRUM; LINKING AGENT; MASS RATIO; MIXING; MOLAR RATIO; MOLE RATIO; MUFFLE; MULTIFUNCTIONAL; NANOSHEET; NETWORK STRUCTURE; OPTICAL PROPERTIES; OSMOTIC PRESSURE; PH SENSITIVITY; PH-SENSITIVITY; PHOTOINDUCED ELECTRON TRANSFER; POLYACRYLAMIDE; POLYACRYLIC ACID; POLYMERISATION; POLYMERIZATION; PORCELAIN; PROBE; PROPERTIES; QUENCHING; QUENCHING FLUORESCENCE; RADICAL POLYMERISATION; RADICAL POLYMERIZATION; RECOVERY RATE; RECYCLING RATE; SCATTERING; SELECTIVITY; SELF-QUENCHING; SENSING; SENSITIVITY; SENSOR; SHEET; SPECIFICITY; SPECTROSCOPY; SUPERNATANT; SWELL; SWELLING; SWELLING RATIO; TECHNICAL; TRIAZINE RING; VIBRATIONAL SPECTROSCOPY; X-RAY DIFFRACTION; X-RAY SCATTERING

NPT CARBON NITRIDE