WSCA (World Surface Coatings Abstracts)

Subject Coverage

- Pigments
- Solvents
- Additives
- Polymers and Resins
- Natural and Synthetic Rubber
- Paints, Varnishes and Lacquers
- Adhesives
- Inks
- Manufacturing
- Pre-treatment, Application and Paint Removal
- Paints for Specific Uses
- Radiation Curing
- Optical, Rheological and other Properties
- Colour
- Analysis
- Hazards, Pollution and Legislation
- Transport
- Corrosion and Fouling
- Statistics and Company Profiles

File Type

Bibliographic

Features

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

Record Content

- Bibliographic Information, indexing, and abstracts

File Size

548,757 records (11/21)

Coverage

1976 - 2020

Updates

Static file

Language

English

Database Producer

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Sources	• Journals • Patents (until 2013) • Conference contributions • Reports • Legislation and Standards • Books • Dissertations
User Aids	• Online Helps (HELP DIRECTORY lists all help messages available) • STNGUIDE
Clusters	• ALLBIB • AUTHORS • BUSINESS • CHEMENG • CHEMISTRY • COMPANIES • CORPSOURCE • ENGINEERING • MATERIALS • 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 title (TI), abstract (AB), index term (IT), supplementary term (ST), chemical name (CN) **(5)**, geographic term (GT) **(5),** trade name (TN) **(5)** and corporate name (CO) **(5)** fields)	None or /BI	S AQUEOUS RESIN DISPERSION S POWDER COATING#(L)MEDIC? S DOW CHEMICAL S DOWANOL PNP S ?FLUOROCARBON?	TI, AB, IT,ST, CN, GT,TN, CO
Accession Number	/AN	S 407021/AN	AN
Author	/AU	S QUINTEN M/AU	AU
Chemical Name* **(5)** (incl. trade names)	/CN	S PHOSPHONYL CHLORIDE/CN S ?THIAZ?/CN	CN, TN
Classification Code (code and text) **(1)**	/CC	S 71/CC S TESTING METHODS/CC	CC
Controlled Term	/CT	S LIGHT SCATTERING/CT	CT
Corporate Name **(1,5)**	/CO	S DOW CHEMICAL/CO	CO
Document Number	/DN	S 95-07021/DN	DN
Document Type (code and text)	/DT (or /TC)	S P/DT S PATENT/DT	DT
Entry Date **(2)**	/ED (or /UP)	S ED>=JAN 2003	not displayed
Geographic Term **(5)**	/GT	S WESTERN AUSTRALIA/GT	GT
Index Term (incl. controlled terms)	/IT	S HYDROXYLATED COMPOUNDS/IT	IT
Journal Title	/JT	S COLLOID POLYM?/JT	SO, JT
Language (ISO code and text)	/LA	S L7 AND EN/LA S ENGLISH/LA	LA
Patent Assignee **(1,5)**	/PA (or /CS)	S ARMCO INC/PA	PA
Patent Country **(5)** (WIPO code and text)	/PC	S GB/PC S UNITED KINGDOM/PC	
Patent Number **(3,5)**	/PN	S US5326594/PN	PI
Publication Year **(2,4)**	/PY	S 1992-1994/PY	PI
Source	/SO	S AM? PAINT J?/SO S 1990/SO AND JP/PC	SO, PY
Supplementary Term	/ST	S METAL SUBSTRATE/ST	ST
Title	/TI	S MINERAL SANDS/TI	TI
Trade Name **(5)**	/TN	S TIN 770/TN	TN
Year/Issue (printed WSCA) **(2,5)**	/YI	S 9509/YI	not displayed

(1) Search with implied (S) proximity is available in this field.
(2) Numeric search field that may be searched using numeric operators or ranges.
(3) Numbers are searchable in Derwent and STN format.
(4) Publication years of patents (P/DT) are searchable in the alphanumeric field /SO only.
(5) Field available until 2013.

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

Format	Content	Examples
AB AN AU CC CN **(4)** CO**(4)** CT **(1)** DN **(4)** DT (TC) GT IT JT **(1)** LA PA (CS) **(4)** PI (PN) **(2,4)** PY **(1,3)** SO ST TI TN **(4)**	Abstract Accession Number Author Classification Code Chemical Name Corporate Name Controlled Term Document Number Document Type Geographic Term Index Term (incl. controlled terms) Journal Title Language Patent Assignee Patent Information Publication Year Source Supplementary Term Title Trade Name	D TI AB D 1-5 AN D AU TI D CC D CN D CO D CT D DN D DT D GT D IT D JT D LA D PA D PI D PY D SO D ST D TI D TN
ABS ALL **(2)** DALL **(2)** IALL BIB (STD) **(2)** CBIB **(2)** IBIB (ISTD) **(2)** IND SCAN TRIAL (TRI, SAMPLE, FREE)	AN, AB AN, DN, TI, AU, PA, SO, PI, DT, LA, AB, CC, IT, ST, CO, GT, CN, TN ALL, delimited for post processing ALL, indented with text labels AN, DN, TI, AU, PA, SO, PI, DT, LA (default) compressed BIB BIB, indented with text labels AN, CC, IT, ST, GT TI, IT (random display, no answer numbers) TI, IT	D ABS D 1-3 ALL D DALL D IALL D 8 BIB D CBIB D IBIB D IND D SCAN D TRIAL
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) By default, patent numbers, application and priority numbers are 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.
(3) Publication years of patents (P/DT) are displayed in field SO only.
(4) Field available until 2013.

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
Chemical Name	CN **(3)**	Y	Y
Classification Code	CC	Y	Y
Controlled Term	CT	Y	N
Corporate Name	CO **(3)**	Y	Y
Document Number	DN	Y	N
Document Type	DT (TC)	Y	Y
Geographic Term	GT **(3)**	Y	Y
Index Term	IT	Y	N
Journal Title	JT	Y	Y
Language	LA	Y	Y
Patent Assignee	PA (CS) **(3)**	Y	Y
Patent Number	PN (PI) **(3)**	Y	Y
Publication Year	PY	Y	Y
Supplementary Term	ST	Y	N
Title	TI	Y (default)	Y
Trade Name	TN **(3)**	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) Appends /BI to the terms created by SELECT.
(3) Field available until 2013.

Sample Records

DISPLAY ALL (Record as of 2019)

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AN   1674632   WSCA
TI   Crosslinked polybenzoxazine coatings with hierarchical surface structures
     from a biomimicking process exhibiting high robustness and anticorrosion
     performance
AU   Susan Zachariah; Tsai-Wei Chuo; Ying-Ling Liu
SO   Polymer, vol.155, 24 October 2018, pp168-176
     https://www.sciencedirect.com/science/article/pii/S0032386118308814
DT   Journal
LA   English
AB   In this work, crosslinkable polybenzoxazine (PBz), which exhibits high
     surface-covering ability, strong adhesion to metal substrates, and a
     dense crosslinked structure resistant to corrosion molecule permeation,
     has been demonstrated as an effective agent for single-component
     anticorrosion application. Plain crosslinked PBz-based anticorrosion
     coating shows a protection efficiency of 96.3%. Hierarchical surface
     structures and hydrophobicity have been introduced to the anticorrosion
     coatings through a biomimicking process using lotus leaves as templates,
     and so as to increase the protection efficiency to an extremely high
     level of 99.93%. Crosslinked PBz coatings with a hierarchical surface
     structure and surface hydrophobicity are highly effective for
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anticorrosion application. Moreover, biomimicking anticorrosion coatings have also been prepared with xanthosoma sagittifolium leaves to probe the template effect on the anticorrosion efficiency of the biomimicking coatings. Lotus leaves, rather than xanthosoma sagittifolium leaves, are the better choice for fabrication of the biomimicked anticorrosion coatings.

CC 05 Paint & Coatings: General
IT Paint & Coatings: General; Weathering, Corrosion, Fouling
ST Biomimicking, Benzoxazine, Crosslinked polymeric coatings, Anticorrosion

DISPLAY ALL (Record until 2013)

AN 667420 WSCA DN 08-07420
TI REACH (registration, evaluation, authorisation and restriction of chemical substances): consequences for the furniture industry.
AU ROUX M-L
SO Proc. PRA 6th International Woodcoatings Congress, 'Preserve, Protect, Prolong', Amsterdam 2008, Paper 3, 9 pp.
DT Conference
LA English
AB The impact of the REACH (registration, evaluation, authorisation and restriction of chemical substances) on the coatings used by the furniture industry is explained from the perspective of a French institute. An explanation of REACH regulations is presented. Substances with high concern are those which are carcinogenic, mutagenic or toxic. Persistent, bioaccumulative and toxic substances are also of concern. The steps that the furniture industry should take in order for the coatings to be accepted under REACH regulations, are outlined.
CC 87 Legislation and Other Official Publications
IT Chemicals: registration/evaluation etc, European Union, requirements/furniture; Furniture: chemicals, European Union regulations &, impact/measures
ST HPL; carcinogenicity; mutagenicity; toxicity; European Union regulation; European Community regulation; measures
GT Europe

DISPLAY ALL OF PATENT (Record until 2013)

AN 562891 WSCA DN 03-02891
TI Vacuum deposition of cationic polymer systems.
PA SIGMA TECHNOLOGIES INTERNATIONAL INC
SO United States Patent Off. Gaz. 2002, Vol 1263 No 4.
PI US 6468595
DT Patent
LA English
AB A process for forming a solid polymeric structure from flash-evaporated, vacuum-deposited, cationically-curable monomeric material is disclosed. The process comprises preparing a mixture of a cationically-curable monomer with a thermally-stable cationic photoinitiator chemically-inactive at room temperature, flash-evaporating the mixture in vacuum to produce a vapour, condensing the vapour to produce a film, and exposing the film to a radiation source to produce a polymeric solid film.
CC 80 Radiation Curing
IT Vapours: deposition from, then polymerisation; Radiation: polymerisation by, after deposition from vapours
ST APP; evaporation; vacuum deposition

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