

PAPERCHEM

FILE DESCRIPTION

PAPERCHEM is a comprehensive database covering the international patent and journal literature related to pulp and paper technology and including such related subjects as the chemistry of cellulose, hemicellulose, carbohydrates, lignin, and extractives; engineering and process control; corrugated and particle board; forestry; graphic arts; corrosion; equipment; packaging; pollution; water; and power. More than 12,000 records are added annually from more than 1,000 distinct sources in more than 20 languages. Included in **PAPERCHEM** are abstracts of journal articles, books, dissertations, patents, review and research articles, symposia, and translations.

All **PAPERCHEM** records include bibliographic references and over 95% of the records include abstracts. A corporate source field is included whenever provided in the original source publication. All records are assigned descriptors from a controlled vocabulary. The controlled vocabulary is available as an online thesaurus.

SUBJECT COVERAGE

PAPERCHEM covers virtually every topic related to the chemistry, engineering, and production technology used by the pulp and paper industry. Typical subjects covered are:

- Corrosion
- Economics and Research
- Engineering and Process Control
- Fiber Webs and Nonwovens
- Films, Foils, and Laminates
- Finishing and Converting
- Forestry and Pulpwood
- Gluing, Labeling, and Sealing
- Graphic Arts
- Machinery Equipment and Maintenance
- Mill Construction and Operation
- Packaging
- Pulp, Paper, and Board
- Silvichemicals and Residues
- Spent Liquors and Pollution Control
- Tissue Culture

TIPS

USE FILE 240

to search for articles about pulp and paper technology.

USE THE ONLINE THESAURUS

to choose subject terms.

EXPAND (BLACK LIQUORS)
S R6 OR R12 OR R21:R24

USE RANK

to see which companies are working in an area of interest.

SELECT POLLUTION CONTROL/DE
RANK CS

USE LIMITS

to focus a search.

/ABS Abstracts present
/GA Graphic Arts subfile
/PAT Patent records
/NPT Non-Patent documents

DIALOG FILE DATA

Inclusive Dates: July 1967 to the present

Update Frequency:

Weekly (approximately 200 records per update)

File Size: Over 492,000 records as of February 2002

CONTACT

PAPERCHEM is produced by Elsevier Engineering Information, Inc. Questions regarding file content should be directed to:

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Customer Support

1 Castle Point Terrace

Hoboken, NJ 07030-5996

Phone: 1-201-356-6800

Toll Free: 1-800-221-1044 (Customer Support)

Fax: 1-201-356-6801

E-Mail: eicustomersupport@elsevier.com

SAMPLE RECORD

DIALOG(R)File 240:PAPERCHEM
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AA=, FS=, JA= 00569111 PAPERCHEM NO: AB6711922
/TI Evaluation of Capillary Coriolis Instrument for On-Line Viscosity and
 Density Measurements of Kraft Black Liquor

AU= Dutka, A. P.; Crisalle, O. D.; Fricke, A. L.
CS= AUTHOR AFFILIATION: Dutka, A. P. (University of Florida (Gainesville: FL:
 United States)).; Crisalle, O. D. (University of Florida (Gainesville: FL:
 United States)).; Fricke, A. L. (University of Florida (Gainesville: FL:
 United States)).

CT= CONFERENCE TITLE: 1997 Process Control, Electrical & Information
 Conference

SO= SOURCE: Joint Conference: 1997 TAPPI Process Control, Electrical &
 Information Conference [and] ISA PUPID 37th Annual Symposium: Proceedings
 (TAPPI and ISA PUPID): 37-44 (March 10, 1997; TAPPI Press). [Engl.]
 8 fig., 12 ref., 3 tab.

PY= PUBLICATION YEAR: 1997
DT= DOCUMENT TYPE: CONFERENCE LITERATURE
LA= LANGUAGES: ENGLISH
/AB A new instrument was evaluated as an on-line viscometer and density meter
 for kraft black liquor. The Micro Motion Viscometer is a combination of a
 Micro-Motion CMF025M Coriolis Mass Flow Sensor, a Foremount 3051CD
 differential-pressure cell, and a Rosemount FRT9739 transmitter. It can
 measure pressure drops across a length of tube and the mass flow rate and
 density. The sealed pressure diaphragms at each end of the instrument were
 connected to the differential pressure cell and the instrument installed in
 a flow loop through which liquor was circulated under controlled
 temperature and flow-rate conditions. It was tested on 14 different black
 liquor samples with solids contents ranging from 34.14 to 73.40% and
 temperatures up to 140DGC. Viscosity, mass flow rate, volumetric flow rate,
 temperature, differential-pressure and density measurements were digitally
 transmitted to a linked interface system. Viscosity and density
 measurements were made under laminar flow conditions, with particulates
 included in some samples. Results were within 3% of laboratory reference
 values (10% at viscosities greater than 150 c-P). A wide range of operating
 conditions were tested to determine the capabilities and limitations,
 accuracy, precision, repeatability, and response time of the instrument.

/DE DESCRIPTORS: BLACK LIQUORS; COOKING LIQUORS; DENSITY METERS; ENGLISH;
 FLOW METERS; GRADIENT; KRAFT LIQUORS; MEASUREMENT; MEASURING INSTRUMENTS;
 ON LINE MEASUREMENT; PRESSURE GRADIENT; SENSORS; SOLIDS CONTENT; SPENT
 LIQUORS; TRANSMITTERS; TSTG; VISCOMETERS

SEARCH OPTIONS

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S DENSITY(3W)MEASURE?
/AB	AB	Abstract	Word	S VISCOSITY/AB
/DE	DE	Descriptor ^{1,2}	Word & Phrase	S BLACK(W)LIQUORS/DE
/TI	TI	Title ³	Word	S SPENT LIQUORS/DE S KRAFT(W)BLACK(W)LIQUOR/TI

¹ Also /DF.

³ Conference titles (CT=) are also included in the Title (/TI) field.

² Includes PAPERCHEM four-letter category codes starting July 1987 (Vol. 58).

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	PAPERCHEM Accession Number	Phrase	S AA=AB6711922
AC=	AC	Patent Application Country	Phrase	S AC=US
AD=	AD	Patent Application Date	Phrase	S AD=950711
AN=	AN	Patent Application Number	Phrase	S AN=US 500546
AU=	AU	Author	Phrase	S AU=CRISALLE, O. D.
AV=	AV	Availability ⁴	Phrase	S AV=DOCUMENT IS NOT AVAILABLE?
—	AZ	DIALOG Accession Number		
CL=	CL	Patent Classification Number	Phrase	S CL=229/132 S CL=229
CS=	CS	Corporate Source ⁵	Word & Phrase	S CS=(UNIV?(1W)FLORIDA) S CS=UNIVERSITY OF FLORIDA?
CT=	CT	Conference Title ³	Word	S CT=(PROCESS(W)CONTROL)
—	DI	Dissertation Institute		
DT=	DT	Document Type ⁶	Phrase	S DT=CONFERENCE LITERATURE
FS=	FS	File Segment	Phrase	S FS=AB
JA=	JA	Journal Announcement ⁷	Phrase	S JA=67
JN=	JN	Journal Name ⁸	Phrase	S JN=TAPPI J?
LA=	LA	Language ⁹	Phrase	S LA=ENGLISH
PA=	PA	Patent Assignee ^{6,10}	Word & Phrase	S PA=(FIELD(W)CONTAINER) S PA=FIELD CONTAINER CO?
PC=	PC	Patent Country ⁶	Phrase	S PC=US
PD=	PD	Patent Date ⁶	Phrase	S PD=960402
PN=	PN	Patent Number ^{6,11}	Phrase	S PN=US 5503326 S PN=4197564
PU=	PU	Publisher ⁸	Word	S PU=TAPPI
PY=	PY	Publication Year	Phrase	S PY=1997
—	RF	Number of References		
SO=	SO	Source Information ¹²	Word	S SO=(1997 AND TAPPI AND ISA)
UD=	—	Update	Phrase	S UD=9999

⁴ Introduced July 1991 to indicate documents not available for ordering.

⁵ Included in records since 1989.

⁶ Patent records are not included after UD=199806.

⁷ JA corresponds to the PAPERCHEM volume. JA displays as the third and fourth characters of the PAPERCHEM Accession Number, AA=.

⁸ Also word indexed as SO=.

⁹ When multiple languages are listed, only the first language is used with the /ENG and /NONENG limits.

¹⁰ Patent Assignee also searchable as Corporate Source, CS=.

¹¹ Japanese patent numbers are in PAPERCHEM in two formats, with the Western year (Kokai, published unexamined application) and with the year of the Emperor (Kokoku, examined application), since the level of publication is sometimes ambiguous. This enables mapping to other files, with the caution that there may be extraneous records retrieved for Japanese patents.

¹² Display includes Journal Name, Publication Year, Publisher, Conference Title, Patent Application Date, Patent Application Number, Patent Classification Number, Patent Date, and Patent Number, when present.

SPECIAL FEATURES

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP MAP, HELP DUP, HELP CURRENT online.

LIMIT	/ -- DIALOG Accession Number /ABS -- Abstract Present ⁹ /ENG -- English Language ⁹ /GA -- Graphic Arts File Segment /NGA -- File Segments other than Graphic Arts /NOABS -- No Abstract Present /NONENG -- Non-English Language /NPT -- Non-Patent Records /PAT -- Patent Records /YYYY -- Publication Year	S S3/450840-999999 S S4/ABS S S3/ENG S S7/GA S S9/NGA S S5/NOABS S S8/NONENG S S10/NPT S S6/PAT S S2/2001:2002
SORT	AN, AU, JN, PD, PN, PY, TI	SORT S13/ALL/JN/PY,D PRINT S5/5/1-24/JN
RANK	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE	RANK DE RANK CS S4
MAP	AN, PN	
RD, ID	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
CURRENT	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 240 CURRENT2

PREDEFINED FORMAT OPTIONS

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Full Record except Abstract
3	Medium	Bibliographic Citation
4	--	Full Record with Tagged Fields
5	--	Full Record
6	Short	Title and Publication Year
7	Long	Full Record except Indexing
8	Free	Title, Indexing and Publication Year
9	Full	Full Record
K	--	KWIC (Key Word In Context) displays a window of text; may be used alone or with other formats

OTHER OUTPUT OPTIONS

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

USER DEFINED FORMATS	Display codes listed in the Search Options tables can be used to customize output.	TYPE S3/TI,SO/1-5
TAG	Output can be displayed with tags identifying each display field.	TYPE S2/3/1-5 TAG
DIRECT RECORD ACCESS	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 448941/5 DISPLAY 101529/TI,AU,SO PRINT 461730/5

FOR ONLINE HELP:

See HELP FIELDS 240 for searchable fields; HELP FORMAT 240 for output formats; HELP LIMIT 240 for limits; HELP RATES 240 for cost information; HELP SORT 240 for sorts.