

PAPERCHEM

Date revised: January 20, 2026

Description

PAPERCHEM covers virtually every topic related to the chemistry, engineering, and production technology used by the pulp and paper industry. Included are abstracts of journal articles, books, dissertations, patents, review and research articles, symposia, and translations.

Subject Coverage

Topics covered include:

- Carbohydrate chemistry
- Cellulose and hemicellulose
- Corrosion
- Corrugated and particle board
- Economics and research
- Engineering and process control
- Extractives
- Fiber webs and nonwovens
- Films, foils, and laminates
- Finishing and converting
- Forestry and pulpwood
- Gluing, labeling, and sealing
- Graphic arts
- Lignin
- Machinery, equipment, and maintenance
- Mill construction and operation
- Packaging
- Power
- Pulp, paper, and board
- Silvichemicals and residues
- Spent liquors and pollution control
- Tissue culture
- Water

Date Coverage

1967–present

Update Frequency

Weekly

Geographic Coverage

International

Document Types

- Books
- Conference papers and proceedings
- Dissertations and theses
- Journal articles
- Letters
- Patents
- Reviews

Publisher

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TI	Statistical models for concrete containing wood chipping as partial replacement to fine aggregate
AU	Mohammed, Bashar S; Abdullahi, M  ; Hoong, C.K. Construction and Building Materials 55 (Mar 31, 2014): 13-19. Show duplicate items from other databases
AB	<div> <div>  Abstract (summary) Translate </div> <p> The properties of concrete containing wood chippings as partial replacement to fine aggregate are presented in this paper. Wood chipping was treated by water before mixing to prevent it from soaking the water meant for cement hydration. Fifteen trial mixes were prepared and cast using three water-cement ratios (0.37, 0.41 and 0.57) at different replacement levels of wood chippings. Fresh concrete properties tested included slump, unit weight and air content. Hardened concrete properties tested included compressive strength, splitting tensile strength, flexural strength, modulus of elasticity, rebound hammer (RH) and ultrasonic pulse velocity (UPV). Several statistical models were developed to show the relationships between measured responses and variables and among measured responses. These models were validated using various model statistics. Test results show that disposal of wood chipping in concrete is feasible and appropriate. These models are providing a design mix aid of concrete containing wood chipping as partial replacement of fine aggregate. © 2014 Elsevier Ltd. All rights reserved. </p> </div>
	<div> <div>  Indexing (details)  Cite </div> </div>
SU	<div> <div> Subject </div> <div> Chipping; Compression Strength; Concrete; Hardening; Hydration; Tensile Strength; Water Treatment </div> </div>
IF	<div> <div> Identifier (keyword) </div> <div> Concrete, Fresh properties, Hardened properties, Rebound number, UPV, Wood chipping; Fresh properties, Hardened properties, Rebound number, UPV, Wood chipping </div> </div>
TI	<div> <div> Title </div> <div> Statistical models for concrete containing wood chipping as partial replacement to fine aggregate </div> </div>
AU	<div> <div> Author </div> <div> Mohammed, Bashar S ¹; Abdullahi, M ²; Hoong, C.K ³ </div> </div>
AF	<div> <div> ¹ Civil Engineering Department, Universiti Teknologi PETRONAS, Bandar Seri Iskandar, 31750 Tronoh, Perak Darul Ridzuan, Malaysia bashar.mohammed@petronas.com.my ² Civil Engineering Department, Federal University of Technology, Minna, Nigeria ³ Civil Engineering Department, Universiti Tenaga Nasional, Malaysia </div> </div>
CA	<div> <div> Correspondence author </div> <div> Mohammed, B.S Civil Engineering Department, Universiti Teknologi PETRONAS, Bandar Seri Iskandar, 31750 Tronoh, Perak Darul Ridzuan, Malaysia. </div> </div>
LA	<div> <div> Language </div> <div> English </div> </div>
SL	<div> <div> Language of abstract </div> <div> English </div> </div>
DTYPE	<div> <div> Document type </div> <div> Article </div> </div>
PUB	<div> <div> Publication title </div> <div> Construction and Building Materials </div> </div>
VO	<div> <div> Volume </div> <div> 55 </div> </div>
PG	<div> <div> Pagination </div> <div> 13-19 </div> </div>
ISSN	<div> <div> ISSN </div> <div> 09500618 </div> </div>
CODEN	<div> <div> CODEN </div> <div> CBUME </div> </div>
PSTYPE	<div> <div> Publication type </div> <div> Journal </div> </div>

PB	Publisher	Elsevier Ltd
PBLOC	Publisher location	Langford Lane, Kidlington, Oxford, OX5 1GB, United Kingdom
DOI	DOI	http://dx.doi.org/10.1016/j.conbuildmat.2014.01.021
SID	PII	S0950061814000452
NR	Supplier identifier	372244844
PD,YR	Number of references	13
DCRE	Publication date	Mar 31, 2014
DSTAT	Date created	2014-02-10
AN	Document status	New
	Source attribution	PaperChem, © Publisher specific
	Accession number	20140617280747
	Document URL	http://search.proquest.com/professional/docview/1498536470?accountid=137296
FAV	Copyright	Copyright 2014 Elsevier B.V., All rights reserved.
UD	First available	2014-02-17
	Updates	2014-02-17
	Database	PAPERCHEM (1967 - current)

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Field name	Field code	Example	Description and Notes
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Abstract present	ABANY	"rebound hammer" and abany(yes)	Add: <i>AND ABANY(YES)</i> to a query to limit retrieval to records with abstracts.
Accession number	AN	an(20140617280747) an(ab3800287)	A unique document identification number assigned by the information provider.
All fields	ALL	all("fine aggregate")	Searches all fields. Use proximity and/or Boolean operators to narrow search results.
All fields	--	"fine aggregate"	Searches all fields. Use proximity and/or Boolean operators to narrow search results.
Assignee	AP	ap(xerox) ap("riso kagaku")	Patent assignees; could include patent applicant if provided.
Author ¹ Author First Name Author Last Name	AU AUFN AULN	au("hoong, c k") aufn(c k) auln(hoong)	Also searchable by the Look Up Citation tool.
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Author affiliation	AF	af("civil engineering" and malaysia)	Includes data when available, such as department, organization, address, city ,state, country, author email, etc.
Classification (patent)	PAC	pac(27/2)	Searches both US and IPC patent classifications.
CODEN	CODEN	coden(cbume)	
Conference country	CCNT	ccnt("new zealand")	Also searchable with CF.
Conference start date	ESDT	esdt(2011-01-26)	Event Start date also searchable with CDT. All conference information searchable with CF.
Conference end date	EVDT	evdt(2011-01-27)	Also searchable with CF.

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Field name	Field code	Example	Description and Notes
Conference information	CF	cf(papercon and 2010)	Searches all conference information.
Conference location	CG	cg("san diego")	Also searchable with CF.
Conference number / type	CT	ct(84571)	Also searchable with CF.
Conference sponsor	CS	cs(spie) cs(geosciences)	Also searchable with CF.
Conference title	CFTI	cfti(papercon)	Also searchable with CF.
Corporate/institutional author	CA	ca("georgia pacific")	
Copyright	CY	cy(2014)	
Date created	DCRE	dcre(20140210) dcre(<20101231)	The date on which the information provider created the record.
Document feature	DF	df(tab) df(ref)	Numbers of tables, references, figures, etc.
Document status	DSTAT	dstat(new) dstat(revised)	
Document title	TI	ti("statistical models" N/3 "concrete containing wood")	Includes alternate title. Does not include Publication title (PUB).
Title only	TIO	tio(forest)	Searches only the Title, not Alternate title.
Alternate title	OTI	oti("peuplement forestier")	Usually an original language title, when the English title is in Document title. Field code TI also searches the Alternate title.
Document type	DTYPE	dtype("article")	
DOI	DOI	doi(10.1016/j.conbuildmat.2014.01.021)	Digital object identifier
First available	FAV	fav(2014-02-17)	Date on which a record was first loaded on ProQuest Dialog. May have been subsequently updated.
From database ²	FDB	"casting techniques" AND fdb(paperchem) "casting techniques" AND fdb(1008450)	Useful in multi-file searches to isolate records from a single file.* FDB cannot be searched on its own; specify at least one search term then AND it with FDB.
Identifier (keyword)	IF	if("hardened properties")	Keywords (uncontrolled vocabulary terms). Also searchable using SU. Search also contains terms from throughout the document which are calculated to be relevant.
ISBN	ISBN	isbn(9781424495665)	
ISSN	ISSN	issn(0950-0618) issn(09500618)	

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Field name	Field code	Example	Description and Notes
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Journal title	JN	jn("journal of nanoscience and nanotechnology")	Displayed in Publication title. Look-Up list available under Publication title.
Language	LA	la(english)	The language in which the document was originally published.
Language of abstract	SL	sl(english)	Summary language
Notes	NT	nt("paperchem volume 38")	Journal announcement (present in some older records)
Page count	PCT	pct(2)	Number of printed pages, when supplied
Pagination	PG	pg(13-19)	The start page is searchable on the Look Up Citation tool.
Start page	PAGE	page(13)	First page number – displayed within Pagination. Searchable on the Look Up Citation tool.
Patent assignee	AP	ap(xerox) ap("riso kagaku")	Patent assignees; could include patent applicant if provided.
Patent classification	PAC	pac(27/2)	Searches both US and IPC patent classifications.
Patent publication number	PN	pn(2711680)	Displayed within Patent information.
Publication date	PD	pd(20140331) pd(>=201210) pd(20090501-20090731)	Also searchable by the Look Up Citation tool.
Publication title ¹	PUB	pub(construction and building materials)	Includes all Publication names, including conference titles. Journal names also searchable using JN.
Publication type	PSTYP E	pstype(journal)	Preferred search uses Document type (DTYPE).
Publication year	YR	yr(2014)	Single year or a range of years may be searched. Displayed within Publication date.
Publisher	PB	pb(Elsevier ltd)	
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Source details	SRC	src(avail*)	Includes Publication Title, Volume, Issue, Publication Date, Pagination, and similar items. Also searchable by the Look Up Citation tool. Displays as individual items, or as Source details in pre-1990 records.
Subject ¹	SU	su("tensile strength")	Contains descriptors from controlled vocabulary. Also includes uncontrolled terms displayed as Identifiers (keywords); these are displayed separately.
Supplier identifier		372244844	Alternative reference to a record given by the information provider. Searching using SID is being developed, so search without SID if necessary.
Title	TI	ti("forest settlement")	Includes Alternate title. Does not include Publication title (PUB).
Updates	UD	ud(20140217) ud(>=20140301)	Date(s) when updates provided by the supplier reached a certain point within the ProQuest load/update process.
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