

ICONDA – International Construction Database

Description

ICONDA - International Construction Database covers worldwide technical literature on civil engineering, urban and regional planning, architecture, and construction. Sources are scanned for ICONDA by international organizations in 14 countries. Sources include more than 600 periodicals, books, research reports, conference proceedings, business reports, theses, and non-conventional literature.

ICONDA is sponsored by the International Council for Building Research Studies and Documentation (CIB) and the International Union of Building Centres (UICB).

The following types of construction projects are covered:

- Airports
- Bridges and tunnels
- Dams
- High-rise buildings
- Industrial plants
- Nuclear facilities
- Offshore structures
- Pipelines
- Railways
- Residential buildings
- Roads

Date Coverage

1976–present

Geographic Coverage

International

Subject Coverage

ICONDA includes coverage of the following main subjects:

- Architectural design and planning
- Computer aided design (CAD)
- Construction equipment and methods
- Construction of industrial, commercial and residential structures
- Engineering geology
- Environmental design
- Finance and management
- Interior design
- Maintenance, restoration, and conservation techniques
- Material properties and testing
- Project planning and development
- Public works and major construction projects
- Regional and municipal planning
- Soil mechanics and geotechniques
- Structural design and engineering

Update Frequency

Weekly

Document Types

- Reports
- Bibliographies
- Conferences, Symposia, Meetings
- Journal Articles
- Research Projects

Publisher

ICONDA (International Construction Database) is produced by Fraunhofer Information Centre for Regional Planning and Building Construction (IRB).



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Effect of Different Forms of Silica on Sintering, Microstructure and Properties of Borosilicate Glass/Al₂O₃ Composites

LIU, Ming; ZHOU, Hongqing; ZHU, Haikui; YUE, Zhenxing; ZHAO, Jianxin. *Journal of Wuhan University of Technology (Materials Science Edition) (English version)* 29.1 (2014).

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Abstract (summary) [Translate](#)

The effects of the introduction of silica glass and silica ceramic into Ca-Al-B-Si-O glass/ Al₂O₃ composites on decreasing the shrinkage and the dielectric constant of samples were investigated by FTIR, DSC, XRD and SEM. The results show that silica ceramic filler can better improve the formation of Si-O-Si network in the composites under high temperature, which leads to increased continuity of glass network at high temperature, and deduces the increase of viscosity of composites and further results in the decrease in the shrinkage of samples. Densification, three-point strength, and dielectric constant of samples decrease with the increase of silica glass or silica ceramic content. By contrast, Ca-Al-B-Si-O glass/Al₂O₃ composites with 4 wt% silica ceramic exhibit better properties of a bulk density of 2.81 g*cm⁻³, a porosity of 0.3%, a 3dp value of 202 MPa, a er value of 7.41 , a tan delta value of 8.3*10⁻⁴ at 10 MHz and a well matching with Ag electrodes. This material is suitable to be used as the LTCC material for the application in wireless communications.

Indexing (details) Cite

SU	Subject	microstructure; LTCC; Ca-Al-B-Si-O glass; Al ₂ O ₃ ; silica glass; silica ceramic
TI	Title	Effect of Different Forms of Silica on Sintering, Microstructure and Properties of Borosilicate Glass/Al ₂ O ₃ Composites
AU,AUFN,AULN	Author	LIU, Ming ¹ ; ZHOU, Hongqing ¹ ; ZHU, Haikui ¹ ; YUE, Zhenxing ¹ ; ZHAO, Jianxin ¹ ¹ College of Materials Science and Engineering, Nanjing University of Technology; Department of Materials Science and Engineering, Luoyang Institute of Science and Technology; State Key Laboratory of New Ceramic and Fine Processing, Tsinghua University Luoyang 471023, China; Nanjing 210009, China; Beijing 100084, China
LA	Language	English
SL	Language of abstract	ENG
DTYPE	Document type	Article
DF	Document feature	Figures;References;tabs
PUB	Publication title	Journal of Wuhan University of Technology(Materials Science Edition) (English version)
VO	Volume	29
ISS	Issue	1
ISSN	ISSN	1000-2413
PSTYPE	Publication type	Trade Journals
	URL	http://www.cnki.net
	Publication date	2014
PD	Date created	2014-08-05
DCRE	Source attribution	International Construction Database, © Publisher specific
AN	Accession number	2014081100406
SID	Supplier identifier	TJU DC75623
	Document URL	http://search.proquest.com/professional/docview/1558479501?accountid=137296
FAV	First available	2014-09-01
UD	Updates	2014-09-01
	Database	ICONDA - International Construction Database (1976 - current)

SEARCH FIELDS

Field Name ¹	Field Code	Example	Description and Notes
Abstract	AB	ab("silica ceramic filler")	Use adjacency and/or Boolean operators to narrow search results.
Abstract present	ABANY	"sustainable development" AND abany(yes)	Add: <i>AND ABANY(YES)</i> to a query to limit retrieval to records with abstracts.
Accession number	AN	an(2014081100406)	A unique document identification number assigned by the information provider.
All fields	ALL	all("LTCC material")	Searches all fields in bibliographic files. Use adjacency and/or Boolean operators to narrow search results.
All fields + text	--	"LTCC material"	Same as ALL field code: searches all fields in bibliographic files.
Author ² Author First Name Author Last Name	AU AUFN AULN	au("zhou hongqing") aufn(hongqing) auln(zhou	Includes all Authors.
First author	FAU	fau("liu ming")	First name listed in Author field. It is included in Author browse, but its position cannot be specified in the Author browse.
Author affiliation	AF	af("nanjing university of technology")	Includes as much data as is available in the original document, such as department, organization, address, city, state, country, author email, etc.
CODEN	CODEN	coden(IGTPBZ)	
Corporate author	CA	ca(Volkswagen-Stiftung, Hannover)	
Conference information	CF	cf("Conference Number: 28") cf(20100602)	Includes conference title, date, sponsor, and location.
Conference location	CG	cg(new delhi)	
Conference title	CFTI	cfti("Annual AUGC (Association universitaire de Genie civil) Congress")	
Country of publication	CP	cp("united states")	
DOI	DOI	doi(10.1002/best.201000063)	Digital Object Identifier. Search the portion of the DOI that follows http://dx.doi.org/ .
Date created	DCRE	dcre(20140805)	
Document title	TI	ti("effect of different forms of silica")	Includes Alternate Title (OTI), but not Publication Title (PUB).
Title only	TIO	tio(ecosystem)	
Alternate title	OTI	oti("Der Schutz des baltischen Oekosystems")	Includes Alternate title, subtitle, and original-language of document title, if available.
Document features	DF	df(references)	

¹ Proquest Environmental Science Professional is a 'meta-product'; it brings together multiple databases under a single search interface. All the fields listed here as being searchable and displayable may not be present in every one of these individual databases.

² A Lookup/Browse feature is available for this field in the Advanced Search dropdown or in Browse fields.

Field Name ¹	Field Code	Example	Description and Notes
Document type	DTYPE	dtype(article)	
First available	FAV	fav(2014-09-01)	Indicates the first time the document was loaded on PQD. It will not change regardless of many times the record is subsequently reloaded, as long as the Accession Number does not change.
From database ³	FDB	fractionation AND fdb(iconda) fractionation AND fdb(1008444)	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.
ISSN	ISSN	issn(1000-2413) issn(10002413)	Also searchable via the Look Up Citation tool.
Issue	ISS	iss(1)	Also searchable via the Look Up Citation tool.
Language	LA	la(english)	The language in which the document was originally published.
Language of abstract	SL	sl(english)	
Notes	NT	nt("print on paper")	
Publication date	PD	pd(2014) pd(2010-2012) pd(>=2010)	Date range searching is supported.
Publication title ²	PUB	pub("journal of wuhan university of technology")	Title of publication where document originally appears, commonly a monograph or periodical title.
Publication type	PT	pt(trade journals)	
Publication year	YR	yr(2014) yr(>2010)	Date range searching is supported.
Publisher	PB	pb(Lavoisier)	
Place of publication	PBLOC	pbloc(Atlanta, ga) pbloc("united states")	
Source information	SRC	src(journal of pharmaceutical and biomedical analysis)	Includes Publication title, Issue, Volume, ISSN, Publication date, and Pagination.
Subject ²	SU	su("silica glass")	Includes the majority of descriptor fields.
Supplier identifier	SID	"TJU DC"	Alternative reference to a record given by the information provider. Searching using SID is being developed, so search without SID if necessary.
Updated	UD	ud(2014-09-01)	The date(s) the record was loaded as a result of an update provided by the supplier.
Volume of publication	VO	vo(29)	

³ Click the "Field codes" hyperlink at the top right of the Advanced Search page. Click "Search syntax and field codes", then click on "FDB command" to get a list of database names and codes that can be searched with FDB.

SEARCH TOOLS

Field codes are used to search document fields, as shown in the sample document. Field codes may be used in searches entered on the **Basic Search**, **Advanced Search**, and **Command Line** search pages. **Limit options**, **Look up lists**, and **“Narrow results by” filters** tools are available for searching. Some data can be searched using more than one tool.

LIMIT OPTIONS

Limit options are quick and easy ways of searching certain common concepts. Check boxes are available for:

Abstract included

Short lists of choices are available for:

Source type, Document type, Language

Date limiters are available in which you can select single dates or ranges of dates for date of **publication** and **updated**.

LOOKUP LISTS

You can browse the contents of certain fields by using Look Up lists. These are particularly useful to validate spellings or the presence of specific data. Terms found in the course of browsing may be selected and automatically added to the Advanced Search form. Look Up lists are available in the fields drop-down and in the search options for:

Author, Publication title, Subject

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When results of a search are presented, the results display is accompanied by a list of “Narrow results by” options shown on the right-hand panel. Click on any of these options and you will see a ranked list showing the most frequently occurring terms in your results. Click on the term to apply it to (“narrow”) your search results. “Narrow results by” filters in ICONDA include:

Source type, Publication title, Document type, Subject, Author, Language, Publication date

LOOK UP CITATION

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DOCUMENT FORMATS

Document Format	Fields	Online	Export / Download
Brief view	Title and Publication date.	✓	
Detailed view	Same as Brief view plus a 3-line KWIC window.	✓	

KWIC (Keyword in Context)	Detailed view plus all occurrences of your search terms, highlighted within the fields where the terms occur.	✓	✓
Preview	Title, Author, Publication title, Publisher, Volume, Issue, Pagination, Publication date, Abstract, Subject.	✓	
Brief citation	Bibliographic record minus Abstract and Indexing	✓	✓
Citation	Bibliographic record plus Indexing.	✓ ⁴	✓
Citation / Abstract	Complete bibliographic record	✓ ⁴	✓
Full text	Complete record with Full text	✓ ⁴	✓ ⁵
Full text PDF	PDF version of the original article	✓ ⁴	
Custom	Choose the fields you want.		✓ ⁶

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⁵ Full text is not available for export/download where only A&I (abstract & indexing) data is available.

⁶ Custom export/download format is available in the following mediums only: HTML, PDF, RefWorks, RTF, Text only.