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

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

Date Coverage

1976–present

Update Frequency

Weekly

Geographic Coverage

International

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).

Sample document

ProQuest Dialog

ICONDA - International Construction Database

Basic Search | Advanced ▾ | Command Line

Citation/Abstract « Back to results

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TI

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

AU,AUFN,AULN

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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AB

⊟ 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 fi ller 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. Densifi cation, 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; Al2O3; silica glass; silica ceramic
TI	
Title	Effect of Different Forms of Silica on Sintering, Microstructure and Properties of Borosilicate Glass/Al2O3 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
PD **Publication date**	2014
DCRE **Date created**	2014-08-05
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: *AND ABANY(YES)* 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)	

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[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
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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.
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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)	

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[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.

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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:

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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

"Narrow Results By" filters

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" filers in ICONDA include:

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Look up citation

If you need to trace a particular bibliographic reference, use the Look Up Citation feature. Find a link to this toward the top left of the Advanced Search page, or in the drop list under Advanced on any search form; click this and you will go to a form where you can enter any known details of the citation, including document title, author, journal name, volume, issue, page, publication date, ISSN.

Document formats

Document Format	Fields	Online	Export / Download
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Detailed view	Same as Brief view plus a 3-line KWIC window.	✓	
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Brief citation	Bibliographic record minus Abstract and Indexing	✓	✓
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Citation / Abstract	Complete bibliographic record	✓[4]	✓
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[5] Full text is not available for export/download where only A&I (abstract & indexing) data is available.
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