

Searching TRD

The **CSA Technology Research Database (TRD)** is a comprehensive megafile comprising three categories of content – engineering, high technology and materials research – in 17 component files.

This guide illustrates how to search in the TRD megafile as a whole and in one of the 17 individual subfiles within TRD. See the Bluesheet under Sources for a listing of all Dialog databases included in TRD and their file numbers.

Full TRD Megafile

Use File 23 to search the entire CSA Technology Research Database.

Enter search terms and limit to the current year.

```

h 23
[File 23] CSA Technology Research Database 1963-2005/Jun
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? # silicon(carbide/ti,de and (fiber? or fibre?))
  226660 SILICON/TI,DE
  86029 CARBIDE/TI,DE
  86215 SILICON/TI,DE(W)CARBIDE/TI,DE
  212446 FIBRE?
  50886 FIBRE?
S1 13928 S SILICON(CARBIDE/TI,DE AND (FIBER? OR FIBRE?))

? # s1/2005
  13928 S1
  14857 PF-2005
S2 18 S S1/2005

? t s2/9/1
2/9/1 Links
CSA Technology Research Database
(c) 2005 CSA. All rights reserved.
(c) 1970-2005 American Society of Civil Engineers and (c) 1966-2005 CSA. All Rights Reserved
007017798 IP Accession No. 200508-62-19291, 84-09009; 200508-42-28072; 200508-51-33064; 200508-31-19823
Titanium as coupling agent in SiC fibre reinforced copper matrix composites
  
```

TYPE the set number, format and records you want to see.

Note: Under Set Links in the right pane, you can also click the set you want to view (**S2**) > **Tasks** > **Picklist** to see a list of titles.

```

CSA Technology Research Database
(c) 2005 CSA. All rights reserved.
(c) 1970-2005 American Society of Civil Engineers and (c) 1966-2005 CSA. All Rights Reserved
007017798 IP Accession No. 200508-62-19291, 84-09009; 200508-42-28072; 200508-51-33064; 200508-31-19823
Titanium as coupling agent in SiC fibre reinforced copper matrix composites

Brendel, A., Woltersdorf, J., Pippel, E., Bolt, H Max-Planck-Institut fur Plasmaphysik, EURATOM Association, Boltzmannstrasse 2,
D-85748 Garching, Germany
Author Email: wolt@mpi-halle.de
Materials Chemistry and Physics, v 91, n 1, p 116-123, 15 May 2005
Publication Date: 2005
Publisher: Elsevier Science SA, P.O. Box 564, Lausanne 1, CH-1001
Country Of Publication: Switzerland
Publisher Url: http://www.elsevier.com

Document Type: Journal Article
Record Type: Abstract
Language: English
ISSN: 0254-0584
Notes: Diffraction Patterns; Photomicrographs; Graphs
No. Of Refs.: 25
DOI: 10.1016/j.matchemphys.2004.10.057
File Segment: Metadex; Ceramics Abstracts/World Ceramic Abstracts; Civil Engineering Abstracts; Mechanical & Transportatoin
Engineering Abstracts; Solid State & Superconductivity Abstracts
  
```

This record is contained in all File Segments listed.

TRD Subfiles

TRD contains 17 subfiles. Use the FS= prefix to search selected file segments (e.g., S FS=METADEX?)

Step 1: To limit the search to one or more of the subfiles, use the FS= prefix and the EXPAND or Visual Expand command (e.g., ve fs=ceramics abstract).

Note: You can also SELECT the subfile, but make sure to add truncation at the end of the search term (e.g., S FS=CORROSION? will retrieve Corrosion Abstracts).

Abstract:
SiC fibre reinforced copper matrix composites are candidate materials for heat sinks in future fusion reactors, as they combine high thermal conductivity and high strength. The composites are prepared by a sputtering, followed by a copper infiltration process. The reduction of porosity, the wear resistance, and the mechanical properties of the composite. The interlayer between the SiC fibre and the copper matrix is formed by microcopy and by push-out forming TiC which enhances the interface bonding. The TiC is 10-fold higher for composites.

Items	RT	Type	Term	Scope	Note
254,633	0		FS=ALUMINIUM INDUSTRY ABSTRACTS		
360,698	0		FS=ANTE: ABSTRACTS IN NEW TECHNOLOGIES AND ENGINEERING		
352,883	0		FS=CERAMICS ABSTRACTS/WORLD CERAMIC ABSTRACTS		
423,682	0		FS=CIVIL ENGINEERING ABSTRACTS		
401,388	0		FS=COMPUTER & INFORMATION SYSTEMS ABSTRACTS		
65,552	0		FS=COPPER DATA CENTRAL		
108,927	0		FS=CORROSION ABSTRACTS		
113,840	0		FS=EARTHQUAKE ENGINEERING		
290,042	0		FS=ELECTRONICS & COMMUNICATIONS ABSTRACTS		
280,963	0		FS=ENGINEERING MATERIALS		
180,081	0		FS=ENVIRONMENTAL ENGINEERING		
199,649	0		FS=MATERIALS BUSINESS		
464,634	0		FS=MECHANICAL & TRANSPORTATION ABSTRACTS		
1,427,605	0		FS=METADEX		
254,184	0		FS=SOLID STATE & SUPERCONDUCTIVITY ABSTRACTS		
183,307	0		FS=WELDESEARCH		
1	0		JM-A		
1	0		JM-A 'PRESSURE JUMP' AT MALTA-1 JUNE 1961. T. H. M. J. VAN DER WOUDE		
12	0		JM-A A C E INTERNATIONAL TRANSACTIONS		

Command: Previous Reports
ve fs=ceramics abstract

Use Visual Expand (VE) and FS=, plus the subfile name.

Check the subfile you want to search and click SELECT.

Step 2: Combine the subject with the subfile.

```
? ve ceramics abstracts
? ve fs=ceramics abstracts
SELECT FS= "CERAMICS ABSTRACTS/WORLD CERAMIC ABSTRACTS"
S3 352883 SELECT FS= "CERAMICS ABSTRACTS/WORLD CERAMIC ABSTRACTS"
?
?
? s=3 and s=1
352883 S3
19228 S1
S4 4012 S S3 AND S1
? s=4/2005
4012 S4
14857 PY=2005
S5 13 S S4/2005
? PICKLIST 5
5/8/1
```

Combine the subfile set with the subject and limit to the current year.

Step 3: View the Picklist by clicking the set you want to see in the Set Links pane.

PICKLIST 5 showing 1 - 10

IP Accession No.	Publication Date
0007017798	200508-02-19291; 04-09009; 200508-02-28072; 200508-01-30364; 200508-01-19623
0007017798	200508-02-19291; 04-09009; 200508-02-28072; 200508-01-30364; 200508-01-19623
0007015687	200508-E4-C-14564; 04-08646

Output to: Output Format Archive Index

Type 20 0 0 Output

Check titles you want to see, select Output Type and Format and click OUTPUT.

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