

SciFinder Scholar . **Chemical Abstracts** 1907 to present.

- Explore References
- Explore Substances
- Explore Reactions

- **CPlus** Chemical Abstracts 1907+
- **MEDLINE** 1950+
- **CAS REGISTRY** 1957+
- **CASREACT** 1907+
- **CHEMCATS**
- **CHEMLIST**1979+

- **Relevancy Ranking**
- **No Boolean Logic**
- **Ask about STN with Boolean logic and proximity operators searching**

Tips for Describing Your Research Topic

To find information while exploring or refining by research topic, enter your phrases as complete sentences in English. SciFinder Scholar understands which terms are the key words and how to relate the terms to one another. Here are



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SciFinder Content

Reference Databases

- **CAplus** (*Chemical Abstracts*) Literature from **1907** to the present plus selected pre-1907 references. Sources include **journals, patents, conference proceedings**, dissertations, technical reports, books, and more. CAplus covers a wide spectrum of science-related information, including chemistry, biochemistry, chemical engineering, and related sciences.

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SciFinder Content

Reference Databases

- **CAplus** Chemical Abstracts 1907+ journals, conferences, patents
- **MEDLINE** Biomedical literature from more than 4,780 journals and 70 countries, covering literature from 1950 to the present.

Structure Database **CAS REGISTRY** Specific chemical substances, including organic and inorganic compounds, sequences, coordination compounds, polymers, and alloys covering 1957 to the present, with some classes going back to the early 1900s.

Reaction Database **CASREACT** Reaction information for single- and multiple-step reactions from 1907 to the present.

Commercial Source Database **CHEMCATS** Chemical source information, including supplier addresses and pricing information derived from current chemical catalogs and libraries, retrieved for individual substances.

Regulatory Database **CHEMLIST** Regulatory information records from 1979 to the present, including substance identity information, inventory status, sources, and compliance information.

- **Registration** is required. Use your official Georgia Tech email account ending in "gatech.edu."
- Can "**Create Keep Me Posted**" Alerts for both references and substances.

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Research Topic "packaging cmos mems" > references (196)

References



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196 References

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1. 3D interconnect te

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Exclude previously retrieved references.

Search:

Explore references by research topic: **packaging cmos mems**

Candidates Selected:

References which contain all of the concepts "packaging", "cmos" and "mems"

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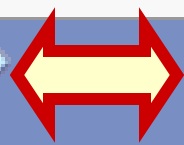
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Explore References

Research Topic

Research Topic ⓘ



packaging cmos mems

Author Name

Company Name

Document Identifier

Journal

Patent

Examples:

The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds

Publication Year(s) ⓘ

Examples: 1995, 1995-1999, 1995-, -1995

Document Type(s) ⓘ

- | | | |
|---|---------------------------------------|-----------------------------------|
| <input type="checkbox"/> Biography | <input type="checkbox"/> Dissertation | <input type="checkbox"/> Patent |
| <input type="checkbox"/> Book | <input type="checkbox"/> Editorial | <input type="checkbox"/> Preprint |
| <input type="checkbox"/> Clinical Trial | <input type="checkbox"/> Historical | <input type="checkbox"/> Report |
| <input type="checkbox"/> Commentary | <input type="checkbox"/> Journal | <input type="checkbox"/> Review |
| <input type="checkbox"/> Conference | <input type="checkbox"/> Letter | |

Language(s) ⓘ

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| <input type="checkbox"/> English | <input type="checkbox"/> Italian | <input type="checkbox"/> Russian |
| <input type="checkbox"/> French | <input type="checkbox"/> Japanese | <input type="checkbox"/> Spanish |

Author Name ⓘ

Last * First Middle

Company Name ⓘ

Examples:
Minnesota Mining and Manufacturing
DuPont

Research Topic Candidates

3 Topics 2 Selected

Select All Deselect All

Research Topic Candidates

References

- | | Research Topic Candidates | References |
|-------------------------------------|--|------------|
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| <input checked="" type="checkbox"/> | 59 references were found containing the concept "packaging cmos mems". | 59 |
| <input type="checkbox"/> | 196 references were found containing all of the concepts "packaging", "cmos" and "mems". | 196 |

Get References

Analysis

Refine

Analyze by: ⓘ

Index Term

Click bar to view only those references within the current answer set

Microelectromechanical systems	32
Electronic packages	29
Electronic packaging process	26

For synonyms

Create Keep Me Posted Research Topic "packaging cmos mems" > references (59)

References

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Combine Answer Sets

59 References 0 Selected Keep Selected Remove Selected Remove Duplicates Add Tags

Select All Deselect All Sort by: Accession Number

1. Easy to fill sloped vias for interconnects applications improved control of silicon tapered etch profile

By Heraud, Stephane; Short, Carolyn; Ashraf, Huma

From IEEE Electronic Components and Technology Conference (2009), 59th, 654-657. Language: English, Database: CAPLUS

The first part of this paper aims to illustrate the possibility to control the shape of the top of a tapered silicon via using an SF6/O2 chem. with high etch rate. This etch has been performed using an ICP machine, customized for this type of etch. Usually, for such a tapered etch process, a local bowed sidewall profile is used to mask at the top of the via. By removing this local bow, the aim is to facilitate the use of such tapered profile for through silicon via (TSV) interconnects, applications or MEMS packaging in mass prodn. today. The second part of this paper relates to the study of some trends obtained by varying process parameters such as pressure or platen power.

Substances Reactions Citing Full Text Link 0 Comments 0 Tags

2. Device-level vacuum packaging for RF MEMS

By Rahman, M. Shabir; Chittohovina, Murali M.; Butler, Donald P.; Celik-Butler, Zeynep; Pacheco, Sergio P.; McBean, Ronald V.

Explore Substances

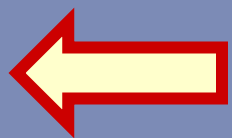
Chemical Structure

Substa

Markush

Molecular Formula

Substance Identifier



Enter one per line.
Examples:
50-00-0
999815
Acetaminophen

Explore References

Research Topic

Author Name ⓘ

gaylord

tbomas

k

Author Name



Last *

First

Middle

Company Name

Document Identifier

Journal

Patent

Look for alternative spellings of the last name

Author Name Candidates

3 Authors 3 Selected

Select All Deselect All

	Author Name Candidates	References
<input checked="" type="checkbox"/>	GAYLORD T K	95
<input checked="" type="checkbox"/>	GAYLORD THOMAS	1
<input checked="" type="checkbox"/>	GAYLORD THOMAS K	96

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- Author Name
- Company Name
- Document Type
- Publication Year
- Language
- Database

Publication Year(s)

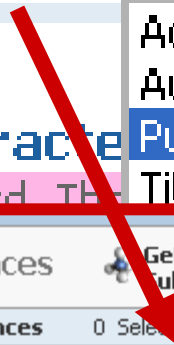
Examples: 1995, 1995-1999, 1995-, -1995

Refine



Sort by: Publication Year

- Accession Number
- Author Name
- Publication Year
- Title



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192 References 0 Selected Keep Selected Remove Selected Remove Duplicates Add Tags Save Print Export

Select All Deselect All Sort by: Accession Number Answers per Page [20] 1 2 3 4 5 6 ... 10 Display: [icon]

1. Birefringence characteristics of ...
By Chang, Yin-Jung; Gaylord, Thomas K.
From Optics Express (2010), 18(2), 809-821. Le
The birefringence in nanometer-scale
induced-dipole-elec.-field contribution
investigated by varying the ratio of la
of the finite cubic crystal lattices char
shape. In finite tetragonal crystals the
tetragonal lattices.

Analyze by

Author Name

Answers per Page [100] 1 2

Select the number of answers to show per page.

15 | 20 | 25 | 50 | 75 | 100

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Answers per Page [100] 1 2 ▶

Save answers to the CAS server. To save answers to your desktop, use Export.

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Save This Answer Set ⓘ

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Save:
 All answers
 Only selected answers

Title: *
Gaylord TK

Description:
Author name search

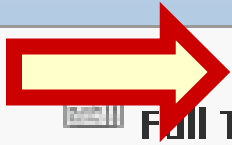
Search Topic "diffraction gratings waveguide..." > references (601)

Get Substances

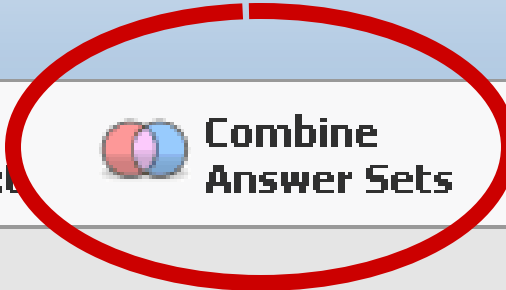
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Combine Answer Sets

Select saved answer set(s) to combine with your current answer set **(601)**:

2 Answer Sets 2 Selected

Reference Answer Set Details		Date Saved
<input checked="" type="checkbox"/>	Diffraction gratings holography (601) Research Topic "diffraction gratings waveguides holography" > references (601)	Dec 31, 2010
<input checked="" type="checkbox"/>	Gaylord TK (192) Author name search Author Name "gaylord, thomas k" > references (192)	Dec 31, 2010

Select an option for combining the answer sets:



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Intersect

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Not Available



Exclude

Not Available

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Saved Answer Sets

 **Combine Answer Sets**

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Substances (0)

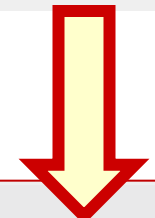
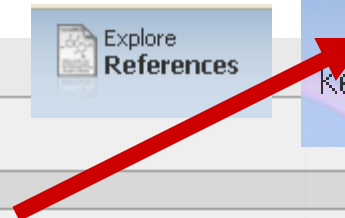
Reactions (0)

3 Answer Sets 0 Selected Delete Selected

Reference Answer Set Details

Date Saved

<input type="checkbox"/>	Gaylord TK & diffraction gratings holography (3) Research Topic "diffraction gratings waveguides holography" > references (601) > Combine Reference Answer Sets "Diffraction gratings holography AND Gaylord TK" (3)	Edit	 Link	Dec 31, 2010
<input type="checkbox"/>	Diffraction gratings holography (601) Research Topic "diffraction gratings waveguides holography" > references (601)	Edit	 Link	Dec 31, 2010
<input type="checkbox"/>	Gaylord TK (192) Author name search Author Name "gaylord, thomas k" > references (192)	Edit	 Link	Dec 31, 2010




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References

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<p>Research Topic</p> <p>Author Name</p> <p>Company Name</p> <p>Document Identifier</p> <p>Journal</p> <p>Patent</p>	<p>Journal ⓘ</p> <p>Title Word(s) ⓘ</p> <p>Author Name ⓘ</p>	<p><input type="text"/></p> <p>Journal Name *</p> <p><input type="text"/></p> <p>Volume</p> <p><input type="text"/></p> <p>Issue</p> <p><input type="text"/></p> <p>Starting Page</p> <p><input type="text"/></p> <p>Example: <i>Antibiotic</i></p> <p><input type="text"/></p> <p>Last *</p> <p><input type="text"/></p> <p>First</p> <p><input type="text"/></p> <p>Middle</p>
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Retrieve references citing selected reference(s).

Citing references	References that cite one or more of the documents in the original list. These will be more recent than your selected reference(s), and can help you gauge the prominence of the document(s).	Either CPlus or MEDLINE documents may yield lists of citing references. The new (citing) references will be from CPlus.
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29 References

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Sort by:

Author Name

**7. Chip scale integrated microresonators for sensing applications**

By Jokerst, Nan M.; Cho, Sang-Yeon; Luan, Lin; Royal, Matthew; Palit, Sabarni

From Proceedings of SPIE (2008), 6872(Laser Resonators and Beam Control X), 68720Q/1-68720Q/14. Language: English, Database: CAPLUS

Miniaturized, portable sensing systems for medical and environmental diagnostics and monitoring are an excellent application area for microresonator : attractive components for chip scale integrated sensing because they can be integrated in a planar format using std. semiconductor manufg. technology

microresonators, where the waveguides lie below or above the microresonator, can be fabricated using std. photolithog., enabling low cost integrated

be surface customized for discrimination in, for example, chem. sensing applications, or the surface can be functionalized for biol. sensing applications.

sensing systems, microresonators can be integrated with planar optical system components, such as polymer waveguides and thin film photodetectors,

integration. Heterogeneous integration can also be used to integrate optical sources with sensors onto host substrates such as silicon.

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7. Chip scale integrated microresonators for sensing applications

By: Jokerst, Nan M.; Cho, Sang-Yeon; Luan, Lin; Royal, Matthew; Palit, Sabarni

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Indexing

Optical, Electron, and Mass Spectroscopy and Other Related Properties (Section 73-11)



Concepts

Substances

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- **Do not use Boolean logic** or wording groupings, as SciFinder Scholar does not understand them.
- Place **synonyms in parenthesis** next to the topic you entered. Example: I am interested in the milk production of **cows (bovines)**. SciFinder Scholar will search for both terms, "cows" and "bovines."
- SciFinder Scholar automatically truncates the terms in your query and searches for plural forms, past tense verbs and other word forms. **Do not include truncation or wildcard** symbols (such as ! or *) in your search terms, since SciFinder Scholar will disregard them and interpret the remaining characters literally.
- SciFinder Scholar is designed to recognize and accept: Commonly used abbreviations, commonly misspelled words, common Words spelled according to either British or American English.