

创新之道

--- ISI Web of Science 的检索、利用及其
对科技创新的推动



Web of Science

- Science Citation Index Expanded(1945-)
5,800 Journals
- Social Science Citation Index(1956-)
1,700 Journals
- Arts & Humanities Citation Index(1975-)
1,150 Journals



有选择性地收录期刊

- -- 高质量的期刊--高质量的论文--可以信赖的、高质量的信息
- 少量的期刊汇集85%-95%的重要科学发现和论文。
- “布氏法则”：2000多种期刊发表了出版论文中的85%，被引用的论文的95%
- 在ISI的数据库中：
 - 150 中期刊中发表了出版的论文中的四分之一，被引用的论文中的二分之一



引文索引-- 揭示学术研究之间的内在联系， 推动知识创新



引文索引是一种以科技期刊、专利、专题丛书、技术报告等文献资料所发表的论文(称为 *Citing Literature*)后所附的参考文献(称为 *Cited Literature/ Article*，即引文的作者(称为 *Cited Author*)、题目、出处等项目，按照引证与被引证的关系进行排列而编制的索引。



论文的相互引证--- 学术研究之间的内在联系：

- 学科上的相关性
 - 理论与方法：借鉴与利用
 - 技术与手段：应用与发展
- 横向上的对应性
 - 实验或方法：互相参照与借鉴
 - 结果与讨论：比较与应用
- 纵向上的继承性
 - 课题的基础与起源
 - 发展与进步
 - 反引：学术争鸣



演示案例：

- 查找有关压电材料内含物的研究文献(该研究的起源和进展)
- 用STM观测C60单分子在半导体材料表面取向研究工作的最新进展、应用以及研究思路



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**Cited Ref Search
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Enter individual search terms or phrases separated by search operators such as AND or OR then press SEARCH.

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AUTHOR: Enter one or more author names as ORBRAIN C* OR DERGAM C*

SOURCE TITLE: Enter journal title or copy and paste from the [copyurl.txt](#)

AFFILIATION: Enter terms from an author's affiliation as YALE LEVY SAGE HDSP (see [affiliation.txt](#))

SET LIMITS AND SORT OPTION

Restrict search to a specific language or document type. (Multiple items may be selected from lists.)

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Page 3 (Articles: 1 - 30)

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Article 1 of 29

3-DIMENSIONAL ANALYSIS OF AN ELLIPSOIDAL INCLUSION IN A PIEZOELECTRIC MATERIAL
WANG G.A.
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES
29 (11): 2615-2618 1992

Discussion type: Article Language: English Cited Reference: 0 Times Cited: 30

**连接到本文所引用的参考文献：
了解研究课题的基础和起源**

作者摘要：一字不漏

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WANG G.A.
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29 (11): 2615-2618 1992

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1992	WANG G.A.	P. 2615-2618	29	2615	1992
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1992	WANG G.A.	P. 2615-2618	29	2615	1992
1992	WANG G.A.	P. 2615-2618	29	2615	1992
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3-DIMENSIONAL ANALYSIS OF AN ELLIPSOIDAL DEFLECTION IN A POLYCRYSTALLINE MATERIAL
WANG JIA
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES
29 (11):2815-2838 (1993)

Document type: Article Language: English Cited References: 33 Home Check 30

Abstract:
In this paper, the Green's function technique is used to develop an solution for an infinite polycrystalline medium containing a penny-shaped, elliptical inclusion. The coupled elastic and electric fields both inside the inclusion and on the boundary of the inclusion and matrix are obtained. Three results are used to calculate the effective constants of piezoelectric composite materials. It is found that the coupled elastic and electric fields inside the inclusion are higher when the external electric field acts vertically than horizontally. In addition, the elliptical inclusion is found to be a good piezoelectric material for calculating the effective constants of piezoelectric, viscoelastic film composites.

KeyWords Plus: INCLUSION
Indexing Terms: WANG JIA; TANGSHI JIUTY; TANGSHI JIUTY; CHEN AIFENG; HUANG HUI; HUANG HUI; HUANG HUI

Publisher: PERGAMON-ELSEVIER-STEINHELT, OXFORD

ISSN Numbers: 0020-7179

ISSN: 0020-7179

Article 1 of 23

参考文献 Link

连接引用本文的施引文献：掌握课题的发展、改进及最新进展

Related Records - Summary

3-DIMENSIONAL ANALYSIS OF AN ELLIPSOIDAL DEFLECTION IN A POLYCRYSTALLINE MATERIAL
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Page 1 (Articles 1 - 33)

1-33

Page 1 (Articles 1 - 33)

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相关文章

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Page 1 (Articles 1 - 33)

1-33

Page 1 (Articles 1 - 33)

Related Records: 相关文章
基于共同引文而建立，有效地揭示文献之间的内在联系。点击超链接可浏览全记录

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Cited Ref Search 被引文献检索

用STM观测C60单分子在半导体材料表面取向研究工作的最新进展及其应用：跟踪最新的发展，了解研究的思路

Identifying molecular orientation of individual C-60 on a Si(III)-(7x7) Surface

Hou JG, Yang JL, Zhu QS, et al, **Physical Review Letters**, 83: (15)3001-3004, Oct 11, 1999

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
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
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Buckyball Orientation

Scientists at the University of Science and Technology of China use images of carbon 60 molecules made with a scanning tunneling microscope to determine the orientation of the molecules (buckyballs) sitting on a silicon surface.

 A collection of buckyballs.

 STM image of a single buckyball.

 A computer simulation of what an STM picture should look like.

reported by: Hou et al., in the 18 October 1999 issue of *Physical Review Letters*

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STEP 1: CITED REFERENCE LOOKUP
Your database search was completed as requested by you. Display a list of cited references containing those selected below.

STEP 2: CITED REFERENCE SELECTION
The table lists all of the cited references that match your search request and the results of the linking operation as shown below. Click on the linkages and document type fields and sort options.

Input: Author: [Name], Journal: [Title], Year: [Year]

Output: List of cited references with columns for Author, Title, Journal, Year, and Linkage.

输入被引作者、被引期刊或被引文献发表的时间

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Cited Reference Search

STEP 2: CITED REFERENCE SELECTION

Click on the linkage and document type fields and sort options.

Linkage: [Icons for various document types]

Document Type: [List of document types]

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Cited Reference Search

Page 1 of 100

1. [Author], [Title], [Journal], [Year]

2. [Author], [Title], [Journal], [Year]

3. [Author], [Title], [Journal], [Year]

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检索结果的保存与输出

Page 1 of 100

1. [Author], [Title], [Journal], [Year]

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标记的检索结果列表

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- 这篇论文有没有被别人引用过？
- 这篇论文的主要内容是什么？
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- 这一理论有没有得到进一步的证实？
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- 还有谁在从事这方面的研究？
- 创始于这个研究机构的某项研究工作有没有研究论文发表？
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- 这个研究人员写过哪些论文并发表在该领域的权威性刊物里？
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引文索引--“不仅仅提供资料信息，更重要的是提供研究的思路”


将过去、现在以至将来的相关文献信息连接起来；
--“越查越新”和“越查越旧”

将不同学科、不同领域的相关研究连接起来，
--“科学发展的生长点”和“知识创新”

研究人员由此可以发现许多过去不知道然而却非常重要的信息，从而产生许多新的创见与发现。这也正是引文索引数据库中作为研究数据库的巨大价值所在。

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