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## 材料与工程数据库

JIM.WANG@PROQUEST.COM



# 讲座目的：

- 材料与工程学科知识架构
- 论文撰写中认识检索策略
- 信息的获取和处理的方法



# 讲座内容

1. 资源介绍
2. 检索功能
3. 检索结果



# 知识发现的路径？及更多.....



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Optical Properties and Microstructure of Silver-Copper Nanoparticles Synthesized by Pulsed Laser Deposition



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Optical Properties and Microstructure of Silver-Copper Nanoparticles Synthesized by Pulsed Laser Deposition

著者 Hirai, Makoto; Kumar, Ashok

Journal of Electronic Materials, 12/2007, 卷 36, 期 12

Utilizing a pulsed laser deposition (PLD) method, silver-copper (Ag-Cu) nanoparticles have been synthesized by changing the surface area ratio of the target ( $S R = S Cu / (S Ag + S Cu)$ ) from 0 to 30...

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Microstructure, mechanical and electrical performances of zirconia nanoparticles-doped tin-silver-copper solder alloys

著者 Gain, Asit Kumar; Zhang, Liangchi

Journal of Materials Science: Materials in Electronics, 07/2016, 卷 27, 期 7

The present study investigates the influence of ZrO<sub>2</sub> nanoparticles addition on microstructure, material properties i.e...

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3

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Microstructure, elastic modulus and shear strength of alumina (Al<sub>2</sub>O<sub>3</sub>) nanoparticles-doped tin-silver-copper (Sn-Ag-Cu) solders on copper (Cu) and gold/nickel...

著者 Gain, Asit Kumar; Zhang, Liangchi; Chan, Y C

Journal of Materials Science: Materials in Electronics, 09/2015, 卷 26, 期 9

This paper investigates the influence of Al<sub>2</sub>O<sub>3</sub> nanoparticles on the morphology of interfacial intermetallic compound (IMC)...

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## Optical Properties and Microstructure of Silver-Copper Nanoparticles Synthesized by Pulsed Laser Deposition

Hirai, Makoto; Kumar, Ashok. *Journal of Electronic Materials*; Warrendale Vol. 36, Iss. 12, (Dec 2007): 1574-1578.

全文 - PDF 格式

摘要/索引

参考文献 18

### Optical Properties and Microstructure of Silver-Copper Nanoparticles ...

Hirai, Makoto; Kumar, Ashok  
*Journal of Electronic Materials*; Dec 2007; 36(12): 1574-1578  
pg. 1574



Journal of ELECTRONIC MATERIALS, Vol. 36, No. 12, 2007  
DOI: 10.1007/s11664-007-0261-y  
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Special Issue Paper

## Optical Properties and Microstructure of Silver-Copper Nanoparticles Synthesized by Pulsed Laser Deposition

MAKOTO HIRAI<sup>1,3</sup> and ASHOK KUMAR<sup>1,2</sup>

1.—Nanomaterials & Nanomanufacturing Research Institute, University of South Florida,  
Tampa, FL 33620-5950, USA; 2.—Department of Mechanical Engineering, University of South  
Florida, Tampa, FL 33620-5950, USA; 3.—Department of Mechanical Engineering, University of South  
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Batool Eneaze B. Al-Jumaili; Zainal Abidin Talib; Zakaria, Azmi; Ramizy, Asmiet; Ahmed, Naser M; 等.  
*Applied Physics. A, Materials Science & Processing; Heidelberg* Vol. 124, Iss. 9, (2018): 1-6.

[Synthesis of silver nanoparticles by Phoma gardeniae and in vitro evaluation of their efficacy against human disease-causing ...](#)  
Mahendra, Mahendra; Ingle, Avinash P; Gade, Ashok; Duran, Malaga



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# 为什么要用数据库



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# 使用数据库目的？

## The promise of educational neuroscience: Comment on Bowers (2016)

Gabrieli, John D. E. **Psychological Review** Vol. 123, Iss. 5, (Oct 2016): 613-619. DOI:10.1037/rev0000034

[Full text](#)[Full text - PDF](#)[Abstract/Details](#)[References](#) 40[Show highlighting](#)

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1. [White matter alterations in infants at risk for developmental dyslexia](#)

Langer, Nicolas; Peysakhovich, Barbara; Zuk, Jennifer; Drottar, Marie; Sliva, Danielle D; et al. **Cerebral Cortex** Vol. 27, Iss. 2, (Feb 2017): 1027-1036.

[Cited by](#) (16) [References](#) (96) [Abstract/Details](#)

2. [The practical and principled problems with educational neuroscience](#)

[Cited by](#) (25) [References](#) (115) Bowers, Jeffrey S. **Psychological Review** Vol. 123, Iss. 5, (Oct 2016): 600-612.

[Abstract/Details](#) [Full text](#) [Full text - PDF](#) (190 KB)

3. [Achievement gap in reading is present as early as first grade and persists through adolescence](#)

Ferrer, Emilio; Shaywitz, Bennett A; Holahan, John M; Marchione, Karen E; Michaels, Reissa; et al.

[Cited by](#) (22) [References](#) (11) [Abstract/Details](#) **The Journal of Pediatrics** Vol. 167, Iss. 5, (Nov 2015): 1121-1125.

4. [Prediction as a humanitarian and pragmatic contribution from human cognitive neuroscience.](#)

Gabrieli, John D E; Ghosh, Satrajit S; Whitfield-Gabrieli, Susan; National Library of Medicine. **Neuron** Vol. 85, Iss. 1, (January 7, 2015): 11-25.

[Abstract/Details](#) [Full text](#) [Full text - PDF](#) (2 MB)

5. [Plasticity in Developing Brain: Active Auditory Exposure Impacts Prelinguistic Acoustic Mapping](#)

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1 / 11 125%

Bookmarks

- A Meta-Analytic Review of Play Therapy With Emphasis on Outcome Measures
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    - Description of Study Quality Analysis
    - Description of Metanalytic Method
  - Results
    - Study Quality
    - Meta-Analysis
  - Discussion
  - References

Professional Psychology: Research and Practice  
2017, Vol. 48, No. 5, 390–400

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## A Meta-Analytic Review of Play Therapy With Emphasis on Outcome Measures

Scott A. Jensen  
University of the Pacific

Judith N. Biese  
University of Notre D

Elizabeth R. Graham  
Pamona College

### 了解期刊/论文的行文结构

A meta-analysis of 100 studies of outcomes of play therapy interventions was conducted to determine over- effect of intervention. Different from the [Bratton, Ray, Rhine, and Jones \(2005\)](#), but more consistent with [Lin and Bratton \(2015\)](#), findings, there was a significant moderate effect for play therapy interventions across all outcomes ( $d = .44$ ). When 4 studies with aberrantly large effects were removed, this effect was  $d = .3$ . These moderate effects are consistent with other meta-analyses that find lower effect sizes for nonbehavior interventions. Overall study quality was poor with no studies meeting the criteria of randomized control trial. Research on play therapy interventions also does not use diagnostic criteria as part of study inclusion, thus preventing play therapy interventions from being considered as empirically supported treatments. Met

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Evaluating a blended course for Japanese learners of English: why Quality Matters

Alizadeh, Mehrasa; Mehran, Parisa; Koguchi, Ichiro; Takemura, Haruo. *International Journal of Educational Technology*

...ing **second**-year undergraduate Japanese students mostly...  
...r-reviewed by a certified reviewer from Quality Matters...  
...technical difficulties they encountered. The QM **peer**...

Abstract/Details

Full text - PDF (1 MB)

2

Push-Ups Versus Clean-Up: Preschool Teachers' Gendered Beliefs, Expectations for Behavior, and Disciplina

Gansen, Heidi M. *Sex Roles; New York* Vol. 80, Iss. 7-8, (Apr 2019): 393-408.

[Abstract/Details](#)

3

Perfectionism is increasing over time: A meta-analysis of birth cohort differences from 1989 to 2016

Curran, Thomas; Hill, Andrew P. *Psychological Bulletin* Vol. 145, Iss. 4, (Apr 2019): 410-429.

...formative experiences of children and adolescents. With the classic **writing** on...  
...also stress the importance of relations more widely such as siblings, **peers**, and...  
...ideals are systemic within contemporary **language** patterns, the media, and social...

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例如节选文章： Patterns of Harmful Alcohol Consumption among Truck Drivers: Implications for Occupational Health and Work Safety from a Systematic Review and Meta-Analysis  
Bragazzi, Nicola Luigi; Dini, 等. International Journal of Environmental Research and Public Health; Basel Vol. 15, Iss. 6, (Jun 2018): 1121.

and/or abstract, the full text of the study was examined (Table 1).

Table 1 Search strategies criteria of the current meta-analysis.

Search Strategy Item	Search Strategy
Databases	PubMed/MEDLINE (NLM), Scopus, SciVerse ScienceDirect, Science Citation Index Expanded and Social Sciences Citation Index from ISI/Web of Science, <u>ProQuest Research Library</u> , <u>ABI/INFORM</u> , CBCA, via the UNO per TUTTI Primo Central (Ex Libris) platform
Language filter	None
Time filter	None
Keywords	(truckers OR truck drivers OR lorry OR commercial vehicles OR heavy vehicles OR long vehicles OR trucking industry OR haul transport) AND (alcohol OR ethanol)
Exclusion criteria	Editorial, letter to the editor, commentary, review; original article focusing on selected subgroups of truck drivers <i>Accident Analysis and Prevention; American Journal of Industrial Medicine; Applied Ergonomics; Ergonomics; Health and Place; Human Factors; International Archives of Occupational and Environmental Health; International Journal of Environmental Research and Public Health; International Journal of Heavy Vehicle Systems; International Journal of Industrial Ergonomics; Journal of Occupational and Environmental Medicine; Journal of Occupational Health; La Medicina del Lavoro/Medicine, Health and Working Life; Occupational and Environmental Medicine; Proceedings of the Human Factors and Ergonomics Society; Safety and Health at Work; Safety Science; Scandinavian Journal of Work, Environment and Health; Traffic Injury Prevention; Transportation Research Part F Traffic Psychology and Behavior; Transportation Research Record; Workplace Health and Safety</i>
Target journals	

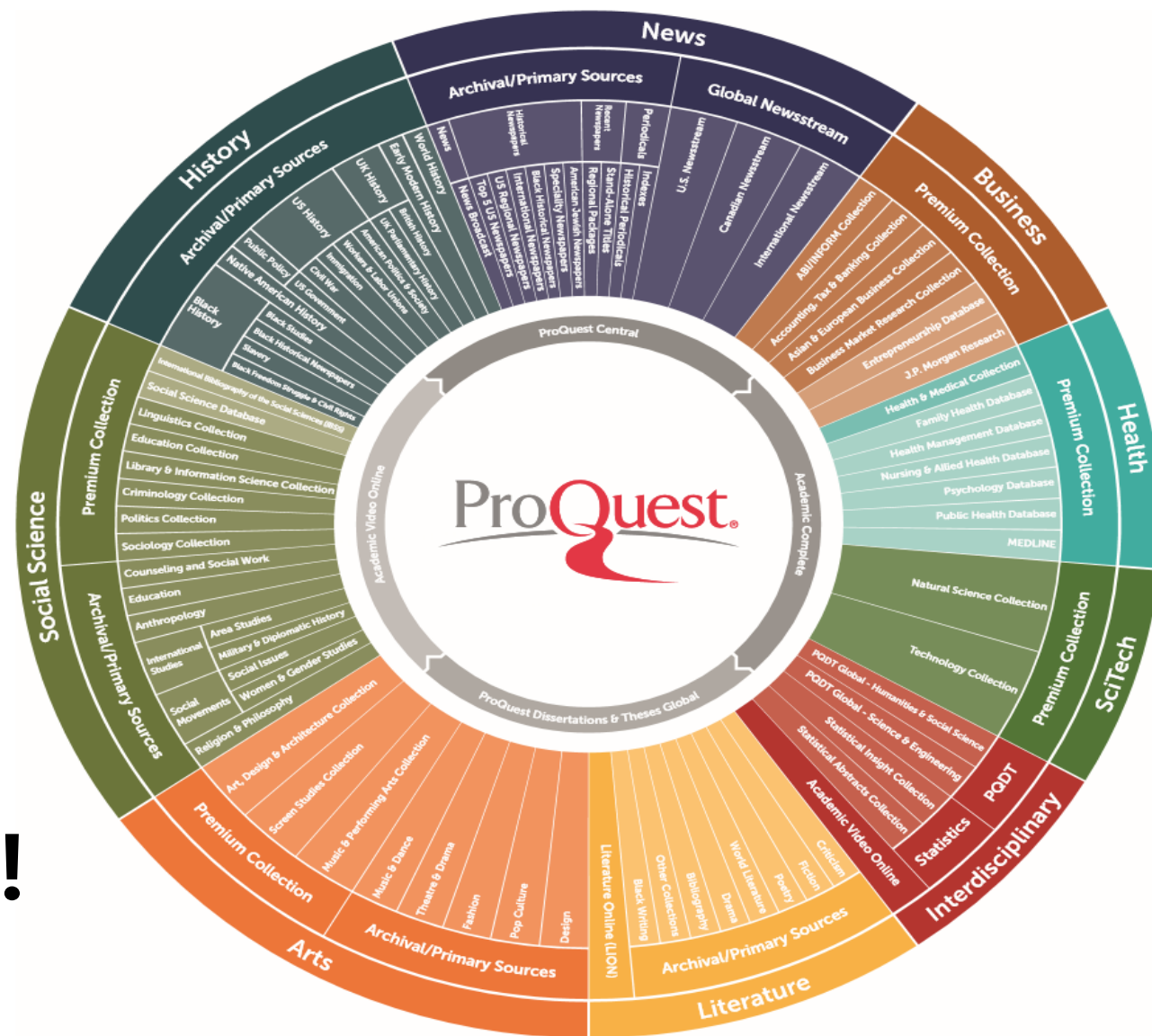
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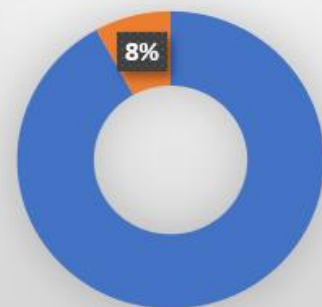
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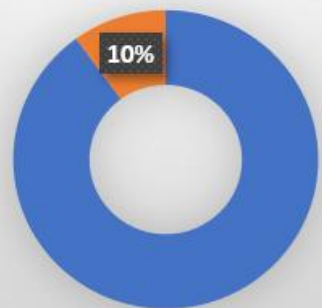
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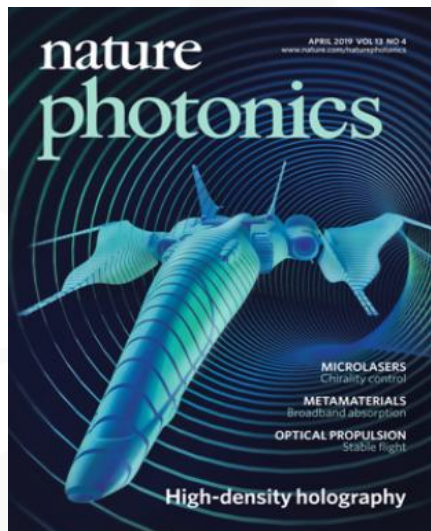
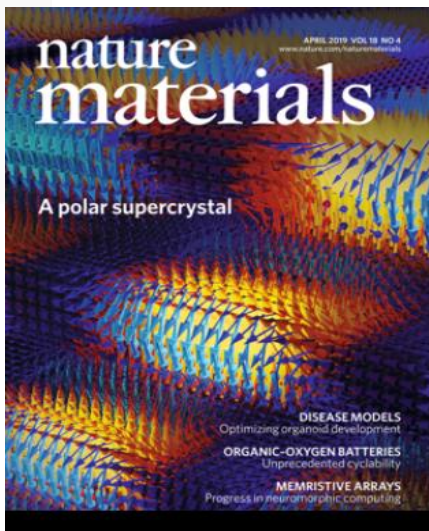
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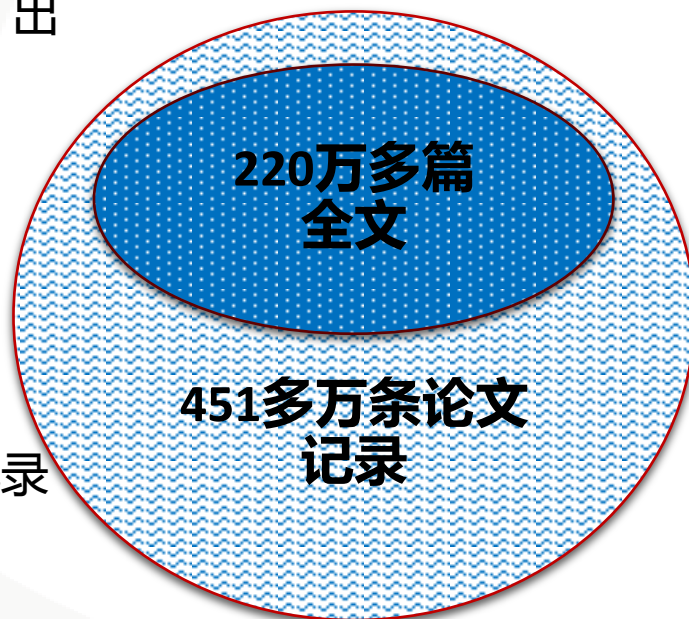
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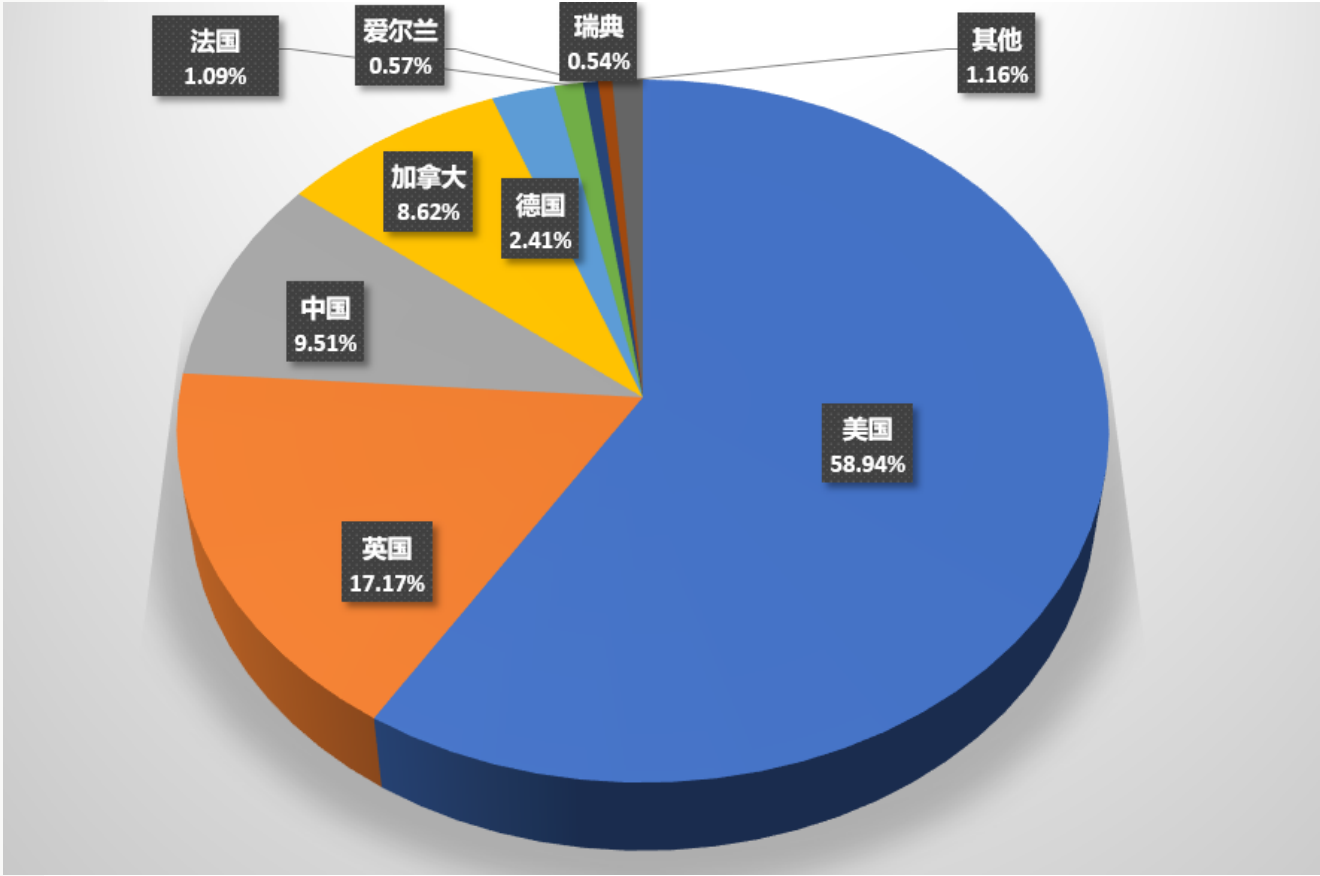
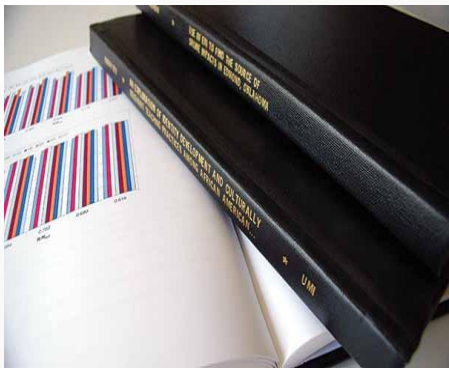


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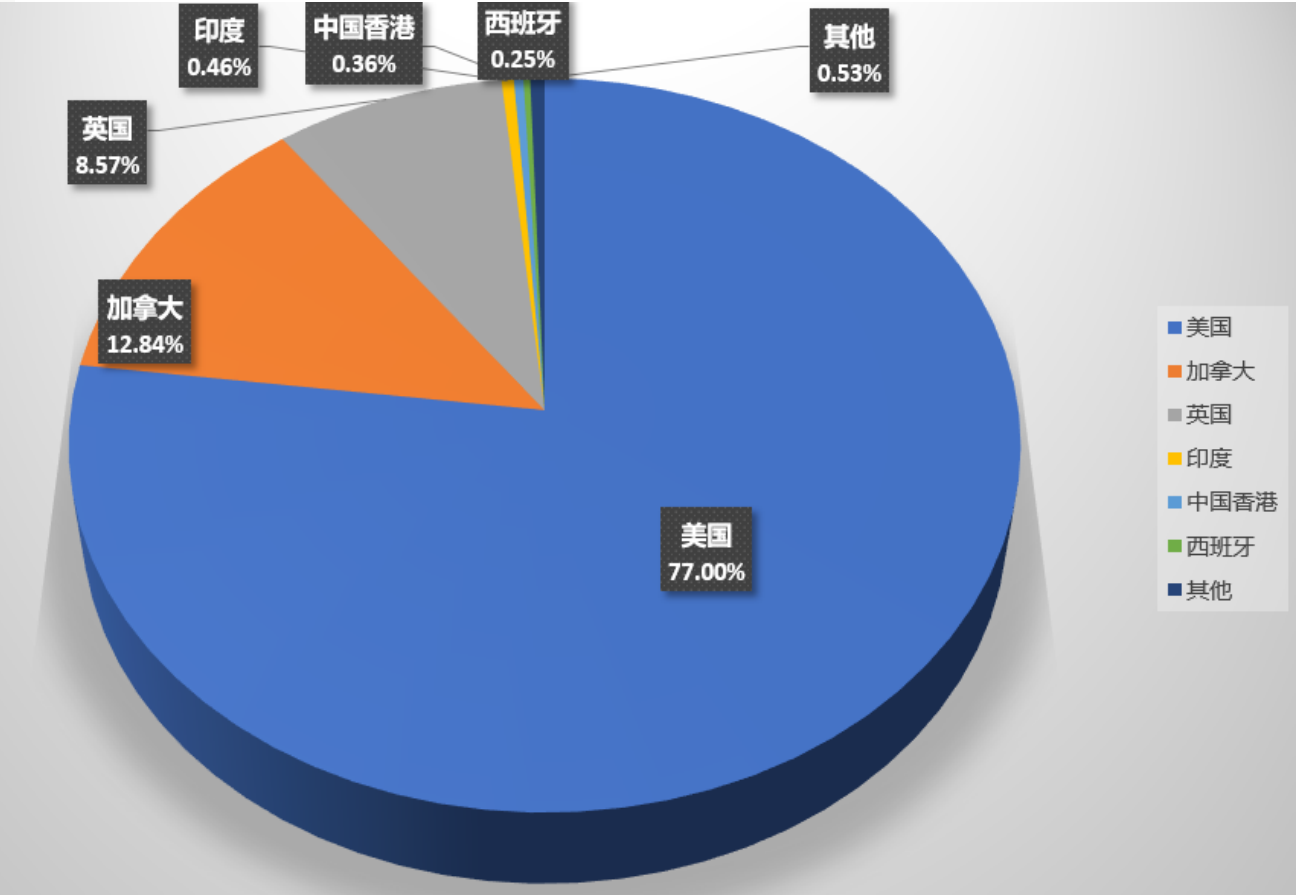
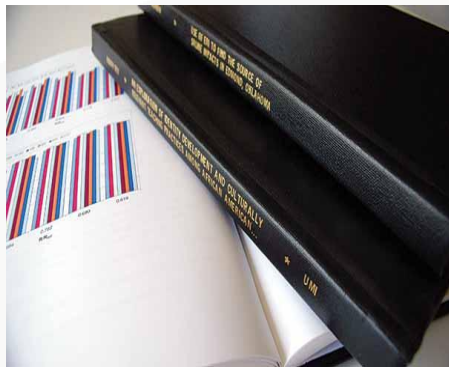
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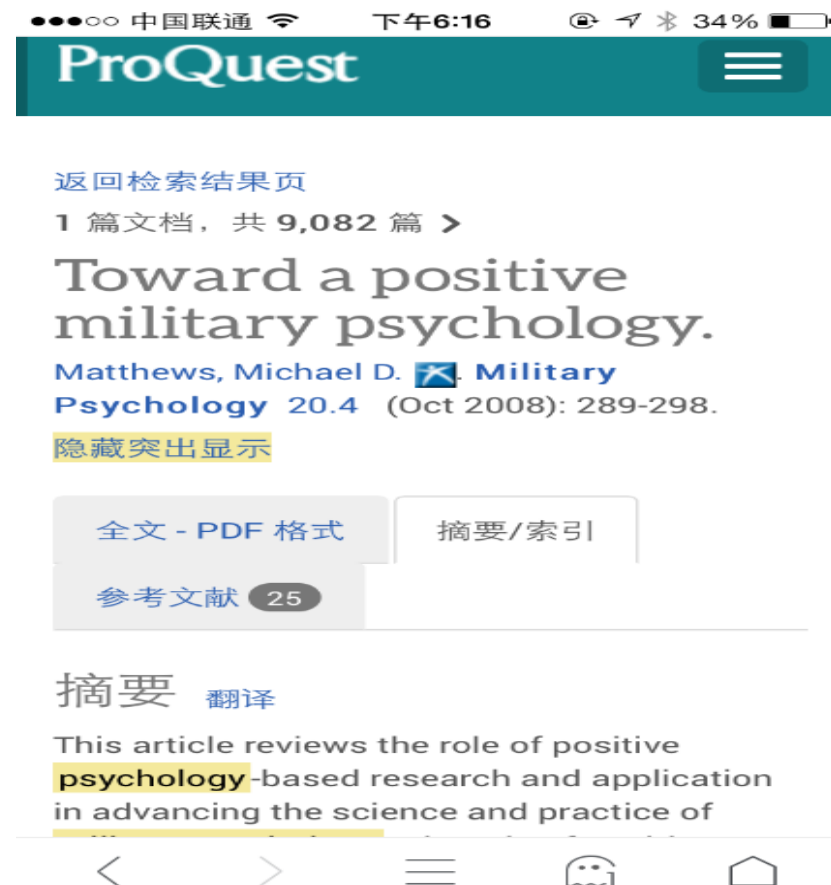
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# 2-1. 检索策略 – 目的

例如节选文章Individual Competencies for Corporate Social Responsibility: A Literature and Practice Perspective

Osagie, E R; Wesselink, R; Blok, V; Lans, T; Mulder, M.

## Materials and Methods

Our first step was to perform a literature review in order to determine the individual CSR-related competencies that have been reported in the scientific literature. This research method uses a reproducible, transparent procedure to identify the sources that will be included in the review and to evaluate what is currently known and reported regarding a certain issue (Fink 2010). The Web of Science database was used as our bibliographic source, as it covers scientific articles from a broad range of scientific disciplines, thus ensuring that the search was sufficiently comprehensive.

目的：获取全面且准确的信息

Table 1 Search terms for competence and CSR/sustainability

Set	Search terms in 'Title' and 'Topic' fields
Competence	Competenc* OR Skill? OR Attitud* OR Knowledge OR Know-how OR 'Job requiremen*' OR Proficienc* OR Experience* OR 'Behavio?r criteri*' OR Qualification? OR power OR abilit* OR expertness OR readiness OR aptitude? OR dexterity* OR facult* OR capabilit* OR efficac* OR forc* OR strength OR capacit* OR efficienc* OR susceptibilit* OR cleverness OR energy OR talent? OR cogenc*
CSR/ sustainability	AND 'Corporate social responsibilit*' OR csr OR 'Social consciousness' OR 'Organi?ational social responsibilit*' OR 'Corporate social performance*' OR csp OR 'Corporate citizenship' OR 'Good corporate governance*' OR 'Ethical organi*ation*' OR 'Inclusive organi?ation*' OR 'Civil organi*ation*' OR 'Organi*ational moral philosophy' OR 'Organi?ational societal responsibilit*' OR 'Organi?ational moral obligation*' OR 'Corporate social responsiveness' OR 'Corporate public responsibilit*' OR 'Business ethic?' OR 'Corporate social investment?' OR 'Triple* bottom* line' OR 'Social action?' OR 'Public policy' OR 'Public policies' OR 'Stakeholder management' OR 'Social license' OR Sustainab*
Other	AND Language = (English) and Document type = all document types <sup>a</sup> AND Year of Publication = 2000-present



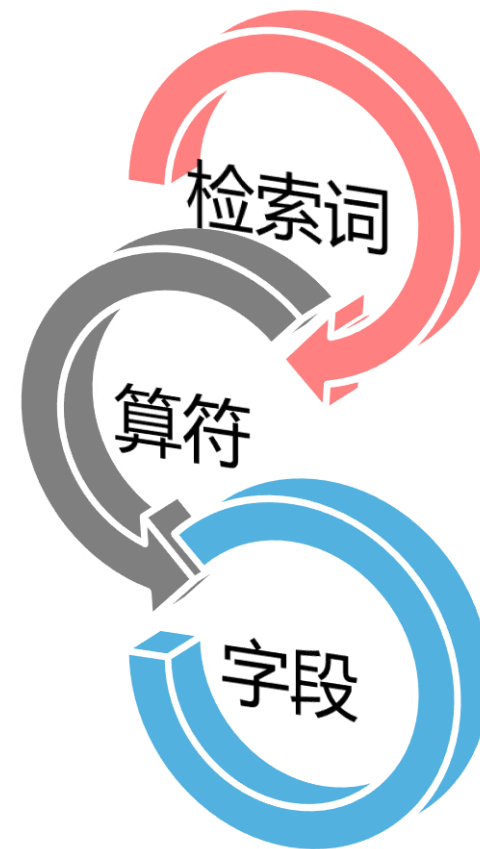
# 检索策略实现的方式：检索三要素

检索策略构成三要素

- 词+算符+字段
- 三个要素影响检准和检全

算符、字段可在线获取

- ProQuest平台上有众多数据库，各数据库的检索字段有可能不同





## 2.2 基本检索 – 全面获取

从一个课题认识检索：Development of Microwave Technology for the Synthesis of Nanomaterials

常见检索方法：Development of Microwave Technology for the Synthesis of Nanomaterials

Materials Science & Engineering Collection

[基本检索](#) [高级检索](#) [出版物](#) | [更改数据库](#)

Development of Microwave Technology for the Synthesis of Nanomaterials



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## 9个单词的逻辑与

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准确性？全面性？

词的拓展：检索结果、综述/系统性分析文献等

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☐ 选择 1-50 0 个所选条目

☐ 1  Preparation and Characterization of MWCNT/Zn<sub>0.25</sub>Co<sub>0.75</sub>Fe<sub>2</sub>O<sub>4</sub> Nanocomposite and Investigation of Its Microwave Absorption Properties Using Silicone Rubber Polymeric Matrix

Peymanfar, Reza; Javanshir, Shahrzad; Naimi-Jamal, Mohammad Reza; Cheldavi, Ahmad; Esmkhani, Maryam. *Journal of Electronic Materials*; Warrendale Vol. 48, Iss. 5, (May 2019): 3086-3095.


...Absorbing materials are an essential component for the reduction of incident...  
...affect the attenuation of microwaves by absorbers. From this observation, in...  
...Investigation of microwave absorption properties was performed by vector network...

摘要/索引  预览 ▼

☐ 2  Synthesis of TiO<sub>2</sub>@ZnIn<sub>2</sub>S<sub>4</sub> Hollow nanospheres with enhanced photocatalytic hydrogen evolution

He, Li; Zi-Hao, Chen; Zhao, Lei; Guo, Dong-Yang. *Rare Metals*; Beijing (Apr 2019): 1-8.

...synthesis process. Its unique hollow structure and type-II heterojunction...  
...transfer paths for the light absorption and charge quick migration. The crystal...  
...the detailed mechanism of the photocatalytic H<sub>2</sub> evolution and charge...

摘要/索引  预览 ▼



# 基本检索 – 全面且准确获取

从一个课题认识检索：Development of Microwave Reactors for the Synthesis of Nanomaterials

课题解析，修改策略

Microwave\*

And (Nanomaterial\* or Nanopowder\* or nanoparticle\* or nanosphere\* or nanocomposite\* or Nano-material\* or Nano-powder\* or nano-particle\* or nano-sphere\* or nano-composite\* or (nano\* near/1 (material\* or powder\* or particle\* or sphere\* or composite\*)))

Materials Science & Engineering Collection

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Microwave\* and (Nanomaterial\* or Nanopowder\* or nanoparticle\* or nanosphere\* or nanocomposite\* or Nano-material\* or Nano-powder\* or nano-particle\* or nano-sphere\* or nano-composite\* or (nano\* near/1 (material\* or powder\* or particle\* or sphere\* or composite\*)))



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23,826 个检索结果

全面和准确！如何提升准确

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1



## A Novel Approach to Enhance High Temperature Thermal Stability of Superparamagnetic Fe<sub>3</sub>O<sub>4</sub> Nanoparticles

Anushree, C; Philip, John. *Journal of Nanoscience and Nanotechnology*; Stevenson Ranch Vol. 19, Iss. 9, (Sep 2019): 5624-5632.

...microwave assisted capping of magnetite nanoparticles with Ag matrix in ethylene...

...magnetite nanoparticles by entrapping them in silver...

...matrix. The oleic acid capped nanoparticles of...

摘要/索引

预览

2



## Effect of Sintering on Di-Electric Characteristics of Al-Cu Doped Cobalt Ferrite Nanoparticles

Dabagh, Shadab; Chaudhary, Kashif; Haider, Zuhaib; Ali, Jalil. *Journal of Nanoscience and Nanotechnology*; Stevenson Ranch Vol. 19, Iss. 7, (Jul 2019): 4142-4146.

...microwave and radio wave absorber applications. ...

...x Fe<sub>2-x</sub>Al<sub>x</sub>O<sub>4</sub>, (x = 0.8) nanoparticles are grown and sintered at different...

...in the range 600 to 900 °C. XRD analysis on nanoparticles prepared at sintered...

摘要/索引

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### 高级检索

命令行

近期检索

词库

字段代码

检索技巧

Microwave\* and (Nanomaterial\* or Nanopowder\* or nanoparticle\* or nanosphere\* or nanocomposite\* or Nano-material\* or Nano-powder\* or nano-particle\* or nano-sphere\* or nano-composite\* or (nano\* near/1 (material\* or powder\* or particle\* or sphere\* or composite\*)))

OR

Microwave\* and (Nanomaterial\* or Nanopowder\* or nanoparticle\* or nanosphere\* or nanocomposite\* or Nano-material\* or Nano-powder\* or nano-particle\* or nano-sphere\* or nano-composite\* or (nano\* near/1 (material\* or powder\* or particle\* or sphere\* or composite\*)))

OR

Microwave\* and (Nanomaterial\* or Nanopowder\* or nanoparticle\* or nanosphere\* or nanocomposite\* or Nano-material\* or Nano-powder\* or nano-particle\* or nano-sphere\* or nano-composite\* or (nano\* near/1 (material\* or powder\* or particle\* or sphere\* or composite\*)))

+ 添加一行 - 删除一行

限定条件: ☐ 全文文献 ☐ 同行评审

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于 文档标题 – TI

于 摘要 – AB

于 所有主题和索引 – SU

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通常综述/系统性分析对应标题、文摘；注：主题是控词，可查词库ProQuest主题

检索

清空检索表格

composite\* or (nano\* near/1 (material\* or powder\* or particle\* or sphere\* or composite\*))) or sa(microwave\* and (nanomaterial\* or nanopowder\* or nanoparticle\* or nanosphere\* or nanocomposite\* or Nano-material\* or Nano-powder\* or nano-particle\* or nano-sphere\* or nano-composite\* or (nano\* near/1 (material\* or powder\* or particle\* or sphere\* or composite\*))))

7,871 个检索结果

继续提升准确

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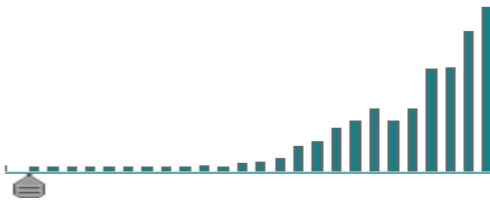
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输入日期范围

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- Journal of Alloys and Compounds (242)
- RSC Advances (242)
- Journal of Materials Science: Materials Electronics (238)
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<input type="checkbox"/>	<input type="checkbox"/>	nanoparticles	2,784
<input type="checkbox"/>	<input type="checkbox"/>	microwaves	2,457
<input type="checkbox"/>	<input type="checkbox"/>	nanocomposites	2,275
<input type="checkbox"/>	<input type="checkbox"/>	nanomaterials	1,922
<input type="checkbox"/>	<input type="checkbox"/>	synthesis	979
<input type="checkbox"/>	<input type="checkbox"/>	scanning electron microscopy	802
<input type="checkbox"/>	<input type="checkbox"/>	microwave absorption	671
<input type="checkbox"/>	<input type="checkbox"/>	carbon	642



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高级检索

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检索字段:

选择运算符



选择字段



添加到表格

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Post-Polymerization Modifications of Polymeric Monolithic Columns: A Review

Currivan, Sinead; Jandera, Pavel. **Chromatography; Basel** Vol. 1, Iss. 1, (2014): 24-53.

...to support cysteamine modification (microwave assisted, 30 min). Disulphide...  
...the addition of structures such as nano-particles and nano-structures. The use...

摘要/索引 全文 - PDF 格式 (787 KB) 引用人 (1) 参考文献 (139)

预览

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Nickel Based Nano Particles as Adsorbents in Water Purification Methods - A Review

Ravindhranath, K; Mylavarapu Ramamoorthy. **Oriental Journal of Chemistry; Bangalore** Vol. 1, Iss. 1, (2013): 160-1613.

...Nanoparticles and their Characterizations Studies," **Nanoscience** and...  
...nano particles using microwave assisted synthesis (Lai et al, 2006, Xu et al,...  
...B., "Microwave assisted greener synthesis of nickel nanoparticles using sodium...

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☐



Metal Matrix Composites Reinforced by Nano-Particles - A Review

Casati, Riccardo; Vedani, Maurizio. **Metals; Basel** Vol. 4, Iss. 1, (2014): 66-69.

...nanoparticles or nanotubes are not yet being employed in relevant commercial...



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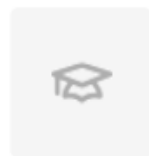
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出版商: Taylor & Francis Ltd.

ISSN: 1045-5752

出版地: Abingdon

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[Discrete Dynamics in Nature and Society; New York](#) [开放阅览](#)

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 提供全文

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ISSN: 1476-1122  
语言: English  
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1. 资源介绍
2. 检索功能
3. 检索结果





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Ravindhranath, K; Mylavarapu Ramamoorthy. **Oriental Journal of Chemistry; Bhopal** Vol. 33, Iss. 4, (2017): 1603-1613.  
... **Nanoparticles** and their Characterizations Studies," **Nanoscience** and...  
... **nano** particles using **microwave** assisted synthesis (Lai et al, 2006, Xu et al.,...  
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(Risk\* or fail\*) and revision and total and ("arthroplasty, replacement, hip" or "Arthroplasty, Hip Replac

66,932 个检索结果

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Revision Total Hip and Total Knee Arthroplasty

1

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PQDT A+B可检索全球430多万篇博硕论文

☐

2

...pain levels after the first revision total hip arthroplasty are generally low...

摘要/索引 全文 - PDF 格式 (401 KB) 参考文献 (31)

☐

3

Obesity and long term functional outcomes following elective total hip replacement

Vincent, Heather K; Horodyski, MaryBeth; Gearen, Peter; Vlasak, Richard; Seay, Amanda N; 等.

Journal of Orthopaedic Surgery and Research; London Vol. 7, (2012): 16.

...in total hip replacementIn Journal of Bone and Joint Surgery British...  
fat adinositv waist circumference total hip replacemnt and hin arthroplastv

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Namazian, Mohammad, DO; Di Cesare, Paul E, MD.  
Curbside Consultation in Knee Arthroplasty . 105-XVII. Thorofare: ...

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...to support cysteamine modification (microwave assisted, 30 min). Disulphide...  
the addition of structures such as nano-particles and nano-structures. The use

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☐ 2 **Nickel Based Nano Particles as Adsorbents in Water Purification Methods - A Review**

Ravindhranath, K; Mylavarapu Ramamoorthy. **Oriental Journal of Chemistry**; Bhopal Vol. 33, Iss. 4, (2017): 1603-1613.

...Nanoparticles and their Characterizations Studies," **Nanoscience** and...  
...nano particles using microwave assisted synthesis (Lai et al, 2006, Xu et al,...  
...B., "Microwave assisted greener synthesis of nickel nanoparticles using sodium...

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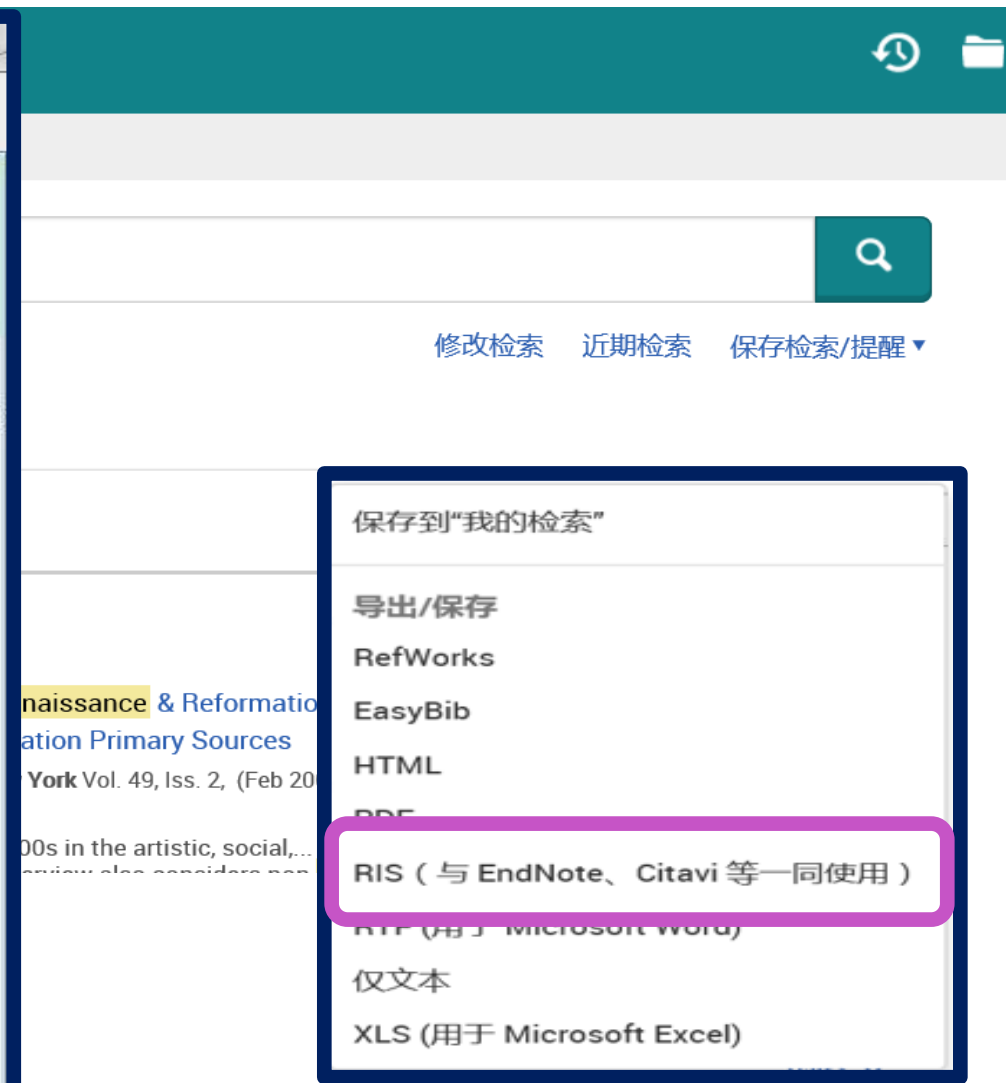
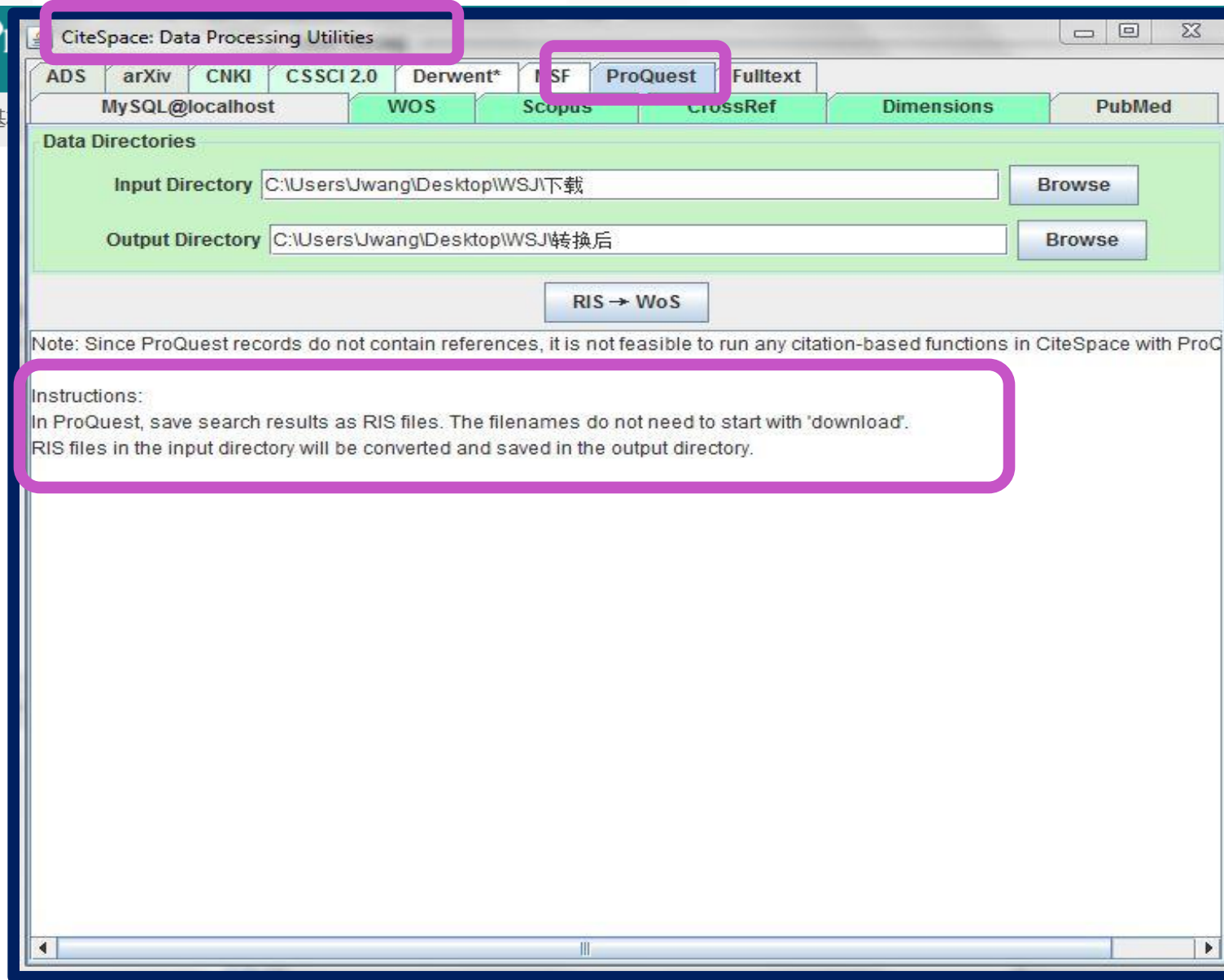
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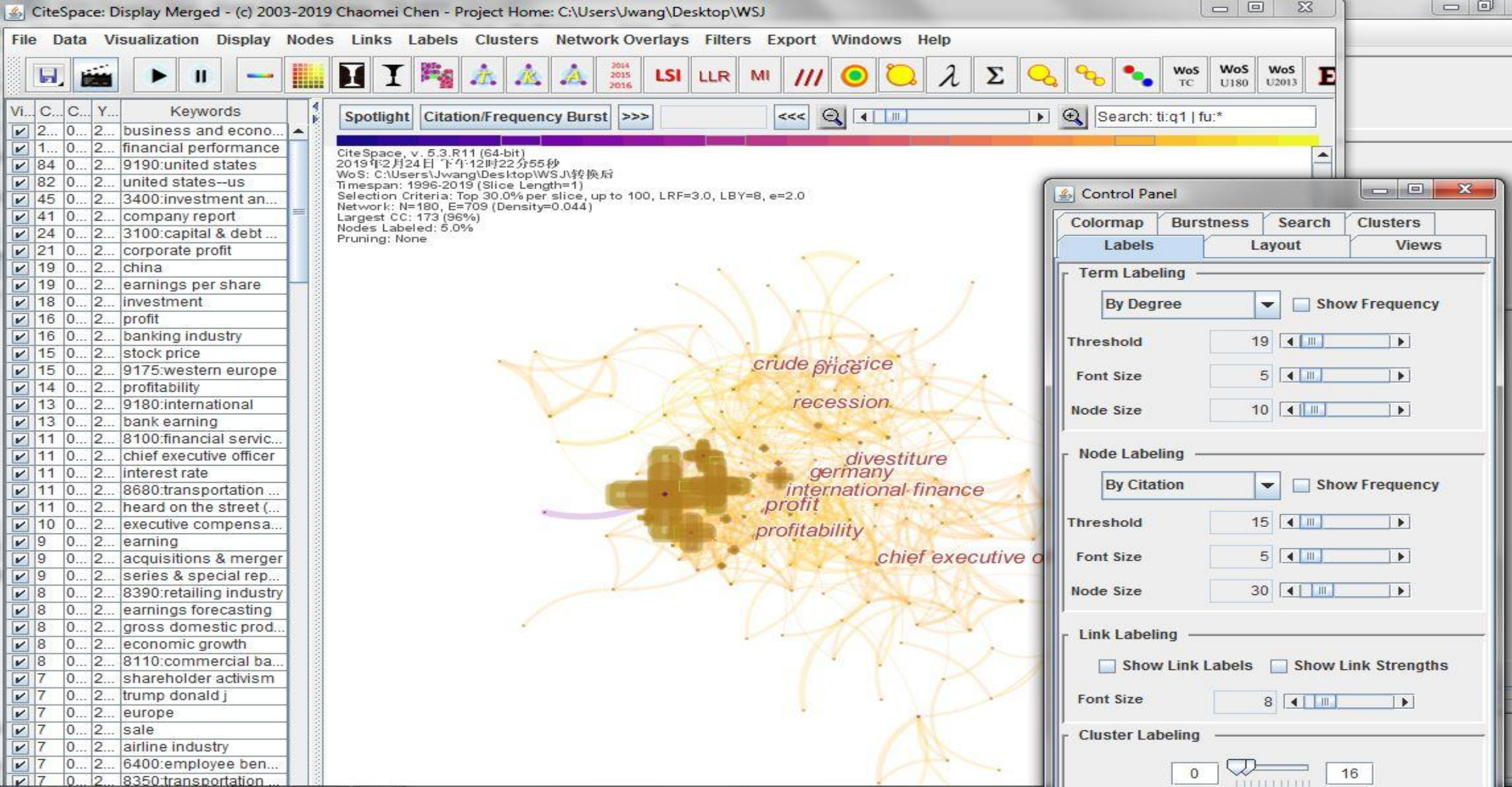
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