

# 文献调研中的信息分析和获取

## ——基于Sci、EI和SciFinder数据库

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厦门大学图书馆

主要内容

1

文献调研

2

文献信息分析的重要性

3

文献信息分析的境界

4

一些实例

厦门大学图书馆“学堂”

# 一. 文献调研

为进行某项科学研究而进行的信息检索、分析和利用活动。  
提高研究起点，提供研究思路，节约研究时间。

毕业论文开题，研究生开题

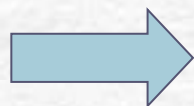
科研选题、立项

撰写学术（学位）论文

撰写文献综述

# 文献调研的重点

**Where**



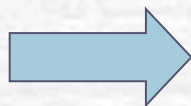
**信息源**

**How**



**方法**

**What (内容)**



**研究主题**

厦门大学图书馆

# 文献调研常用信息源

期刊文献（全文/文摘数据库）

会议文献

专著

学位论文

科技报告

专利文献

标准文献

专业数据库

科研基金信息

团体和个人网页、博客

学术社区、BBS论坛

....

# 文献调研的方法



广调研

特点：尽可能获得研究领域所有文献。

目的：大概了解领域内研究方向和发展趋势，并确定选题。

特点：精和深，根据具体研究做深入检索  
目的：深入了解研究领域重要文献和研究者、研究热点和前沿。

精调研

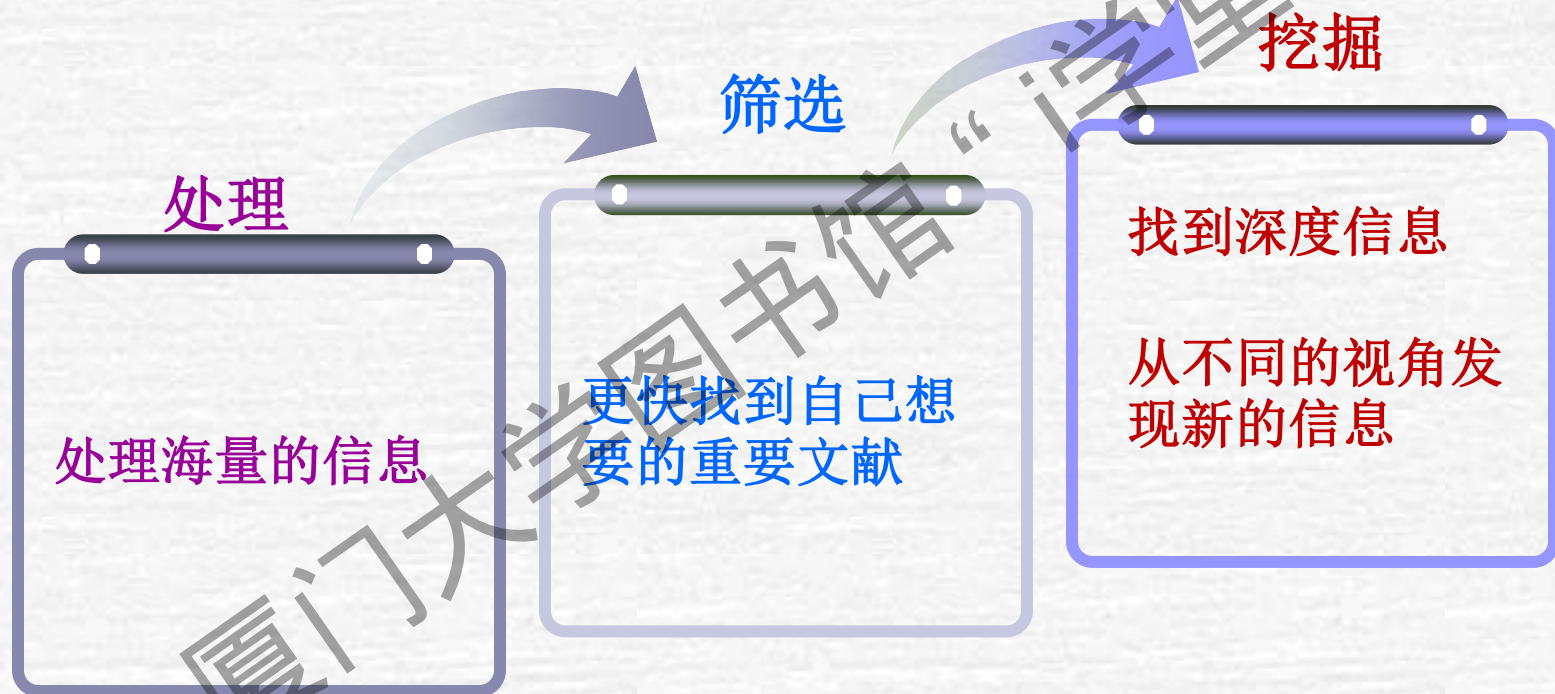
# 文献调研的内容\_研究主题

领域的过去——现在——未来

- 领域的研究历史、重要的理论、技术和方法
- 领域内经典的、重要的及高被引文献的全文
- 领域中高影响力学者的相关信息
- 领域国内的研究现状和水平
- 领域目前的研究趋势和热点
- 领域内的资助基金、投稿期刊等

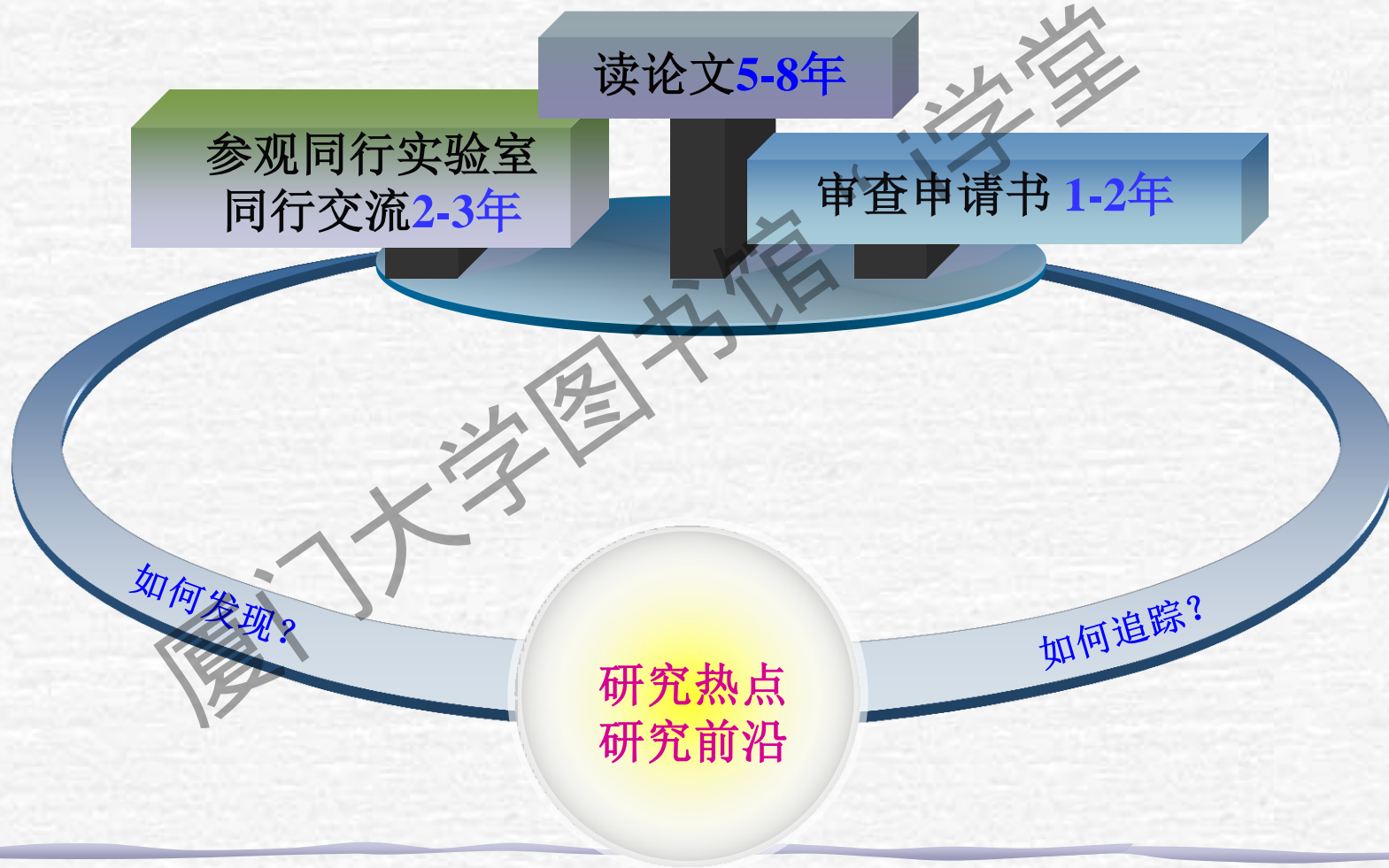
?? 文献的信息分析

## 二、文献信息分析的重要性





# 为何进行文献信息分析？



## 了解领域

轻松查找领域早期、近年和最新的文献，全面了解领域的发展历程、重要理论和方法

## 把握趋势

根据领域内研究方向出现时间、频次及衰减情况，分析出其研究走向和趋势

## 发现热点

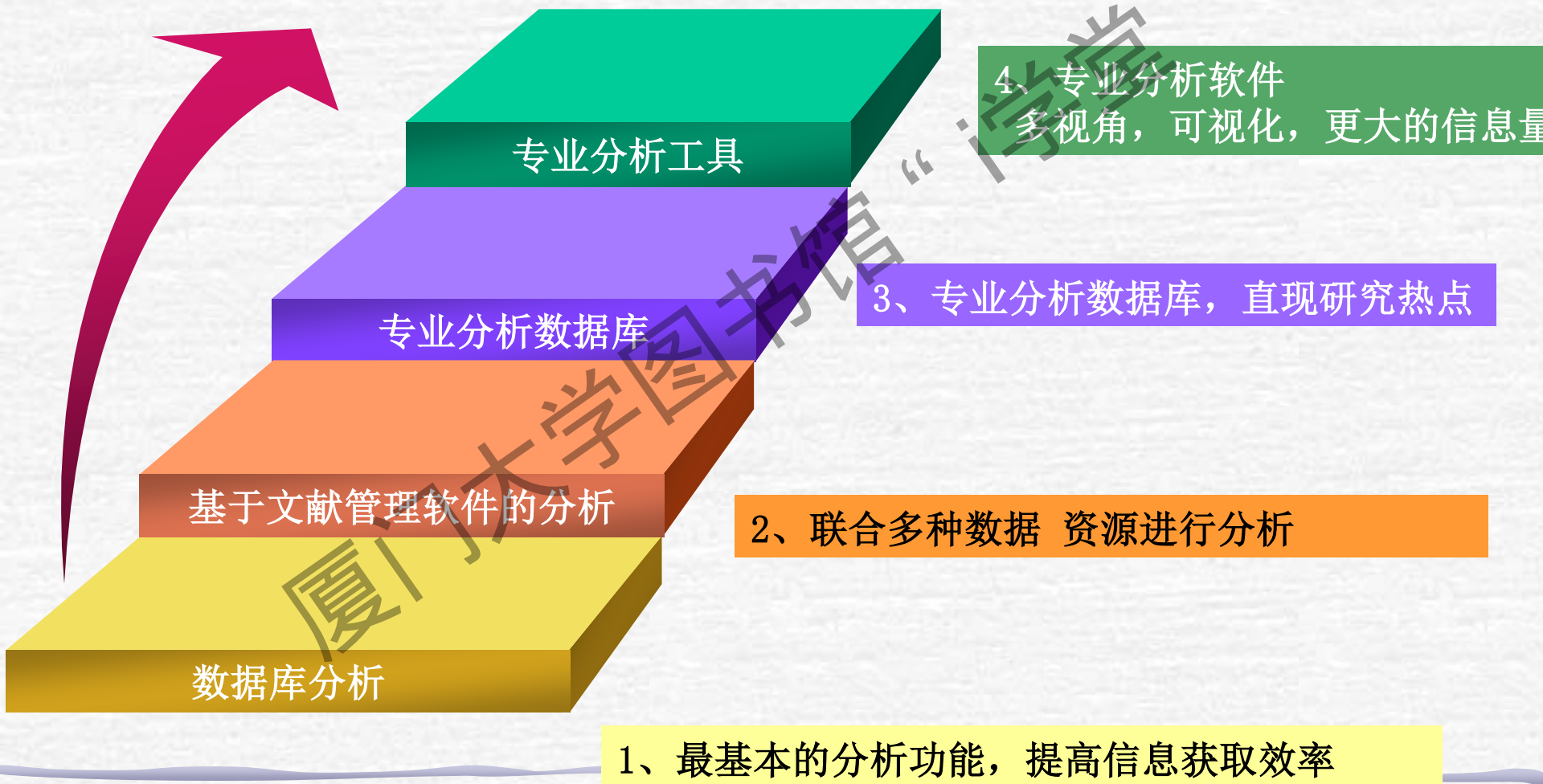
及时找到最新、最热的文献，把握研究热点

## 合作或竞争

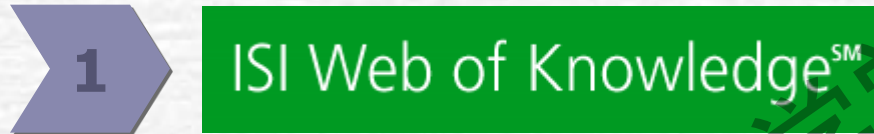
领域内重要作者和机构

# 三、文献信息分析的境界

您处于哪个？



# 1、基于文献数据库的信息分析



## 2、基于文献管理软件的信息分析

Endn

NotEx

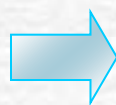
ote

CNKI数字化学习与研究平台  
(E-Study 原E-Learning)

press

# 文献管理软件——工具分析

不同数据库  
检索结果



EndNote



Subject

bibliography

Selected Terms	# Records
Yeaman, M. R.	10
Bayer, A. S.	9
Peschel, A.	6
Sahl, H. G.	6
Dale, B. A.	6
Brogden, K. A.	6
Thevissen, K.	5
Schroder, J. M.	5
Staubitz, S.	5
Xiong, Y. Q.	5
Platonova, T. A.	4
Maisetta, G.	4
Jones, T.	4
Lehrer, R. I.	4
Cammue, B. P. A.	4
Yu, P. L.	4
Jepsen, S.	4
Batoni, G.	4
Proctor, R. A.	4
Boniotto, M.	4

作者

Selected Terms	# Records
2009	43
2006	38
2008	31
2007	30
2005	29
2004	24
2003	22
1999	8
2001	6
2002	6
2000	7
1996	6
1995	4
1991	3
1994	2
1997	2
1990	1
1992	1
1993	1
1998	1

发表年代

Selected Terms	# Records
antimicrobial peptides	72
innate immunity	50
expression	35
defensins	29
peptides	28
epithelial-cells	27
beta-defensins	26
host-defense	26
Escherichia coli	24
human	24
cells	22
defensin	21
human beta-defensin-2	19
gene	18
antimicrobial peptide	17
immunity	17
beta-defensin-2	16
cell-like receptors	15
nf-kappa-b	15
Staphylococcus aureus	15
vitro	14

关键词

### 3、专业分析数据库

**Incit**

**ESI**

es

**SciVal**

厦门大学图书馆

## 4、基于专业软件的文献分析

**CITESPA**

**QJQ**

**HisCi**

SA  
社会网络分析软件Ucinet

**Bibexcel**

**Publish or**

**perish**



## 四、一些实例

### 实例1：利用EI发现热点

#### ——利用一些特殊字段及年代变化情况分析

- 案例：Wastewater Treatment
- 检索数据库：EI
- 检索方式：快速检索(Quick Search)
- 检索字段：Subject/Title/Abstract (主题词/标题/摘要)
- 检索词：Wastewater Treatment

**Quick Search**

[Expert Search](#)

[Thesaurus Search](#)

[Search History](#)

[Databases](#) | [Search tips](#)

**DATABASE**

Compendex

**SEARCH FOR**

"Wastewater Treatment"

in **Subject/Title/Abstract**

AND ▼

in **All fields**

AND ▼

in **All fields**

[Turn Off AutoSuggest](#)



[Add search field](#)

**Search**

**ADVANCED OPTIONS** ▾

**LIMIT TO** ⓘ

All document types ▼

All treatment types ▼

All Languages ▼

1969 ▼ **TO** 2016 ▼

1 ▼ Updates

**SORT BY** ⓘ

Relevance  Date (Newest)

Autostemming off

**Search**

**Reset**

# 1.利用Refine results可以精炼和分析检索结果

Search | Selected records | Settings | Tags & Groups

Quick Search  
60980 articles found in Compendex for 1969-2016: (("Wastewater Treatment") WN KY)

New Search | Edit | Save Search | Create Alert | RSS feed | Search history

Display: 25 results per page

Select: Selected Records (0) | Remove all Selected Records  
Email | Print | Download

**Refine results**

Limit to | Exclude

Add a term

Controlled vocabulary

- Wastewater Treatment (48577)
- Wastewater (14918)
- Effluents (8996)
- Water Treatment Plants (6894)
- Chemical Oxygen Demand (6019)

View more

**Author**

- Peng, Yongzhen (146)
- Yu, Han Qing (117)
- Zheng, Ping (105)
- Van, Loosdrecht M. C. M. (102)
- Zhang, Jie (101)

View more

**Author affiliation**

- School Of Municipal And Environmental Engineering, Harbin Institute Of Technolo... (354)
- State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute

1. **Wastewater treatment in microbial fuel cells - an overview**  
Gude, Veera Ganeswar (Department of Civil and Environmental Engineering, Mississippi State University, Mississippi State, MS 39762, U  
Article in Press  
Database: Compendex  
Detailed | Show preview | Full Text | S-F-X

2. **Beyond the conventional life cycle inventory in wastewater treatment plants**  
Lorenzo-Toja, Yago (Department of Chemical Engineering, Institute of Technology, University of Santiago de Compostela, Santiago de Cor  
Xavier Marin Desirée Moreira, María Teresa Feijóo, Gumersindo. Source: Science of the Total Environment, v 553, p 71-82, May 15, 2016

3. **Phthalate esters in the environment: A critical review of their occurrence, biodegradation, and removal dur**  
Gao, Da-Wen (State Key Laboratory of Urban Water Resource and Environment, Harbin Institute of Technology, Harbin, China); Wen, Zhi-D  
Database: Compendex  
Detailed | Show preview | Cited by in Scopus (1) | Full Text | S-F-X

4. **Water treatment plants**  
ation Districts of Los Angeles County, 1965 South Workman Mill Roa  
v 91, p 174-182, March 15, 2016  
Database: Compendex  
Detailed | Show preview | Full Text | S-F-X

5. **Comparative analysis of effluent water quality from a municipal treatment plant and two on-site wastewater t**

发现研究领域高产出和最活跃的学者

发现领域内权威研究机构

Country	
<input type="checkbox"/> China	(11596)
<input type="checkbox"/> United States	(10016)
<input type="checkbox"/> Spain	(2917)
<input type="checkbox"/> Canada	(2376)
<input type="checkbox"/> Germany	(2153)
<a href="#">View more</a>	
Document type	
<input type="checkbox"/> Journal article	(43806)
<input type="checkbox"/> Conference article	(13434)
<input type="checkbox"/> Conference proceeding	(519)
<input type="checkbox"/> Article in Press	(492)
<input type="checkbox"/> Dissertation	(171)
<a href="#">View more</a>	
Language	
Year	
<input type="checkbox"/> 2016	(1613)
<input type="checkbox"/> 2015	(3927)
<input type="checkbox"/> 2014	(3820)
<input type="checkbox"/> 2013	(3264)
<input type="checkbox"/> 2012	(3045)
<a href="#">View more</a>	
Source title	
<input type="checkbox"/> Water Science And Technology	(6659)
<input type="checkbox"/> Water Research	(3143)
<input type="checkbox"/> Bioresource Technology	(1969)
<input type="checkbox"/> Journal Of Hazardous Materials	(1568)
<input type="checkbox"/> Desalination	(1469)
<a href="#">view more</a>	
Publisher	
<input type="checkbox"/> Elsevier Ltd	(8477)
<input type="checkbox"/> Elsevier	(7990)
<input type="checkbox"/> Iwa Publishing	(4218)
<input type="checkbox"/> American Chemical Society	(1669)
<input type="checkbox"/> Ieee Computer Society	(1244)

发现领域内研究最热的**国家**

会议论文、专题论文、专题综述、专题报告、综述报告、未出版文献、学位论文，**快捷获得领域最新研究进展**

领域每年出版的论文数和**研究趋势**

发现领域内**核心期刊**

了解领域内**核心出版机构**

## 受控词

### Controlled vocabulary

- Wastewater Treatment (48690)
- Wastewater (14925)
- Effluents (9023)
- Water Treatment Plants (6901)
- Chemical Oxygen Demand (6034)
- Wastewater Reclamation (5845)
- Bioreactors (4592)
- Chemicals Removal (Water Treatment) (4309)
- Activated Sludge Process (3969)
- Water Quality (3803)

[View more](#) | [View fewer](#)

### Author

### Author affiliation

### Classification code

- Industrial Wastes Treatment and Disposal (42158)
- Chemical Operations (18492)
- Chemical Products Generally (18020)
- Industrial Wastes (17754)
- Chemical Reactions (16984)
- Organic Compounds (13864)
- Water Treatment Techniques (12060)
- Sewage Treatment (11954)
- Water Pollution (10769)
- Municipal and Industrial Wastes; Waste Treatment and Disposal (9804)

[View more](#) | [View fewer](#)

是EI对文章进行主题分类后给出的检索标识，规范化处理

发现“污水处理”热门的研究方向

## 分类码

按EI分类体系分类标引，划分6大类，186个二级类目，二级类目又划分若干小类。

污水处理领域主流研究学科和交叉研究学科，及时获知各学科方向的最新研究进展。

发现“污水处理”在哪些学科领域展开研究

## 2. 利用不同年代受控词或学科分类的变化

### Quick Search

Expert Search

Thesaurus Search

Search History (1)

DATABASE

Compendex

SEARCH FOR

"Wastewater Treatment"

in

Subject/Title/Abstract

AND ▼

in

All fields

AND ▼

in

All fields

Turn Off AutoSuggest ⓘ



Add search field

Search

### ADVANCED OPTIONS

LIMIT TO ⓘ

All document types ▼

All treatment types ▼

All Languages ▼

2011 ▼

TO

2011 ▼

Updates

查询近五年污水处理领域的文献

Autostemming off

Search

Reset

# 对比2011—2015的变化情况，发现新热点及新出现的学科研究领域

Controlled vocabulary	
<input type="checkbox"/> <b>Wastewater Treatment</b>	(3640)
<input type="checkbox"/> Wastewater	(3392)
<input type="checkbox"/> Water Treatment Plants	(1076)
<input type="checkbox"/> Effluents	(1003)
<input type="checkbox"/> Sewage	(529)
<input type="checkbox"/> Biological Water Treatment	(450)
<input type="checkbox"/> Chemicals Removal (Water Treatment)	(396)
<input type="checkbox"/> Nitrogen Removal	(395)
<input type="checkbox"/> Effluent Treatment	(367)
<input type="checkbox"/> Adsorption	(364)
<a href="#">View more</a>   <a href="#">View fewer</a>	
Author	
Author affiliation	
Classification code	
<input type="checkbox"/> Industrial Wastes Treatment and Disposal	(2483)
<input type="checkbox"/> Industrial Wastes	(2283)
<input type="checkbox"/> Chemical Products Generally	(1555)
<input type="checkbox"/> Chemical Operations	(1298)
<input type="checkbox"/> Chemical Reactions	(1255)
<input type="checkbox"/> Municipal and Industrial Wastes, Waste Treatment and Disposal	(1188)
<input type="checkbox"/> Water Supply Systems	(1106)
<input type="checkbox"/> Organic Compounds	(1079)
<input type="checkbox"/> Water Resources	(668)
<input type="checkbox"/> Water Treatment Techniques	(602)
<a href="#">View more</a>   <a href="#">View fewer</a>	

2011

Controlled vocabulary	
<input type="checkbox"/> <b>Wastewater Treatment</b>	(3887)
<input type="checkbox"/> Effluents	(910)
<input type="checkbox"/> Water Treatment	(850)
<input type="checkbox"/> <b>Chemical Oxygen Demand</b>	(445)
<input type="checkbox"/> Nitrogen Removal	(422)
<input type="checkbox"/> Chemicals Removal (Water Treatment)	(389)
<input type="checkbox"/> <b>Bacteria</b>	(389)
<input type="checkbox"/> Biological Water Treatment	(352)
<input type="checkbox"/> <b>Reclamation</b>	(347)
<input type="checkbox"/> Nitrogen	(340)
<a href="#">View more</a>   <a href="#">View fewer</a>	
Author	
Author affiliation	
Classification code	
<input type="checkbox"/> Industrial Wastes Treatment and Disposal	(3041)
<input type="checkbox"/> Chemical Products Generally	(1607)
<input type="checkbox"/> Chemical Reactions	(1139)
<input type="checkbox"/> Water Treatment Techniques	(1127)
<input type="checkbox"/> Chemical Operations	(1049)
<input type="checkbox"/> Organic Compounds	(991)
<input type="checkbox"/> Industrial Wastes	(747)
<input type="checkbox"/> <b>Chemical Agents and Basic Industrial Chemicals</b>	(680)
<input type="checkbox"/> <b>Materials Science</b>	(568)
<input type="checkbox"/> Chemistry	(550)
<a href="#">View more</a>   <a href="#">View fewer</a>	

2015

## 实例2：利用SciFinder发现热点

案例：artemisinin青蒿素

The screenshot displays the SciFinder interface. At the top, the SciFinder logo is visible, along with navigation tabs for 'Explore', 'Saved Searches', and 'SciPlanner'. The breadcrumb trail indicates the search path: 'Substance Identifier "artemisinin" > substances (1) > 63968-64-9'. On the left sidebar, the 'SUBSTANCES' category is selected, with 'Substance Identifier' highlighted. The main search area is titled 'SUBSTANCES: SUBSTANCE IDENTIFIER' and contains a search input field with 'artemisinin' entered. Below the input field, instructions state 'Enter one per line.' and provide examples: '50-00-0', '999815', and 'Acetaminophen'. A blue 'Search' button is positioned at the bottom of the search area.

Substance Identifier "artemisinin" > substances (1) > 63968-64-9

**REFERENCES**

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

**SUBSTANCES**

- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier**

**REACTIONS**

- Reaction Structure

**SUBSTANCES: SUBSTANCE IDENTIFIER**

artemisinin

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

**Search**



SUBSTANCE DETAIL ?

Get References

Get Reactions

Get Commercial Sources

Return

CAS Registry Number 63968-64-9

~4,276  ~116  

**C<sub>15</sub> H<sub>22</sub> O<sub>5</sub>**

3,12-Epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one, octahydro-3,6,9-trimethyl-, (3*R*,5*aS*,6*R*,8*aS*,9*R*,12*S*,12*aR*)-

**Molecular Weight**

282.33

**Melting Point (Experimental)**

Value: 156-157 °C

**Boiling Point (Predicted)**

Value: 389.9±42.0 °C | Condition: Press: 760 Torr

**Density (Experimental)**

Value: 1.300 g/cm<sup>3</sup>

**Other Names**

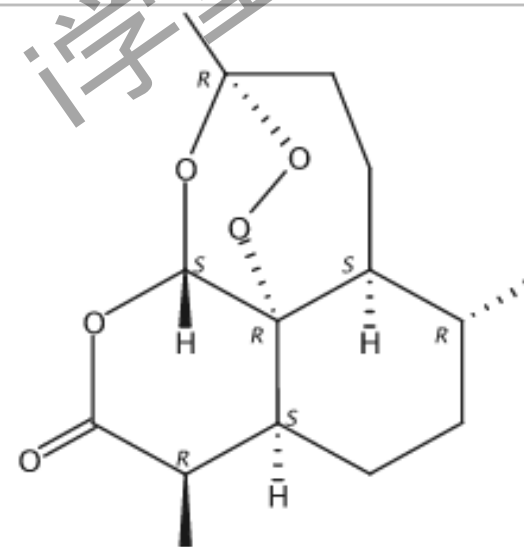
3,12-Epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one, octahydro-3,6,9-trimethyl-, [3*R*-(3*α*,5*aβ*,6*β*,8*aβ*,9*α*,12*β*,12*aR*<sup>\*</sup>)]-(3*R*,5*aS*,6*R*,8*aS*,9*R*,12*S*,12*aR*)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one

(+)-Arteannuin

(+)-Artemisinin


(+)-Qinghaosu


[View more...](#)



Absolute stereochemistry.

SUBSTANCE DETAIL ?

 Get References

 Get Reactions

 Get Commercial Sources

 Return

CAS Registry Number 63968-64-9

~4,276   ~116 

**C<sub>15</sub>H<sub>22</sub>O<sub>5</sub>**

3,12-Epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one octahydro-3,6,9-trimethyl-, (3*R*,5*aS*,6*R*,8*aS*,9*R*,12*S*,12*aR*)-

**Molecular Weight**

282.33

**Melting Point (Experimental)**

Value: 156-157 °C

**Boiling Point (Predicted)**

Value: 389.9±42.0 °C | Condition: Press: 760 Torr

**Density (Experimental)**

Value: 1.300 g/cm<sup>3</sup>

**Other Names**

3,12-Epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one octahydro-3,6,9-trimethyl-, [3*R*-(3*α*,5*aβ*,6*β*,8*aβ*,9*α*,12*β*,12*aR*<sup>\*</sup>)]-(3*R*,5*aS*,6*R*,8*aS*,9*R*,12*S*,12*aR*)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one

(+)-Arteannuin

(+)-Artemisinin

(+)-Qinghaosu

[View more...](#)

### Get References

#### Limit results to:

- |   |   |
|---|---|
| <input type="checkbox"/> Adverse Effect, including toxicity | <input type="checkbox"/> Preparation          |
| <input type="checkbox"/> Analytical Study                   | <input type="checkbox"/> Process              |
| <input checked="" type="checkbox"/> Biological Study        | <input type="checkbox"/> Properties           |
| <input type="checkbox"/> Combinatorial Study                | <input type="checkbox"/> Prophetic in Patents |
| <input type="checkbox"/> Crystal Structure                  | <input type="checkbox"/> Reactant or Reagent  |
| <input type="checkbox"/> Formation, nonpreparative          | <input type="checkbox"/> Spectral Properties  |
| <input type="checkbox"/> Miscellaneous                      | <input type="checkbox"/> Uses                 |
| <input type="checkbox"/> Occurrence                         |   |

#### For each sequence, retrieve:

- Additional related references, e.g., activity studies, disease studies.

Get

Cancel

Explore ▾

Saved Searches ▾

SciPlanner

Substance Identifier "artemisinin" > substances (1) > 63968-64-9 > get references (5279)

REFERENCES ?

Get Substances

Get Reactions

Get Related Citations ▾

Tools ▾

Analyze Refine **Categorize** Categorize ?

Analyze by: ?

Author Name ▾

White Nicholas J 80

Posner Gary H 53

Dondorp Arjen M 50

Nosten Francois 45

Haynes Richard K 44

Meunier Bernard 44

Tang Kexuan 44

O'Neill Paul M 40

Avery Mitchell A 39

Robert Anne 38

1. Select a heading and category.

2. Select index terms of interest.

Category Heading	Category	Index Terms	Selected Terms
All	<b>Substances in medicine (30048)</b>	◀ Page: 1 of 301 ▶▶ Select All Deselect All	
General chemistry	Medicine (2692)	<input type="checkbox"/> Artemisinin 2325	
<b>Biotechnology</b>	Agriculture (472)	<input type="checkbox"/> Chloroquine 578	
Biology	Substances in adverse effects (1194)	<input type="checkbox"/> Artesunate 507	
Physical chemistry	Substances in biological uses (1050)	<input type="checkbox"/> Artemether 442	
Synthetic chemistry	Food (273)	<input type="checkbox"/> Dihydroartemisinin 395	
Genetics & protein chemistry	Substances in agriculture (400)	<input type="checkbox"/> Mefloquine 393	
Polymer chemistry	Toxicology & forensics (114)	<input type="checkbox"/> Quinine 347	
Technology	Substances in food chemistry (259)	<input type="checkbox"/> Pyrimethamine 256	
Analytical chemistry		<input type="checkbox"/> Amodiaquine 250	
Catalysis		<input type="checkbox"/> Primaquine 211	
Environmental chemistry		<input type="checkbox"/> Arteether 204	
		<input type="checkbox"/> Lumefantrine 177	
		<input type="checkbox"/> Sulfadoxine 177	
		<input type="checkbox"/> Atovaquone 149	
		<input type="checkbox"/> Proguanil 118	
		<input type="checkbox"/> Halofantrine 113	

Biotechnology > Substances in medicine

Show More

OK

Cancel

# SciFinder的分析字段

Explore

Saved Searches

SciPlanner

**REFERENCES**

Analyze

Refine

Categorize

Analyze by:

Author Name

White Nicholas J 180

Posner Gary H 127

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Meunier Bernard 68

Efferth Thomas 67

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 1. **Artemether for inhibiting proliferation and invasion via the mediation of peroxisome proliferator-activated**
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By Fu, Fenglian; Jiang, Yongxin; Cheng, Yin; Liu, Shan; Wang, Hong

From *Guoji Zhongliuxue Zazhi* (2015), 42(6), 401-406. | Language: Chinese, Database: CAPLUS

The objective was to investigate the inhibitory effect of artemether (ARE), one of **artemisinin** derivs., on the gro of ARE on proliferation of LLCs were evaluated by MTT. The invasiveness was detected by Transwell invasion as: y(PPARy)] and GW9662+ARE group. The expression levels of PPARy, NF-κB p65, Caspase-3 mRNA and protein in

 2. **Investigating the mechanism of heme-activated artemisin metabolites through a lipid-based in vitro assay**
[Quick View](#) [Other Sources](#)

By Guerrero Nava, Fernando; Hartwig, Carmony

From Abstracts of Papers, 251st ACS National Meeting &amp; Exposition, San Diego, CA, United States, March 13-17, 2016 (2

Malaria, caused by Plasmodium parasites, is a devastating disease that is compounded by the growing emergenc deployed, the endoperoxide antimalarial **artemisinin** is highly efficacious, yet the mechanism of action remains u vacuole-assocd. neutral lipid bodies of P. falciparum and application of **artemisinin** results in the oxidn. of a fluore

 3. **Diastereoselective one-pot synthesis of endoperoxide containing 1,2,4-dioxazinanes**
[Quick View](#) [Other Sources](#)

By Abdel, Mahmoud; Marfatia, Rushad; Sharma, Harsh; Rubush, David

From Abstracts of Papers, 251st ACS National Meeting &amp; Exposition, San Diego, CA, United States, March 13-17, 2016 (2

Mols. contg. endoperoxides such as **artemisinin** are currently the frontline treatment for malaria. Malaria par importance. Endoperoxide contg. 1,2,4- dioxazinanes are a relatively unknown class of heterocycles and the dioxazinanes were synthesized from peroxyquinols, aldehydes and alkyl amines. The products were formed in hig

 4. **Environmentally benign synthesis of potential antimalarial 1,2,4-dioxazinanes**

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## REFERENCES ?

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Company-Organization

Chinese Academy of Sciences, Peop Rep China	135
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Shanghai Jiao Tong University, Peop Rep China	39
The Johns Hopkins University, USA	36
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Artemisinins	2594
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Plasmodium falciparum	2313
*Artemisinins	2266
Malaria	2227
*Antimalarials	2159
Drug Therapy	1772
Human	1757
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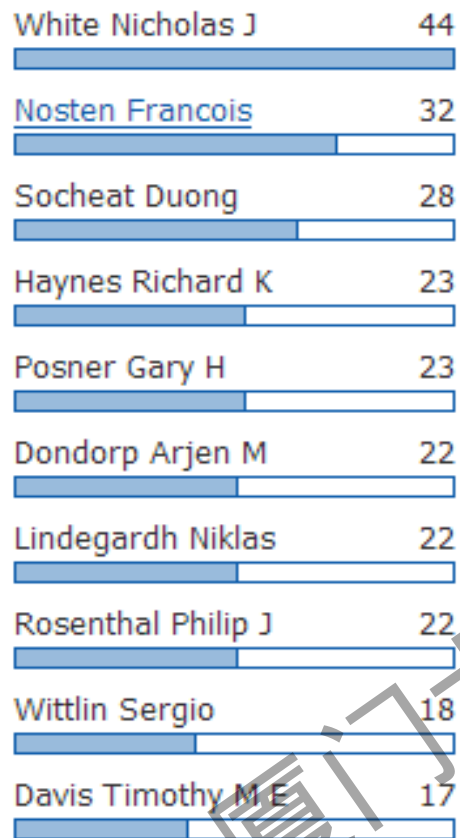
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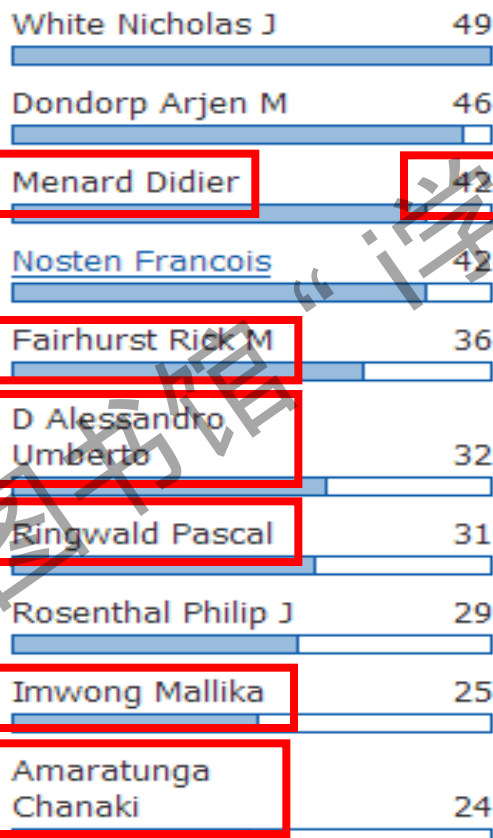
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JOURNAL ARTICLE	3851
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REVIEW	561
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思路：从近几年新出现的核心作者去发现研究热点



2010-2012



2013-2015

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Artemisinins 20

\*Antimalarials 19

drug effects 19

Humans 19

Plasmodium falciparum: DE, drug effects 19

\*Artemisinins 18

Drug resistance 18

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1. Clinical determinants of early parasitological response to ACTs in African patients with uncomplicated falciparum malaria: a literature review and meta-analysis of individual patient data

Quick View   Other Sources

By Abdulla, Salim; Adam, Ishag; Adjei, George O.; Adjuik, Martin A.; Alemayehu, Berekat; Allan, Richard; Arinaitwe, Emmanuel; Ashley, Elizabeth A.; Ba, Mamadou S.; Barennes, Hubert; et al  
From BMC Medicine (2015), 13, 212/1-212/16. | Language: English, Database: CAPLUS

Background: **Artemisinin**-resistant Plasmodium falciparum has emerged in the Greater Mekong sub-region and poses a major global public health threat. Slow parasite clearance is a key clin. manifestation of reduced susceptibility to **artemisinin**. This study was designed to establish the baseline values for clearance in patients from Sub-Saharan African countries with uncomplicated malaria treated with **artemisinin**-based combination therapies (ACTs). Methods: A literature review in PubMed was conducted in March 2013 to identify all prospective clin. trials (uncontrolled trials, controlled trials ...

2. Novel cross-border approaches to optimise identification of asymptomatic and artemisinin-resistant plasmodium infection in mobile populations crossing Cambodian borders

Quick View   Other Sources

By Edwards, Hannah M.; Canavati, Sara E.; Rang, Chandary; Ly, Po; Sovannaroth, Siv; Canier, Lydie; Khim, Nimol; Menard, Didier; Ashton, Ruth A.; Meek, Sylvia R.; et al  
From PLoS One (2015), 10(9), e0124300/1-e0124300/12. | Language: English, Database: CAPLUS

Background Human population movement across country borders presents a real challenge for malaria control and elimination efforts in Cambodia and its neighboring countries. To quantify Plasmodium infection among the border-crossing population, including asymptomatic and **artemisinin** resistant (AR) parasites, three official border crossing points, one from each of Cambodia's borders with Thailand, Laos and Vietnam, were selected for sampling. Methods and Findings A total of 3206 participants (of 4110 approached) were recruited as they crossed the border, tested for malaria and interviewed. By...

3. Evidence of Plasmodium falciparum multidrug resistance to artemisinin and piperazine in Western Cambodia: dihydroartemisinin-piperazine open-label multicenter clinical assessment

Quick View   Other Sources

By Leang, Rithea; Taylor, Walter R. J.; Bouth, Denis Mey; Song, Lijiang; Tarning, Joel; Char, Meng Chuur; Kim, Saorin; Witkowski, Benoit; Duru, Valentine; Domergue, Anais; et al  
From Antimicrobial Agents and Chemotherapy (2015), 59(8), 4719-4726. | Language: English, Database: CAPLUS

Western Cambodia is recognized as the epicenter of Plasmodium falciparum multidrug resistance. Recent reports of the efficacy of dihydroartemisinin (DHA)-piperazine (PP), the latest of the **artemisinin**-based combination therapies (ACTs) recommended by the WHO, have prompted further investigations. The clin. efficacy of dihydroartemisinin-piperazine in uncomplicated falciparum malaria was assessed in western and eastern Cambodia over 42 days. Day 7 plasma piperazine concns. were measured and day 0 isolates tested for in vitro susceptibilities to piperazine and mefloquine, polymorphisms in...

4. Molecular markers of artemisinin resistance in the K13 propeller protein gene of Plasmodium falciparum

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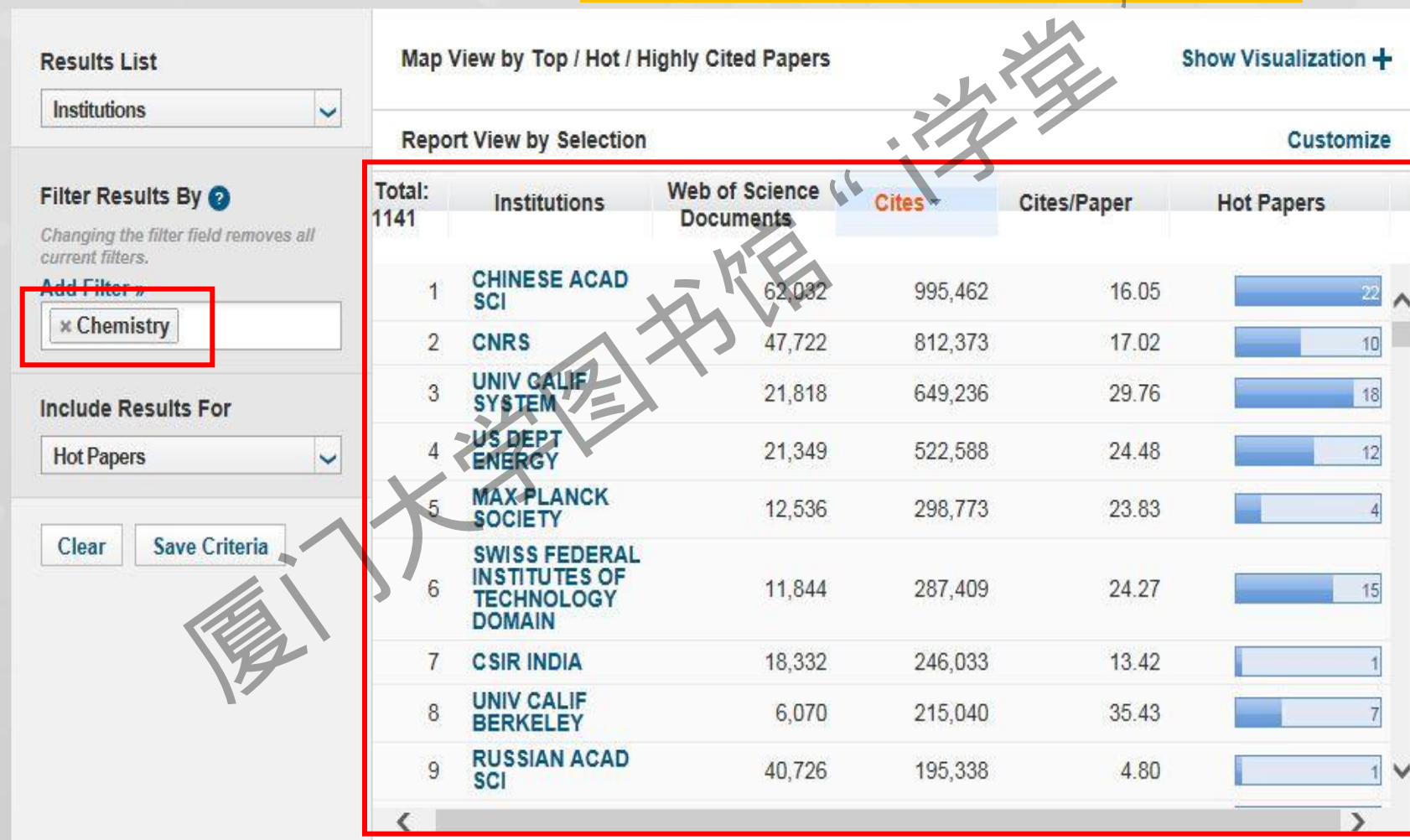
By Arieu, Frederic; Pujalon, Odile; Menard, Didier; Benoit-Vical, Francoise; Beghain, Johann; Witkowski, Benoit; Barale, Jean-Christophe; Bouchier, Christiane; Khim, Nimol  
From PCT Int. Appl. (2015), WO 2015071759 A1 20150521. | Language: English, Database: CAPLUS

Alleles of the gene for the K13-propeller protein are useful mol. markers for tracking the emergence and spread of **artemisinin**-resistant Plasmodium. The invention encompasses methods, compns., and kits for detecting and genotyping Plasmodium, for example Plasmodium falciparum. The methods, compns. and kits can be used to detect the presence or absence of a mutated K-13 propeller nucleic acid or protein in the

# 实例3：利用专业分析数据库ESI发现研究前沿和热点

## Hot Papers by Institutions

## 化学学科科研实力机构排名





# 高被引论文

Papers by Research Field

化学学科近十年最重要的高被引文献

The screenshot displays a search results page for highly cited papers in chemistry. The interface includes a sidebar with filters and a main list of papers. The 'Filter Results By' section has 'Chemistry' selected. The 'Include Results For' section has 'Highly Cited Papers' selected. The main list shows three papers with their titles, authors, sources, and citation counts.

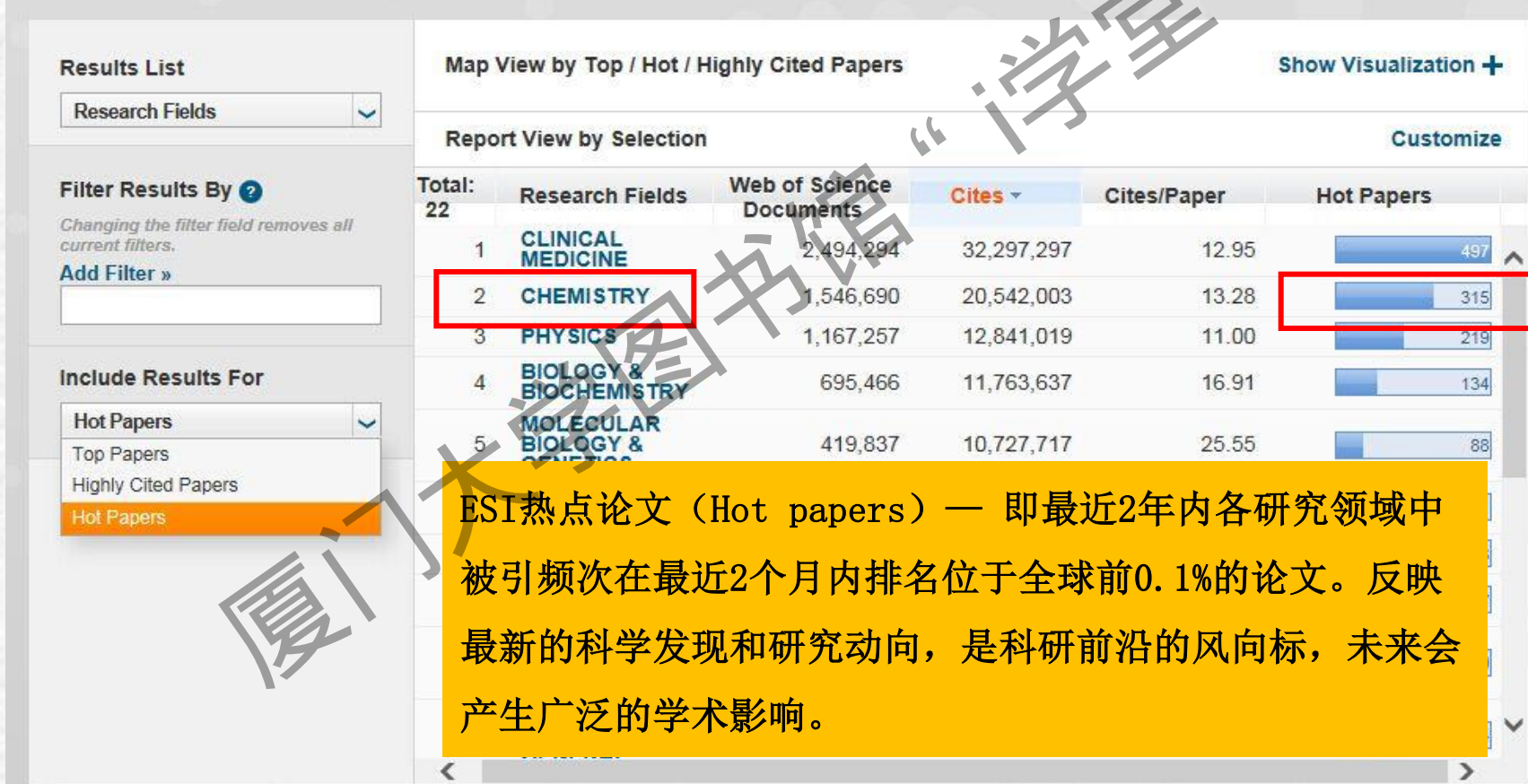
Rank	Title	Author(s)	Source	Research Fields	Times Cited
1	A SHORT HISTORY OF SHELXL	SHELDRIK, GM;	ACTA CRYSTALLOGR A 64: 112-122 PART 1 JAN 2008	CHEMISTRY	45,497
2	THE M06 SUITE OF DENSITY FUNCTIONALS FOR MAIN GROUP THERMOCHEMISTRY, THERMOCHEMICAL KINETICS, NONCOVALENT INTERACTIONS, EXCITED STATES, AND TRANSITION ELEMENTS: TWO NEW FUNCTIONALS AND SYSTEMATIC TESTING OF FOUR M06-CLASS FUNCTIONALS AND 12 OTHER FUNCTIONALS	ZHAO, Y; TRUHLAR, DG;	THEOR CHEM ACC 120 (1-3): 215-241 MAY 2008		5,799
					5,555
4	PHASER CRYSTALLOGRAPHIC SOFTWARE	MCCOY, AJ; GROSSE-KUNSTLEVE, RW; ADAMS, PD; et al	J APPL CRYST 40: 658-674 PART 4 AUG 2007	CHEMISTRY	5,473

ESI高被引论文 (Highly Cited Papers) —  
即最近10 年间各研究领域中被引频次排名位  
于全球前1%的论文

# 热点论文

Hot Papers by Research Fields

化学学科近两年最热点文献



# Hot Papers by Research Fields

## 美国的热点论文

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Total: 23	Research Fields	Web of Science Documents	Cites	Cites/Paper	Hot Papers
1	CLINICAL MEDICINE	808,892	15,046,257	18.60	379
2	MOLECULAR BIOLOGY & GENETICS	175,773	6,321,409	35.96	69
3	CHEMISTRY	255,905	5,505,008	21.51	123
4	BIOLOGY & BIOCHEMISTRY	220,508	5,337,044	24.20	87
5	PHYSICS	263,279	4,724,856	17.95	133
6	NEUROSCIENCE & BEHAVIOR	191,951	4,658,975	24.27	72
7	SOCIAL SCIENCES, GENERAL	310,031	2,590,034	8.35	89
8	PSYCHIATRY/PSYCHOLOGY	167,493	2,559,303	15.28	45
9	IMMUNOLOGY	95,080	2,525,510	26.56	38
10	GEOSCIENCES	120,038	2,083,111	17.35	42
	PLANT &				

# Hot Papers by Research Fields

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Total: 23	Research Fields	Web of Science Documents	Cites	Cites/Paper	Hot Papers
1	CHEMISTRY	341,120	3,703,859	10.86	94
2	PHYSICS	211,846	1,786,086	8.45	46
3	MATERIALS SCIENCE	181,927	1,579,924	8.68	68
4	CLINICAL MEDICINE	156,715	1,165,126	7.43	23
5	ENGINEERING	183,679	1,090,073	5.93	96
6	BIOLOGY & BIOCHEMISTRY	74,383	728,005	9.79	19
7	MOLECULAR BIOLOGY & GENETICS	44,787	520,702	11.63	9
8	GEOSCIENCES	56,757	518,702	9.14	25
9	PLANT & ANIMAL SCIENCE	55,164	417,961	7.58	26
10	ENVIRONMENT/ ECOLOGY	45,419	403,295	8.88	18
	PHARMACOLOGY				

# Hot Papers by Institutions

## 查看某机构的热点论文

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Total:	Institutions	Web of Science Documents	Cites	Cites/Paper	Hot Papers
1141					
1	CHINESE ACAD SCI	62,032	995,462	16.05	22
2	CNRS	47,722	812,373	17.02	10
3	UNIV CALIF SYSTEM	21,818	649,236	29.76	18
4	US DEPT ENERGY	21,349	522,588	24.48	12
5	MAX-PLANCK SOCIETY	12,536	298,773	23.83	4
6	SWISS FEDERAL INSTITUTES OF TECHNOLOGY DOMAIN	11,844	287,409	24.27	15
7	CSIR INDIA	18,332	246,033	13.42	1
8	UNIV CALIF BERKELEY	6,070	215,040	35.43	7
9	RUSSIAN ACAD SCI	40,726	195,338	4.80	1

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- + Economics & Business
- + Engineering
- + Environment/Ecology
- + Geosciences
- + Immunology
- + Materials Science
- + Mathematics
- + Microbiology
- + Molecular Biology & Genetics
- + Multidisciplinary
- + Neuroscience & Behavior
- + Pharmacology & Toxicology
- + Physics
- + Plant & Animal Science
- + Psychiatry/Psychology
- + Social Sciences, General

Research Fronts	Top Papers	Meal Year
RENEWABLE ENERGY EDUCATION; SUSTAINABLE ENERGY EDUCATION; PARASITIC ENERGY SYSTEMS; FUTURE; RENEWABLE ENERGY SYSTEMS INTERNATIONAL SURVEY; ELECTRONIC NICOTINE; ELECTRONIC NICOTINE	50	2
FEW-LAYERED GRAPHENE OXIDE NANOSHEETS; NANOSHEETS	50	2
EARLY ANIMAL EARTH'S EARLY PHOTIC OXYGENATION	50	2
FLUORESCENT ORGANIC PHENYLENE-BASED FLUORESCENT ORGANIC PHENYLENE-BASED FLUORESCENT PHENYLENE-BASED FLUORESCENT	50	

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# Top Papers by Research Fronts

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Total:	Research Fronts	Top Papers	Mean Year
1895	1 GRAPHENE OXIDE ADSORPTION; FEW-LAYERED GRAPHENE OXIDE NANOSHEETS; GRAPHENE OXIDE NANOSHEETS INVESTIGATED; GRAPHENE OXIDE NANOSHEETS DECORATED; GRAPHENE OXIDE NANOSHEETS	50	2010
1	1 EMISSION DYE BASED RED FLUORESCENT ORGANIC NANOPARTICLES; TETRAPHENYLETHENE-BASED AGGREGATION-INDUCED EMISSION FLUORESCENT ORGANIC NANOPARTICLES; EMISSION DYE-BASED FLUORESCENT ORGANIC NANOPARTICLES; POLYMERIZABLE AGGREGATION-INDUCED EMISSION DYE-BASED FLUORESCENT NANOPARTICLES; AIE BASED FLUORESCENT ORGANIC NANOPARTICLES	50	2010
3	ENANTIOSELECTIVE ELECTROPHILIC TRIFLUOROMETHYL THIOLA TION; BROSTED ACID-CATALYZED ELECTROPHILIC TRIFLUOROMETHYL THIOLA TION; LEWIS ACID-CATALYZED ELECTROPHILIC TRIFLUOROMETHYL THIOLA TION; SILVER-MEDIATED OXIDATIVE ALIPHATIC C-H TRIFLUOROMETHYL THIOLA TION; ELECTROPHILIC AROMATIC TRIFLUOROMETHYL THIOLA TION	47	2010
2	SINGLE-ELECTRON TRANSFER DEGENERATIVE CHAIN TRANSFER LIVING RADICAL POLYMERIZA TION; PHOTOINDUCED METAL-FREE ATOM TRANSFER RADICAL POLYMERIZA TION; CU(0)-WIRE-	47	2010

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1895			
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1	EMISSION DYE BASED RED FLUORESCENT ORGANIC NANOPARTICLES; TETRAPHENYLETHENE-BASED AGGREGATION-INDUCED EMISSION FLUORESCENT ORGANIC NANOPARTICLES; EMISSION DYE-BASED FLUORESCENT ORGANIC NANOPARTICLES; POLYMERIZABLE AGGREGATION-INDUCED EMISSION DYE-BASED FLUORESCENT NANOPARTICLES; AIE BASED FLUORESCENT ORGANIC NANOPARTICLES	0	
3	ENANTIOSELECTIVE ELECTROPHILIC TRIFLUOROMETHYL THIOLATION; BROSTED ACID-CATALYZED ELECTROPHILIC TRIFLUOROMETHYL THIOLATION; LEWIS ACID-CATALYZED ELECTROPHILIC TRIFLUOROMETHYL THIOLATION; SILVER-MEDIATED OXIDATIVE ALIPHATIC C-H TRIFLUOROMETHYL THIOLATION; ELECTROPHILIC AROMATIC TRIFLUOROMETHYL THIOLATION	4	2
2	SINGLE-ELECTRON TRANSFER DEGENERATIVE CHAIN TRANSFER LIVING RADICAL POLYMERIZATION; PHOTOINDUCED METAL-FREE ATOM TRANSFER RADICAL POLYMERIZATION; CU(0)-WIRE-	2	



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Research Fronts

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- × ARTEMISININ-RESISTANT PLASMODIUM FALCIPARUM MALARIA; PLASMODIUM FALCIPARUM MALARIA; ARTEMISININ-RESISTANT PLASMODIUM FALCIPARUM; PLASMODIUM FALCIPARUM CLINICAL ISOLATES; PLASMODIUM FALCIPARUM RING STAGES
- × TRANSCRIPTION FACTOR CRWRKY1 POSITIVELY; JASMONATE-RESPONSIVE AP2/ERF TRANSCRIPTION FACTORS AAERF1; TERPENOID INDOLE ALKALOID BIOSYNTHESIS; ARTEMISININ BIOSYNTHESIS; AAERF2 POSITIVELY
- × PLASMODIUM FALCIPARUM REQUIRES HEMOGLOBIN UPTAKE; ARTEMISININ-THE DEBATE CONTINUES; ARTEMISININ ACTIVITY; MOLECULAR MECHANISM; DIGESTION

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2	PLASMODIUM FALCIPARUM REQUIRES HEMOGLOBIN UPTAKE; ARTEMISININ-THE DEBATE CONTINUES; ARTEMISININ ACTIVITY; MOLECULAR MECHANISM; DIGESTION	2	2010.5
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- × TRANSCRIPTION FACTOR CRWRKY1 POSITIVELY;JASMONATE-RESPONSIVE AP2/ERF TRANSCRIPTION FACTORS AAERF1;TERPENOID INDOLE ALKALOID BIOSYNTHESIS;ARTEMISININ BIOSYNTHESIS;AAERF2 POSITIVELY
- × PLASMODIUM FALCIPARUM REQUIRES HEMOGLOBIN UPTAKE;ARTEMISININ-THE DEBATE CONTINUES;ARTEMISININ ACTIVITY;MOLECULAR MECHANISM;DIGESTION

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2	PLASMODIUM FALCIPARUM REQUIRES HEMOGLOBIN UPTAKE;ARTEMISININ-THE DEBATE CONTINUES;ARTEMISININ ACTIVITY;MOLECULAR MECHANISM;DIGESTION	0	201
2	TRANSCRIPTION FACTOR CRWRKY1 POSITIVELY;JASMONATE-RESPONSIVE AP2/ERF TRANSCRIPTION FACTORS AAERF1;TERPENOID INDOLE ALKALOID BIOSYNTHESIS;ARTEMISININ BIOSYNTHESIS;AAERF2 POSITIVELY	0	201

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主题

检索

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- CHEMISTRY (1,241)

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分析检索结果

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1. **Bio-inspired synthesis of molecularly imprinted nanocomposite membrane for selective recognition and separation of artemisinin**

作者: Cui, Jiuyun; Wu, Yilin; Meng, Minjia; 等.  
JOURNAL OF APPLIED POLYMER SCIENCE 卷: 133 期: 19 出版年: MAY 15 2016



查看摘要

被引频次: 0

(来自 Web of Science 的核心合集)

使用次数

2. **Molecular surveillance of antimalarial drug resistance related genes in Plasmodium falciparum isolates from Eritrea**

作者: Menegon, Michela; Nurahmed, Abduselam M.; Talha, Albadawi A.; 等.  
ACTA TROPICA 卷: 157 页: 158-161 出版年: MAY 2016



出版商处的全文

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使用次数

3. **Resisting resistance: is there a solution for malaria?**

作者: Verfinden, Bianca K.; Louw, Abraham; Birkholtz, Lyn-Marie  
EXPERT OPINION ON DRUG DISCOVERY 卷: 11 期: 4 页: 395-406 出版年: APR 2 2016



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4. **Limited artemisinin resistance-associated polymorphisms in Plasmodium falciparum K13-propeller and PfATPase6 gene isolated from Bioko Island, Equatorial Guinea**

作者: Li, Jian; Chen, Jiangtao; Xie, Dongde; 等.  
INTERNATIONAL JOURNAL FOR PARASITOLOGY-DRUGS AND DRUG RESISTANCE 卷: 6 期: 1 页: 54-59 出版年: APR 2016



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5. **Spirocyclic chromanes exhibit antiplasmodial activities and inhibit all intraerythrocytic life cycle stages**

作者: Roberts, Bracken F.; Iyamu, Iredia D.; Lee, Sukjun; 等.  
INTERNATIONAL JOURNAL FOR PARASITOLOGY-DRUGS AND DRUG RESISTANCE 卷: 6 期: 1 页: 54-59 出版年: APR 2016

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研究方向

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- CHEMISTRY (1,241)
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- INFECTIOUS DISEASES (958)

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- PUBLIC ENVIRONMENTAL OCCUPATIONAL HEALTH (660)
- CHEMISTRY ORGANIC (515)
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- INFECTIOUS DISEASES (958)
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### 1.找综述

### 了解研究历史及现状

- 1. Preventive malaria treatment for contacts of patients with Ebola virus disease in the context of the west Africa 2014-15 Ebola virus disease response: an economic analysis

作者: Carias, Cristina; Greening, Bradford, Jr.; Campbell, Caresse G.; 等.  
LANCET INFECTIOUS DISEASES 卷: 16 期: 4 页: 449-458 出版年: APR 2016



出版商处的全文

查看摘要

- 2. Persistent Plasmodium falciparum and Plasmodium vivax infections in a western Cambodian population: implications for prevention, treatment and elimination strategies

作者: Tripura, Rupam; Peto, Thomas J.; Chalk, Jeremy; 等.  
MALARIA JOURNAL 卷: 15 文献号: 181 出版年: MAR 24 2016



出版商处的全文

查看摘要

- 3. Discovering the cost of care: consumer, provider, and retailer surveys shed light on the determinants of malaria health-seeking behaviours

作者: Dixit, Amruta; Lee, Ming-Chieh; Goettsch, Brittany; 等.  
MALARIA JOURNAL 卷: 15 文献号: 179 出版年: MAR 22 2016



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查看摘要

- 4. Health workers' compliance to rapid diagnostic tests (RDTs) to guide malaria treatment: a cross-sectional analysis

作者: Benjamin J.; Spijker, Rene; 等.  
MALARIA JOURNAL 卷: 15 文献号: 163 出版年: MAR 15 2016

查看摘要

- 5. Effect of mild medical hypothermia on in vitro growth of Plasmodium falciparum and the activity of anti-malarial drugs

作者: Rehman, Khalid; Sauerzopf, Ulrich; Veletzky, Luzia; 等.

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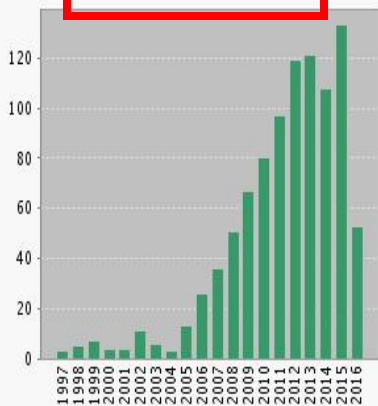
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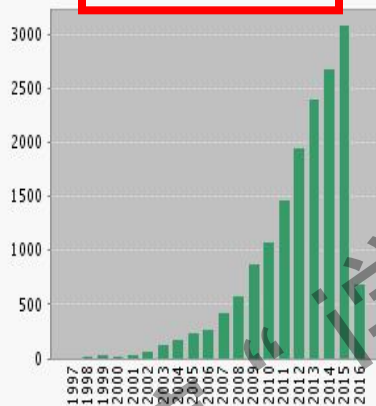
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- Epidemiology of drug-resistant malaria**  
 作者: Wongsrichanalai, C; Pickard, AL; Wernsdorfer, WH; 等.  
 LANCET INFECTIOUS DISEASES 卷: 2 期: 4 页: 209-218 出版年: APR 2002
- Changes in the burden of malaria in sub-Saharan Africa**  
 作者: O'Meara, Wendy Prudhomme; Mangeni, Judith Nekesa; Steketee, Rick; 等.  
 LANCET INFECTIOUS DISEASES 卷: 10 期: 8 页: 545-555 出版年: AUG 2010

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## Epidemiology of drug-resistant

作者: Wongsrichanalai, C (Wongsrichanalai, C); P

LANCET INFECTIOUS DISEASES

卷: 2 期: 4 页: 209-218

DOI: 10.1016/S1473-3099(02)00239-6

出版年: APR 2002

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### 摘要

Since the first reports of chloroquine-resistant malaria, the disease has posed a major problem in malaria control. By

Cambodian and Thai-Myanmar (Thai-Burmese) borders, rendering them established multidrug-resistant (MDR) areas. Chloroquine resistance spread across Africa during the 1980s, and severe resistance is especially found in east Africa. As a result, more than ten African countries have switched their first-line drug to sulfadoxine-pyrimethamine. Of great concern is the fact that the efficacy of this drug in Africa is progressively deteriorating, especially in foci in east Africa, which are classified as emerging MDR areas. Urgent efforts are needed to lengthen the lifespan of sulfadoxine-pyrimethamine and to identify effective, affordable, alternative antimalarial regimens. Molecular markers for antimalarial resistance have been identified, including pfcr1 polymorphisms associated with chloroquine resistance and dhfr and dhps polymorphisms associated with sulfadoxine-pyrimethamine resistance. Polymorphisms in pfmdr1 may also be associated with resistance to chloroquine, mefloquine, quinine, and artemisinin. Use of such genetic information for the early detection of resistance foci and future monitoring of drug-resistant malaria is a potentially useful epidemiological tool, in conjunction with the conventional in-vivo and in-vitro drug-sensitivity assessments. This review describes the various features of drug resistance in Plasmodium falciparum, including its determinants, current status in diverse geographical areas, molecular markers, and their implications.

### 关键词

**KeyWords Plus:** PLASMODIUM-FALCIPARUM MALARIA; IN-VITRO SUSCEPTIBILITY; PYRIMETHAMINE-SULFADOXINE RESISTANCE; CHLOROQUINE-RESISTANCE; DIHYDROPTEROATE SYNTHASE; DIHYDROFOLATE-REDUCTASE; AMAZON REGION; ANTIMALARIAL-DRUGS; PFMDR1 GENE; MEFLOROQUINE RESISTANCE

### 作者信息

通讯作者地址: Wongsrichanalai, C (通讯作者)

引用了此篇文献，引用文献反应了某项研究的最新发展、最新应用和改进情况

作者引用的参考文献，可追溯研究的历史

链接到与这篇文章引用了相同参考文献的文章列表。它们通过同被引文献而相关，可了解研究扩展到哪些领域

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### 最近的引文

Li, Jian. Limited artemisinin resistance-

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958 个记录。 主题: (artemisinin)  
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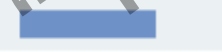
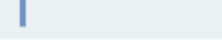
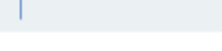
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## 作者分析：跟踪领域内重要科研人员的研究进展

## 机构分析：跟踪领域内重要科研机构的研究进展

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2. Development of a Specific Monoclonal Antibody for the Quantification of Artemisinin in... Guo, Suqin (College of Agronomy and Biotechnology, China Agricultural University, Beijing, China); Cui, Yongli p 2701-2706, March 1, 2016

Database: Compendex

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3. Sesquiterpene lactone engineering in microbial and plant platforms: parthenolide and... (University of Georgia, Department of Agricultural Biotechnology, Faculty of Agriculture, University of Kurdistan, Iran)

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*Bioanalytical Chemistry*, p 1-6, February 12, 2016  
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Dwivedi, Anupma (Centre of Excellence for Pharmaceutical Sciences, North-West University, Potchefstroom, South Africa); Mazumder, Ar  
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Mahendra Padurang; Khan, Feroz; Bhakuni, Rajendra Singh Source: *RSC Advances*, v 5, n 59, p 47959-47974, 2015  
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1. Method for preparing Chlorophyllin copper salt

Quick View PATENTPAK

By Li, Jili; Chen, Zhou

From Faming Zhuanli Shenqing (2016), CN 105418618 A 20160323. | Language: Chinese, Database: CAPLUS

A process for prepn. of Chlorophyllin copper sodium salt is disclosed. The process comprises elution the adsorbent on silica gel column during **Artemisin** NaOH soln., adjusting the pH value to 11, extg. with petroleum ether and adjusting pH = 2-3, adding 20% CuSO<sub>4</sub> to get Chlorophyllin copper sodium salt, fur 11 to get Chlorophyllin copper acid salt. The process has widely available raw material and low prodn. cost.

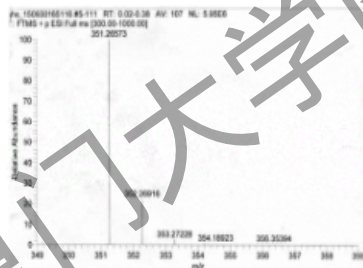
2. Preparation of artemisinin derivative and its application as anticancer agent

Quick View PATENTPAK

By Zheng, Qingsi; Peng, Yan; Zhang, Guohai; Lu, Xing; Wu, Yiming; Yang, Yang

From Faming Zhuanli Shenqing (2016), CN 105418622 A 20160323. | Language: Chinese, Database: CAPLUS

The present invention is related to the prepn. of **artemisinin** deriv. and its application as anticancer agent. The **azadeoxyartemisinin**. The **artemisinin** deriv. is prepd. by reacting **artemisinin** and N,N-dimethyl-1,3-diamin obtain reactant A, evapg. solvent, dissolving the residue in second org. solvent, adding p-toluene sulfonic acid, r water, evapg. solvent from reactant B to obtain crude product, purifying the crude...



3. Bacillus cereus and its application in promoting the growth of Artemisia annua and/or improving the yield of artemisinin

Quick View PATENTPAK

By Wang, Jianwen; Tian, Hao; Ma, Yanjun; Zheng, Liping

From Faming Zhuanli Shenqing (2016), CN 105420167 A 20160323. | Language: Chinese, Database: CAPLUS

The invention provides *Bacillus cereus*, which is deposited in CCMCC at 15th Mar. 2012, with accession No. CC

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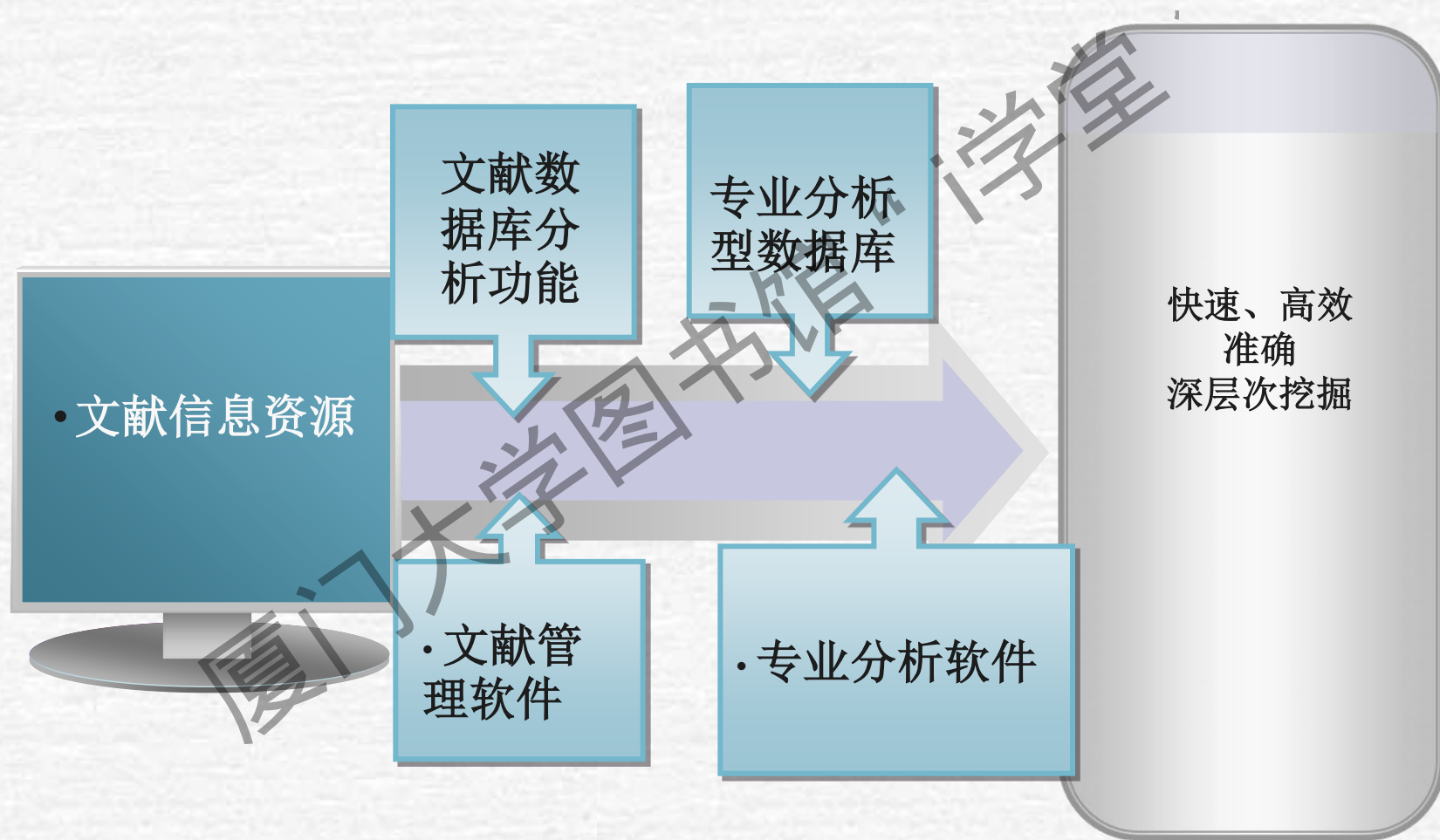
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