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

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

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

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。

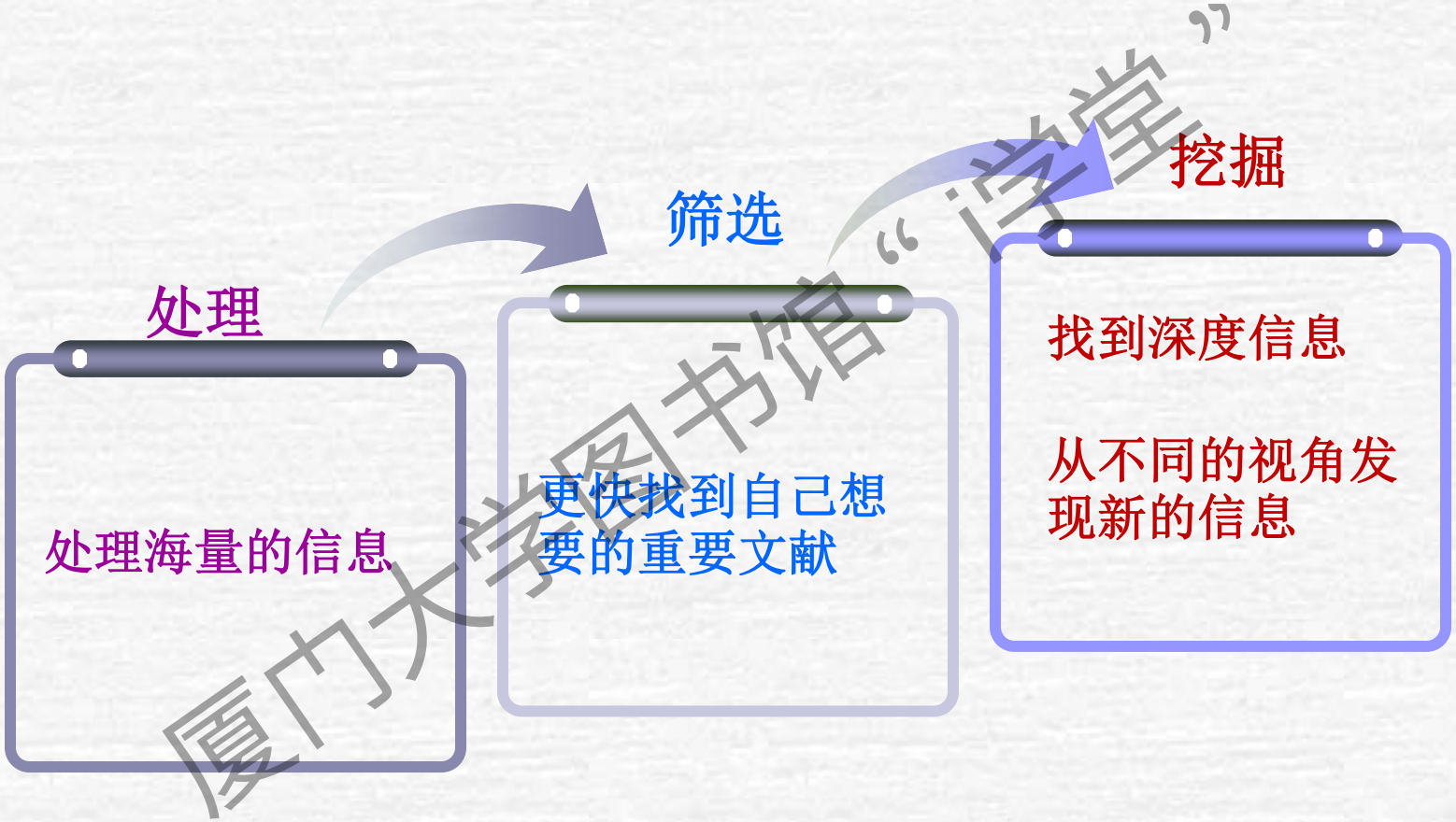
文献调研的内容_研究主题

领域的过去——现在——未来

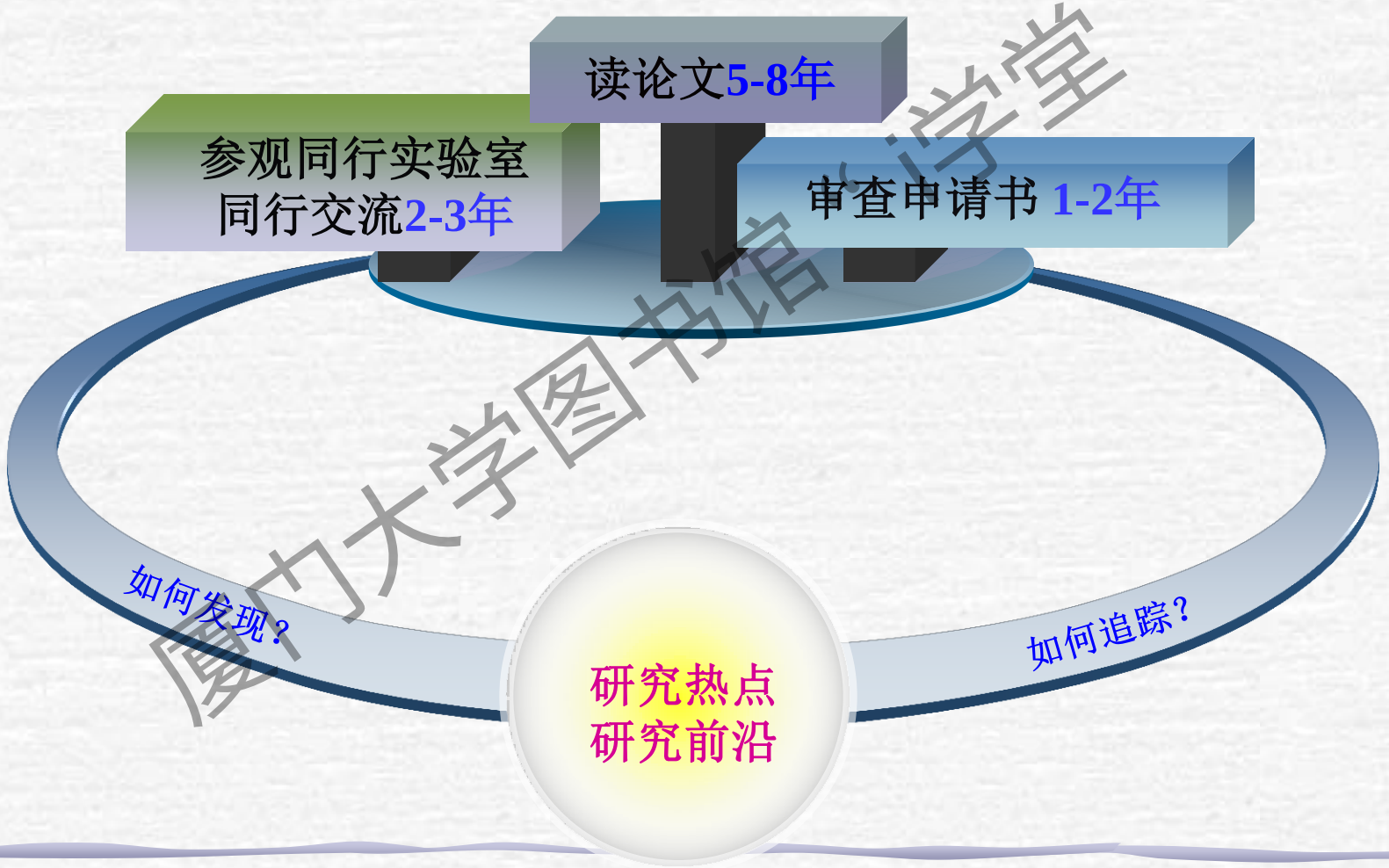
- 领域的研究历史、重要的理论、技术和方法
- 领域内经典的、重要的及高被引文献的全文
- 领域中高影响力学者的相关信息
- 领域国内的研究现状和水平
- 领域目前的研究趋势和热点
- 领域内的资助基金、投稿期刊等

？？ 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

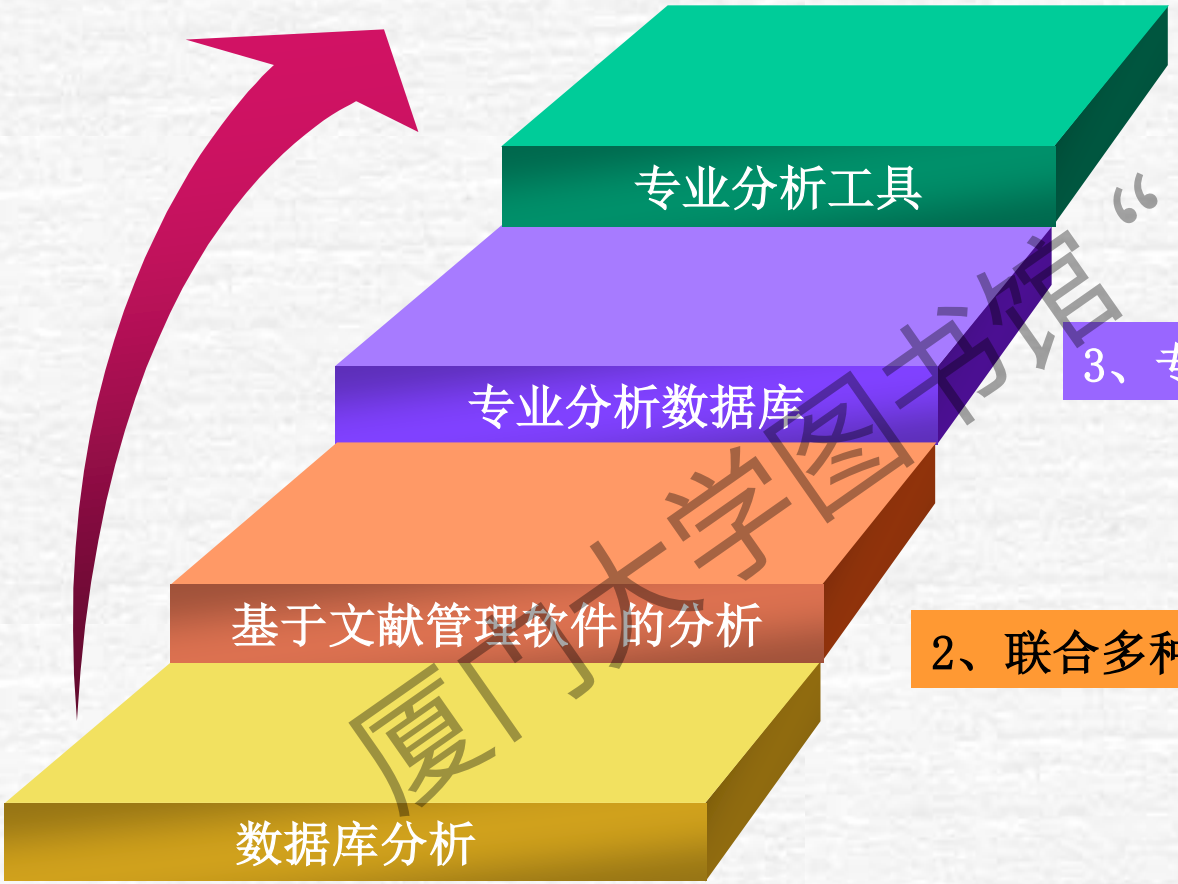
及时找到最新、最热的文献，把握研究热点

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？



4、专业分析软件
多视角，可视化，更大的信息量

3、专业分析数据库，直现研究热点

2、联合多种数据 资源进行分析

1、最基本的分析功能，提高信息获取效率

1、基于文献数据库的信息分析

1. ISI Web of Knowledge℠
2. Engineering Village
3. SciFinder® A CAS SOLUTION
4. ScienceDirect
5. PubMed

2、基于文献管理软件的信息分析

Endnote

NotExpress

CNKI数字化学习与研究平台
E-Study 原E-Learning）

文献管理软件——工具分析

不同数据库检索结果

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, P.	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	8
2002	8
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
ntimicrobial peptides	72
nnate immunity	50
xpression	35
lefensins	29
eptides	28
pithelial-cells	27
eta-defensins	26
ost-defense	26
scherichia-coli	24
uman	24
ells	22
lefensin	21
uman beta-defensin-2	19
ene	18
ntimicrobial peptide	17
mmunity	17
eta-defensin-2	16
oll-like receptors	15
f-kappa-b	15
taphylococcus-aureus	15
n vitro	14

关键词

3、专业分析数据库

Incites

ESI

SciVal

4、基于专业软件的文献分析

CITESPACE

HisCite

Bibexcel

社会网络分析软件Ucinet

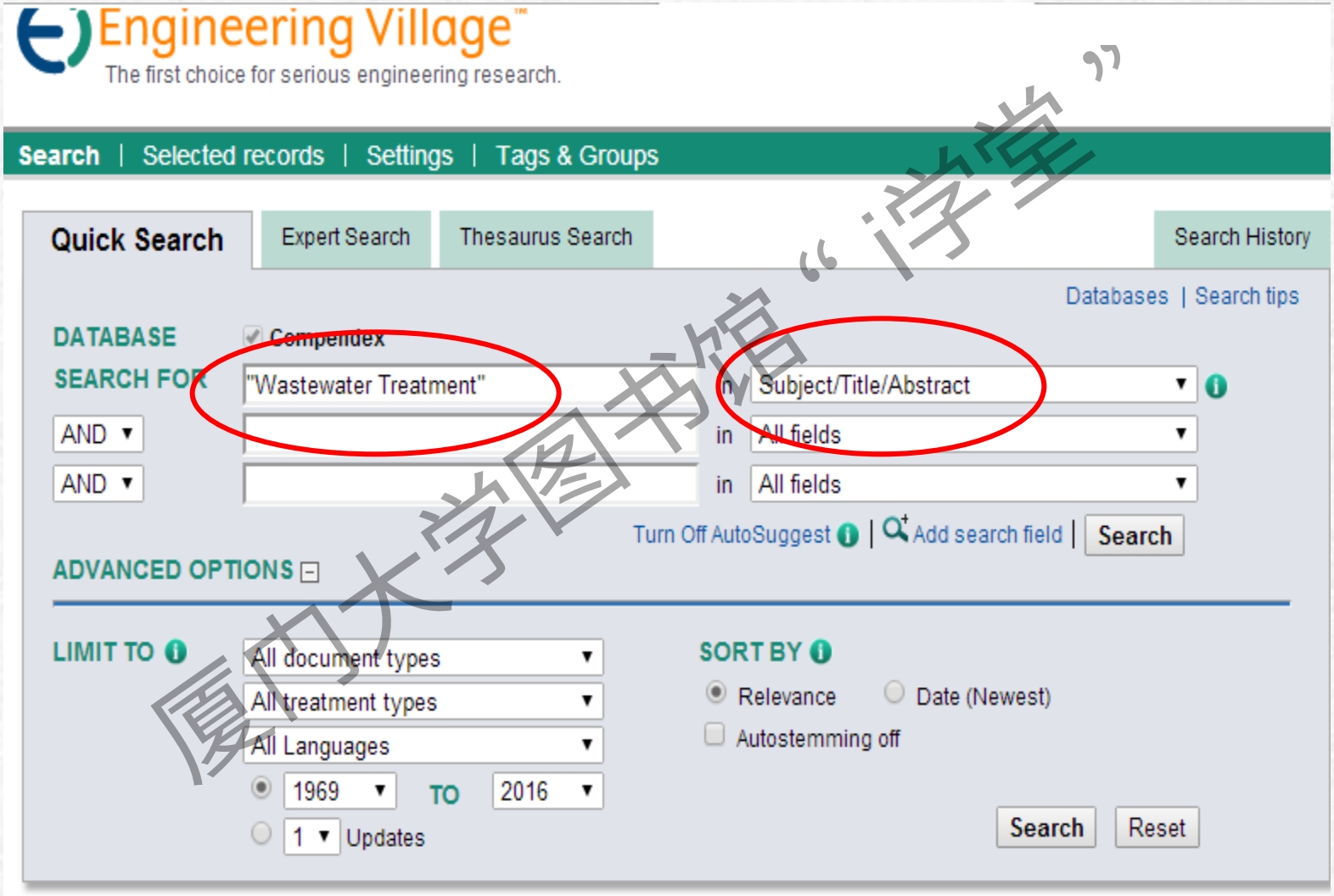
Publish or perish

四、一些实例

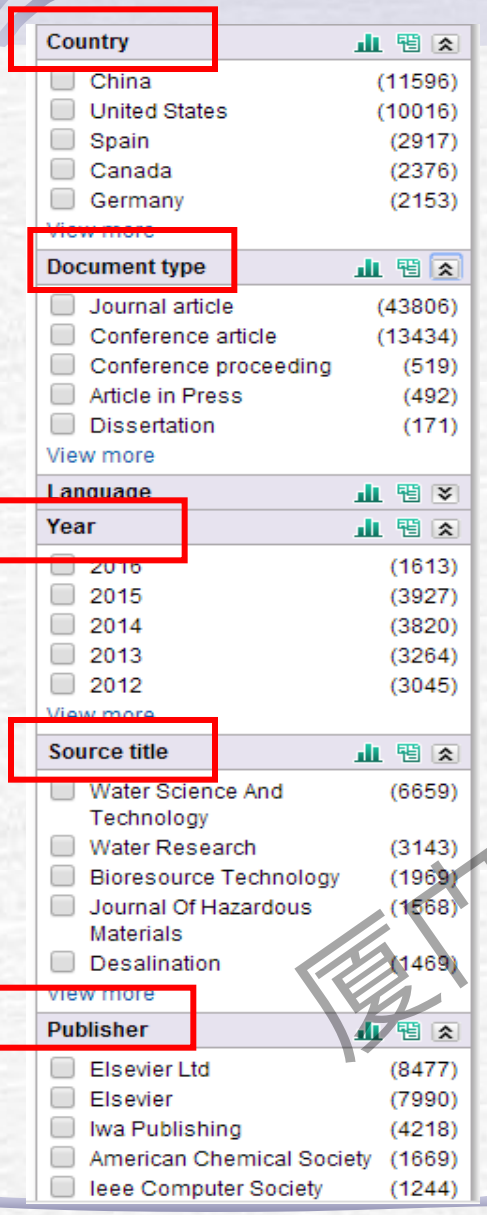
实例1：利用EI发现热点

——利用一些特殊字段及年代变化情况来分析

- 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


Engineering Village
The first choice for serious engineering research.
Search | Selected records | Settings | Tags & Groups
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



发现领域内研究最热的国家

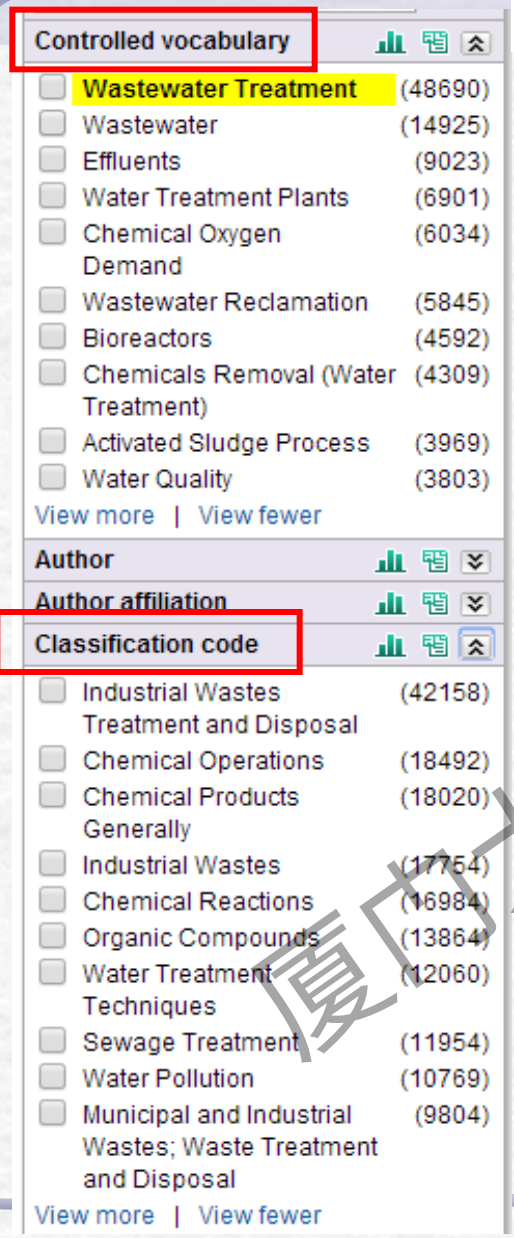
会议论文、专题论文、专题综述、专题报告、综述报告、未出版文献、学位论文，快捷获得领域最新研究进展

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



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

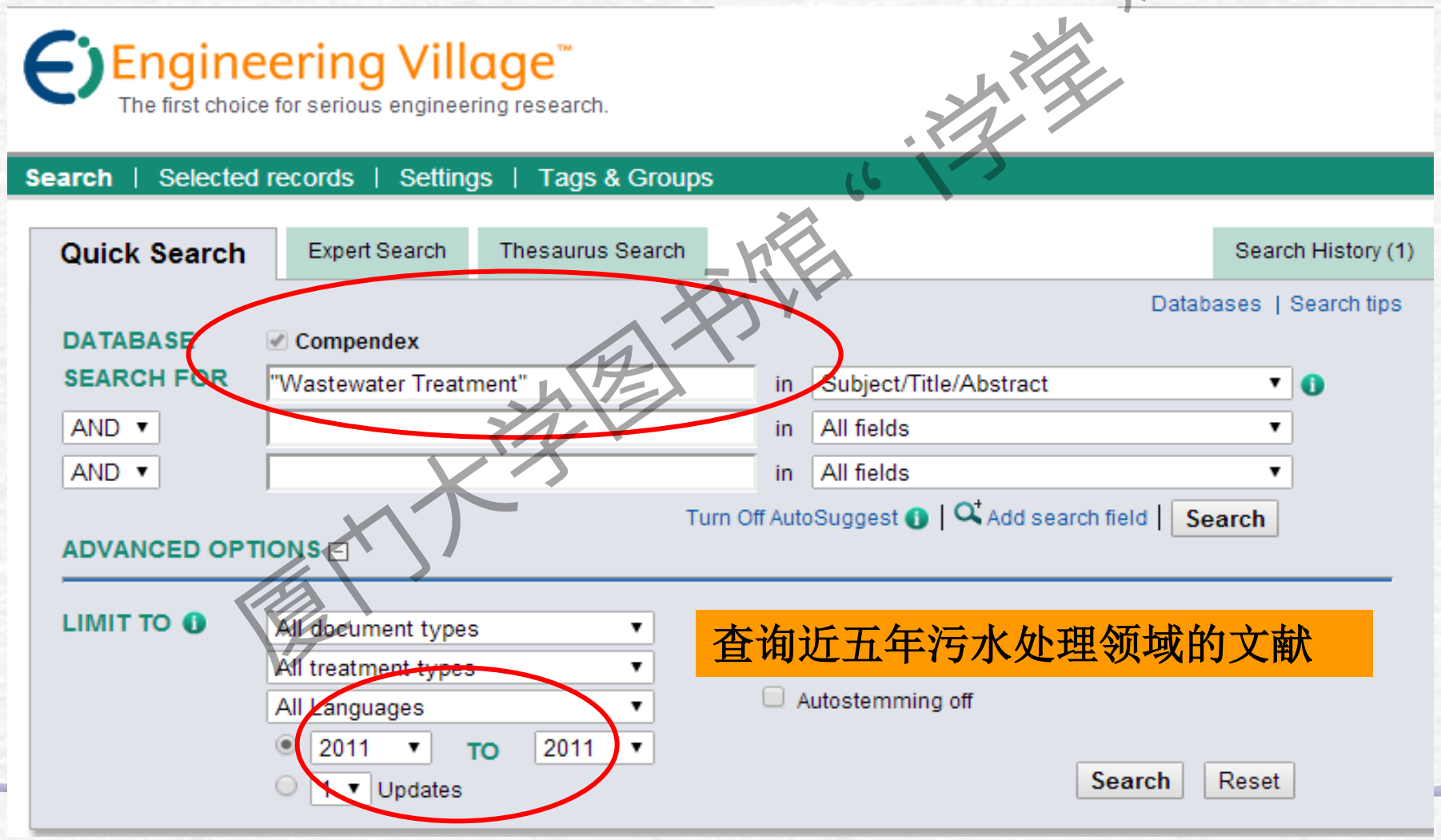
分类码

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。

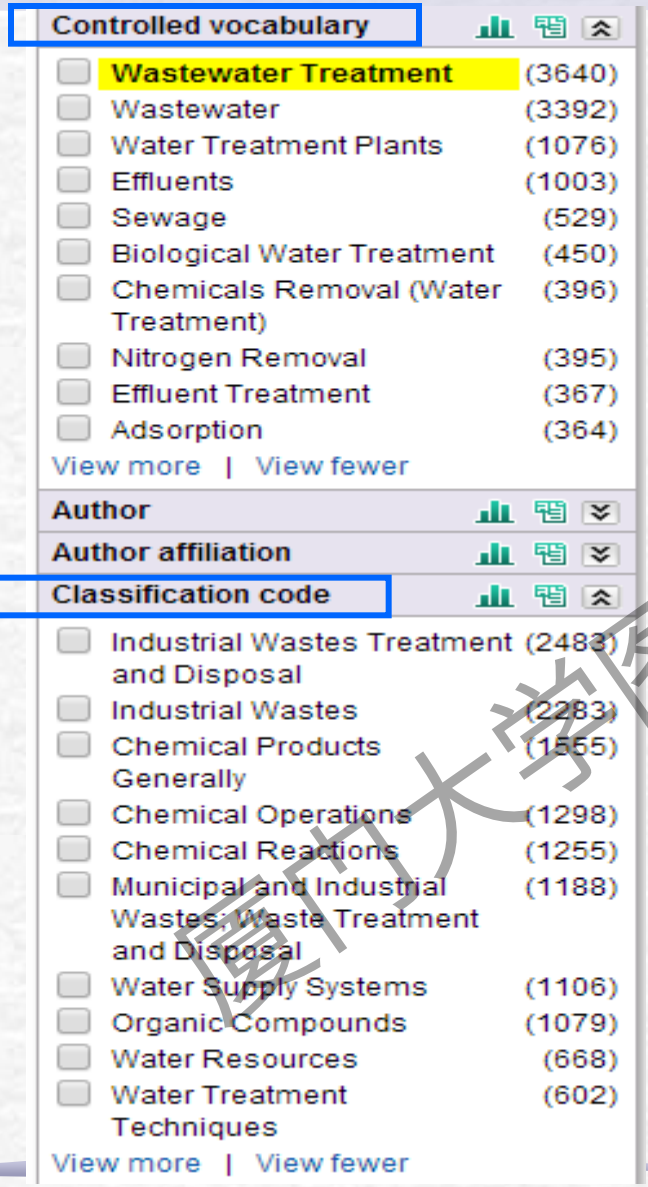
污水处理领域主流研究学科和交叉研究学科，及时获知各学科方向的最新研究进展。

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



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

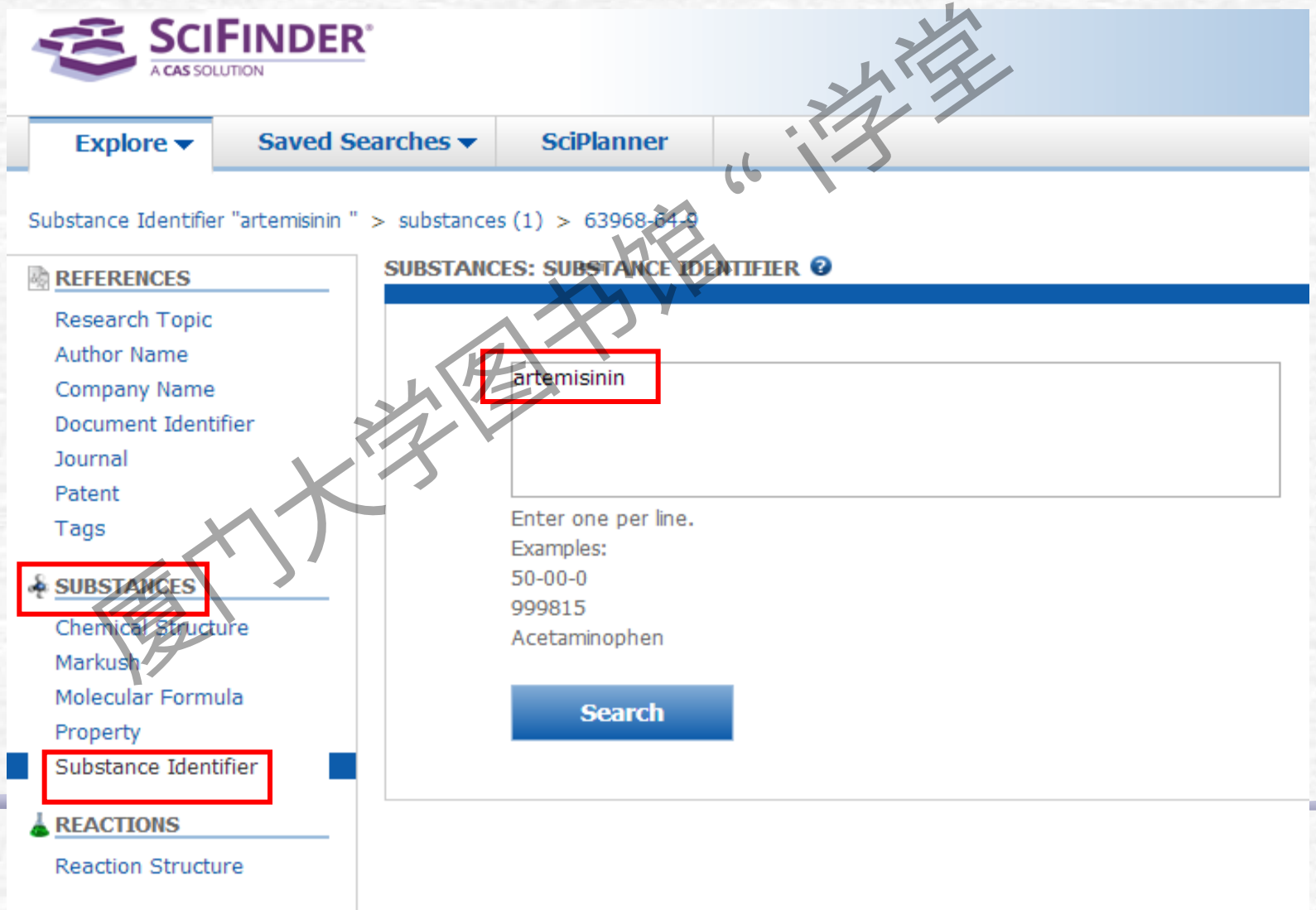


2011

2015

实例2：利用SciFinder发现热点

- 案例：artemisinin青蒿素



SUBSTANCE DETAIL | Get References | Get Reactions | Get Commercial Sources

Return

CAS Registry Number 63968-64-9

~4,276 ~116

$C_{15}H_{22}O_5$

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

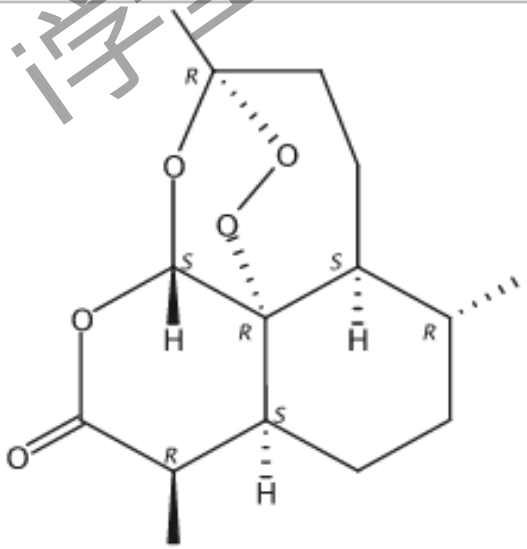
Molecular Weight
282.33

Melting Point (Experimental)
Value: 156-157 °C

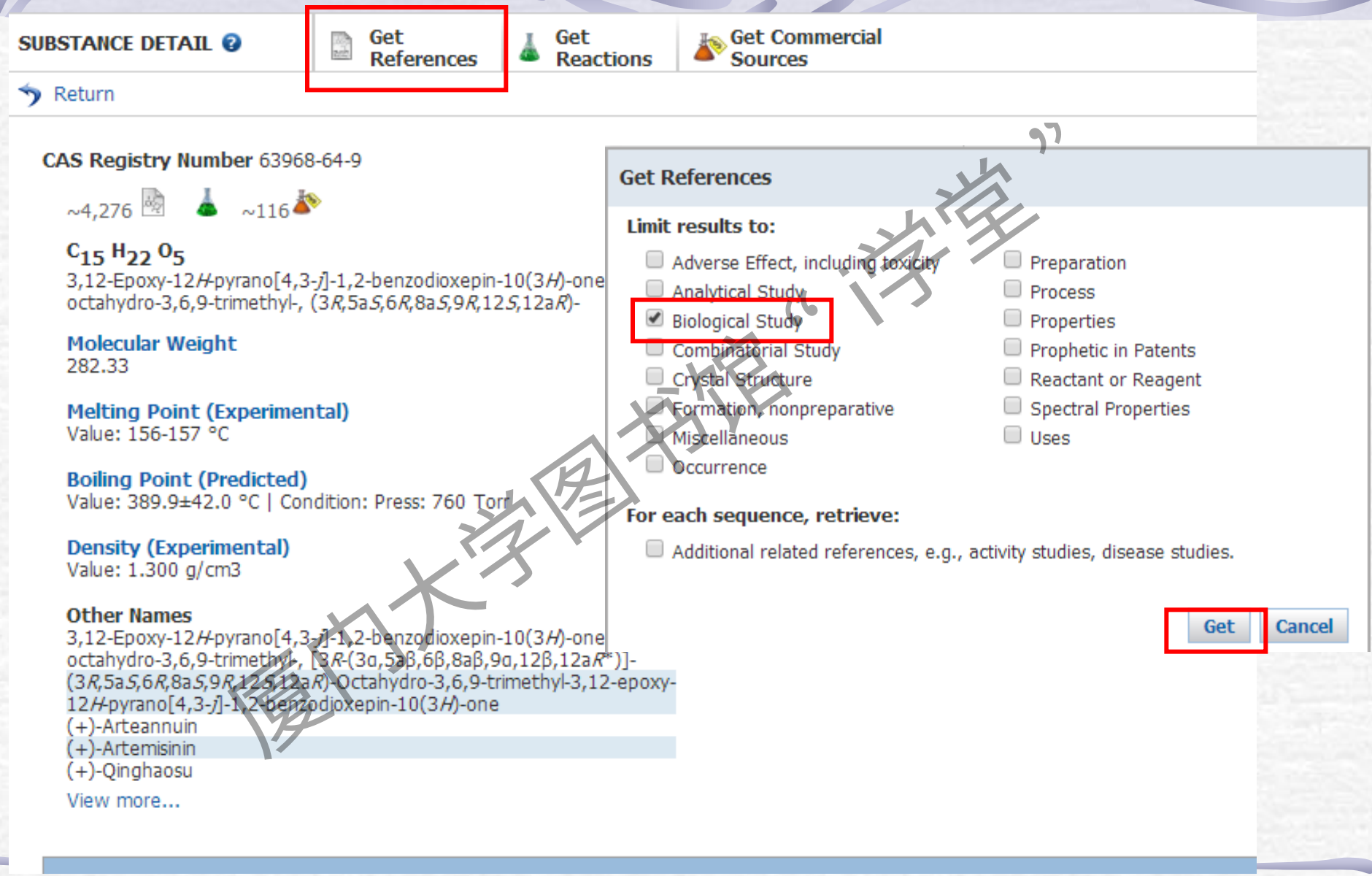
Boiling Point (Predicted)
Value: 389.9±42.0 °C | Condition: Press: 760 Torr

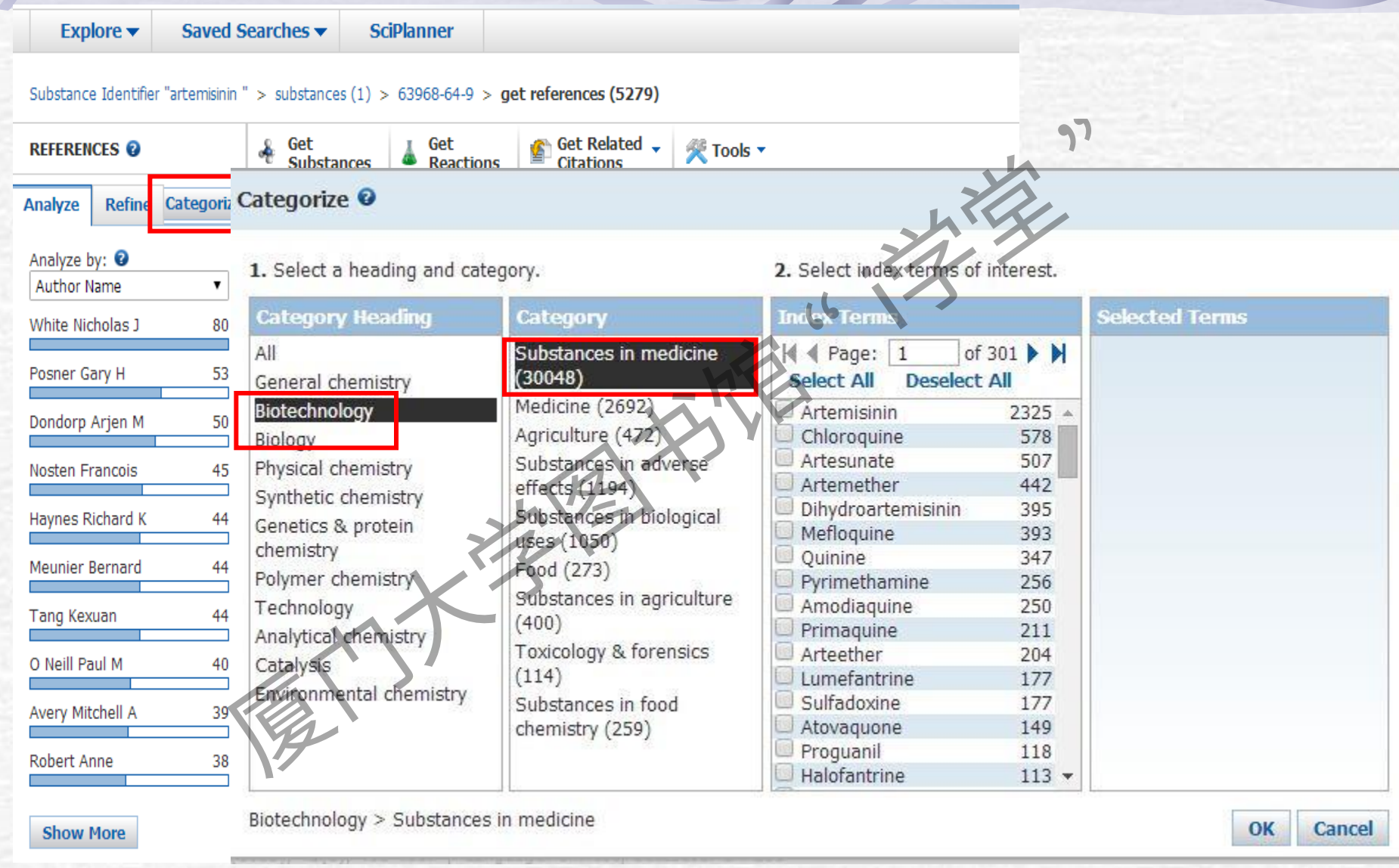
Density (Experimental)
Value: 1.300 g/cm3

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*-(3α,5aβ,6β,8aβ,9α,12β,12a*R**)]-
(3*R*,5a*S*,6*R*,8a*S*,9*R*,12*S*,12a*R*)-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...



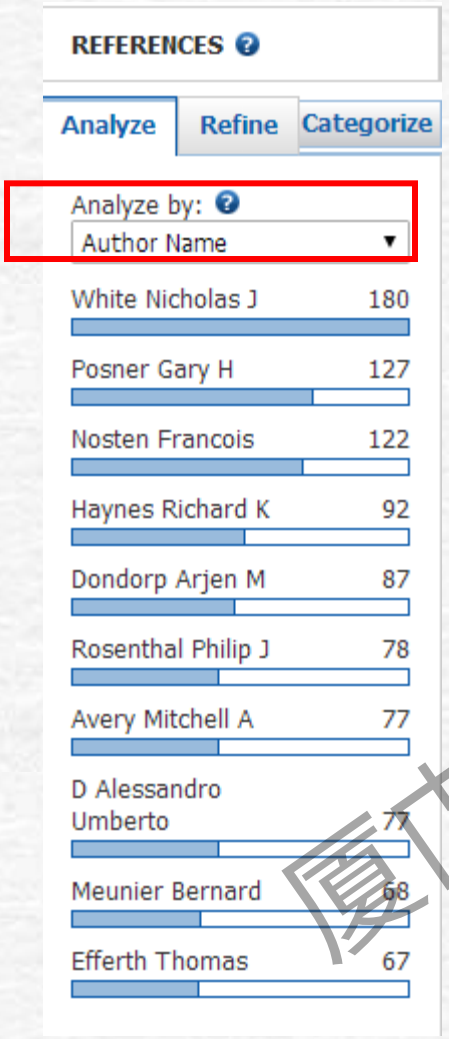
Absolute stereochemistry.

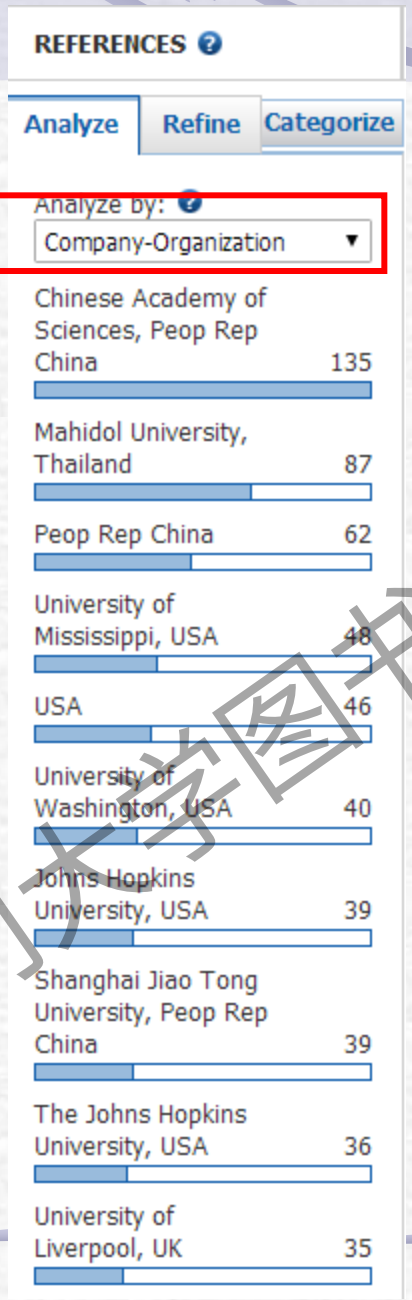

SUBSTANCE DETAIL
Get References
Get Reactions
Get Commercial Sources
Return
CAS Registry Number 63968-64-9
~4,276
~116
C15 H22 O5
3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10(3H)-one
octahydro-3,6,9-trimethyl-, (3R,5aS,6R,8aS,9R,12S,12aR)-
Molecular Weight
282.33
Melting Point (Experimental)
Value: 156-157 °C
Boiling Point (Predicted)
Value: 389.9±42.0 °C | Condition: Press: 760 Torr
Density (Experimental)
Value: 1.300 g/cm3
Other Names
3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10(3H)-one
octahydro-3,6,9-trimethyl-, [3R-(3α,5aβ,6β,8aβ,9α,12β,12aR*)]-
(3R,5aS,6R,8aS,9R,12S,12aR)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10(3H)-one
(+)-Arteannuin
(+)-Artemisinin
(+)-Qinghaosu
View more...
Get References
Limit results to:
Adverse Effect, including toxicity
Analytical Study
Biological Study
Combinatorial Study
Crystal Structure
Formation, nonpreparative
Miscellaneous
Occurrence
Preparation
Process
Properties
Prophetic in Patents
Reactant or Reagent
Spectral Properties
Uses
For each sequence, retrieve:
Additional related references, e.g., activity studies, disease studies.
Get
Cancel

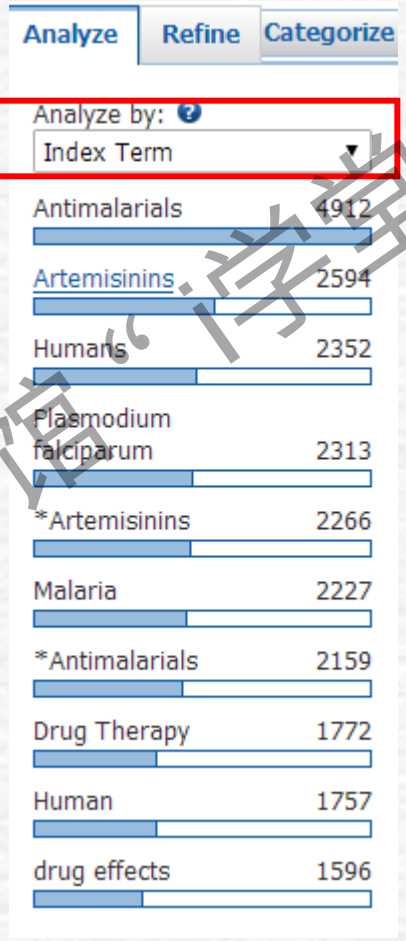

Explore
Saved Searches
SciPlanner
Substance Identifier "artemisinin " > substances (1) > 63968-64-9 > get references (5279)
REFERENCES
Get Substances
Get Reactions
Get Related Citations
Tools
Analyze
Refine
Categoriz
Categorize
Analyze by:
Author Name
White Nicholas J 80
Posner Gary H 53
Dondorp Arjen 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
Show More
1. Select a heading and category.
2. Select index terms of interest.
Category Heading
All
General chemistry
Biotechnology
Biology
Physical chemistry
Synthetic chemistry
Genetics & protein chemistry
Polymer chemistry
Technology
Analytical chemistry
Catalysis
Environmental chemistry
Category
Substances in medicine (30048)
Medicine (2692)
Agriculture (472)
Substances in adverse effects (1194)
Substances in biological uses (1050)
Food (273)
Substances in agriculture (400)
Toxicology & forensics (114)
Substances in food chemistry (259)
Index Terms
Page: 1 of 301
Select All
Deselect All
Artemisinin 2325
Chloroquine 578
Artesunate 507
Artemether 442
Dihydroartemisinin 395
Mefloquine 393
Quinine 347
Pyrimethamine 256
Amodiaquine 250
Primaquine 211
Arteether 204
Lumefantrine 177
Sulfadoxine 177
Atovaquone 149
Proguanil 118
Halofantrine 113
Selected Terms
Biotechnology > Substances in medicine
OK
Cancel

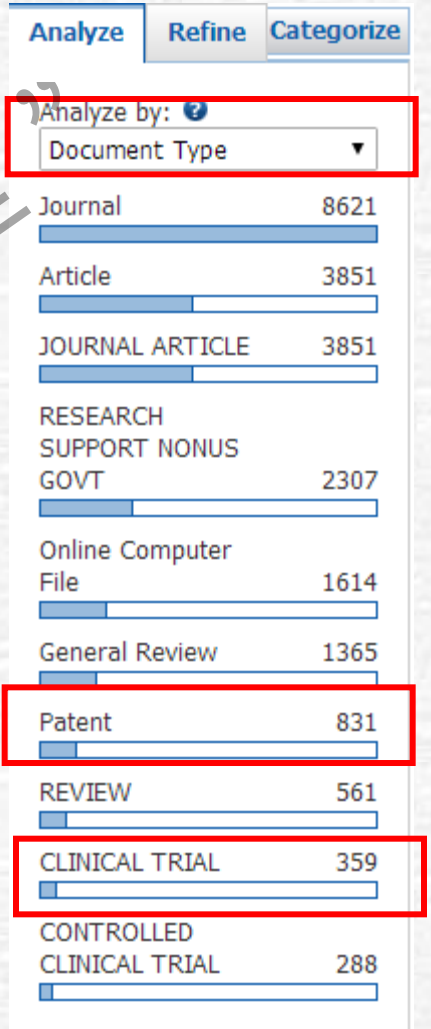
SciFinder的分析字段

Scifinder



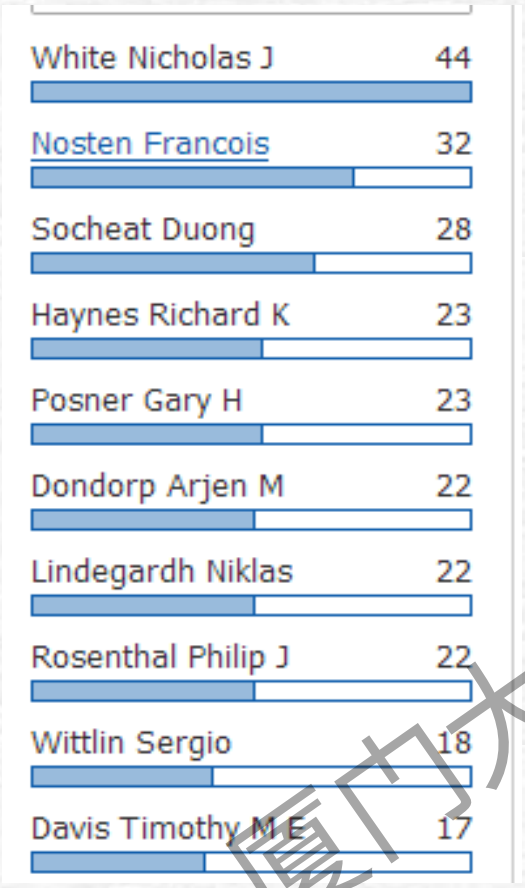




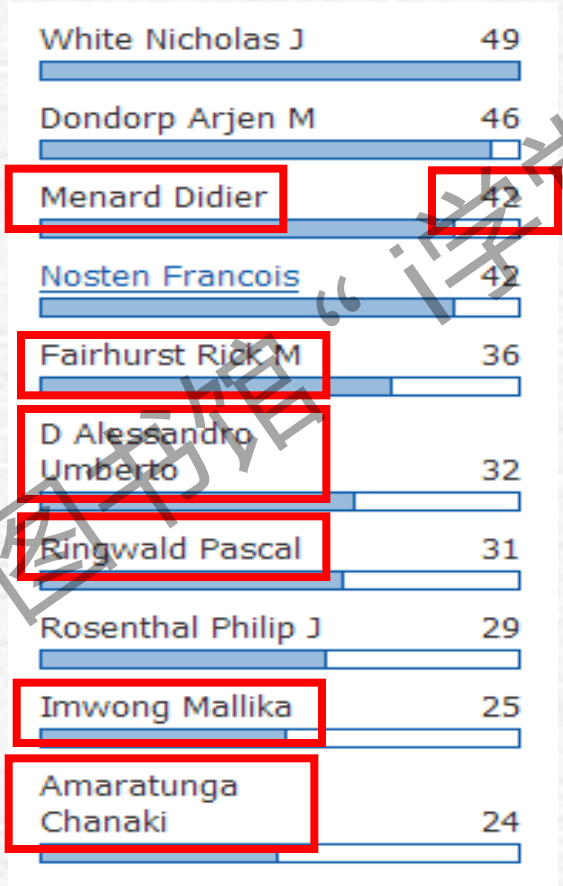


Scifinder

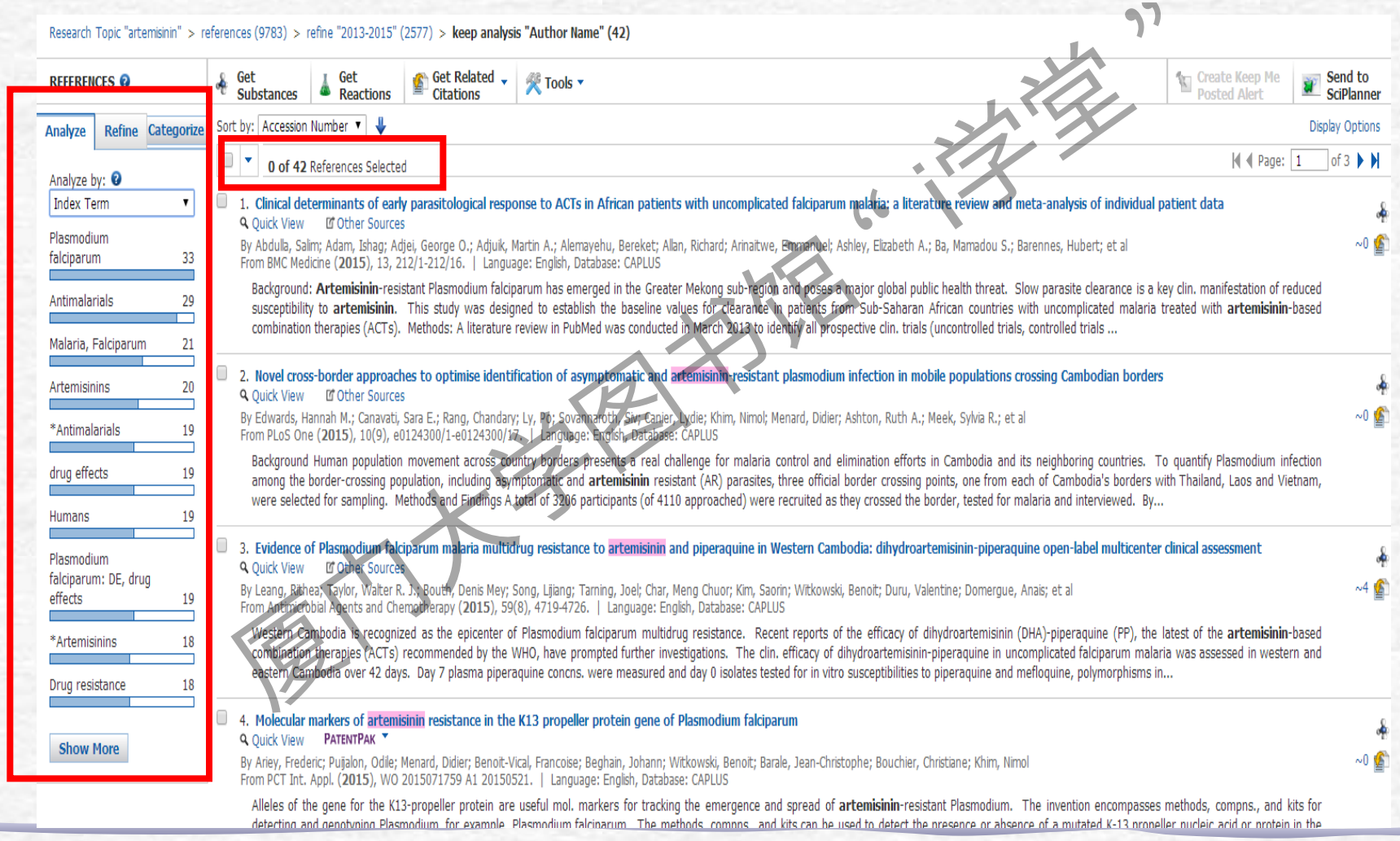
思路：从近几年新出现的核心作者去发现研究热点



2010-2012



2013-2015


Research Topic "artemisinin" > references (9783) > refine "2013-2015" (2577) > keep analysis "Author Name" (42)
REFERENCES
Get Substances
Get Reactions
Get Related Citations
Tools
Create Keep Me Posted Alert
Send to SciPlanner
Analyze
Refine
Categorize
Analyze by:
Index Term
Plasmodium falciparum 33
Antimalarials 29
Malaria, Falciparum 21
Artemisinins 20
*Antimalarials 19
drug effects 19
Humans 19
Plasmodium falciparum: DE, drug effects 19
*Artemisinins 18
Drug resistance 18
Show More
Sort by: Accession Number
Display Options
0 of 42 References Selected
Page: 1 of 3
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, Bereket; 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, Pó; Sovannaroth, Siv; Canier, Lydie; Khim, Nimol; Menard, Didier; Ashton, Ruth A.; Meek, Sylvia R.; et al
From PLoS One (2015), 10(9), e0124300/1-e0124300/17. | 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 malaria multidrug resistance to artemisinin and piperaquine in Western Cambodia: dihydroartemisinin-piperaquine 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 Chuor; 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)-piperaquine (PP), the latest of the artemisinin-based combination therapies (ACTs) recommended by the WHO, have prompted further investigations. The clin. efficacy of dihydroartemisinin-piperaquine in uncomplicated falciparum malaria was assessed in western and eastern Cambodia over 42 days. Day 7 plasma piperaquine concns. were measured and day 0 isolates tested for in vitro susceptibilities to piperaquine and mefloquine, polymorphisms in...
4. Molecular markers of artemisinin resistance in the K13 propeller protein gene of Plasmodium falciparum
Quick View
PATENTPAK
By Ariey, Frederic; Puijalon, 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

Results List

Institutions

Filter Results By

Changing the filter field removes all current filters.

Add Filter »

× Chemistry

Include Results For

Hot Papers

Clear | Save Criteria

Map View by Top / Hot / Highly Cited Papers | Show Visualization +

Report View by Selection | Customize

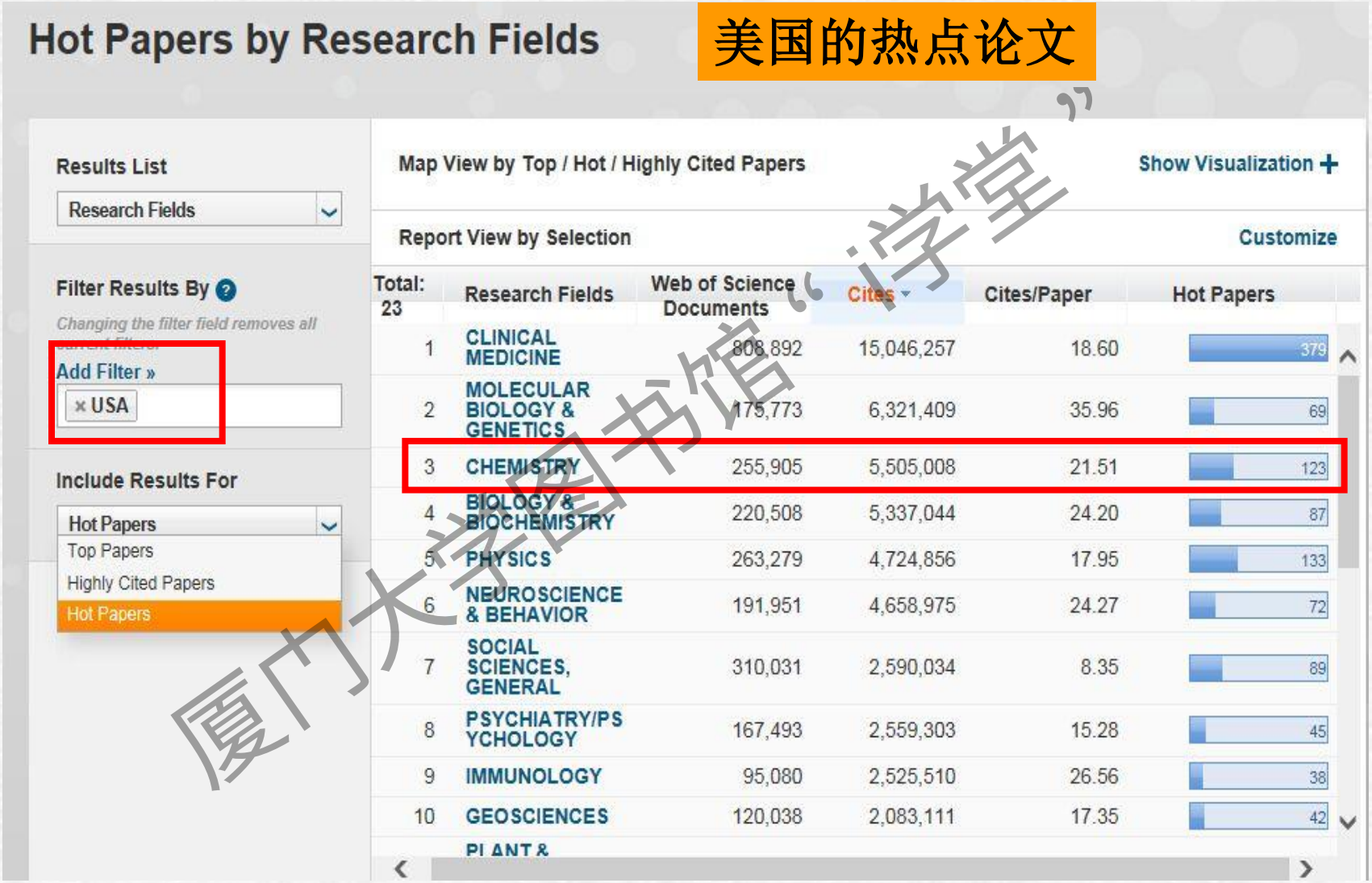
Total: 1141	Institutions	Web of Science Documents	Cites	Cites/Paper	Hot Papers
1	CHINESE ACAD SCI	62,082	995,462	16.05	22
2	CNRS	47,722	812,373	17.02	10
3	UNIV CALIF SYSTEM	21,818	649,236	29.76	18
4	US DEPT ENERGY	21,349	522,588	24.48	12
5	MAX PLANCK SOCIETY	12,536	298,773	23.83	4
6	SWISS FEDERAL INSTITUTES 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

高被引论文

热点论文

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	CHEMISTRY	341,120	3,703,859	10.86	94
2	PHYSICS	211,346	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
	PHARMACOLOG				

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Total: 1141	Institutions	Web of Science Documents	Cites	Cites/Paper	Hot Papers
1	CHINESE ACAD SCI	62,082	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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Total: 1895	Research Fronts	Top Papers	Mean Year
1	GRAPHENE OXIDE ADSORPTION;FEW-LAYERED GRAPHENE OXIDE NANOSHEETS;GRAPHENE OXIDE NANOSHEETS INVESTIGATED;GRAPHENE OXIDE NANOSHEETS DECORATED;GRAPHENE OXIDE NANOSHEETS	50	20
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	
3	ENANTIOSELECTIVE ELECTROPHILIC TRIFLUOROMETHYLTHIOLATION;BROSTED ACID-CATALYZED ELECTROPHILIC TRIFLUOROMETHYLTHIOLATION;LEWIS ACID-CATALYZED ELECTROPHILIC TRIFLUOROMETHYLTHIOLATION;SILVER-MEDIATED OXIDATIVE ALIPHATIC C-H TRIFLUOROMETHYLTHIOLATION;ELECTROPHILIC AROMATIC TRIFLUOROMETHYLTHIOLATION	47	20
	SINGLE-ELECTRON TRANSFER DEGENERATIVE CHAIN TRANSFER LIVING RADICAL POLYMERIZATION;PHOTOINDUCED METAL-FREE ATOM TRANSFER RADICAL POLYMERIZATION;CU(0)-WIRE-		

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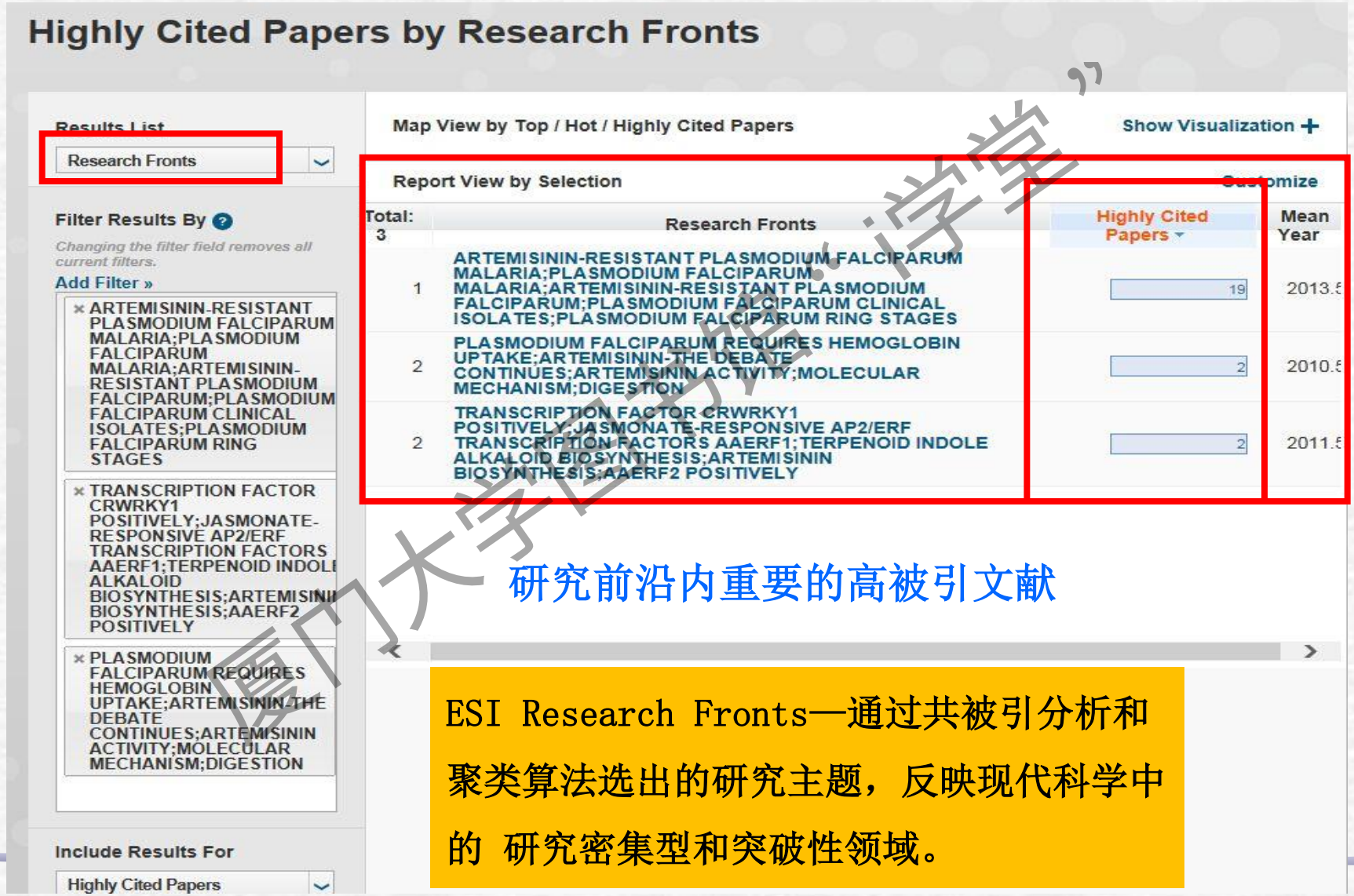
1	EMISSION DYE BASED RED FLUORESCENT ORGANIC NANOPARTICLES;TETRAPHENYLETHENE-BASED AGGREGATION-INDUCED EMISSION FLUORESCENT ORGANIC NANOPARTICLES;EMISSION DYE-BASED FLUORESCENT ORGANIC NANOPARTICLES;POLYMERIZABLE AGGREGATION-INDUCED EMISSION DYE-BASED FLUORESCENT NANOPARTICLES;AIE BASED FLUORESCENT ORGANIC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

青蒿素相关的三个研究前沿



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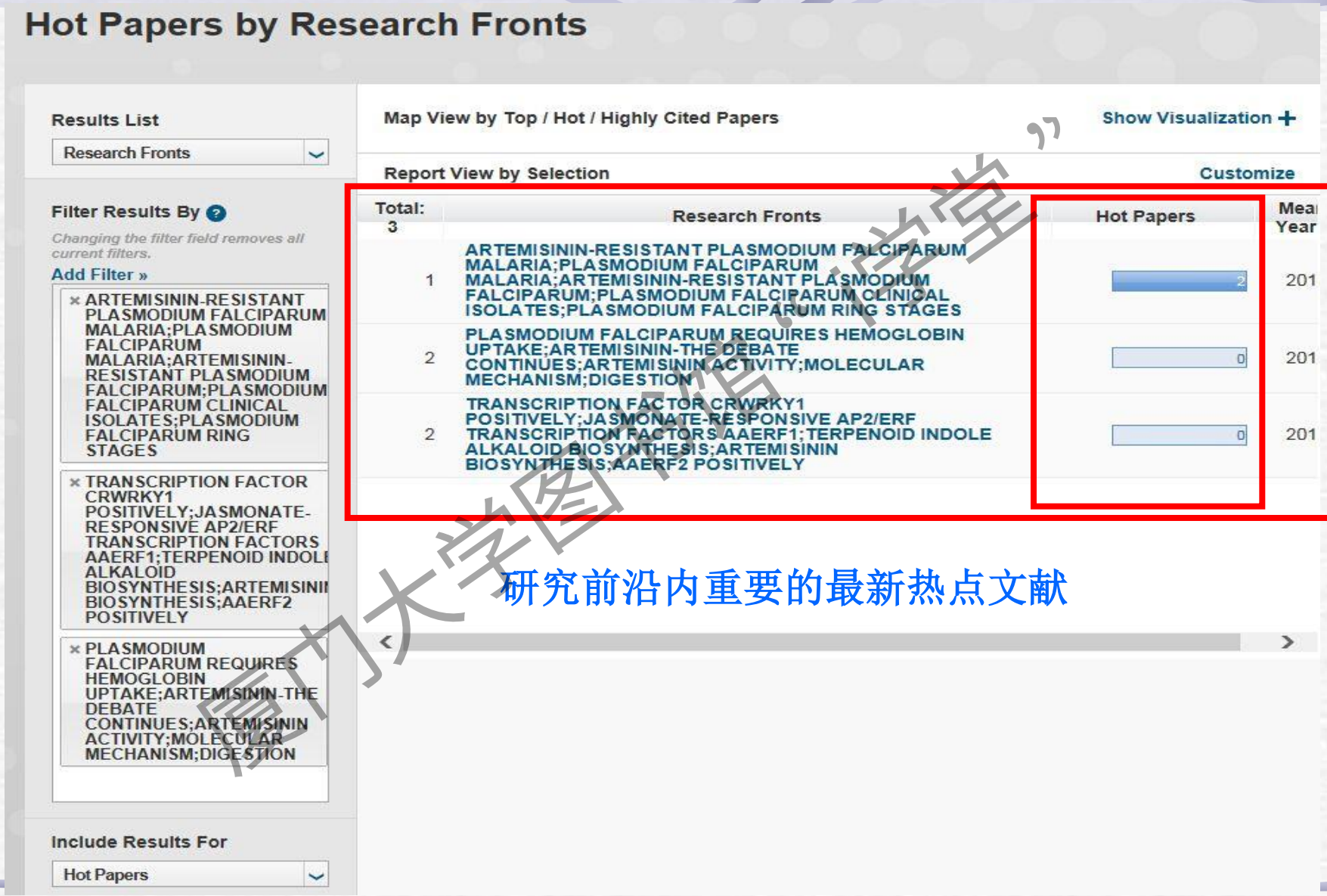
Hot Papers by Research Fronts



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作者: Verlinden, 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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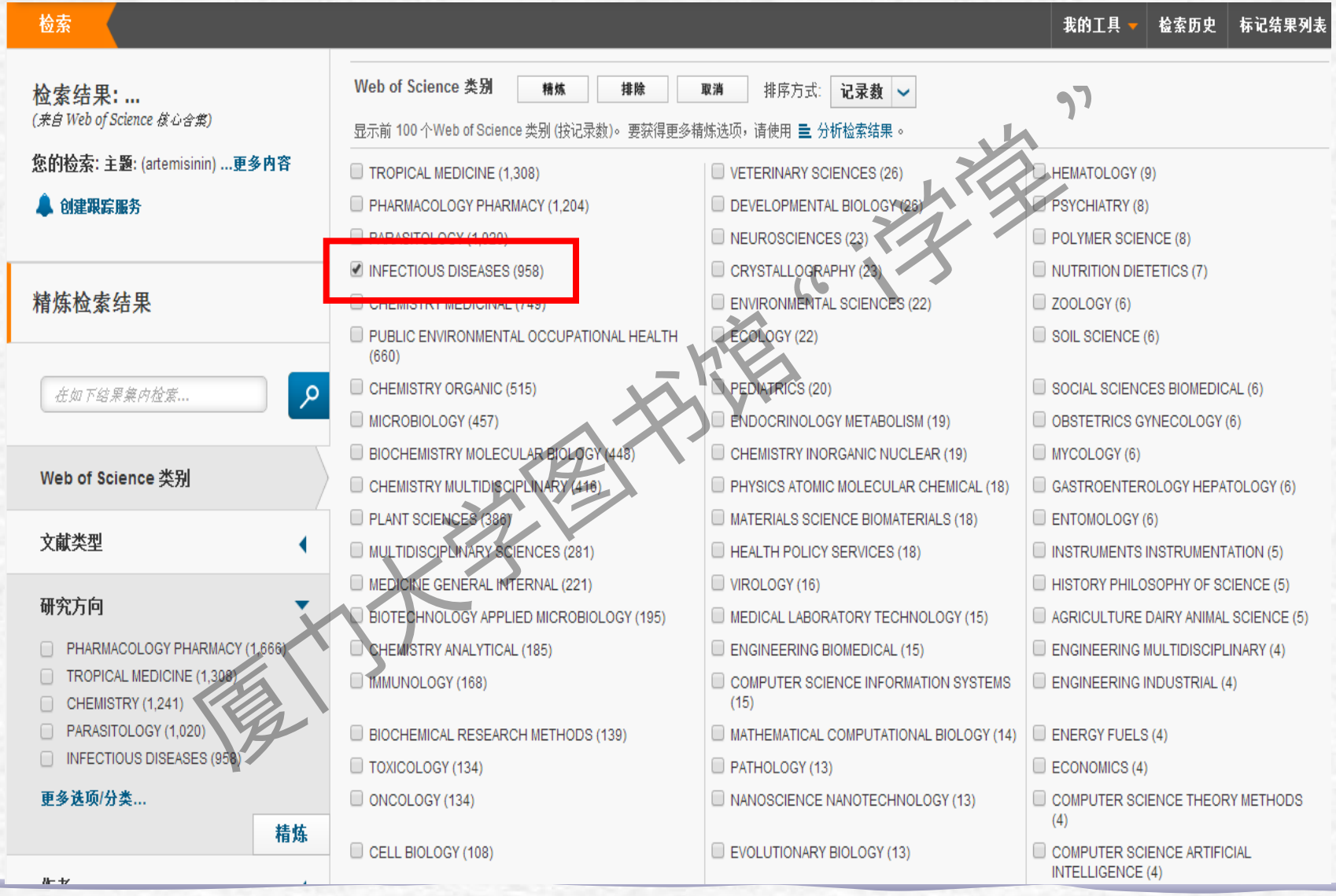


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enjamin J.; Spijker, Rene; 等.
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作者: Rehman, Khalid; Sauerzopf, Ulrich; Veletzky, Luzia; 等.
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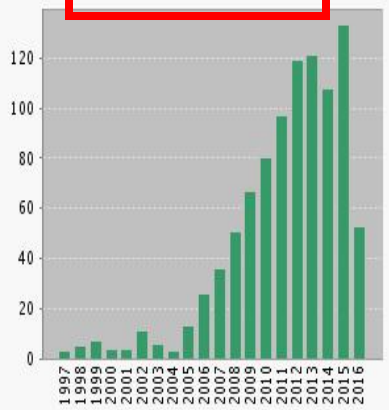

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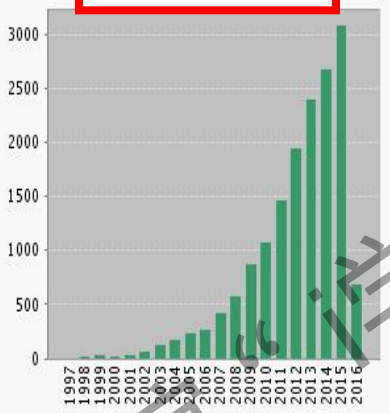

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1. Epidemiology of drug-resistant malaria 作者: Wongsrichanalai, C; Pickard, AL; Wernsdorfer, WH; 等. LANCET INFECTIOUS DISEASES 卷: 2 期: 4 页: 209-218 出版年: APR 2002	27	32	24	30	6	455	30.33
2. Changes in the burden of malaria in sub-Saharan Africa 作者: O'Meara, Wendy Prudhomme; Mangeni, Judith Nekesa; Steketee, Rick; 等. LANCET INFECTIOUS DISEASES 卷: 10 期: 8 页: 545-555 出版年: AUG 2010	42	43	32	35	10	203	29.00

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作者引用的参考文献，可追溯研究的历史

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Epidemiology of drug-resistant

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

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
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 pfcrt 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; MEFLOQUINE RESISTANCE

作者信息

通讯作者地址: Wongsrichanalai, C (通讯作者)

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作者分析：跟踪领域内重要科研人员的研究进展

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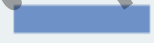
PARASITOLOGY	643	67.119 %	
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Bioanalytical Chemistry, p 1-6, February 12, 2016
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3. **In vitro anti-cancer effects of artemisone nano-vesicular formulations on melanoma cells**
Dwivedi, Anupma (Centre of Excellence for Pharmaceutical Sciences, North-West University, Potchefstroom, South Africa); Mazumder, A
Source: *Nanomedicine: Nanotechnology, Biology, and Medicine*, v 11, n 8, p 2041-2050, November 1, 2015
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4. **In vitro antimalarial activity and molecular modeling studies of novel artemisinin derivatives**
Gaur, Rashmi (Medicinal Chemistry Division, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, India); Cheema, Harvee
Mahendra Padurang; Khan, Feroz; Bhakuni, Rajendra Singh **Source:** *RSC Advances*, v 5, n 59, p 47959-47974, 2015
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5. **Mn(ii) mediated degradation of artemisinin based on Fe<inf>3</inf>O<inf>4</inf>@MnSiO<inf>3</inf>-FA n**
Chen, Jian (Collaborative Innovation Center of Suzhou Nano Science and Technology, Department of Materials Science and Engineering

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1. **Method for preparing Chlorophyllin copper salt**

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By Li, Jili; Chen, Zhou

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

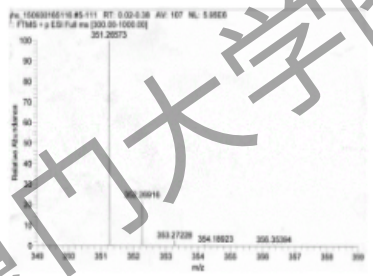
A process for prepn. of Chlorophyllin copper sodium salt is disclosed. The process comprises elution the adsorbent on silica gel column during **Artemisir** NaOH soln., adjusting the pH value to 11, extg. with petroleum ether and adjusting pH = 2-3, adding 20% $CuSO_4$ to get Chlorophyllin copper sodium 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-diamino 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...

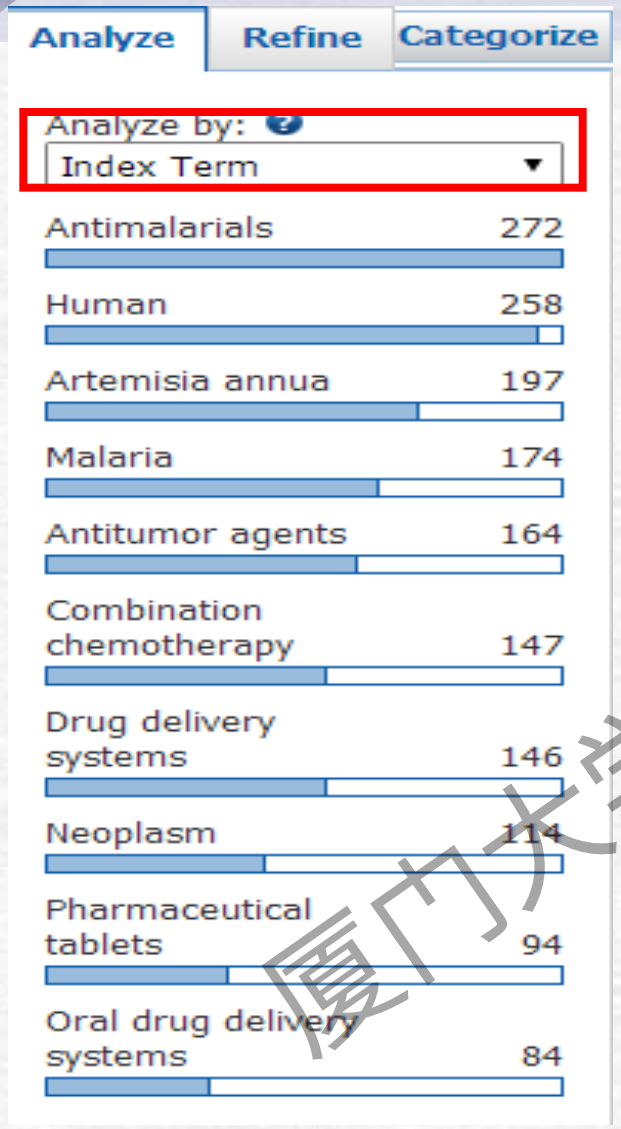
3. **Bacillus cereus and its application in promoting the growth of Artemisia annua and/or improving the yield of artemisinin**

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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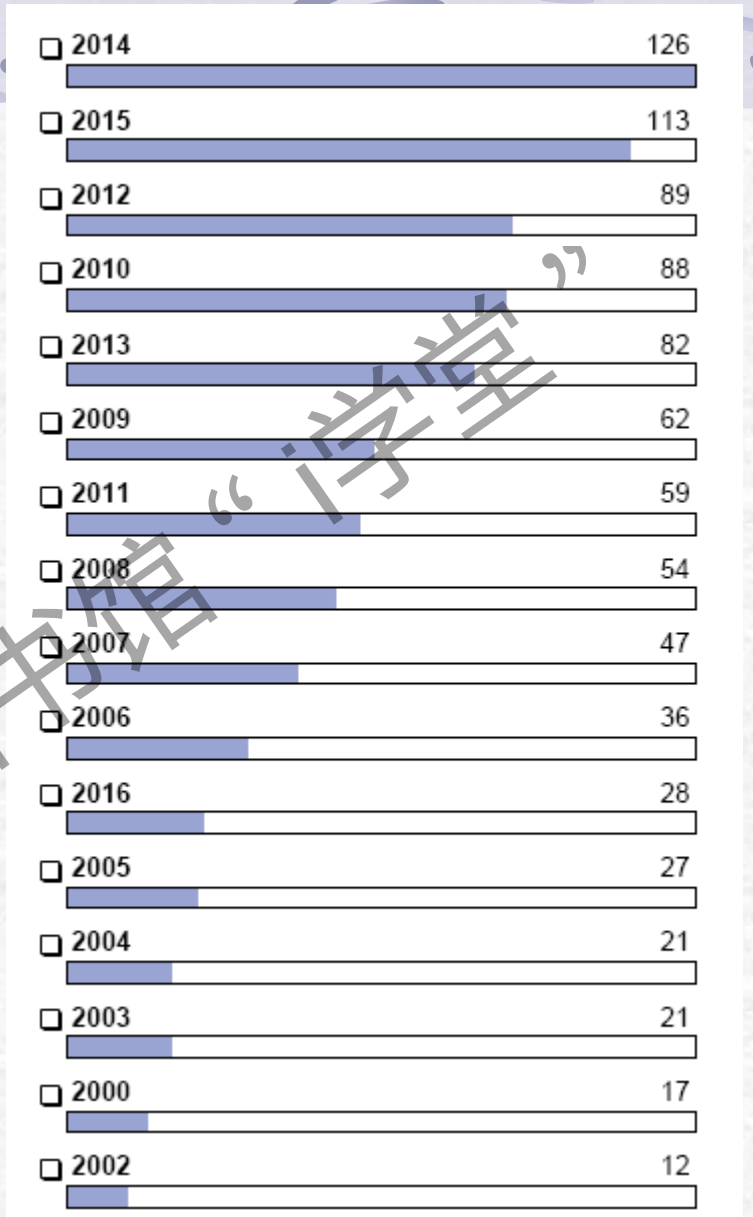
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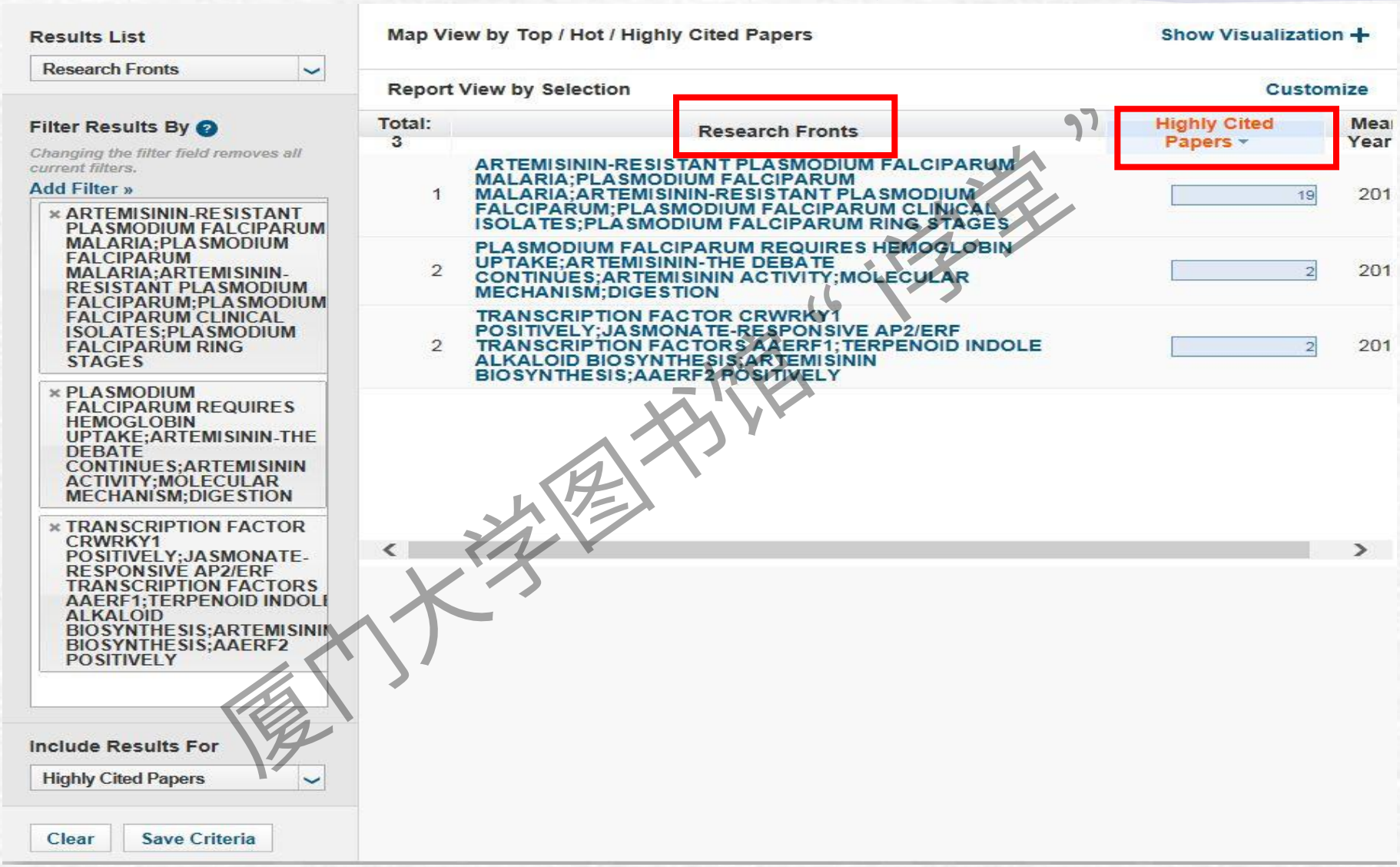

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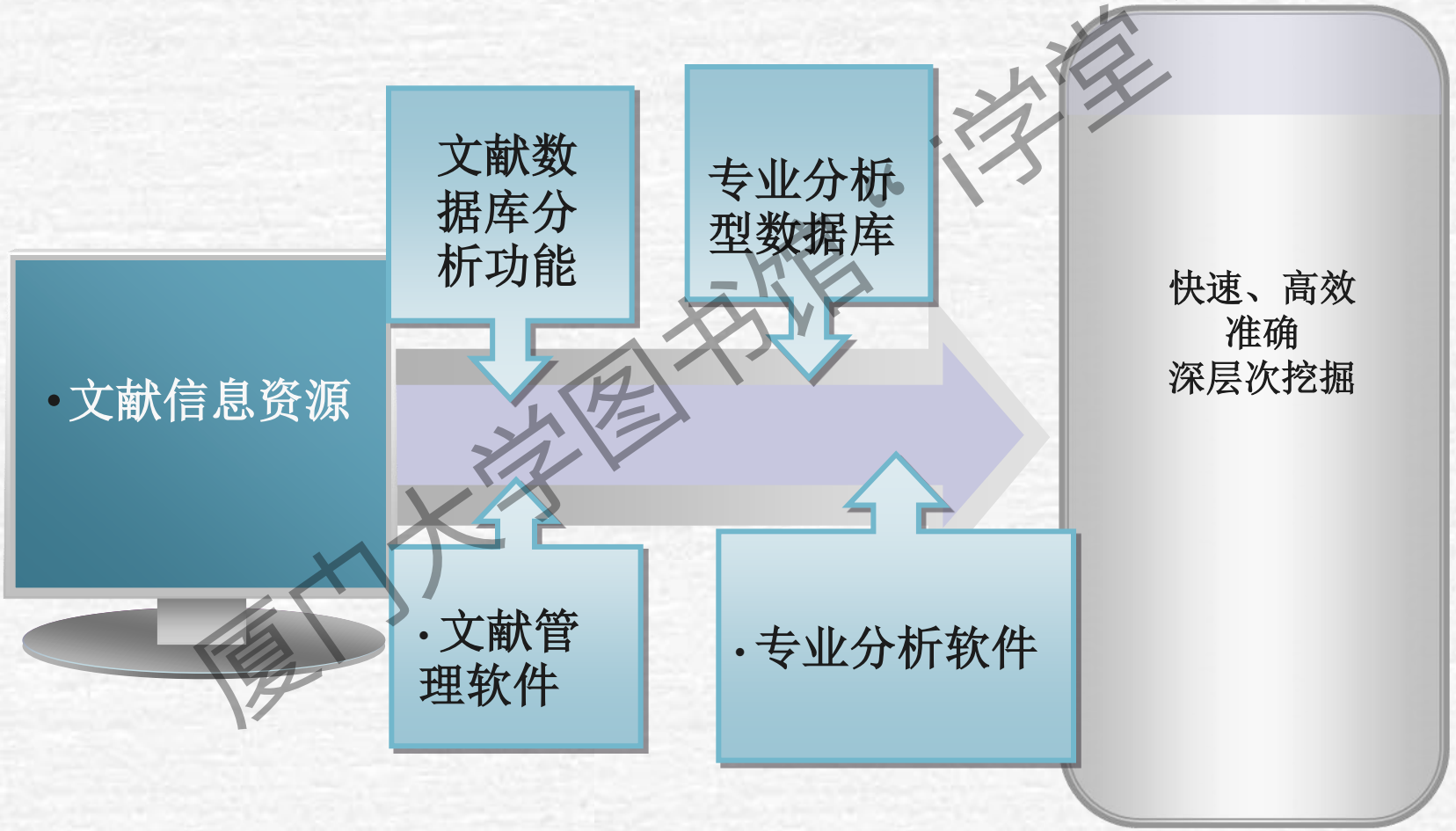

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