SciFinder 数据库 DRAA 集团采购方案
DRAA Consortium Proposal of SciFinder
（2019.1.1 – 2021.12.31）

SciFinder®是访问全球最全面、最权威的化学及相关学科文献、物质信息及反应信息资源的科研应用平台，由美国化学会（ACS）旗下的美国化学文摘社（Chemical Abstracts Service，简称"CAS"）研制提供。CAS 是全球唯一一家致力于追踪、收集及管理所有已公开的化学物质信息的权威机构，CAS 编辑科学家团队收集管理并严格控制着数据库的质量。

SciFinder® is a research discovery application that provides unlimited access to the world's most comprehensive and authoritative source of references, substances and reactions in chemistry and related sciences. It is produced by Chemical Abstracts Service (CAS), a division of American Chemical Society. CAS is the only organization in the world whose objective is to monitor, collect and organize worldwide publicly disclosed chemical substance information. The global team of CAS scientists curate and assure the quality of the information in the databases.

通过将这些数据库内容与先进的检索、分析技术相结合，CAS 通过 SciFinder 提供最及时、完整、安全的交联式数字信息环境，以助力加速科学发现。通过 SciFinder，用户不仅可以访问自 1907 年创刊的《化学文摘》的所有内容，而且可以访问回溯到 19 世纪初、直至今日每日收录更新的更加广泛而全面的内容。SciFinder 内容来源包括学术期刊、全球专利机构的专利文献、学位论文、会议论文、印前期刊、图书、网络内容（如美国国立医学图书馆数据库）等。所涵盖的学科包括应用化学、化学工程、普通化学、物理、生物学、生命科学、医学、高分子、材料学、地质学、食品科学和农学等诸多领域。

By combining its scientific databases with advanced search and analysis technologies, CAS delivers the most current, complete, secure and interlinked digital information environment for scientific discovery. Through SciFinder, users not only can access all issues of Chemical Abstracts™ since its first issue in 1907, they can also access much more extensive and comprehensive contents from the early 20th century through today's daily-updated contents. SciFinder's content includes journals, international patents, dissertations, proceedings, pre-press papers, books and internet contents such as the Medline database. SciFinder covers, among other subjects, applied chemistry, chemical engineering, general chemistry, physics, biology, life sciences, medicine, polymers, materials science, geology, food science and agronomy.

SciFinder数据库还提供两个解决方案模块：专利流程解决方案PatentPak及合成、分析解决方案MethodsNow。
SciFinder offers two more solutions modules: patent workflow solution PatentPak® and synthesis/analysis methods solution MothodsNow®.

PatentPak®是服务于科研人员和知识产权人士的专利分析解决方案。PatentPak 在定位和分析大量专利中的化学结构方面，可以为研究人员节省一半以上的时间。PatentPak 是加速化学专利分析最可靠的工具；迄今为止只有 PatentPak 采用人工标引——研究人员可以快速识别专利中难以发现的物质（例如，表格化合物和图形图像内的化合物）。使用 PatentPak 可以访问 CAS REGISTRY^{SM}——世界上最全面的可公开获取的物质信息集合。

PatentPak® is a patent analysis solution for research and IP professionals. Researchers can save up to half the time spent locating and analyzing chemical structures from voluminous patents. PatentPak is the most reliable tool for accelerating chemical patent analysis; so far only PatentPak employs human indexing which allow hard-to-fine substances in patents to be identified, e.g., if found inside tables and graphic images. PatentPak accesses CAS REGISTRY^{SM}, the most comprehensive collection of publicly-available substance information in the world.

PatentPak 由 CAS 独家提供，可以通过 CAS 的产品 SciFinder®和 STN®获取。PatentPak 为科研人员和知识产权专业人士带来诸多优势。

Available exclusively from CAS through its SciFinder and STN platforms, PatentPak provides research and IP professionals with many essential benefits.

- 可靠性——人工标引与 CAS REGISTRY 数据相结合，保证信息的可靠性。
- 节省时间——精准定位专利中的化学信息，节省大量时间。快速进行专利分析，满足关键业务所需要的严格时间限制。
- 易于使用——关键物质和位置标记符号的交互式链接，便捷地追踪难以发现的化学信息。
- 内容量庞大并且不断扩充——涵盖 31 家全球专利授权机构的专利全文 PDF 文件，持续增加新公布的专利。

MethodsNow®是世界上最大的分析和合成方法合集。MethodsNow 提供分析方法和合成方法的每步详细操作信息。涵盖的领域有：药理学、毒理学、食品科学、天然产物分析、农业分析、生物分析方法、燃料/地质/生物燃料、有机化合物分析、金属有机/无机化合物和水质分析。

MethodsNow ® is the largest analytical and synthetic methods collection in the world. It features step-by-step instructions for analytical and synthetic methods in areas including pharmacology, toxicology, food science, natural product analysis, agricultural analysis, bioassays, fuels/geology/biofuels, organic compound analysis, organometrallics/inorganics, and water analysis.

MethodsNow 收录了来自全球著名出版社（如，ACS、Wiley、Elsevier、RSC、Thieme 等）的 200 多种顶级英文期刊和专利中的 455 万余种合成方法。MethodsNow 同时也收录了来自超过 4,000 种期刊的 48.2 万余种分析方法。CA 数据库中收录的任何期刊都可以被包括在 MethodsNow 分析和合成方法合集中（被收录的必要条件是其中的方法可以被人工标引为详细的逐步信息）。

MethodsNow contains 4.55 million synthetic methods from more than 200 top English language journals from prominent publishers (such as ACS, Wiley, Elsevier, RSC, Thieme, etc.) and patents. It contains more than 482,000 analytical methods from over 4,000 journals. Any journal title covered in the CA databases is eligible for inclusion in MethodsNow Analysis and Synthesis Collection. The requirement for inclusion is the ability to intellectually curate a method into steps.

主要的功能特色：
- 轻松获取数百万种公开披露的方法详情，节省时间
- 快速逐步对比分析方法
- 以易于阅读的表格形式展示实验详情
- 包括实验用材料、仪器、实验条件和其他更多信息
- 涵盖顶级期刊及专利中的合成制备信息
- 由 CAS 科学家创建的更易于获取信息的检索功能：新的 CAS 方法识别号®（CAS Method Number® indentifiers）

Key features are as the following:
- Saves time with easy access to method details from millions of disclosed procedures
- Lets you quickly compare analytical methods side-by-side
- Displays experimental details in easy-to-read table format
- Inclludes materials, instrumentation, conditions and more
- Covers synthetic preparations from top journals and patents
- Features content curated by CAS scientists for superior discoverability and new CAS Method Number® identifiers for quick reference

1. **适用对象：**中国高校图书馆数字资源采购联盟 DRAA 成员图书馆。

   Target Users: Chinese university member school libraries under the DRAA (Digital Resource Acquisition Alliance of Chinese Academic Libraries).

2. **提供的产品：SciFinder (可选择以并发用户使用模式或无并发限制使用模式)**

SciFinder 并发用户使用模式，即 SciFinder Concurrent User，简称 "CU"；
SciFinder 无并发限制访问，即 SciFinder Academic Unlimited Access，简称 "AUAP"。
SciFinder 并发用户使用模式及 SciFinder 无并发限制访问统称"SciFinder"。

Product Offered: SciFinder Concurrent User model is called "CU" model. SciFinder Academic Unlimited Access model is called "AUAP" model. The CU and AUAP models are collectively referred to as "SciFinder".

3. 费用和集团订购条件
Costs and Terms for this Consortium

CAS 将继续提供 4 种类型学校订购模式：Bachelor, Master, PhD2 和 PhD3。关于四种适用模式的学校的描述如下：
CAS will continue to offer purchase model for 4 types of schools: Bachelor, Master, PhD2 and PhD3. Description of each type of the four types of schools is as follows:

- **Bachelor School：**指无化学、化学工程及相关专业博士、硕士授予权，仅有化学、化学工程及相关专业学士授予权的学校。
  Bachelor School – the highest degree conferred is a Bachelor of Chemistry, Bachelor of Chemical Engineering, and/or Bachelor in Chemistry-related majors, without rights to confer PhD and Masters degrees in Chemistry, Chemical Engineering and/or Chemistry-related majors.

- **Masters School：**指没有化学、化学工程及相关专业博士授予权，仅有化学、化学工程及相关专业硕士授予权的学校。
  Masters School – the highest degree conferred is a Masters of Chemistry, Masters of Chemical Engineering, and/or Masters in Chemistry-related majors, without rights to confer PhD degrees in Chemistry, Chemical Engineering, and/or Chemistry-related majors.

- **PhD2 School：**指有化学、化学工程及相关学科博士授权、但博士生、硕士生、博士后和教师人数不超过 100 人的学校。
  PhD2 School – the highest degree conferred is a PhD, <u>and</u> the school has less than 100 PhD students, Masters students, Post-Docs, and faculties in Chemistry, Chemical Engineering and/or related Chemistry-related majors.

- **PhD3 School：**指有化学、化学工程及相关学科博士授予权且博士生、硕士生、博士后和教师人数超过 100 人的学校。
  PhD3 School – the highest degree conferred is a PhD <u>and</u> the school has at least 100 PhD students, Masters students, Post-Docs, and faculties in Chemistry, Chemical Engineering and/or related Chemistry-related majors.

化学相关专业指生物化学、物理化学等等。
Examples of Chemistry-related majors include Biochemistry, Physical Chemistry, etc.

CAS 有权对各个级别学校的订购资格做最后的审定。
CAS has the rights to audit the type of schools and revise the purchase model.

SciFinder 数据库 2019 年—2021 年订购期间，每年涨幅为 4.8%。
The annual price increase of SciFinder license fee from 2019-2021 is 4.8%.

现有集团客户各级别用户 2019 年-2021 年各年度费用请参见各学校续订回执。每所学校可以在两种续订模式中进行选择——并发用户模式或无并发限制访问模式。2019 年 1 月 1 日以后新增学校，将收到以下并发用户使用模式报价：
Renewal fees for years 2019-2021 are set forth in each current member schools' Renewal Order. Each current member school is offered two renewal options: SciFinder Concurrent User and SciFinder Academic Unlimited Access. New member schools added after January 1, 2019 will receive Concurrent User access for the following license fees.

SciFinder Concurrent User Access				
School Type	# of Paid CU's	2019	2020	2021
PhD3	10	$177,460	$185,980	$194,905
	9	$168,855	$176,960	$185,455
	8	$156,280	$163,780	$171,640
	6	$128,885	$135,070	$141,555
PhD2	6	$121,215	$127,035	$133,135
	4	$95,630	$100,220	$105,030
	2	$65,785	$68,945	$72,255
	1	$41,615	$43,615	$45,710
Masters	4	$90,840	$95,200	$99,770
	2	$59,555	$62,415	$65,410
	1	$37,835	$39,650	$41,555
Bachelors	2	$36,545	$38,300	$40,140
	1	$26,895	$28,185	$29,540

PatentPak License Fee			
School Type	2019	2020	2021
PhD3	$9,800	$10,270	$10,765
PhD2	$7,500	$7,860	$8,235
Masters	$4,500	$4,715	$4,940
Bachelors	$2,520	$2,640	$2,765

MethodsNow License Fee			
School Type	2019	2020	2021
PhD3	$15,000	$15,720	$16,475
PhD2	$12,300	$12,890	$13,510
Masters	$6,800	$7,125	$7,465
Bachelors	$3,600	$3,775	$3,955

a. DRAA 集团成员之前在上个订购期持续获得由于自 SciFinder 客户端转为 SciFinder on Web 而取得两个免费赠送的并发用户的学校，凡在 2019 年—2021 年期间按原并发数续订或增购并发用户数的学校将继续免费获赠 2 个并发用户数。集团成员如减少并发用户数订购，则不能享受此项馈赠政策，CAS 将取消赠送的 2 个并发用户数。
CAS will continue providing two complimentary CUs for those DRAA member schools who got the above-mentioned two complimentary CUs during the transition from SciFinder Client to SciFinder on Web only if the schools maintain, or increase, the number of CUs they purchase for the 2019-2021 term. Member schools that reduce the number of CUs for the 2019-2021 term will not enjoy the complimentary CUs.

b. 集团成员如果希望 2019-2021 年期间在上述报价基础上增加并发用户，可通过美国艾赛思国际有限公司北京代表处另外询价，并支付相应的升级费用。
Member schools who would like to add more CUs during the 2019-2021 term require separate quotation through ACSI Beijing and may require payment of additional license fees.

    c. 适用 SciFinder 无并发限制访问模式的学校必须在 2019 年—2021 年期间满足以下条件：
        To qualify for AUAP access, member schools must satisfy the following requirements for the entire 2019-2021 term:

        1. 所有该校 SciFinder 用户均必须使用学校域名邮箱；
             All member school SciFinder users must use a member school domain email address;
        2. 学生毕业之后或教师从学校离职之后，学校域名邮箱即撤销；
             After a student graduates from the member school or faculty member is no longer employed by the member school, the user's school email account must be immediately terminated; and
        3. 不使用 SciFinder Academic 用于商业用途或代表商业机构使用。
             Use of SciFinder Academic for a commercial purpose or by, or on behalf of, a commercial organization is prohibited.

CAS 有权根据之前的合规使用记录决定是否提供无并发限制使用以及集团成员是否达到 CAS AUAP 的标准。向集团成员提供 AUAP 价格不代表该学校有资格专为 AUAP 访问。成员学校能够适用 AUAP 价格还取决于是否符合上述条件。
CAS reserves the right to provide unlimited access based on review of past compliance issues and a member school's ability to meet CAS's AUAP criteria. By providing AUAP pricing, CAS does not guarantee a member school qualifies for AUAP access. A member school's ability to receive AUAP access remains contingent upon the above requirements.

如成员学校在采用 SciFinder 无并发限制访问模式时，无法达到以上要求，则该学校需在收到 CAS 书面通知 15 日内采取行动达到以上要求，否则 CAS 有权终止该校对 SciFinder 的访问直至违约行为停止。
If a member school with SciFinder AUAP fails to satisfy any of the above requirements, the member school must remedy the violation within 15 days of notice from CAS. CAS may terminate the member school's SciFinder access until the violation is fully remedied.

    d. 本次 DRAA 团购期限为 2019 年 1 月 1 日—2021 年 12 月 31 日。每年 1 月 1 日是 SciFinder 的调价时间，所以 1 月 1 日以后加入的新成员，其当年价格可能会略高，需向 CAS 另外询价。次年续订时，则和集团价格统一。
        The term of this DRAA consortium renewal is January 1, 2019 through December 31, 2021. SciFinder license fees are adjusted on January 1 each year. Therefore member schools that join after January 1 of a calendar year may be required to pay a license fee slightly higher than license fees quoted in this renewal summary. The license fee in the next year will be in accordance with DRAA consortium price.

本方案指定中国图书进出口（集团）总公司、北京中科进出口有限责任公司、中国教育图书进出口有限公司、中国图书进出口上海公司为代理公司。根据 2016 年《高校图书馆数字资源采购联盟第三次代理商招标定标公告》，上述中标代理商承诺遵守《高校图书馆数字资源采购联盟章程与工作规范》，履行《高校图书馆数字资源采购联盟第三次代理商中标合同》，请各图书馆自行选择。每年度 12 个月的使用费（1 月 1 日—12 月 31 日）应在每年 3 月 1 日前支付。

This Proposal appoints China National Publications Import & Export Corp, Beijing Zhongke Import & Export Ltd, China Educational Publications Import & Export Corporation Ltd and China National Publications Import & Export Corporation Shanghai as agency. According to 'The 3rd DRAA Announcement on the Agent Bidding and Scaling' in 2016, the above-mentioned agents promised to DRAA to abide by 'the DRAA Articles of Association and Work Norms', and perform 'The Third DRAA Agent Bid Contract'. Member school libraries have full rights to choose the agent by its own decision. License Fees for each 12-month period (January 1 - December 31) shall be made in full by March 1 each calendar year.

年内新加入集团的用户须在正式订购日起 1 个月内付款。
New member schools must make payment within 1 month of their SciFinder license purchase.

逾期未付款的，CAS 将根据协议有权关闭欠款用户的使用。
CAS has the rights to suspend SciFinder access of any member schools that have not paid their license fees in accord with the above payment requirements.

4. 试用和授权协议
Trial and License Agreement

SF Academic 提供 30 天的试用。试用单位需签署"授权协议"。以前已经试用过 SciFinder 的学校，不能再次参加试用。
SciFinder offers a complimentary trial for prospective new member schools. The prospective member school must sign a trial agreement before the trial may begin. Those schools who have conducted a SciFinder Academic trial before may not do trial again.

试用期间，CAS 为试用学校提供无并发使用模式的使用权限。用户可以使用浏览、检索功能，但不能使用保存功能。用户需提前订购才能在试用后让使用不中断。
During the trial period, CAS will provide AUAP access to the prospective member school. Users can browse and search, but cannot save search results. The prospective member school must place an order to license SciFinder if they want to continue their SciFinder access after the trial.

使用代理服务器的单位需书面保证非授权用户不得通过代理服务器访问 SciFinder。DRAA 集团学校对 SciFinder 的访问需遵循 DRAA (以前称 "CALIS")所签的 SciFinder 使用协议。
Member schools using a proxy server must ensure that no unauthorized users can access SciFinder via proxy servers. All SciFinder access by member schools is subject to the DRAA SciFinder license agreement.

5. 使用统计
Usage Statistics

CAS 每月会定时向各集团用户提供使用统计。
CAS will provide monthly usage report to each member school.

6. 西部（特定省区）优惠方案
为支持国家西部大开发战略，CAS 特为以下省区提供优惠方案：甘肃、青海、陕西、宁夏、新疆、四川、重庆、云南、贵州、西藏、内蒙、广西。上述省区订购 SciFinder 的 DRAA 成员学校将获得一个免费的并发用户。

Special Offering for Universities in Western Provinces
In order to support China's national strategy of 'Development of the West', CAS will offer special terms for the following provinces: Gansu, Qinghai, Shaanxi, Ningxia Hui Autonomous Region, Xinjiang Uygur Autonomous Region, Sichuan, Chongqing, Yunnan, Guizhou, Tibet autonomous region, Inner Mongolia Autonomous Region, Guangxi search Zhuang Autonomous Region. DRAA member schools in the above provinces and regions will get one complimentary CU when placing the SciFinder order during the period of this proposal.

7. 赠予在线课程资源 Chemistry Class Advantage
Chemistry Class Advantage 是 CAS 专门为本科生开发的一个全新的在线课程资源。以课堂教学的知识点为线索进行设计，利用 SciFinder 及发表的期刊文章帮助有机化学的学生通过批判性地评价研究文献来进行化学学习。Chemistry Class Advantage 为教师提供了辅导学生学习的资源：

- 巩固加深对课堂上正在研究的有机化学课程的理解
- 利用真实的化学反应揭示所学的化学知识
- 利用已发表的研究来了解有机化学的关键方面
- 批判阅读和评价研究文献

这个新的解决方案的目标是通过 SciFinder 技能应用以及利用 ACS 出版物期刊文章帮助学生训练科研思考方式。Chemistry Class Advantage 为 beta 版本，供包括从醇类到 α-碳化学的八个主题，提供涵盖有机

化学教学大纲的 103 个课程。

CAS 将为 DRAA 成员学校免费提供 Chemistry Class Advantage 在线课程，作为增强学生的科学技能应用的补充资源。CAS 将为那些选择使用该在线资源的学校提供客户支持。

Complimentary Online Course Resources Chemistry Class Advantage
Chemistry Class Advantage is a new learning solution for undergraduate organic chemistry students. Organized by topics taught in the classroom, Chemistry Class Advantage harnesses the power of SciFinder and research published in journal articles to help teach organic chemistry students to learn chemistry by critically evaluating the research literature. Chemistry Class Advantage will help faculty instruct students to:

- refine their understanding of the organic chemistry topics being studied in class
- review real-world reactions that illustrate the empirical nature of chemistry
- leverage published research to learn critical aspects of organic chemistry
- critically read and evaluate research literature

The goal of this new solution, enhanced through SciFinder skills application as well as journal articles from ACS Publications, is to help students to begin to think more like researchers. Covering eight topics from alcohols to alpha carbon chemistry, the beta version of Chemistry Class Advantage comprises 103 available lessons across the organic chemistry curriculum.

CAS will offer Chemistry Class Advantage online course to DRAA member schools as complimentary resource to enhance students' SciFinder skills application. CAS will provide customer support to schools who choose to use these online resources.

本方案有效期至 2018 年 11 月 30 日。本方案的期限为 2019 年-2021 年，CAS、DRAA 及 DRAA 成员学校对方案中的条款保密。如您有任何问题，请联系美国艾赛思国际有限公司北京代表处中国区总经理马清扬女士（cma@acs-i.org）。

This 2019-2021 DRAA Consortium Proposal of SciFinder is valid through November 30, 2018. The terms of this DRAA Consortium Proposal for the 3-year term of 2019-2021 are confidential among CAS, DRAA, and DRAA member schools. Should you have any questions, please contact Ms. Caroline Ma, China General Manager, ACS International Ltd Beijing Representative Office at cma@acs-i.org.
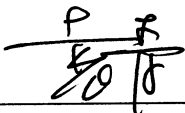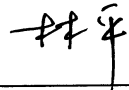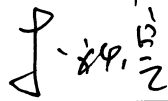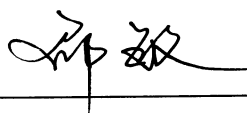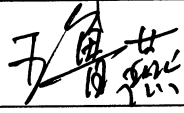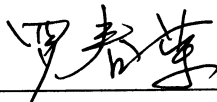
SciFinder数据库DRAA集团采购方案签名页
（2019.01.01-2021.12.31）

1. 牵头单位

集团采购牵头单位：清华大学图书馆

邵敏，电话 010-62797015，传真 010-62781758，邮箱 shaomin@lib.tsinghua.edu.cn

于宁，电话 010-62784906，传真 010-62781758，邮箱 yuning@lib.tsinghua.edu.cn

2. 谈判组成员

姓 名	单位	签 字
袁青	华中科技大学图书馆	
林平	四川大学图书馆	
李秋实	天津大学图书馆	
邵敏	清华大学图书馆	
邵晶	西安交通大学图书馆	
王鲁燕	中国农业大学图书馆	
罗春荣	中山大学图书馆	

3. 数据库提供方

SciFinder 数据库由美国化学会（ACS）提供，数据库提供方签字：

数据库联系人	数据库负责人
马清扬 电话：010-62508028 手机：13501122312 传真：010-62508029 邮箱：cma@acs-i.org 地址：北京海淀区科学院南路2号融科资讯中心B座1010 邮编：100190	马清扬 中国区总经理 签字/Signature： 日期/Date：2018.5.17

4. DRAA 秘书处

该数据库方案已通过 DRAA 理事会审核，由北京大学图书馆代章。

秘书处联系人	秘书处负责人
李莹 电话：010-62755595-120 邮箱：liy@calis.edu.cn 地址：北京市海淀区颐和园路5号北京大学图书馆135-G 邮编：100871	肖珑 DRAA副理事长/北京大学图书馆副馆长 签章/Signature： 日期/Date：2018/07/06

DRAA 引进 SciFinder 评估报告
SciFinder Evaluation Report for DRAA

1. 产品简介
Product Introduction

CAS 简介：

Introduction to Chemical Abstracts Service (CAS)

美国化学文摘社（Chemical Abstracts Service，简称"CAS"）， 隶属于美国化学会（American Chemical Society，简称"ACS"），是全球提供化学信息及解决方案的权威机构。秉承美国化学会"通过化学的力量改善人们的生活"的愿景，美国化学文摘社专业的科学家团队致力于发现、收集及管理所有公开的化学信息，创建了世界上对于创新至关重要的、最有价值的内容集合。全球的科研人员及从事专利的专业人士都依赖美国化学文摘社提供的研究解决方案实现其科研发现并提高研发工作效率。CAS 通过其产品 STN、SciFinder、PatentPak、MethodsNow 等为科研及专利专家提供信息检索和分析。

Chemical Abstracts Service (CAS), a division of the American Chemical Society (ACS), is the world's authority for chemical information and solutions. With the ACS vision, "Improving people's lives through the transforming power of chemistry", the goal of professional scientists at CAS is to find, collect and organize all publicly disclosed chemistry information in order to form the most important and valuable content collection for innovators in the world. Researchers, chemists and IP professionals rely on the research solutions provided by CAS to realize their scientific discovery and improve efficiency. CAS provides information search and analysis tools to researchers and IP professionals through its products STN, SciFinder, PatentPak and MethodsNow, etc.

CAS 全球约 1,400 名员工，总部位于美国俄亥俄州哥伦布市。
CAS has about 1,400 staff totally, headquarters are located in Columbus, OH, USA.

CAS 提供给 DRAA 成员使用的产品是 SciFinder，及 PatentPak 和 MethodsNow 模块。
SciFinder、PatentPak、MethodsNow 在中国由 CAS 在中国的代表机构美国艾赛思国际有限公司北京代表处提供全程的本土化服务。

DRAA members can purchase a SciFinder, PatentPak and MethodsNow access license for academic institutions from CAS. ACS International, Ltd. Beijing Representative Office will, on behalf of CAS, provide the local services for the DRAA members in China.

CAS 产品历史及发展简况

History & Development of CAS Products

CAS 在 1907 年成立之初为用户提供的产品是纸本《化学文摘》，其在 1995 年开始为科研工作者提供在线访问方式的数据库平台——SciFinder。在内容上，SciFinder 除了完整的涵盖所有纸本《化学文摘》的内容外，还包括物质数据库、化学反应数据库、化学品在线以及化合物合规管控信息等等。在功能上，SciFinder 提供多种检索途径及多种后处理功能。

CAS published the print Chemical Abstracts™ when it was founded in 1907, and developed the online database SciFinder in 1995. SciFinder not only includes all the *Chemical Abstracts* contents, but also includes much more comprehensive data such as substance database and reaction database, CHEMCATS (commercial suppliers information), regulation information, etc. SciFinder provides various search methods and post-process functions.

2. 资源内容与数量

Resources and Content

总体收录情况：SciFinder 是一个强大的检索、分析工具，通过 SciFinder 可访问全球最大的化学信息合集。数据库收录的文献来自 180 多个国家，累计收录期刊 5 万余种，收录现近万种。除期刊外，还收录了全球专利授权机构的专利。文献最早回溯到 19 世纪初。

Overview to the Content: SciFinder is a powerful search and analysis tool which accesses the world's largest information collection in chemistry and related science in the world. It covers resources from more than 180 countries and more than 50 languages. Coverage includes more than 50,000 scientific journals cumulatively worldwide, with thousands of active titles currently covered; 63 patent authorities, technical reports, books, conference proceedings, and dissertations published around the world.   The earliest records date back to the beginning of 19th century.

- SciFinder 收录范围广泛，可确保研究人员不会遗漏关键信息。可访问的内容来自以下数据库：化学物质数据库 CAS REGISTRY[SM]、参考文献数据库 CAplus[SM]、化学反应数据库 CASREACT®、管制化学品数据库 CHEMLIST®、化学品供应商数据库 CHEMCATS®、化学工

业札记数据库 <u>CIN</u>®、马库什结构数据库 <u>MARPAT</u>®及美国国立医学图书馆数据库 <u>MEDLINE</u>。

SciFinder has comprehensive coverage. SciFinder provides access to the following databases: chemical substances database <u>CAS REGISTRY</u>^{SM}, references database <u>CAplus</u>^{SM}, reaction database <u>CASREACT</u>®, regulated chemicals database <u>CHEMLIST</u>®, chemical suppliers database <u>CHEMLIST</u>®, Chemical Industry Notes database <u>CIN</u>®, Markush database <u>MARPAT</u>® and the database from the National Library of Medicine <u>MEDLINE.</u>

- CAS 数据库包括的内容有：超过 1.42 亿个有机和无机化学物质，6700 余万条序列、4700 余万篇文献、1.06 亿条反应（>超过 9000 万条单步和多步反应，超过 1420 万条合成制备信息）、超过 38.8 万个物质名录管制化学品、来自全球数百家商用化学品供应商提供的数百万种化学品、超过 170 万条《化学工业札记》记录、超过 110 万个可检索的马库什结构、1200 余万篇专利（截至到 2015 年 9 月 18 日）。

  The scope of the CAS databases data: over 142 million organic and inorganic substances, over 67 million sequences, over 47 million reference records, 106 million reactions (>90 million single- and multi-step reactions and >14.2 million synthetic preparations), 388,000 inventoried or regulated chemicals, hundreds of suppliers of commercial chemicals worldwide with millions of commercially available chemicals , 1.7 million CIN records, 1.1 million searchable Markush structures, and over 12m patents. (Statistics as of May 11, 2018)

- 学科收录范围：应用化学、化学工程、普通化学、物理、生物学、生命科学、医学、大分子、材料科学、地质科学、食品科学和农学等诸多领域。

  Content Subjects: Applied Chemistry, Chemical Engineering, General Chemistry, Physics, Bioscience, Life Science, Medicine, Macromolecules, Polymers, Materials, Geology, Food Science, Agricultural and other related sciences.

- SciFinder 提供的数据每日更新。

  SciFinder content is updated every day.

3. 资源检索系统与功能

Search and Function

检索平台的基本情况：

Search Platform introduction

　　1) SciFinder 采用网页方式登录。

3

Access SciFinder by browser.

2) 检索方式：作者、研究主题、化合物分子式、化合物结构式、化合物名称、CAS 登记号、机构名等；

Search Options: Author, Research Topic, Formula, Structure, Chemical Name, CAS REGISTRY Number, Company Name etc.

3) 输出格式：rtf，pdf 和 akx；
Print/export format: rtf, pdf and akx;

4) 可以通过 CAS Full text options 链接全文；
Link the full text by CAS Full text options

5) SciFinder 提供 Keep me posted 的个性化服务；
Keep Me Posted function

- 访问方式
  Access Control

SciFinder 采用 IP 地址＋用户名、密码＋并发用户数的方式控制。
IP address plus IDs/password and Concurrent Users, access by browser.

检索平台的帮助功能：提供中文的检索指南和使用手册。
Help: A Chinese language Search Guide and Handbook are available.

4. 新增专利工作流程解决方案模块 PatentPak

PatentPak 是一个强大的、全新的专利工作流程解决方案，可通过 SciFinder 获取到。基于极大地节约您在通过对多个专利中获取和检索关键化学信息的理念而设计，PatentPak 通过支持用户用熟知的语言对专利及专利族中难以发现化学信息的即时访问，为用户在研究专利时极大地节省时间。
PatentPak™ is a robust patent workflow solution available in SciFinder. Designed to radically reduce time spent acquiring and searching through multiple patents to find vital chemistry, PatentPak saves users up to half the time they spend researching

patents by providing instant access to hard-to-find chemistry in patents and patent families in languages users know.

唯一的专利工作流程解决方案, PatentPak 可提供：

The only patent workflow solution of its kind, PatentPak offers:

- 即时访问全球主要专利局提供的可检索的专利全文

  Instant access to searchable full-text patents from major patent offices around the world

- 用多种语言覆盖的专利族

  Patent family coverage in multiple languages

- 物质定位工具

  Substance location mapping

- 安全且可靠的专利研究

  Secure and confidential patent research

- 每日更新

  Daily updates

- SciFinder 中内嵌的交互式阅读器

  Interactive patent chemistry viewer with built-in SciFinder search functionality

一旦您定位了一篇感兴趣的专利，即可使用 PatentPak 选项立即浏览该专利的全文，通常根据专利族提供源语言专利文献。CAS 信息分析人员将专利中重要化学信息进行了标引。您可在独特的专利互动阅读器中浏览标引过的专利，快速定位您所需要查询的物质所在的位置。

Once you have located a patent of interest, use PatentPak to immediately view full-text documents, often available in a variety of source languages depending on the patent family. CAS analysts have annotated the important chemistry in many patents available in PatentPak. You can view the annotated patent in our unique interactive patent chemistry viewer to quickly pinpoint in the document the substance locations that you need to see.

快速连接到来自全球主要专利局提供的可供检索的专利全文，获取超过 1,200 万篇专利，且数量每天增加：

Instantly connect to searchable, full-text patents from major patent offices spanning the globe. Over 13 million patents, with new patents added daily.

专利局包括：

Key patent Offices covered:

- DPMA –德国专利商标局(DE)

  DPMA – German Patent and Trade Mark Office (DE)

- EPO –欧洲专利局(EP)

  EPO – European Patent Office (EP)

- INPI –法国专利局(FR)

  INPI – French Patent Office (FR)

- IPO –英国知识产权局(GB)

  IPO – Intellectual Property Office (GB)

- JPO –日本专利局(JP)

  JPO – Japan Patent Office (JP)

- WIPO –世界知识产权组织(WO)

  WIPO – World Intellectual Property Organization (WO)

- USPTO –美国专利商标局(US)

  USPTO – United States Patent and Trademark Office (US)

- ROSPATENT –俄罗斯联邦知识产权局(RU)

  ROSPATENT – Federal Service for Intellectual Property (RU)

- KIPRIS –韩国专利局(KR)

  KIPRIS – Korean Intellectual Property Rights Information Service (KR)

- CGPDTM –印度专利设计商标局(IN)

  CGPDTM – Controller General of Patents Designs and Trademarks (IN)

- SIPO –中华人民共和国国家知识产权局(CN)

SIPO - State Intellectual Property Office of the P.R.C. (CN)

5. 新增实验及分析方法解决方案模块 MethodsNow

MethodsNow®是世界上最大的分析和合成方法合集。MethodsNow 提供分析方法和合成方法的每步详细操作信息。涵盖的领域有：药理学、毒理学、食品科学、天然产物分析、农业分析、生物分析方法、燃料/地质/生物燃料、有机化合物分析、金属有机/无机化合物和水质分析。

MethodsNow® is the largest analytical and synthetic methods collection in the world. It features step-by-step instructions for analytical and synthetic methods in areas including pharmacology, toxicology, food science, natural product analysis, agricultural analysis, bioassays, fuels/geology/biofuels, organic compound analysis, organometallics/inorganics, and water analysis.

MethodsNow 收录了来自全球著名出版社（如，ACS、Wiley、Elsevier、RSC、Thieme 等）的 200 多种顶级英文期刊和专利中的 455 万余种合成方法。MethodsNow 同时也收录了来自超过 4,000 种期刊的 50 万余种分析方法。CA 数据库中收录的任何期刊都可以被包括在 MethodsNow 分析和合成方法合集中（被收录的必要条件是其中的方法可以被人工标引为详细的逐步信息）。

MethodsNow contains 4.55 million synthetic methods from more than 200 top English language journals from prominent publishers (such as ACS, Wiley, Elsevier, RSC, Thieme, etc.) and patents. It contains more than 500,000 analytical methods from over 4,000 journals. Any journal title covered in the CA databases is eligible for inclusion in MethodsNow Analysis and Synthesis Collection. The requirement for inclusion is the ability to intellectually curate a method into steps.

主要的功能特色：
- 轻松获取数百万种公开披露的方法详情，节省时间
- 快速逐步对比分析方法
- 以易于阅读的表格形式展示实验详情
- 包括实验用材料、仪器、实验条件和其他更多信息
- 涵盖顶级期刊及专利中的合成制备信息
- 由 CAS 科学家创建的更易于获取信息的检索功能：新的 CAS 方法识别号®（CAS Method Number® indentifiers）

Key features are as the following:
- Saves time with easy access to method details from millions of disclosed procedures
- Lets you quickly compare analytical methods side-by-side
- Displays experimental details in easy-to-read table format
- Includes materials, instrumentation, conditions and more
- Covers synthetic preparations from top journals and patents
- Features content curated by CAS scientists for superior discoverability and new CAS Method Number ® identifiers for quick reference

6. 用户服务

Service

- 为新客户提供免费试用，期限为 1 个月。

  Free trial for new customers: 1 month

- 培训及支持：美国艾赛思国际有限公司北京代表处每年至少为用户提供一次培训，并配备有专职的客服人员及时帮助客户解决使用中的问题。客服人员邮箱为：china@acs-i.org。

Training & support: Provide at least 1 training per year plus the professional customer service to answer the questions the customers asked. The service email address: china@acs-i.org.

- 使用统计：每个月为用户提供相应的使用统计，主要联系人可以使用管理员账号自助登录进行查询。

Usage report: provide the monthly usage report.

7. 资源的价格、采购方案及使用成本
Price, Proposal and the Cost

集团范围:所有 DRAA 集团成员凡授予化学、化学工程或化学相关专业（如生物化学、物理化学等）学位的都可以加入集团进行订购，截止到 2018 年 5 月，共有 159 家集团用户。

All DRAA academic institution members that confer a degree in Chemistry, Chemical Engineering and/or Chemistry-related majors (e.g., Biochemistry, Physical Chemistry, etc.) are eligible to join the consortium. As of May 2018, there are 159 academic institution members in the consortium.

组团及续订时间：2005 年 1 月 1 日第一次组团，每年续订时间为 1 月 1 日。
Renewal period: SciFinder access for this consortium started on January 1, 2005 and renews on January 1 each year.

使用成本：2017 年共使用检索次数为 15,050,878 个，平均每个检索次数的使用成本为 0.76 美金。
Cost: The total searches were 15,050,878 in 2017. The cost is $0.76 per search averagely.

备注：在以前的 DRAA SciFinder 数据库集团采购方案中，单位使用成本是以任务数为单位计算的。由于 SciFinder 使用统计现已改为以检索次数为统计单位，因此此次报告更新为以检索次数为计算依据评估单位使用成本，以便与各 DRAA 成员学校收到的月度使用统计报告相一致。为了解因统计标准改变带来的成本核算单位的变化可能带来的影响，现作此简要说明。总体来讲，以任务数为计算单位的使用统计报告用量大于以检索次数为单位的使用统计报告用量。比如：文献检索任务数等于检索次数，精确结构检索花费的任务数是检索数的 1.5 倍，亚结构检索花费的任务数则是检索数的 3 倍。据此 2017 年 SciFinder 检索次数远远高于 2014 年使用任务数，SciFinder 使用成本呈明显下降趋势。

Note: In the previous DRAA SciFinder consortium proposal for the period of 2016-2018, the unit usage cost was calculated based on the number of tasks. Since the time of DRAA's 2016-2018 proposal, SciFinder usage statistics have evolved to a different metric model which aligns with the monthly usage report each member school receives. This report provides several statistics including, but not limited to, the number of searches. In order to understand the impact to the evaluation of unit cost due to the change of the metric standards, a brief description is given here. In general, the usage of statistical reports in terms of task number is larger than the usage statistics based on the number of searches. For example, the number of reference retrieval (tasks) equals to the number of searches; while the number of tasks retrieved by an exact structure is 1.5 times that of the number of searches; substructure retrieval costs 3 times tasks compared with the number of searches. Based upon these calculations, it may be concluded that DRAA's overall cost of using SciFinder has decreased.