



# DIMENSIONS ANALYTICS – 基础功能使用指南

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## 主页概览

Dimensions 首页为三栏布局，从左至右分别为 Filters（分类筛选），Results（检索结果），以及 Analytical views（分析视窗）。Search bar（检索区域）位于页面最上方中间栏。

The screenshot displays the Dimensions homepage with a search bar at the top center. The page is divided into three main columns: Filters, Results, and Analytical Views. The search bar contains the text "e.g. plastic AND instrument". The Filters column on the left lists various categories for filtering results. The Results column in the center shows a list of publications, including titles, authors, and abstracts. The Analytical Views column on the right provides a summary of research categories and an overview of citations.

**SEARCH BAR**

**FILTERS**

- GROUPS
- PUBLICATION YEAR
- RESEARCHER
- FUNDER
- COUNTRY OF FUNDER
- RESEARCH ORGANIZATION
- LOCATION - RESEARCH ORGANIZATI...
- RESEARCH CATEGORIES
- PUBLICATION TYPE
- SOURCE TITLE
- PUBLISHER
- JOURNAL LIST
- OPEN ACCESS

**RESULTS**

**ANALYTICAL VIEWS**

**RESEARCH CATEGORIES**

Category	Citations
11 Medical and Health Sciences	20,918,800
09 Engineering	13,261,470
1103 Clinical Sciences	11,076,131
06 Biological Sciences	8,941,611
03 Chemical Sciences	7,790,864

**OVERVIEW**

Citations: **1.3B** (Total), **11.58** (Mean)

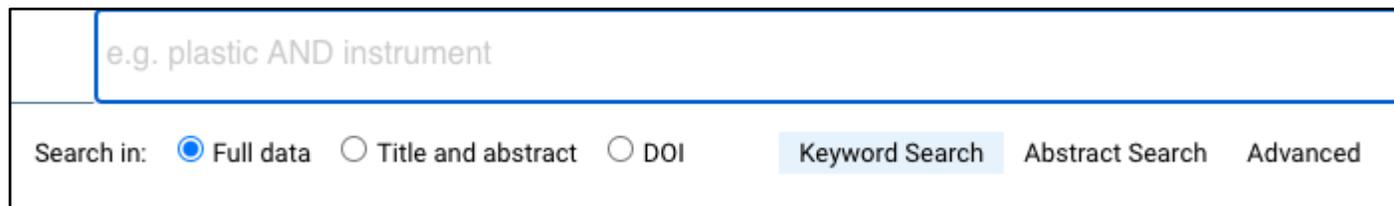
**OPEN ACCESS**

Open Access Status	Citations
Closed	88,168,772
All OA	33,162,938
Bronze	10,790,265
Gold	10,099,367
Green	9,546,000

## 检索类型

Dimensions 支持以下多种类型检索。

- 使用关键词在全文内检索



The screenshot shows a search bar with the text "e.g. plastic AND instrument". Below the search bar, there are three radio buttons under "Search in:": "Full data" (selected), "Title and abstract", and "DOI". To the right of these radio buttons are three buttons: "Keyword Search" (highlighted in light blue), "Abstract Search", and "Advanced".

Dimensions 与 130 余家出版商签订的全文本挖掘协议可以支持使用关键词在文献全文内进行检索。这部分文献占平台总量的 70%。

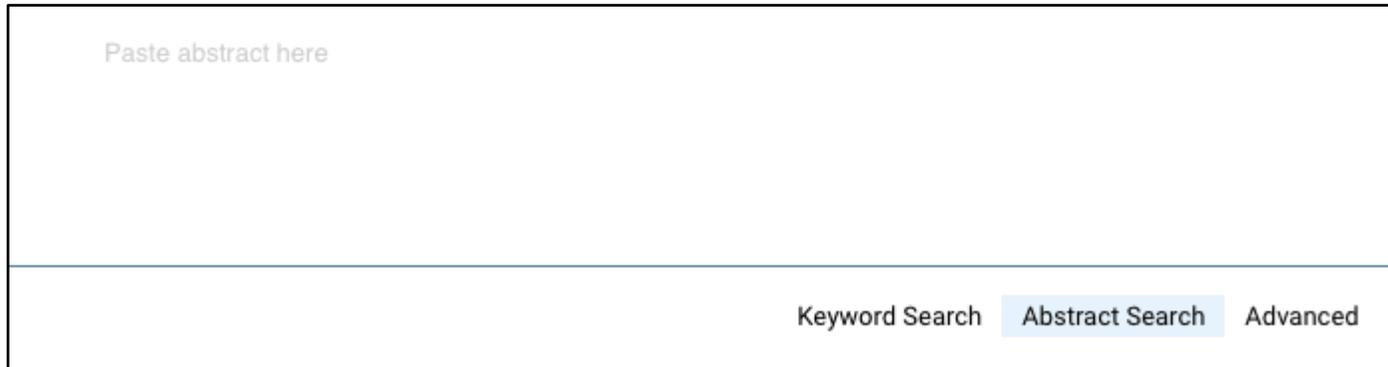
- 使用关键词在标题和摘要内检索



The screenshot shows a search bar with the text "e.g. plastic AND instrument". Below the search bar, there are three radio buttons under "Search in:": "Full data", "Title and abstract" (selected), and "DOI". To the right of these radio buttons are three buttons: "Keyword Search" (highlighted in light blue), "Abstract Search", and "Advanced".

使用关键词在标题和摘要内的常规检索得到的结果通常比全文检索少

- 使用摘要检索

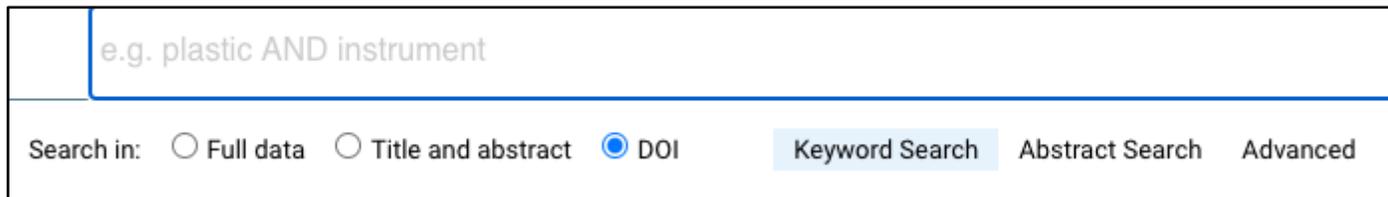


Paste abstract here

Keyword Search **Abstract Search** Advanced

Dimensions 也支持使用摘要检索，通过输入一段描述性文字获取相关内容 – Dimensions 利用自然语言处理技术从输入的文字中提取概念，继而在平台内检索相似的内容。

- DOI 检索（只适用于文献）



e.g. plastic AND instrument

Search in:  Full data  Title and abstract  DOI **Keyword Search** Abstract Search Advanced

在检索栏内输入 DOI，即可快速找到您需要的相关文献。

- 概念关联高级检索

Search in:  Full data  Title and abstract  DOI

(music therapy) OR ("music therapists")

**Hide operator info**

AND Requires both terms on either side of the Boolean operator to be present for a match

OR Requires that either term (or both terms) be present for a match

NOT Requires that the following term not be present

() Use parentheses to control the Boolean logic for a query

? Single character wildcard (cannot be used inside of quotes)

\* Multiple characters wildcard (cannot be used inside of quotes)

~n Proximity search, e.g. "ambient noise"~4

**CONCEPTS**

Refine your search with co-occurring concepts.

music therapy	ADD
patients	ADD
therapy	ADD
music	ADD
control group	ADD
music therapists	ADD
quality of life	ADD
pain	ADD
systematic review	ADD
music intervention	ADD
blood pressure	ADD
children	ADD
therapy intervention	ADD
effects of music	ADD
heart rate	ADD
music therapy interventions	ADD
intervention	ADD
care unit	ADD
music therapy sessions	ADD
clinical trials	ADD

[Show more](#)

Search in:  Full data  Title and abstract

Add parentheses to create Boolean nesting

打开检索栏，点击下方的“高级检索”（支持所有资源类型）。输入至少一个关键词，用于计算 concepts（概念），支持在全文和标题摘要检索之间进行切换。

通过讲概念关联进行逻辑组合来调整检索范围。

计算概念时使用的术语均来自文献。默认每次显示 20 个条目，点击“show more（显示更多）”，最多可显示 100 条

添加逻辑关系后点击“Recalculate concepts”重新计算结果

## 筛选功能

筛选功能和“高级检索”类似，常被用于定制检索策略，主要包含以下几个维度：

- 日期参数
- 研究人员
- 机构 (经费资助机构, 大学, 企业, 出版商)
- 地点
- 研究学科 (see below)
- 状态 (例如, “进行中”的基金项目, “被授予”的专利)

在检索栏内输入以上术语（如研究人员姓名，研究机构名）得到的结果与使用筛选功能检索的结果会有差异。

由于资源类型不同，筛选栏的设置也略有区别，例如“active year”只适用于基金，对文献则不适用。

为了获得更加精确的检索结果，我们推荐在构建检索策略时优先使用适用的筛选栏。

## 学科分类体系

### [Fields of Research \(FOR\)](#)

Fields of Research (FOR) 来自澳大利亚和新西兰标准研究分类体系 (ANZSRC)，是一套覆盖全学科的分类系统。FOR 系统本身有三个层级（学科代码分别以 2 位，4 位和 6 位数字代表）。在 Dimensions 中我们选取了 2 位数的第一和 4 位数的第二层级，除了理科，工科和医学相关学科以外，也包含社会科学，艺术和历史等人文学科。

### [Research, Condition, and Disease Categorization \(RCDC\)](#)

Research, Condition, and Disease Categorization (RCDC) 是美国国立卫生研究院给国会提供报告时采用的一套学科分类体系。基于该体系对学科的定义，Dimensions 定向开发了一套机器学习算法，为 Dimensions 平台收录的内容自动进行 RCDC 相关学科匹配。

### [Health Research Classification System \(HRCS\) and Research Activity Codes \(RAC\)](#)

Health Research Classification System ([HRCS](#)) 是生物医学领域的经费资助机构常用的针对人体健康和相关研究活动的一套分类体系。HRCS 由 Research Activity Codes 和 Health Categories 两个分支构成。Dimensions 同样采用了机器学习的方法自动为平台上的内容分配相应的 Health Categories

### [ICRP Cancer Types](#)

ICRP 癌症分类体系与癌症研究领域常用的 Common Scientific Outline (CSO) 分类系统互补, 也和世卫组织建立和维护的 International Classification of Diseases 系统关联。更多关于此分类的信息请访问 ICRP 网站 <https://www.icrpartnership-test.org/cancer-type-list>.

基于该体系对学科的定于, Dimensions 利用机器学习的方法给平台上的内容自动分配相应的癌症类型

### [ICRP Common Scientific Outline](#)

Common Scientific Outline (简称 'CSO') 体系将癌症研究分为六大研究方向。CSO 与一套标准的 ICRP 癌症分类体系互为补充。二者结合使用, 为提升公共研究机构, 非盈利机构以及政府研究机构在癌症相关研究领域的高效协作提供有力支持。CSO 由 International Cancer Research Partnership 建立并维护。更多的版本信息, 使用和培训指南可通过访问 ICPR 网站获取 <https://www.icrpartnership.org/cso>. 基于 CSO 体系对学科的定于, Dimensions 利用机器学习的方法给平台上的内容自动分配相应的癌症类型

### [Units of Assessment](#)

Units of Assessment (UoA) 是英国高等学校科研评价体系 Research Excellence Framework 2021 (REF) 使用的一套学科分类。基于 UoA 体系对学科的定于, Dimensions 利用机器学习的方法给平台上的内容自动分配相应的学科代码

### [Sustainable Development Goals](#) (只适用于出版物和基金)

UN Sustainable Development Goals (SDGs) 是联合国制定的 17 个全球发展目标。基于这些目标所要实现的任务以及相应的指标, Dimensions 为平台收录的与之相关的内容自动分配相应的目标名称。

## 检索结果

基于预先设定的检索策略，系统在不同数据源中同步进行检索，结果显示在网页中部视窗内。

The screenshot displays the Dimensions research database interface. At the top, the search bar contains the query "materials synthesis" with a search icon and a close button. Below the search bar, a navigation menu includes "PUBLICATIONS" (78,670), "DATASETS" (58), "GRANTS" (2,635), "PATENTS" (9,314), "CLINICAL TRIALS" (1), and "POLICY DOCUMENTS" (27). The main content area shows two search results. The first result is titled "Platinum-based nanostructured materials: synthesis, properties, and applications." by Aicheng Chen and Peter Holt-Hindle, published in 2010 in Chemical Reviews. It has 970 citations and 3 Altmetric scores. The second result is titled "The role of selection pressure in RNA-mediated evolutionary materials synthesis." by Stefan Franzen, Marta Cerruti, Donovan N Leonard, and Gerd Duscher, published in 2007 in the Journal of the American Chemical Society. It has 13 citations and 6 Altmetric scores. On the right side, there is an "ANALYTICAL VIEWS" section with "RESEARCH CATEGORIES" and "OVERVIEW". The "RESEARCH CATEGORIES" section lists: 03 Chemical Sciences (39,631), 09 Engineering (36,037), 0306 Physical Chemistry (incl. Structural) (29,822), 0912 Materials Engineering (27,730), and 0303 Macromolecular and Materials Chemistry (8,412). The "OVERVIEW" section shows a line graph of citations over time, with a total of 1.9 M citations and a mean of 23.87.

可以在布尔检索和摘要检索的基础上叠加筛选栏:

The screenshot shows the Dimensions search interface. The search bar contains the query "materials synthesis" with a "Free text in full data" option. The search filters are: "2020 OR 2019" (Publication Year), "Tsinghua University" (Research Organization), and "0303 Macromolecular and Mate..." (Fields of Research). The results are displayed in a table with columns for PUBLICATIONS (17), DATASETS (0), GRANTS (0), PATENTS (0), CLINICAL TRIALS (0), and POLICY DOCUMENTS (0). The first result is a publication titled "High-Throughput Preparation of Antibacterial Polymers from Natural Product Derivatives via the Hantzsch Reaction" by Guoqiang Liu, Qiang Zhang, Yongsan Li, Xing Wang, Haibo Wu, Yen Wei, Yuan Zeng, and Lei Tao, published in 2020 in iScience. The article abstract is visible, and there are options to view the PDF, add to library, or add to ORCID. The right sidebar shows analytical views, including research categories and an overview of citations (89) and mean citations (5.24).

如果采用的筛选栏只适用于某种特定的数据源（例如专利的法律状态），那么其他的数据源对于此次结果不做显示

The screenshot shows the Dimensions search interface with the "Granted" filter applied to the "PATENTS" category. The search filters are: "materials synthesis" (Free text in full data) and "Granted" (Legal Status). The results are displayed in a table with columns for PUBLICATIONS (selected filter not applicable), DATASETS (selected filter not applicable), GRANTS (selected filter not applicable), PATENTS (4,505), CLINICAL TRIALS (selected filter not applicable), and POLICY DOCUMENTS (selected filter not applicable). The first result is a patent titled "APPARATUSES AND METHODS FOR COMBUSTION AND MATERIAL SYNTHESIS" by King Abdullah University of Science and Technology (KAUST) - CHUNG, SUK HQ, MEMON, NASIR, ABDQ, Markous, filed in 2014. The second result is a patent titled "METHODS AND APPARATUS FOR SOLID CARBONACEOUS MATERIALS SYNTHESIS GAS GENERATION" by THERMO TECHNOLOGIES LLC - 丹尼斯·詹森, 格里戈里·阿布拉莫夫, 理查德·克拉克, 马蒂斯·德利, filed in 2015. The right sidebar shows analytical views, including research categories and an overview of citations.

## 检索结果排序

检索结果可以按照以下几种方式排序:

出版物  
相关度  
发表日期  
RCR  
FCR  
Altmetric  
score

The screenshot shows the Dimensions search interface for the query "tissue engineer\* -5". The search results are sorted by "Relevance". A dropdown menu is open, showing the following sorting options: Relevance, Publication Date, RCR, FCR, Citations, and Altmetric Attention Score. The first result is "Adipogenesis for soft tissue reconstruction" by Huseyin Karagoz, Fatih Zor, Esra Goktas, and Vijay S Gorantla, published in 2015. The interface includes filters on the left, a central results list, and analytical views on the right.

数据集  
相关度  
发布日期

The screenshot shows the Dimensions search interface for the query "tissue engineer\* -5". The search results are sorted by "Publication Date". A dropdown menu is open, showing the following sorting options: Relevance and Publication Date. The first result is "Model Solutions - Engineered Tissue" by Micha Sam Raredon, published in 2020. The interface includes filters on the left, a central results list, and analytical views on the right.

基金  
相关度  
起始日期  
基金金额  
资助机构

Dimensions

tissue engineer\* ~5

Save / Export Workflow Support Heidi Bec...

FILTERS FAVORITES

PUBLICATIONS 2,364,047 DATASETS 1,383 GRANTS 28,225 PATENTS 690,215 CLINICAL TRIALS 734 POLICY DOCUMENTS 6,954

ANALYTICAL VIEWS

RESEARCH CATEGORIES

09 Engineering 10,960  
0903 Biomedical Engineering 10,068  
11 Medical and Health Sciences 9,343  
06 Biological Sciences 9,200  
0601 Biochemistry and Cell Biology 7,308

Sort by: Relevance

Relevance  
Start Date  
Funding Amount  
Funder

Title, Funder, Investigator

Tissue specific matrix-derived microcarriers for soft tissue regeneration

Natural Sciences and Engineering Research Council

to Claire Yu

chemical engineering, biomedical engineering, tissue engineering, stem cells, extracellular matrix,

专利  
相关度  
申请日期  
专利引用频次

Dimensions

tissue engineer\* ~5

Save / Export Workflow Support Heidi Bec...

FILTERS FAVORITES

PUBLICATIONS 2,364,047 DATASETS 1,383 GRANTS 28,225 PATENTS 690,215 CLINICAL TRIALS 734 POLICY DOCUMENTS 6,954

ANALYTICAL VIEWS

RESEARCH CATEGORIES

06 Biological Sciences 201,734  
11 Medical and Health Sciences 203,695  
0601 Biochemistry and Cell Biology 144,402  
09 Engineering 85,731

Sort by: Relevance

Relevance  
Filed date  
Patent Citations

Title, Assignee, Inventor, Filing status, Jurisdiction, Year - About the metrics

Products for Culturing of Cells or Tissues

Skin Tissue Engineering Pty Ltd -

Application AU - Filed year: 2015

临床试验  
相关度  
起始日期

Dimensions

tissue engineer\* ~5

Save / Export Workflow Support Heidi Bec...

FILTERS FAVORITES

PUBLICATIONS 2,364,047 DATASETS 1,383 GRANTS 28,225 PATENTS 690,215 CLINICAL TRIALS 734 POLICY DOCUMENTS 6,954

ANALYTICAL VIEWS

RESEARCH CATEGORIES

11 Medical and Health Sciences 620  
1103 Clinical Sciences 345  
1112 Oncology and Carcinogenesis 142

Sort by: Relevance

Relevance  
Start year

Title, Sponsor

Establishment of Cell Culture Systems From Discarded Operating Room Tissue

Wake Forest Baptist Medical Center

政策文档  
相关度  
发布日期  
导出结果

每种资源类  
型的检索结  
果都可以分  
别导出元数

据。不同资源类型的元数据的结构也会有所不同

可以通过对单个记录左侧进行勾选来定制导出列表

The screenshot shows the Dimensions search interface. The search query is "tissue engineer" with 5 results. The results table is sorted by Relevance. A red box highlights the "Relevance" option in the sort dropdown menu. The results table shows the following data:

Publication Title	Year	Publishing organization
Draft 29/03/2005 - Besluit - Rijksoverheid.nl	2005	rijksoverheid.nl

The interface also includes filters for Groups, Publication Year, and Publishing Organization. The analytical views section shows research categories with their respective counts:

Research Category	Count
11 Medical and Health Sciences	3,641
1117 Public Health and Health Services	3,064
16 Studies in Human Society	1,246

Dimensions 2020 "materials synthesis" AND biom... Save / Export Workflow Support Heidi Bec...

**FILTERS** FAVORITES

GROUPS

PUBLICATION YEAR

RESEARCHER

FUNDER

COUNTRY OF FUNDER

RESEARCH ORGANIZATION

LOCATION - RESEARCH ORGAN...

RESEARCH CATEGORIES

PUBLICATION TYPE

SOURCE TITLE

PUBLISHER

**PUBLICATIONS** DATASETS GRANTS PATENTS CLINICAL TRIALS POLICY DOCUMENTS  
1,052 1 0 19 0 0

Show abstract Sort by: Relevance

Title, Author(s), Bibliographic reference - [About the metrics](#) See attention in [Altmetric Explorer](#)

1  **Multi-material additive manufacturing technologies for Ti-, Mg-, and Fe-based biomaterials for bone substitution**  
N.E. Putra, M.J. Mirzaali, I. Apachitei, J. Zhou, A.A. Zadpoor  
2020, Acta Biomaterialia - Article  
The growing interest in multi-functional metallic biomaterials for bone substitutes challenges the current additive manufacturing (AM, =3D printing) technologies. It is foreseeable that advances in mu... [more](#)  
Citations { 1 } Altmetric { 14 } [View PDF](#) [Add to Library](#) [Add to ORCID](#)

2  **Unconventional Tissue Engineering Materials in Disguise**  
Michelle A. Nguyen, Gulden Camci-Unal  
2020, Trends in Biotechnology - Article  
Tissue engineering faces a recurring challenge in the transformation of biomaterials into 3D constructs that mimic the biological, chemical, and mechanical features of native tissues. Some of the conv... [more](#)  
Citations { 3 } Altmetric { 43 } [Add to Library](#) [Add to ORCID](#)

**ANALYTICAL VIEWS**

RESEARCH CATEGORIES

09 Engineering 414  
03 Chemical Sciences 405  
0912 Materials Engineering 295  
0306 Physical Chemistry (incl. Structural) 272  
0303 Macromolecular and Materials Chemistry 147

OVERVIEW

Citations **748** Citations (Mean) **0.71**

Year	Citations
2011	~100
2012	~100
2013	~100
2014	~100
2015	~100
2016	~100
2017	~100
2018	~100
2019	~100
2020	748

也可以通过勾选记录生成一套新的检索结果。在页面下方可以看到导出数据（Export data）和加入检索（Add to search）的选项

## 导出选项

出版物支持三种格式的导出，分别是.csv，.xlsx 以及用于文献计量制图的.csv。文献计量制图导出的数据可适用于 [Vosviewer](#) 和 [CiteSpace](#) 这样的免费工具。免费版的导出条目上限为 500 条。付费版本的默认导出条目上限为 5000 条。

其余几种数据源可以支持.csv 或者 .xlsx 两种文件类型

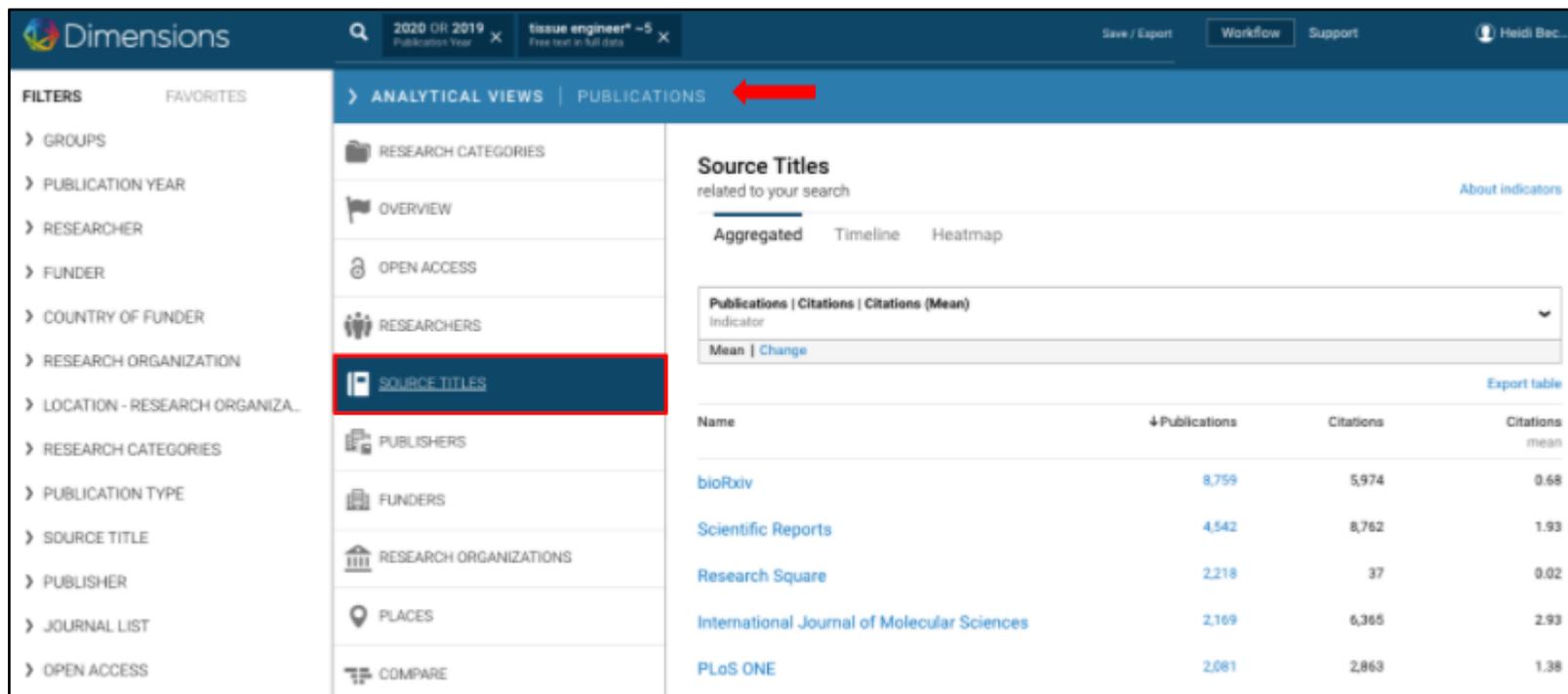
通过点击屏幕右上方的用户名到达导出中心，进行数据下载。

## 分析视窗

分析视窗可被看作基于检索结果生成的数据透视表，提供图表形式的的数据概览。并支持以多种方式导出分析结果。

## 出版物

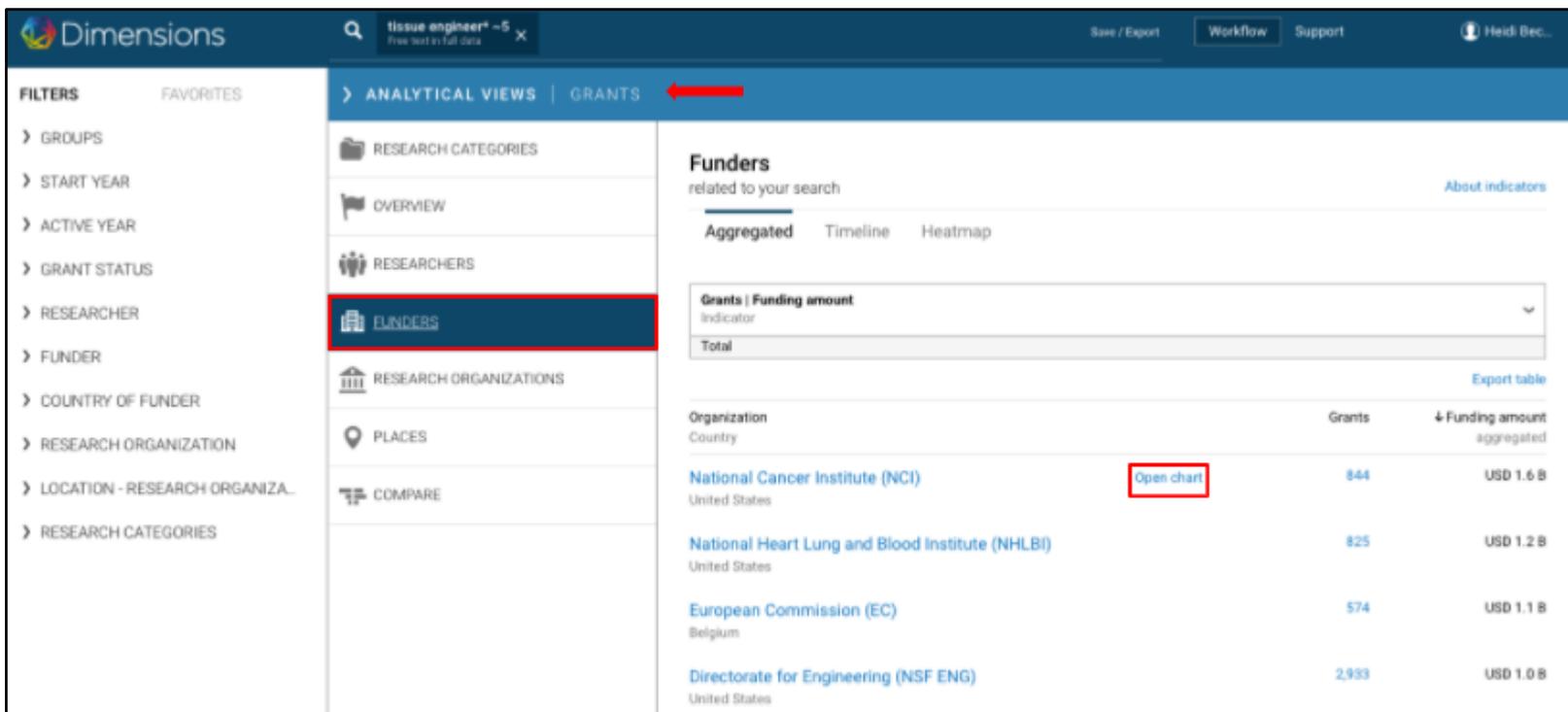
这里展示的是检索结果相关的出版物来源期刊视图，以发表数降序排列。可选项还包括开放获取状态，出版商，经费资助机构，研究机构等。



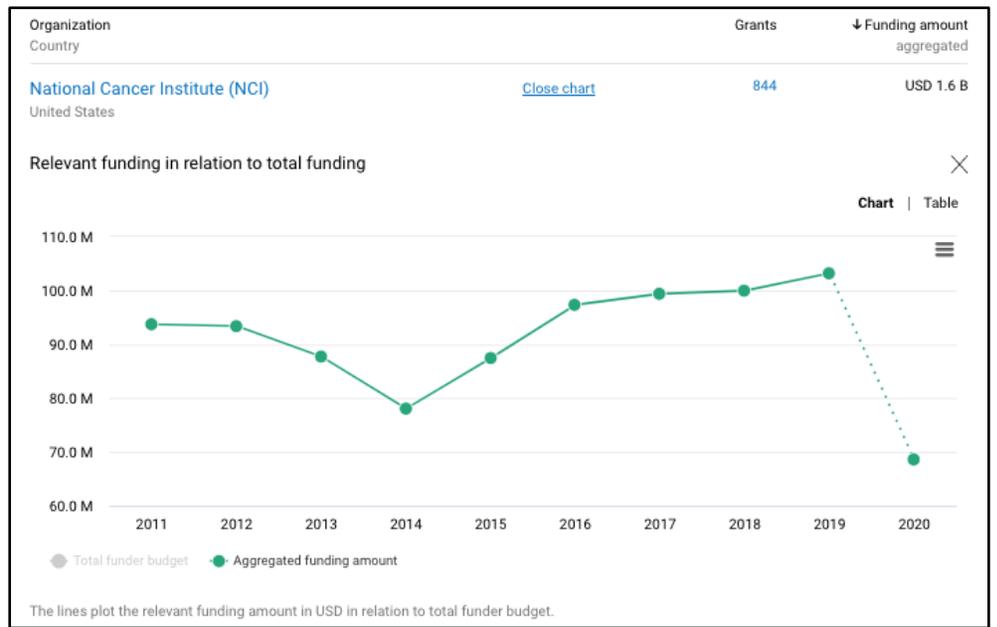
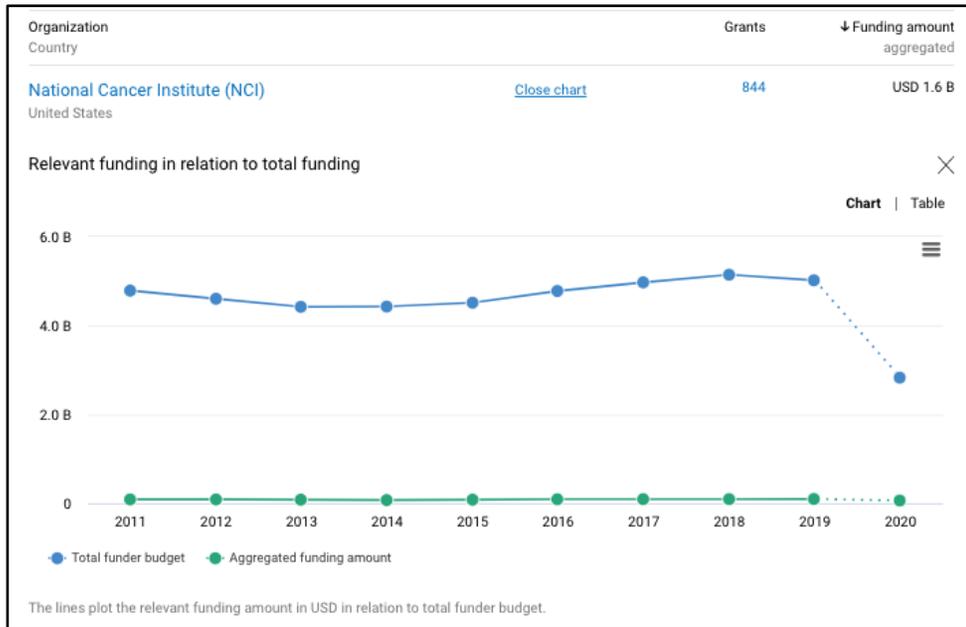
## 基金

数据类型切换到基金的话，同样可以通过分析视图快速浏览检索结果，把握科研经费的发展趋势。

想了解某个科研经费资助机构的情况，可点击该机构名称右侧的“open chart”，即可生成概览表格



蓝色线条展示该 funder 过去十年间每年投入的经费总额。绿色线条展示该 funder 和此次检索结果相关的经费投入额度情况

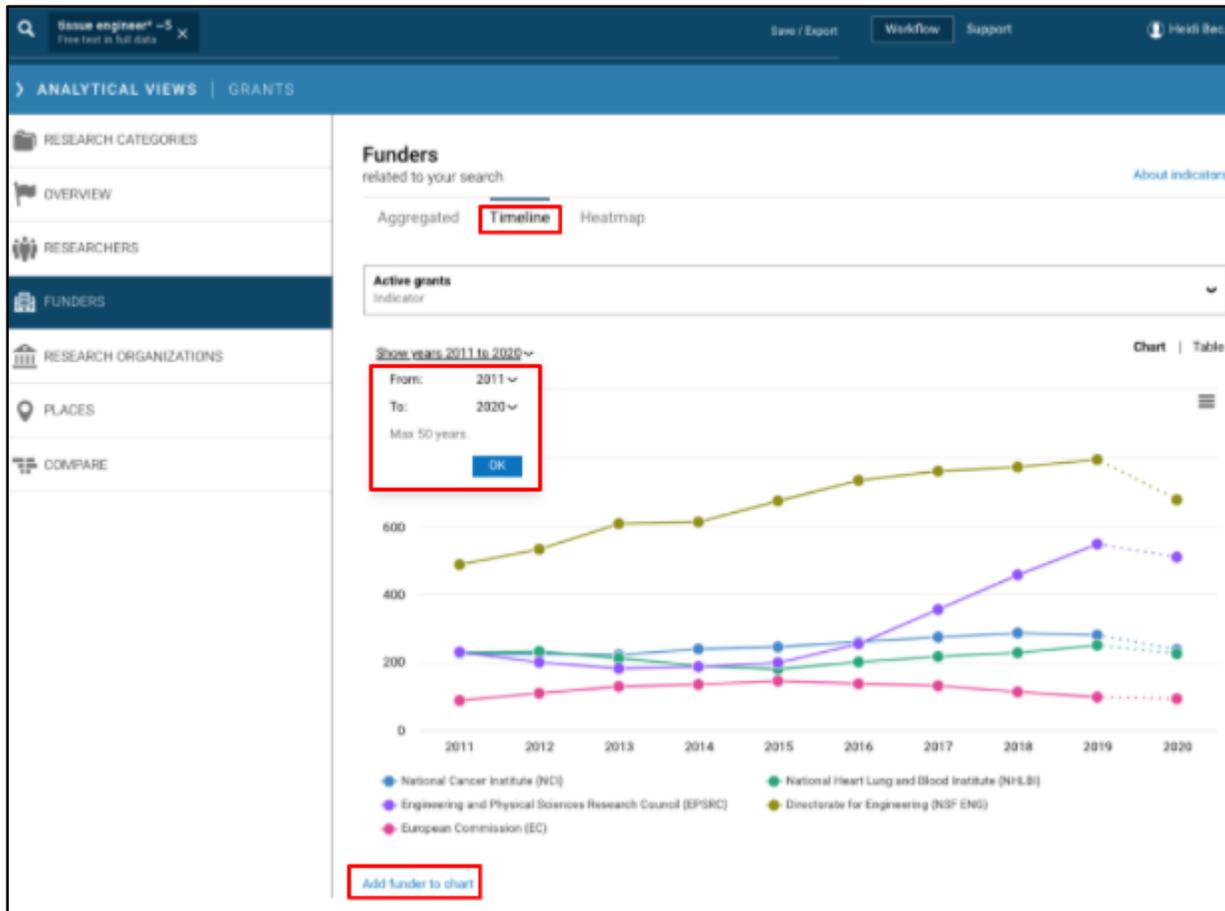


移除显示总额的蓝色线条，即可聚焦到绿色线条，展示与此次检索结果相关的额度变化情况。将鼠标移至圆点时会显示该年份的经费数，点击“show grants”可以直达该年份的基金列表。

## 可视化

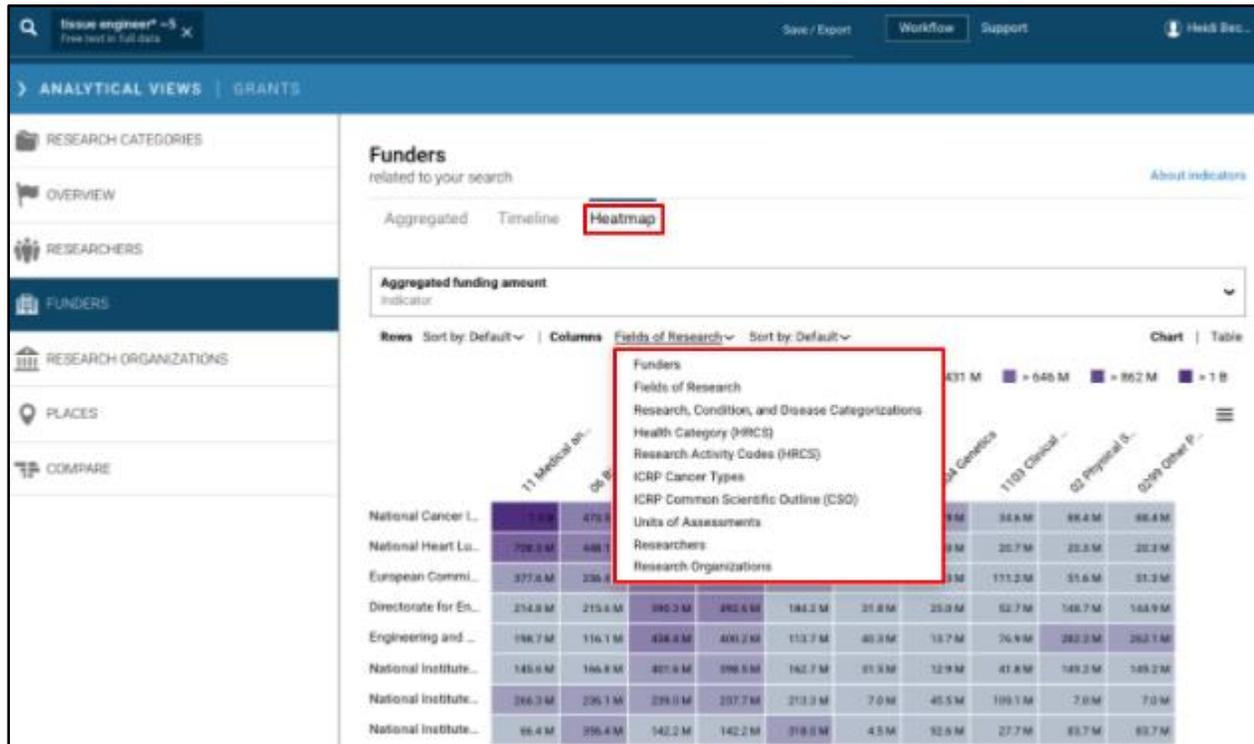
### 时间线

分析视窗多个选项都提供时间线视图，可以通过勾选时间区间，添加或删除元素来定制所需的结果。切换图表的选项设置在右上角



## 热力图

热力图也同样可以通过切换横轴和纵轴的性质来定制显示结果。将鼠标移至感兴趣的区域，即可进一步显示详细数据



## 分析视图的导出

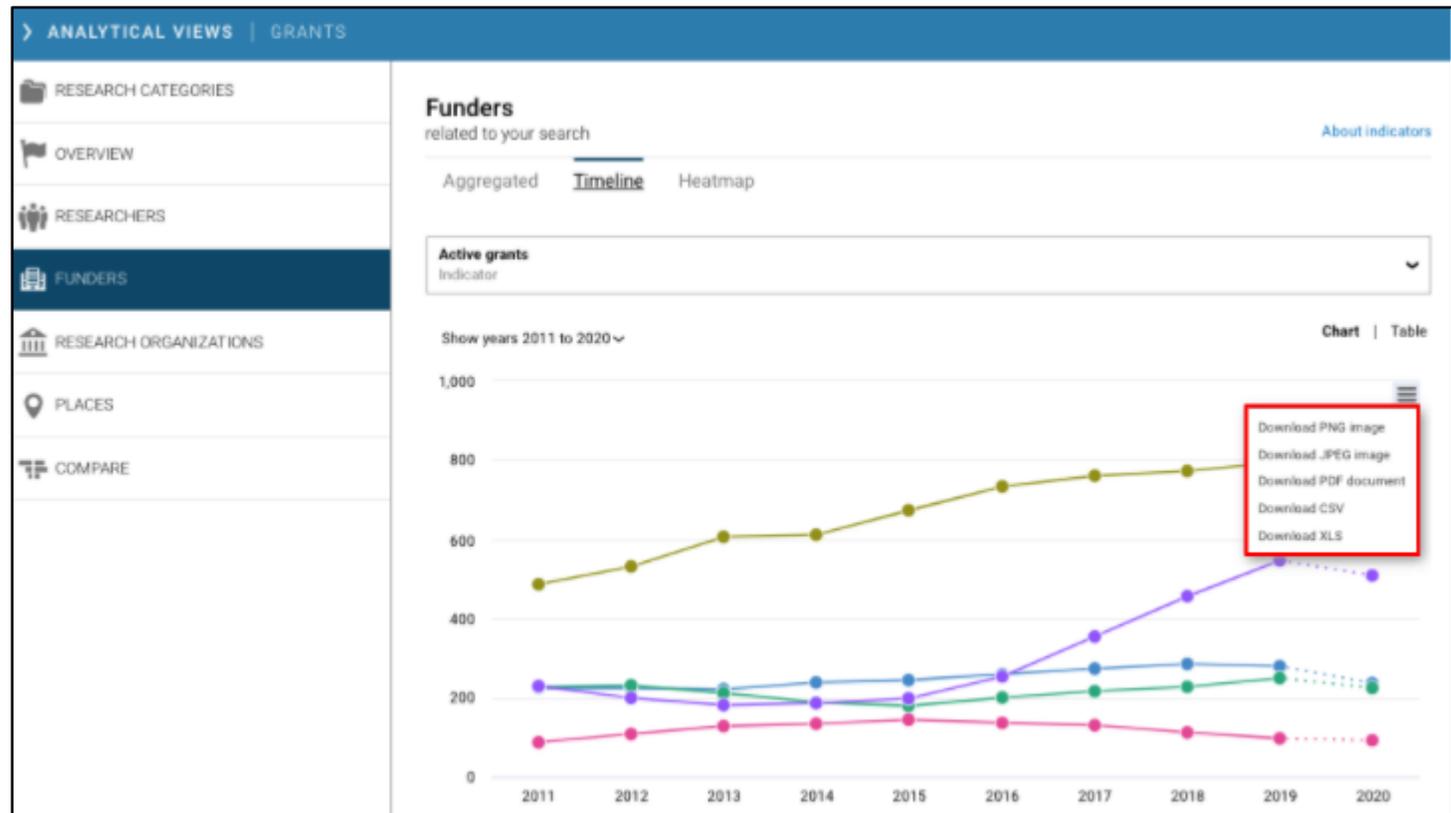
### 分析结果列表

右上角的分析结果列表提供“export table”的选项。系统会将前 500 条记录以.csv 或 xlsx 格式导出至 “Export center”

### 可视化

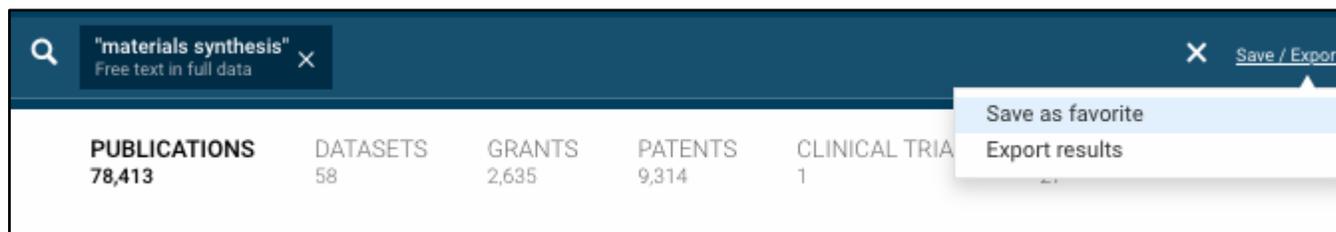
时间线和热力图均支持多种格式导出，便于后续根据具体需求进行加工处理。

热力图的最佳显示方式是图片



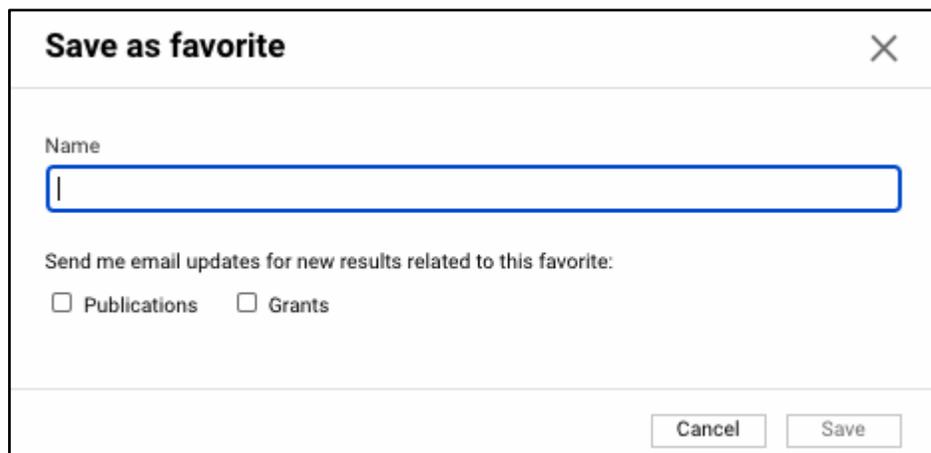
## 收藏检索

在检索栏内键入的任意检索均可被收藏。收藏栏的位置设置在分类栏右侧。



## 更新通知

收藏一个检索式的同时可以通过定制邮件提醒获取检索结果每周一次的更新。



The screenshot shows a "Save as favorite" dialog box with a close button (X) in the top right corner. The dialog contains the following elements:

- A "Name" label followed by an empty text input field.
- A section titled "Send me email updates for new results related to this favorite:" with two checkboxes: "Publications" and "Grants", both of which are currently unchecked.
- At the bottom right, there are two buttons: "Cancel" and "Save".

## 群组

群组功能主要用于将预先选择的多个对象合并，再叠加分类栏的筛选功能，来达到定制检索的目的。

可以将同一性质的多个对象添加到一个群组，例如来自同一个院系的一组研究人员，或者某个学术联盟的研究机构等。需要提醒的是不同性质的对象，如基金资助机构和研究机构无法组成一个群组。

定制群组也可以叠加关键词或者摘要检索。

建立群组的步骤：

- 选择同一性质的多个对象（不要点击“limit to”）
- 点击页面下方的“Add to group”
- 给该群组命名并点击“Save”

自建群组可以在“My groups”当中找到，也可被共享给同一个机构的其他用户。



The screenshot shows the Dimensions interface with a list of research organizations. The 'RESEARCH ORGANIZATION' filter is expanded, showing a list of institutions with their respective counts. Four institutions are selected, indicated by blue checkmarks in the selection column. At the bottom, there is a 'Limit to' button and two buttons: 'Add to group' (highlighted with a red box) and 'Exclude'. Below these buttons, it shows '4 selected' and an 'About' link.

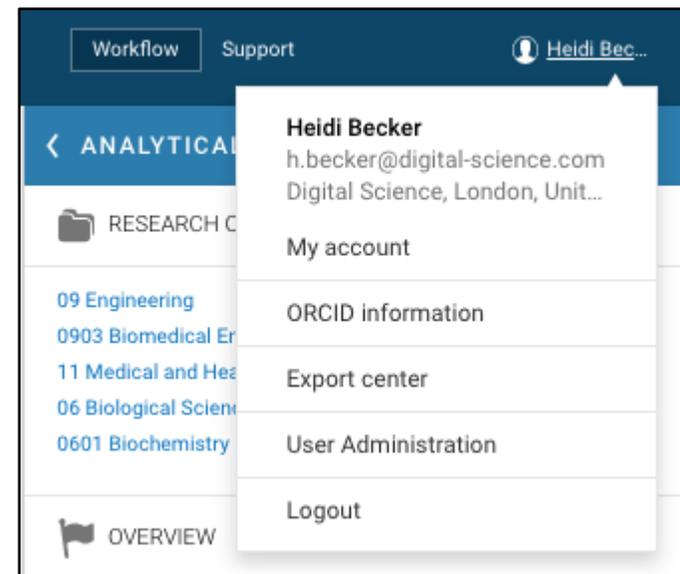
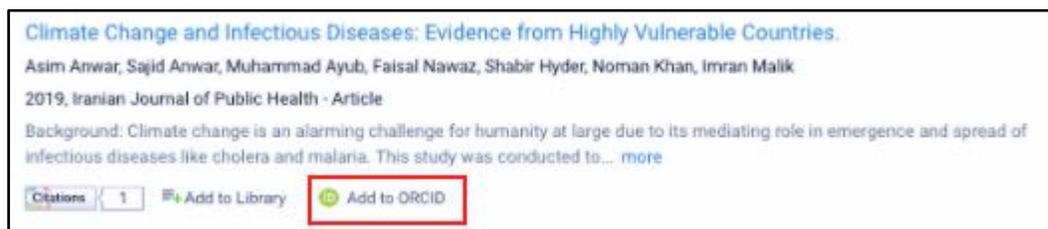
RESEARCH ORGANIZATION	Count
<input checked="" type="checkbox"/> University of Tokyo	324,752
<input checked="" type="checkbox"/> Harvard University	299,745
<input checked="" type="checkbox"/> University of Toronto	298,116
<input checked="" type="checkbox"/> University of Michigan	260,929
<input type="checkbox"/> University of California, Los Ang...	253,692
<input type="checkbox"/> University College London	250,405
<input type="checkbox"/> Stanford University	246,061
<input type="checkbox"/> University of Cambridge	244,944
<input type="checkbox"/> University of Oxford	240,900
<input type="checkbox"/> University of São Paulo	236,316
<input type="checkbox"/> Johns Hopkins University	236,136

## 用户设置

点击页面右上角的姓名图标，即可修改登录密码以及其他类型的用户设置

## 关联 ORCID 账号

在 Dimensions 里可以通过关联个人的 ORCID 账号,将您的出版物信息一键添加至您在 Dimensions 平台的研究人员主页.



## 切换币种

在获取基金数据时，原始金额均为资助机构所在国的币种。系统后台加载了币种转换功能，支持用户按需切换。采用基金起始日期的转换汇率。针对跨年份基金（如 NIH 资助项目），基金金额使用当年的汇率均值进行计算。目前 Dimensions 平台支持以下 9 个币种：

Australian Dollars (AUD)  
British Pounds (GBP)  
Canadian Dollars (CAD)  
Chinese Yen (CNY)  
Euros (EUR)  
Japanese Yen (JPY)

Swiss Francs (CHF)  
New Zealand Dollars (NZD)  
US Dollars (USD)