



Elsevier Research Intelligence

SciVal帮你打开科研新视野

www.scopus.com www.scival.com

于婷婷 博士
爱思唯尔 客户顾问
t.yu@elsevier.com



03.2019

Empowering Knowledge

主要内容

- Scopus & SciVal简介
- 科研检索的新路径
- 演示与练习



SciVal 全球领先的科研表现分析工具

- 方便快捷地访问全球12,100家机构的科研表现
- Top of Prominence -- 对全球约9.6万个研究主题进行趋势分析
- 多元化指标数据（文献、基金、专利、社交媒体评价等多维度）
- 超过600位客户，遍布全球80个国家
- 基于Scopus数据库

SciVal



Overview

特定机构和研究人员
的研究表现细节



Benchmarking

比较多个机构和研究
人员的研究表现



Collaboration

了解机构和机构之间的
合作和研究的情况



Trends

掌握研究领域的趋势

SciVal的基本功能板块



SciVal

[Overview](#) [Benchmarking](#) [Collaboration](#) [Trends](#) [Reporting](#) [My SciVal](#) [Scopus](#) [?](#)

Welcome to SciVal



Overview

Get a high-level overview of the research performance of your Institution, other Institutions, Countries and Groups of Researchers.

[Go to Overview >](#)

Benchmarking

Compare and benchmark your Institution to other Institutions, Researchers and Groups of Researchers using a variety of metrics.

[Go to Benchmarking >](#)

Collaboration

Explore the collaboration network of both your Institution and other Institutions.

[Go to Collaboration >](#)

Trends

Get the current scientific trends to determine a new research strategy, find collaboration opportunities and rising stars.

[Go to Trends >](#)

Reporting

Create rich Reports specifically tailored to support your institution's distinct research strategy.

[Go to Reporting >](#)

SciVal的基本结构

四个主要的分析模块



SciVal

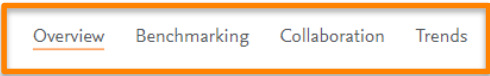
分析对象面板



Institutions and Groups

- Tsinghua University
- Beijing Normal University
- Guangdong
- Hong Kong
- Macau
- North China Electric Power University
- Peking University
- Renmin University of China
- Shandong Normal University
- Shandong University
- Tongji University

+ Add Institutions and Groups
 X Remove all entities from this section



Tsinghua University

清华大学

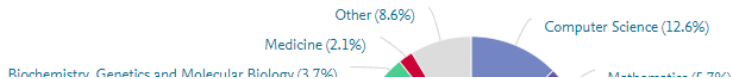
17th (QS) · 22nd (THE) · 45th (ARWU) · 1st (RUANKE) | China More details on this Institution

2013 to 2018 | no subject area filter selected | ASJC

Summary Topics & Topic Clusters Collaboration Published Viewed Cited Authors Economic Impact Societal Imp

Overall research performance

Scholarly Output	Authors	Field-Weighted Citation Impact
82,897 ▲	43,554 ▲	1.44
View list of publications		
Citation Count	Citations per Publication	h5-index
780,312	9.4	157



Scopus® 全球最大的摘要，引文数据库

Scopus 收录了全球105个国家，5000多家出版商的科技出版内容，覆盖40多种语言；实现全领域，全文献类型的覆盖；每日更新

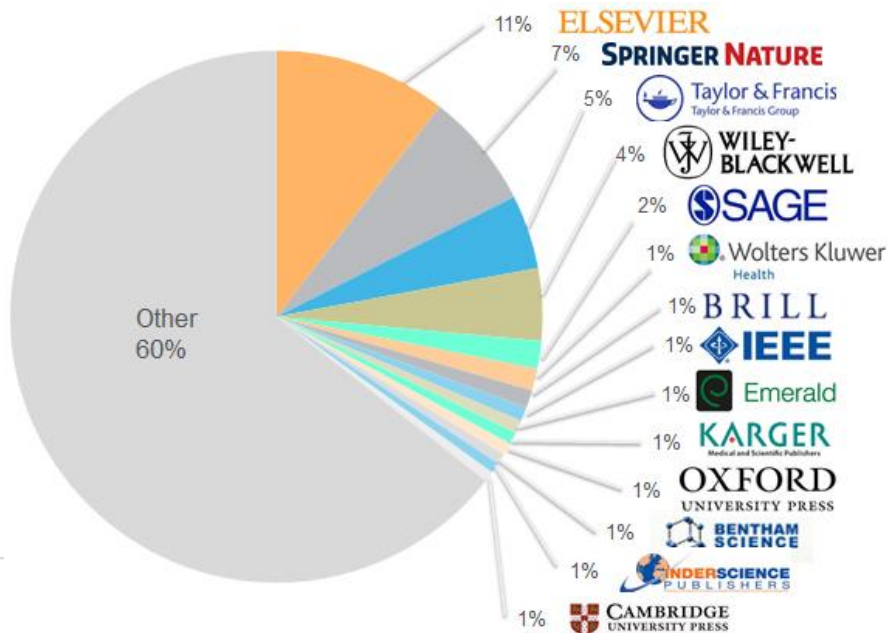
	Number of active Journals by subject area	期刊 Journal	会议论文 Conference	书籍 Book
自然科学	Physical Sciences 8,102	23,578 Peer-reviewed journals	111K Conference events	752 Book series
医疗健康	Health Sciences 7,468	308 Trade journals	8.8M Conference papers Mainly Engineering and Computer Sciences	40K Volumes
社会科学	Social Sciences 9,692	4,065 Active Gold Open Access journals		1.6M Items
生命科学	Life Sciences 4,883	>8,000 Articles in Press Full metadata, abstracts. Cited references back to 1970.		183,034 Stand-alone books
				1.5M Items Mainly Social Sci. and Arts & Humanities

Source: Scopus.com, October 2018



Scopus

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*Counts February 2018

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SCIENCE & ENGINEERING INDICATORS



中国高被引学者
Chinese Most Cited
Researchers

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NATIONAL SCIENCE BOARD



拓展视野的检索路径



从Scopus到SciVal的检索发现路径

Scopus

1. 关键词
检索

2. 限制范围
精确检索

3. 浏览
重点论文

4. 查看论文
对应Topic

5. Topic
要点概览

SciVal

6. Topic总览

7. 领域重要学
者及其研究

8. 领域
重要期刊

9. 相关领域
发现

1. 从Scopus的常规检索开始

以“remote sensing”为例

Scopus

[检索](#) [来源出版物](#) [通知](#) [列表](#) [帮助](#) [SciVal](#)

文献搜索

[文献](#) [作者](#) [归属机构](#) [高级](#)

搜索

"remote sensing"

×

论文标题、摘要、关键字



例如: "Cognitive architectures" AND robots

> 限制

重置表单

搜索



ELSEVIER

海量检索结果

Scopus

[检索](#) [来源出版物](#) [通知](#) [列表](#) [帮助](#) [SciVal](#) [Tingting Yu](#)

215,789 文献搜索结果

[查看次要文献](#) [查看 26278 专利搜索结果](#) [Search your library](#) [View 246](#)

TITLE-ABS-KEY ("remote sensing")

[编辑](#) [保存](#) [设置通知](#) [设置推送流](#)

在搜索结果内搜索...

分析搜索结果

[显示所有摘要](#) [排序对象: 施引文献 \(最多数量\)](#)

精简搜索结果

[限制范围](#) [排除](#)

访问类型

 Open Access (24,206) >

 Other (191,583) >

年份

 2020 (1) >

 2019 (2,418) >

 2018 (13,495) >

 全部 CSV 导出 下载 [查看引文概览](#) [查看施引文献](#) [保存到列表](#) ... [打印](#) [邮件](#) [分享](#)

	文献标题	作者	年份	来源出版物
<input type="checkbox"/> 1	Evaluation of water body extraction from satellite images using open-source tools	Rithin Paul Reddy, K., Srija, S.S., Karthi, R., Geetha, P.	2020	Advances in Intelligent Systems and Computing 910, pp. 129-140

[查看摘要](#) [Full Text](#) [View at Publisher](#) [相关文章](#)

<input type="checkbox"/> 2	Research on road extraction of remote sensing image based on convolutional neural network 公开访问	Jiang, Y.	2019	Eurasip Journal on Image and Video Processing 2019(1),31
----------------------------	---	-----------	------	--

[查看摘要](#) [Full Text](#) [View at Publisher](#) [相关文章](#)


03.2019

2 精简范围--明确自己需要什么

举例

- 该领域发展非常迅速，近几年的成果参考意义更大
 - 时间设置为2015-2019
- 关注会议论文和研究论文
- 关注环境领域
- 直接能看原文—Open Access

Scopus共收录了880万篇高水准的会议论文，对于工程，计算机领域的研究非常有帮助



检索结果-充分利用精确检索功能

Scopus

215,789 文献搜索结果

限制范围 **排除**

访问类型

- Open Access (24,206) >
- Other (191,583) >

年份

- 2020 (1) >
- 2019 (2,418) >
- 2018 (13,495) >
- 2017 (13,069) >
- 2016 (13,276) >
- 2015 (11,832) >
- 2014 (11,261) >
- 2013 (10,088) >
- 2012 (11,798) >
- 2011 (12,388) >

学科类别

- Earth and Planetary Sciences (100,794) >
- Computer Science (77,256) >
- Engineering (66,429) >
- Environmental Science (39,046) >
- Physics and Astronomy (37,593) >
- Agricultural and Biological Sciences (25,204) >
- Social Sciences (22,635) >
- Materials Science (21,586) >
- Mathematics (21,395) >
- Chemistry

收起

出版阶段

文献类型

- Article (115,268) >
- Conference Paper (88,181) >
- Review (4,006) >
- Book Chapter (2,761) >
- Conference Review (2,080) >



Scopus

3,268 文献搜索结果

TITLE-ABS-KEY ("remote sensing") AND (LIMIT-TO (ACCESSTYPE(OA))) AND (LIMIT-TO (PUBYEAR, 2016) OR LIMIT-TO (PUBYEAR, 2015)) AND (LIMIT-TO (DOCTYPE, "ar") OR LIMIT-TO (DOCT...

编辑 保存 设置通知 设置馈送流

在搜索结果内搜索...

分析搜索结果

全部 CSV 导出 下载

文献标题

- 1 ERA-Interim/Land: A global land s 公开访问

精简搜尋結果

限制范围 **排除**

访问类型

- Open Access (3,268) >



3. 挑选/浏览重点论文

分析搜索结果

显示所有摘要 排序对象: 施引文献 (最多数量)



全部 CSV 导出 下载 查看引文概览 查看施引文献 保存到列表 ...

文献标题

作者

年份

ERA-Interim/Land: A global land surface reanalysis data set
[公开访问](#)

Balsamo, G., Albergel, C., Beljaars, A., (...), Stockdale, T., Vitart, F.

2015

查看摘要 [View at Publisher](#) [相关文章](#)

2 MSWEP: 3-hourly 0.25° global gridded precipitation (1979-2015) by merging gauge, satellite, and reanalysis data
[公开访问](#)

Beck, H.E., Van Dijk, A.I.J.M., Levizzani, V., (...), Martens, B., De Roo, A.

2017

查看摘要 [View at Publisher](#) [相关文章](#)

施引文献 (最多数量)

日期 (最新)

日期 (升序)

施引文献 (最多数量)

施引文献 (最少数量)

相关性

第一作者 (A-Z)

第一作者 (Z-A)

来源出版物名称 (A-Z)



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浏览代表性论文

< 返回搜索结果 | 1 / 3,205 | 下一片 >

CSV 导出 下载 打印 通过电子邮件发送 保存到 PDF 保存到列表 [更多...](#)

[Full Text](#) [Library Catalogue](#) [Order Document](#)

Hydrology and Earth System Sciences [公开访问](#)
Volume 19, Issue 1, 21 January 2015, Pages 389-407

ERA-Interim/Land: A global land surface reanalysis data set (Article) [\(公开访问\)](#)

Balsamo, G.^a, Albergel, C.^a, Beljaars, A.^a, Bousssetta, S.^a, Brun, E.^b, Cloke, H.^c, Dee, D.^a, Dutra, E.^a, Munõz-Sabater, J.^a, Pappenberger, F.^a, De Rosnay, P.^a, Stockdale, T.^a, Vitart, F.^a

^aEuropean Centre for Medium-Range Weather Forecasts (ECMWF), Reading, United Kingdom

^bMétéo-France, Toulouse, France

^cUniversity of Reading, Reading, United Kingdom

摘要

[查看参考文献 \(72\)](#)

ERA-Interim/Land is a global land surface reanalysis data set covering the period 1979-2010. It describes the evolution of soil moisture, soil temperature and snowpack. ERA-Interim/Land is the result of a single 32-year simulation with the latest ECMWF (European Centre for Medium-Range Weather Forecasts) land surface model driven by meteorological forcing from the ERA-Interim atmospheric reanalysis and precipitation adjustments based on monthly GPCP v2.1 (Global Precipitation Climatology Project). The horizontal resolution is about 80 km and the time frequency is 3-hourly. ERA-Interim/Land includes a number of parameterization improvements in the land surface scheme with respect to the original ERA-Interim data set, which makes it more suitable for climate studies involving land water resources. The quality of ERA-Interim/Land is assessed by comparing with ground-based and remote sensing observations. In particular, estimates of soil moisture, snow depth, surface albedo, turbulent latent and sensible fluxes, and river discharges are verified against a large number of site measurements. ERA-Interim/Land provides a global integrated and coherent estimate of soil moisture and snow water equivalent, which can also be used for the initialization of numerical weather prediction and climate models. © 2015 Author(s).

SciVal 热门主题

主题: [land surface](#) | [Surface measurement](#) | [land-atmosphere coupling](#)

突出百分比: 97.260

度量标准

[查看所有度量标准 >](#)

186 Scopus 中的引用
第 99 个百分比

23.53 领域加权的引用影响



PlumX 度量标准

在 Scopus 之外的使用情况、
抓取、提及、社交媒体和引
用。

被 186 篇文献引用

Contributions of climate change to the terrestrial carbon stock of the arid region of China: A multi-dataset analysis

Fang, X., Guo, X., Zhang, C.
(2019) *Science of the Total Environment*

Analysis of the temporal-spatial changes in surface radiation budget over the Antarctic sea ice region

Zhang, T., Zhou, C., Zheng, L.
(2019) *Science of the Total Environment*

Mesoclimate regulation induced by landscape restoration and water harvesting in agroecosystems of the horn of Africa

Castelli, G., Castelli, F., Bresci, E.





22.03.2019

4. 浏览代表性论文，查看论文的topic

Hydrology and Earth System Sciences [公开访问](#)
Volume 19, Issue 1, 21 January 2015, Pages 389-407

ERA-Interim/Land: A global land surface reanalysis data set (Article) [\(公开访问\)](#)

Balsamo, G.^a , Albergel, C.^a, Beljaars, A.^a, Boussetta, S.^a, Brun, E.^b, Cloke, H.^c, Dee, D.^a, Dutra, E.^a, Munõz-Sabater, J.^a, Pappenberger, F.^a, De Rosnay, P.^a, Stockdale, T.^a, Vitart, F.^a 

^aEuropean Centre for Medium-Range Weather Forecasts (ECMWF), Reading, United Kingdom


^bMétéo-France, Toulouse, France

^cUniversity of Reading, Reading, United Kingdom



摘要

[查看参考文献 \(72\)](#)

ERA-Interim/Land is a global land surface reanalysis data set covering the period 1979-2010. It describes the evolution of soil moisture, soil temperature and snowpack. ERA-Interim/Land is the result of a single 32-year simulation with the latest ECMWF (European Centre for Medium-Range Weather Forecasts) land surface model driven by meteorological forcing from the ERA-Interim atmospheric reanalysis and precipitation adjustments based on monthly GPCP v2.1 (Global Precipitation Climatology Project). The horizontal resolution is about 80 km and the time frequency is 3-hourly. ERA-Interim/Land includes a number of parameterization improvements in the land surface scheme with respect to the original ERA-Interim data set, which makes it more suitable for climate studies involving land water resources. The quality of ERA-Interim/Land is assessed by comparing with ground-based and remote sensing observations. In particular, estimates of soil moisture, snow depth, surface albedo, turbulent latent and sensible fluxes, and river discharges are verified against a large number of site measurements. ERA-Interim/Land provides a global integrated and coherent estimate of soil moisture and snow water equivalent, which can also be used for the initialization of numerical weather prediction and climate models. © 2015 Author(s).

SciVal 热门主题 

主题: [land surface](#) | [Surface measurement](#) | [land-atmosphere coupling](#)

突出百分比: 97.260  

该论文属于全球前3%
热门研究主题 (Topic)

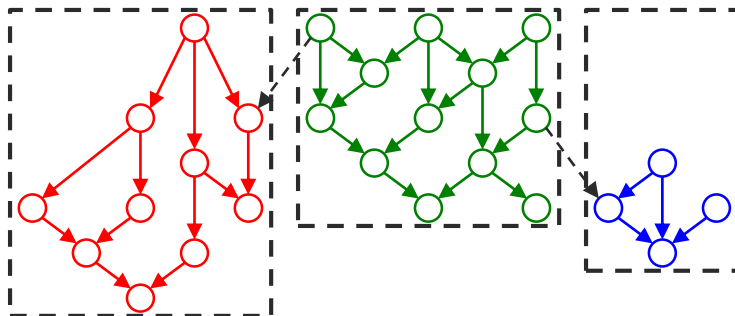
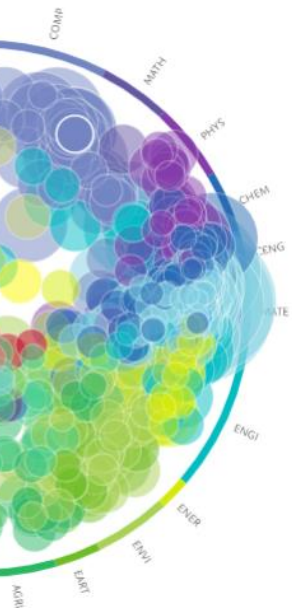
点击主题名称



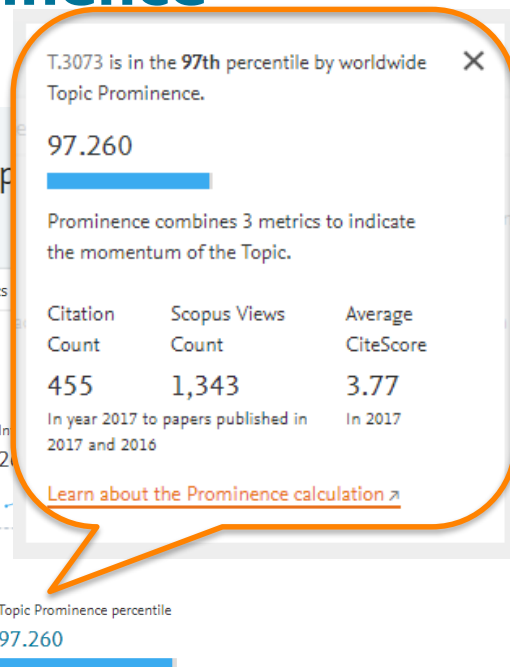
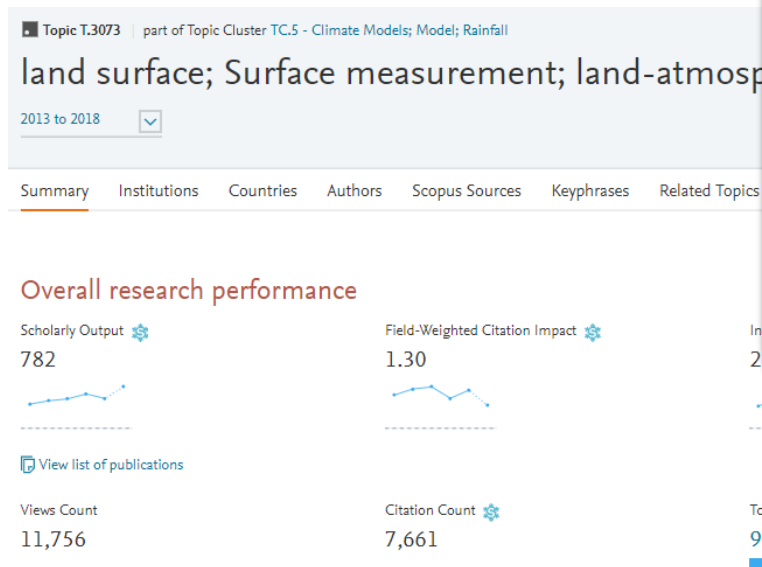
关于研究主题 Topic

微观层面的特定研究问题

- 基于scopus数据库约7500万文献数据和约10亿条直接引用链接聚类成文献簇，生成全领域约9.6万个研究主题 (Topic)
- 真实反映了学科交叉与融合的趋势



关于主题显示度 Topic prominence



- 由近两年引用数，浏览数和期刊citescore三种指标组成
- Prominence排序后按照百分位定义研究领域热门程度



5. 热门研究主题概览

land surface | Surface measurement | land-atmosphere coupling (T.3073)
 地表 | 表面测量 | 陆地 - 大气耦合

land surface | Surface measurement | land-atmosphere coupling (T.3073)

年份范围:2013 - 2017

代表性文档

Impact of soil moisture-climate feedbacks on CMIP5 projections: First results from the GLACE-CMIP5 experiment
 Seneviratne, S.I., Wilhelm, M., Stanelle, T....
 (2013) *Geophysical Research Letters*
 Cited 123 times

Improving the representation of hydrologic processes in Earth System Models
 Clark, M.P., Fan, Y., Lawrence, D.M....
 (2015) *Water Resources Research*
 Cited 104 times

Reconciling spatial and temporal soil moisture effects on afternoon rainfall
 Guillod, B.P., Orłowsky, B., Miralles, D.G....
 (2015) *Nature Communications*
 Cited 104 times

The plumb line: Benchmarking model performance
 Best, M.J., ...
 (2015) *Journal of Hydrology*
 Cited 77 times



最重要的论文

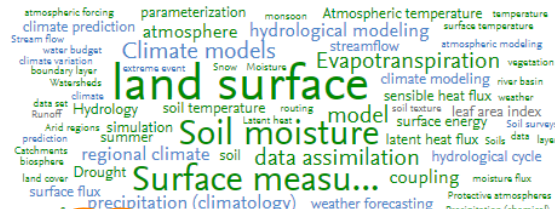
顶尖作者

作者	学术性产出
Ek, Michael B.	25
Seneviratne, Sonia I.	24
Dirmeyer, Paul A.	21
Quiring, Steven M.	21
Ford, Trent W.	19



最具影响力的学者

关键词分析



关键词云
 By fingerprint技术



切换到SciVal中查看更多细节



6. 在SciVal中查看topic的更多信息

Topic T.3073 | part of Topic Cluster TC.5 - Climate Models; Model; Rainfall

land surface; Surface measurement; land-atmosphere coupling

2013 to 2018



Data

Summary [Institutions](#) [Countries](#) [Authors](#) [Scopus Sources](#) [Keyphrases](#) [Related Topics](#)

+ Add Summary to Reporting [Export](#)

Overall research performance

+ Add to Report

Scholarly Output

782

论文迅速增长



[View list of publications](#)

Views Count

11,756

Field-Weighted Citation Impact

1.30

论文引用影响力为全
球平均水平1.3倍



Citation Count

7,661

International Collaboration

266

约1/3 的论文是
国际合作的成果



Topic Prominence percentile

97.260



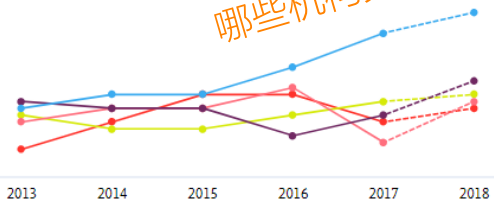
03.2019

Institutions

+ Add to Reporting
Top 5 by Scholarly Output

- Chinese Academy of Sciences 95
- NASA Goddard Space Flight Center 60
- NOAA 57
- CNRS 55
- National Center for Atmospheric Research 54

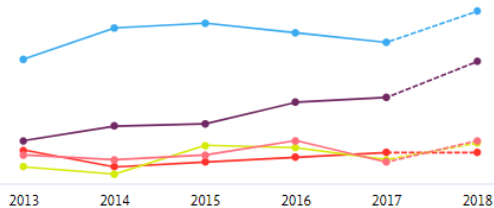
哪些机构实力强劲



Countries & regions

+ Add to Reporting
Top 5 by Scholarly Output

- United States 378
- China 188
- Germany 79
- United Kingdom 69
- France 67



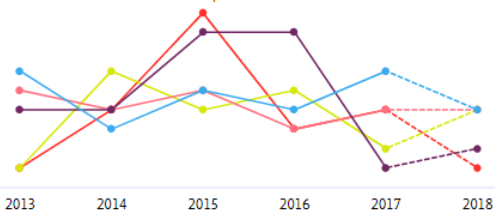
Authors

+ Add to Reporting
Top 5 by Scholarly Output

- Seneviratne, Sonia I. 28
- Ek, Michael B. 27
- Dirmeyer, Paul A. 25
- Pitman, A. J. 22
- Quiring, Steven M. 22

找合作

有哪些顶尖学者?



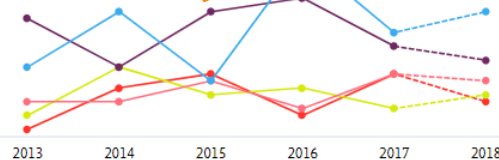
Scopus Sources

+ Add to Reporting
Top 5 by Scholarly Output











- Journal of Geophysical Research 95
- Journal of Hydrometeorology 89
- Hydrology and Earth System Sciences 81
- Geophysical Research Letters 36
- Water Resources Research 34

找投稿期刊

文章主要发表在哪些期刊、会议论文?



7. 该topic 的顶尖学者 他们在做什么？有哪些突出成果

<input type="checkbox"/> Author ↑	Affiliation	Scholarly Output ↓	Views Count ▾	Field-Weight... ▾	Citation Count ▾
1. <input type="checkbox"/> Seneviratne, Sonia I.	 Swiss Federal Institute of Technology Zurich	28	692	3.14	732
2. <input type="checkbox"/> Ek, Michael B.	 National Center for Atmospheric Research	27	428	2.74	619
3. <input type="checkbox"/> Dirmeyer, Paul A.	 George Mason University	25	322	1.89	455
4. <input type="checkbox"/> Pitman, A. J.	 Unknown institution	22	397	1.76	297
5. <input type="checkbox"/> Quiring, Steven M.	 The Ohio State University	22	202	1.35	288
6. <input type="checkbox"/> Ford, Trent W.	 Southern Illinois University	20	189	1.28	260
7. <input type="checkbox"/> Xia, Youlong	 NOAA	19	226	2.44	334
8. <input type="checkbox"/> Santanello, Joseph A.	 NASA Goddard Space Flight Center	17	264	1.89	301
9. <input type="checkbox"/> Yang, Zongliang	 CAS - Institute of Atmospheric Physics	17	285	2.28	278
10. <input type="checkbox"/> Peters-Lidard, Christa D.	 Unknown institution	16	297	2.16	283



Activity of Seneviratne, Sonia I.

Within: **land surface; Surface measurement; land-atmosphere coupling** T.3073 | Year range: 2013 to 2018

[View this Author in Scopus](#)

[Why do the metrics look different to those in Scopus?](#)

Summary

Performance

Scholarly Output

28



View list of publications

Views Count

692

Field-Weighted Citation Impact

3.14



Citation Count

732

International Collaboration

14



Worldwide Topic Prominence

97.260



Collaboration

International Collaboration

Publications co-authored with researchers in other countries



Seneviratne, Sonia I.:

50.0%

Academic-Corporate Collaboration

Publications with both academic and corporate affiliations



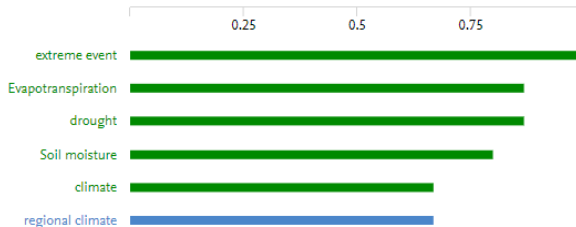
Seneviratne, Sonia I.:

0.0%

Top 15 keyphrases

Based on 28 publications

Relevance of keyphrase



03.2019

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Scopus

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作者详情

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Seneviratne, Sonia I.

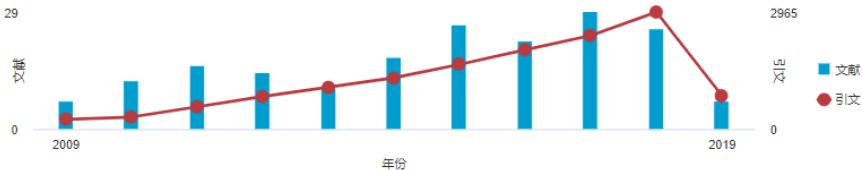
ETH Zürich, Zurich ZH,, Switzerland
作者 ID: 7003499456

 <http://orcid.org/0000-0001-9528-2917>

其他姓名格式: Seneviratne, Sonia Seneviratne, Sonia I. Seneviratne, S. Seneviratne, S. I.

学科类别: Earth and Planetary Sciences Environmental Science Agricultural and Biological Sciences Multidisciplinary Medicine Energy Social Sciences Physics and Astronomy Materials Science Engineering Chemistry Biochemistry, Genetics and Molecular Biology Mathematics Arts and Humanities Neuroscience

文献和引用趋势:



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h-Index: 56


按作者的文献: 208 分析





总引文数: 按 8678 文献分组的 14584 分析



8. 该领域的主要投稿期刊及其论文表现

Top 100 Scopus Sources in this Topic, by Scholarly Output

 View on Chart

<input type="checkbox"/> Scopus Source	Scholarly Output 	Views Count 	Field-Weight... 	Citation Count 
1. <input type="checkbox"/> Journal of Geophysical Research	95	1,248	1.47	1,004
2. <input type="checkbox"/> Journal of Hydrometeorology	89	1,379	1.17	1,235
3. <input type="checkbox"/> Hydrology and Earth System Sciences	39	795	1.69	457
4. <input type="checkbox"/> Geophysical Research Letters	36	574	2.13	653
5. <input type="checkbox"/> Water Resources Research	34	721	2.47	673
6. <input type="checkbox"/> Climate Dynamics	29	476	0.97	258
7. <input type="checkbox"/> Geoscientific Model Development	29	452	1.96	381
8. <input type="checkbox"/> Journal of Climate	29	428	1.21	378
9. <input type="checkbox"/> Journal of Advances in Modeling Earth Systems	26	286	0.79	121
10. <input type="checkbox"/> Journal of Hydrology	20	548	1.50	201



9. 领域拓展

Topic T.3073 | part of Topic Cluster TC.5 - Climate Models; Model; Rainfall

land surface; Surface measurement; land-atmosphere coupling

2013 to 2018



- Summary
- Institutions
- Countries
- Authors
- Scopus Sources
- Keyphrases
- Related Topics**

Topics ↑	Relatedness ↓	Scholarly Output	Prominence percentile
<input type="checkbox"/> land surface; water budget; river basins T.54334	96%	35	23.683
<input type="checkbox"/> Agriculture; Water resources; flux predictions T.65254	93%	9	0.812
<input type="checkbox"/> evapotranspiration; evaporation; actual evapotranspiration T.42087	93%	85	70.985
<input type="checkbox"/> large eddy simulation; land surface; convective boundary T.18847	93%	96	76.126
<input type="checkbox"/> moisture; atmospheric moisture; hydrological cycle T.38857	93%	135	83.658
<input type="checkbox"/> water; melting; snow melting T.71951	92%	16	33.504
<input type="checkbox"/> Monitoring; Sensor networks; river discharge T.71758	92%	23	49.807
<input type="checkbox"/> Water resources; Watersheds; air temperature T.45556	92%	61	60.318
<input type="checkbox"/> Watersheds; Climate models; regional climate T.67865	92%	59	62.542
<input type="checkbox"/> Evapotranspiration; energy balance; evaporative fraction T.2534	92%	1,076	97.910



练习环节



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1) 理工类

从machine learning开始检索，查看在**工程和数学**领域，**2015年至今**的研究论文和会议论文，浏览重要论文相关的研究主题

Topic T. 4338 Neural networks; Convolution; convolutional layers

2) 社科类

王老师从事阅读障碍（Dyslexia）相关的研究，想了解目前这个领域在近5年有哪些研究热点，看看有没有合适的合作者和期刊

Topic T. 1050 Dyslexia; Reading; dyslexic readers





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