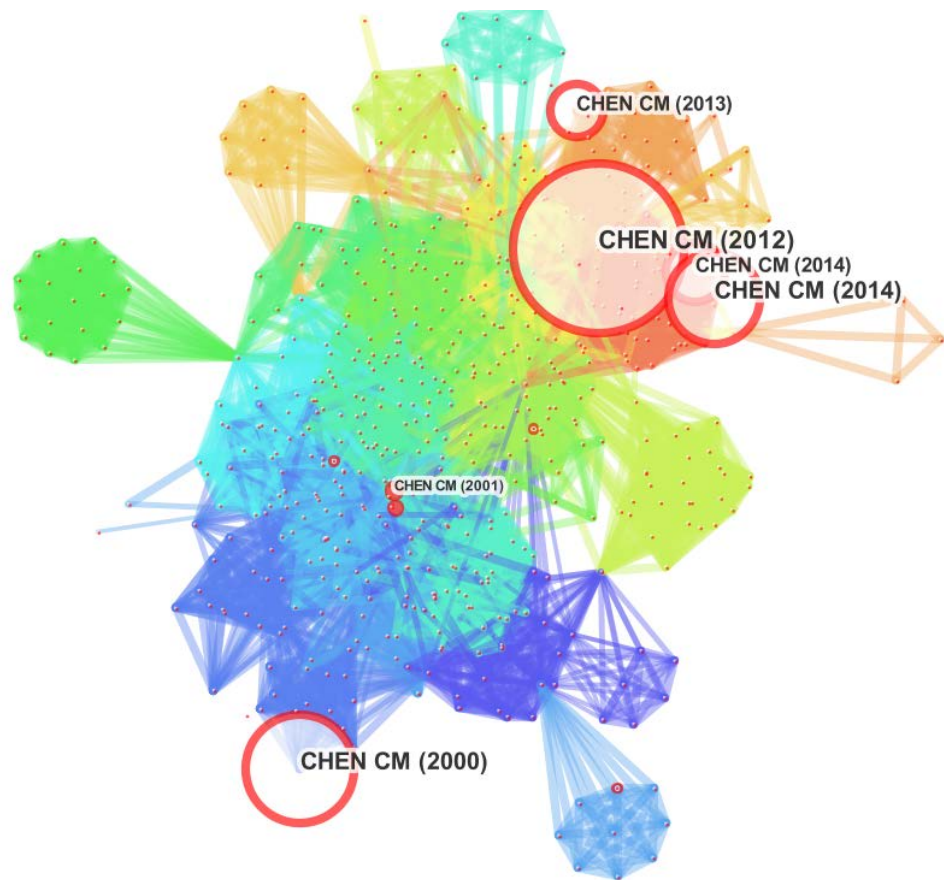


CiteSpace文献对WoS文献使用的分析

——如何使用CiteSpace的一组示范及常见问题解答之（之十六）



李杰 陈超美

2015年10月15日

小提示

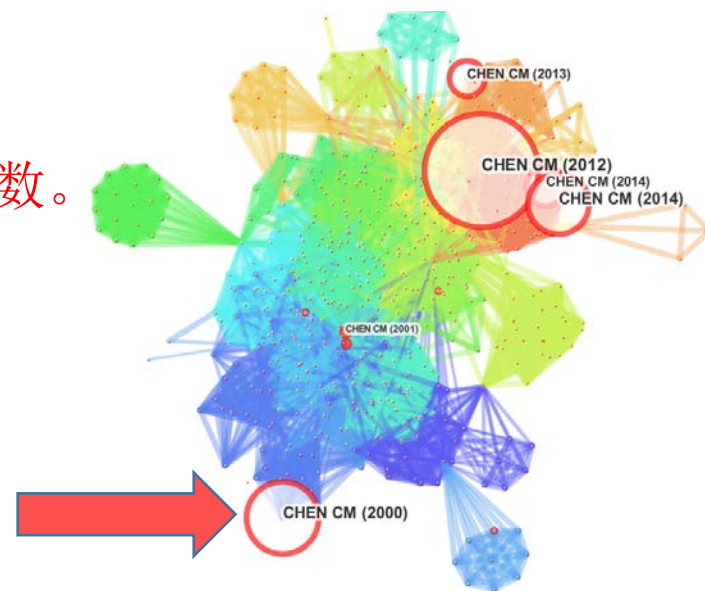
CiteSpace版本至少为：4.0.R2.64-bit.public.10.14.2015
使用最新的Web of Science下载得到的数据

写在前面

- Web of Science的记录格式最近增加了几个新字段，包括U1和U2.

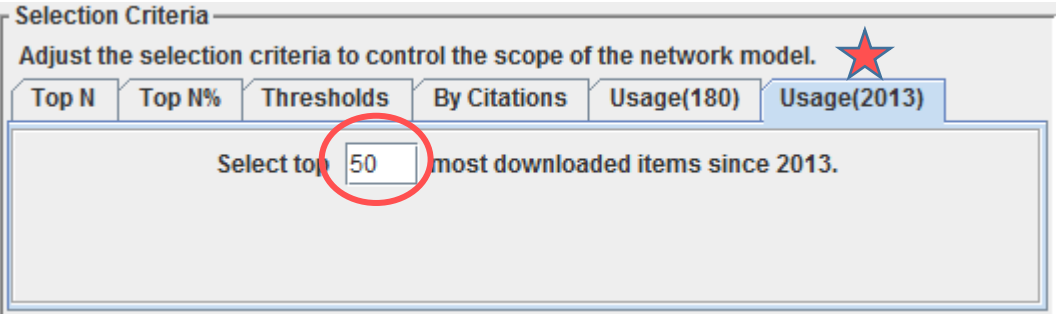
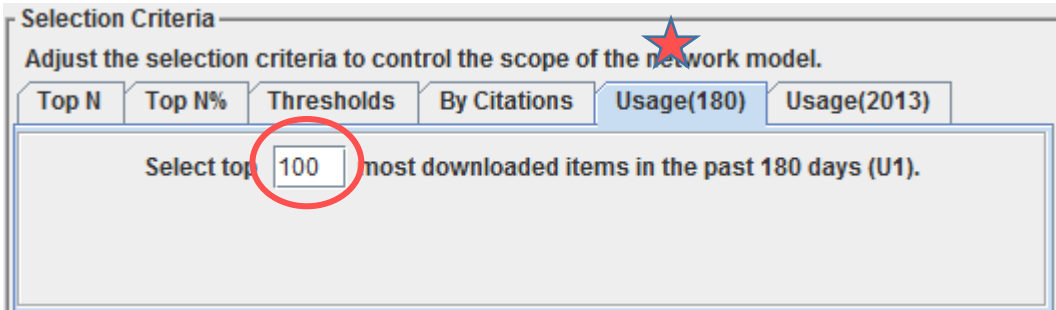
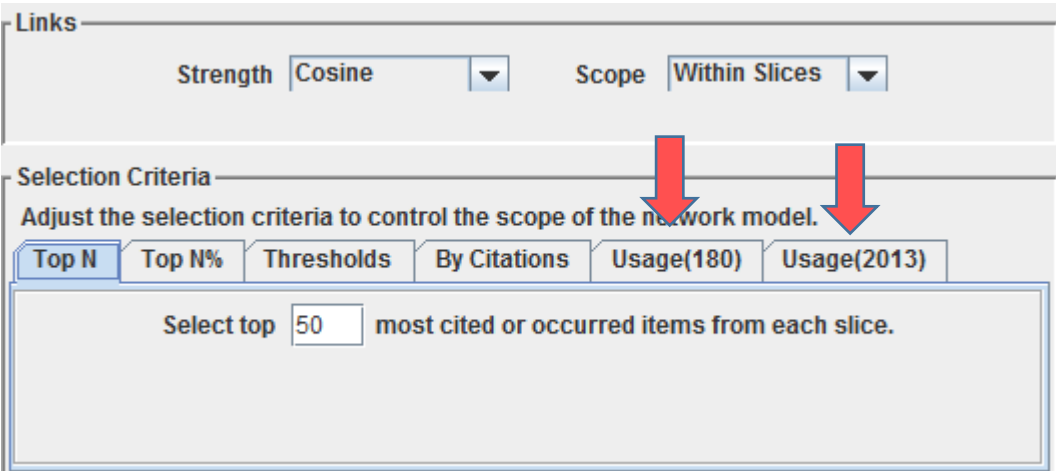
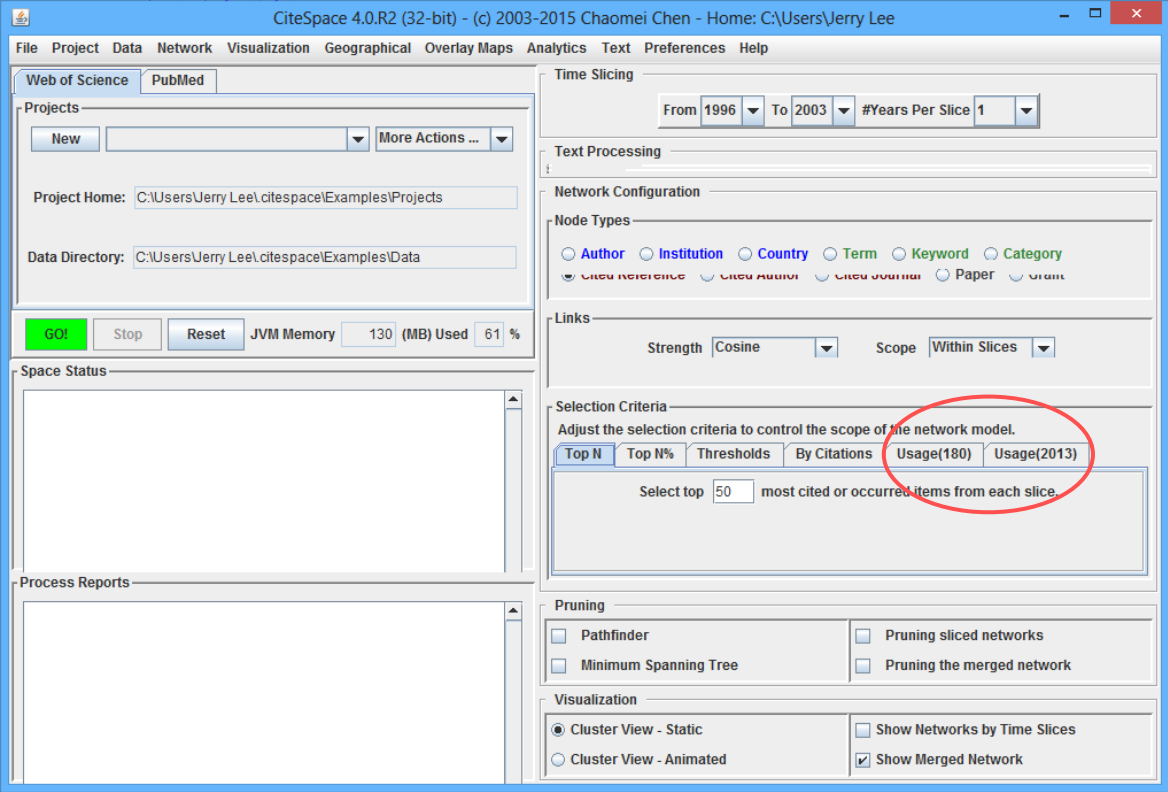
详见: http://images.webofknowledge.com/WOKRS519B3/help/WOK/hp_usage_score.html

- Last 180 days. This is the count of the number of times the full text of a record has been accessed or a record has been saved in the last 180 days. This count can move up or down as the end date of the fixed period advances.
- Since 2013. This is the count of the number of times the full text of a record has been accessed or a record has been saved since February 1, 2013. This count can increase or remain static over time.
- **U1: 近180天内，全文的访问次数，或保存该记录的次数。**
- **U2: 2013年 2 月 1 日至今的全文的访问次数，或保存该记录的次数。**
- CiteSpace 4.0.R2可以在共被引网络中以白底红圈显示这两组数值



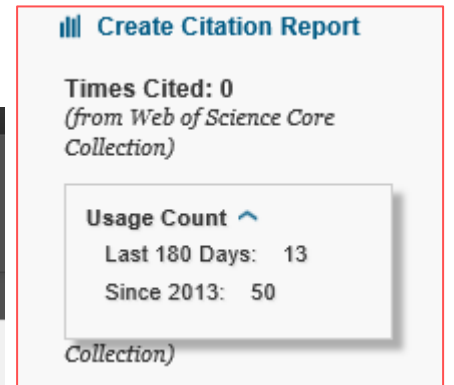
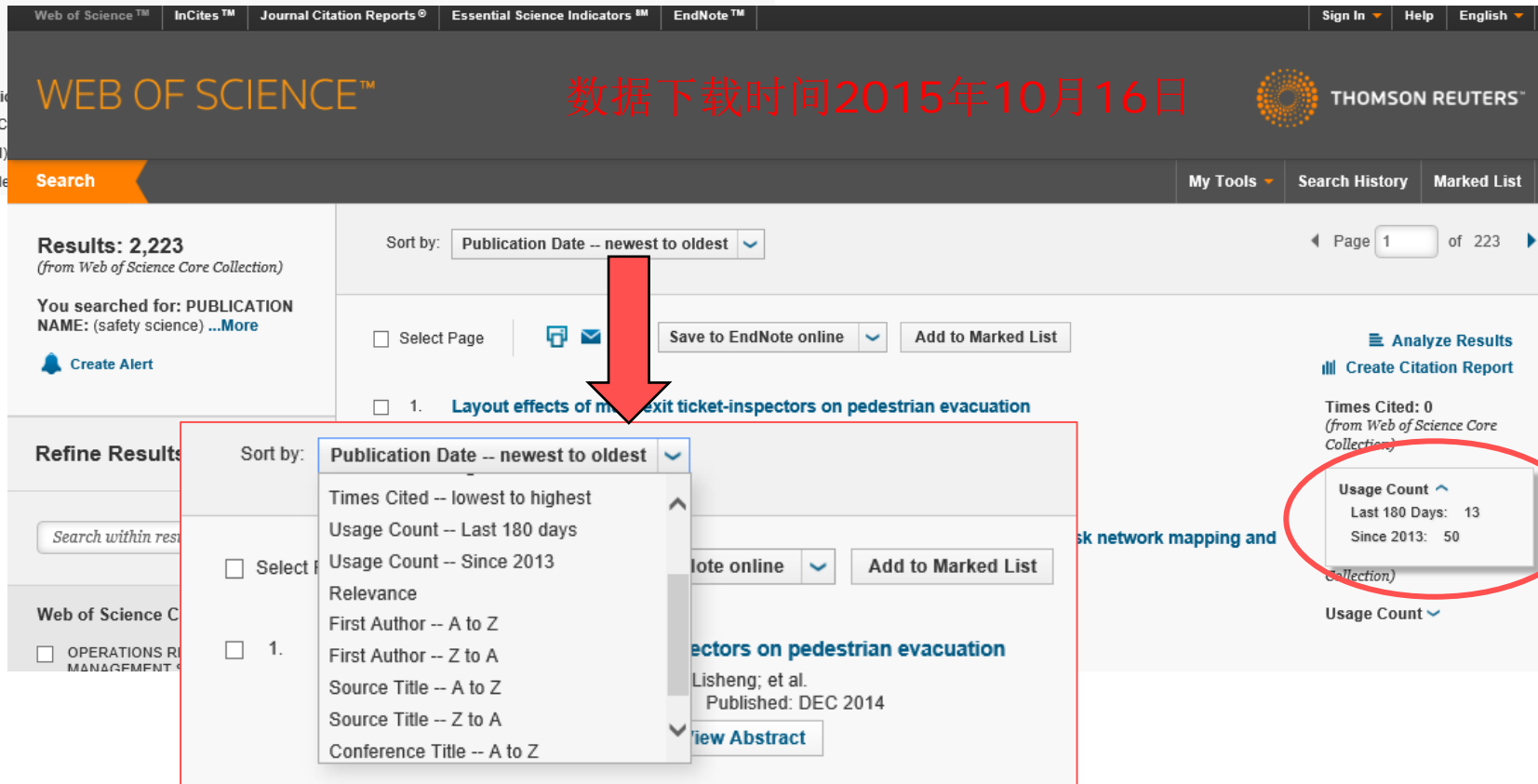
界面发生的变化，红圈为新增加的功能。该功能可以作为新的数据初步分析时筛选之用。

- U1: 近180天内，全文的访问次数，或保存该记录的次数。
- U2: 2013年 2 月 1 日至今的全文的访问次数，或保存该记录的次数。



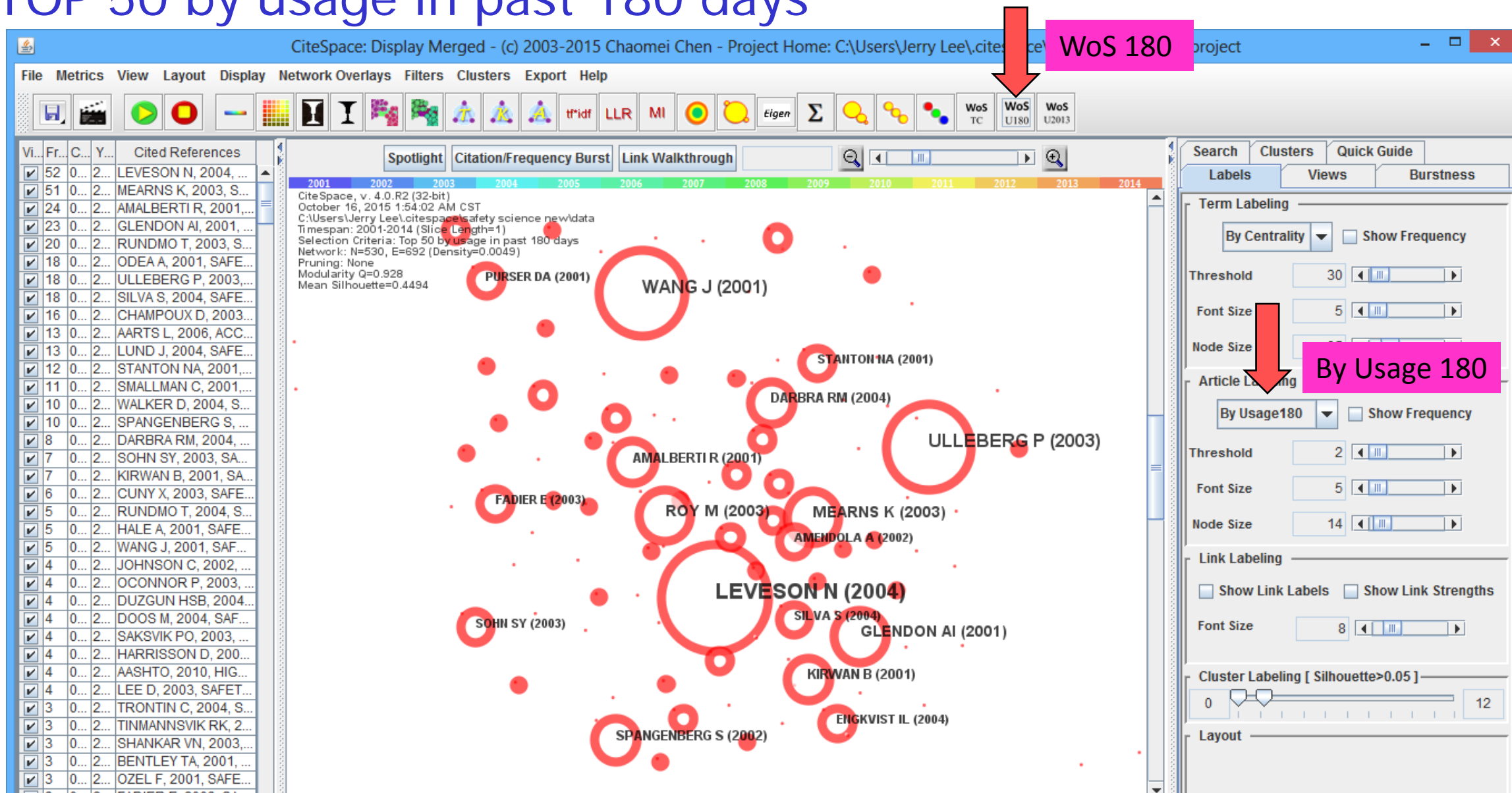


数据获取步骤与早期的Web of Science 步骤一样。
这里标记处数据库所更新的位置。

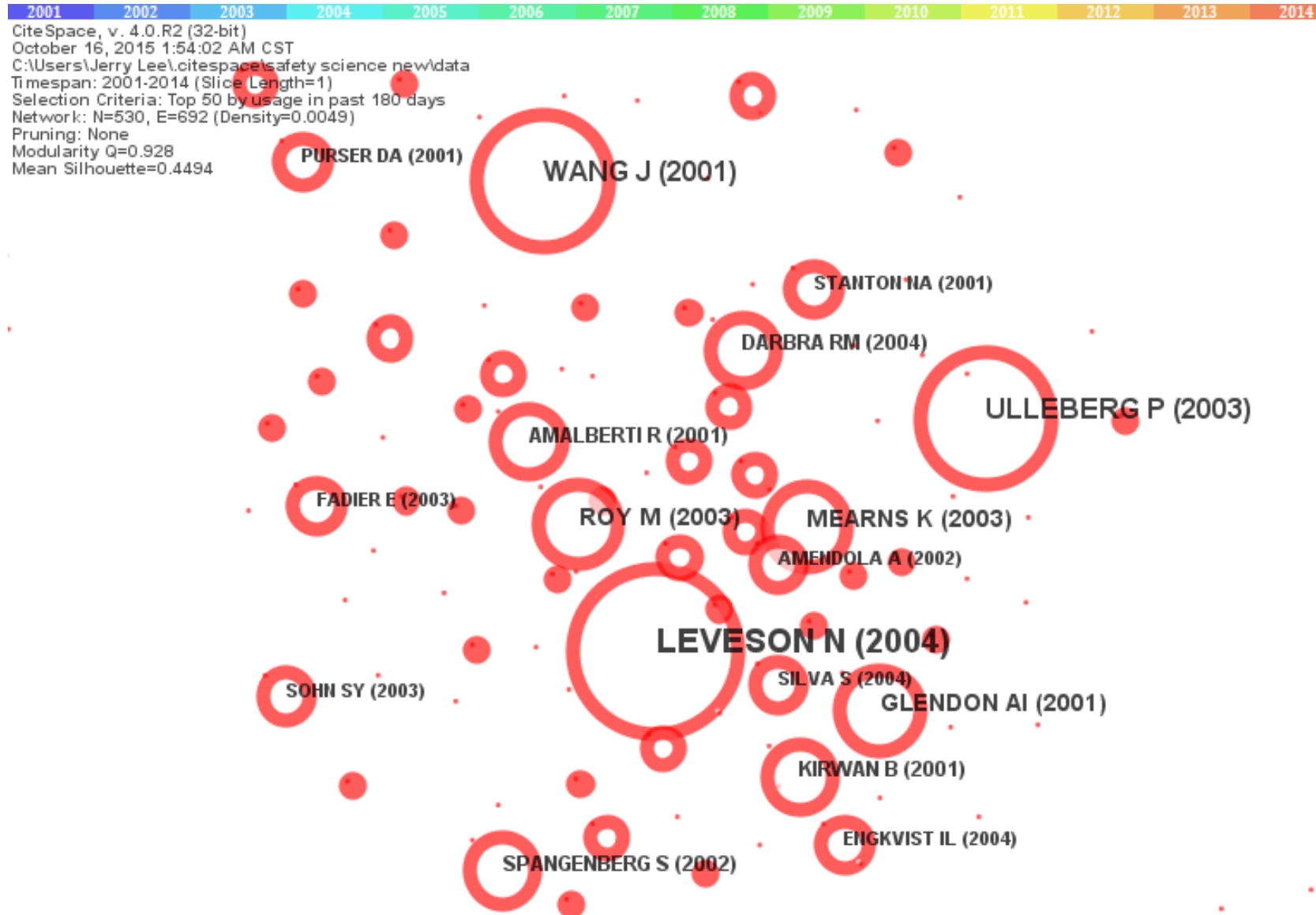


基于期刊Safety Science的分析结果

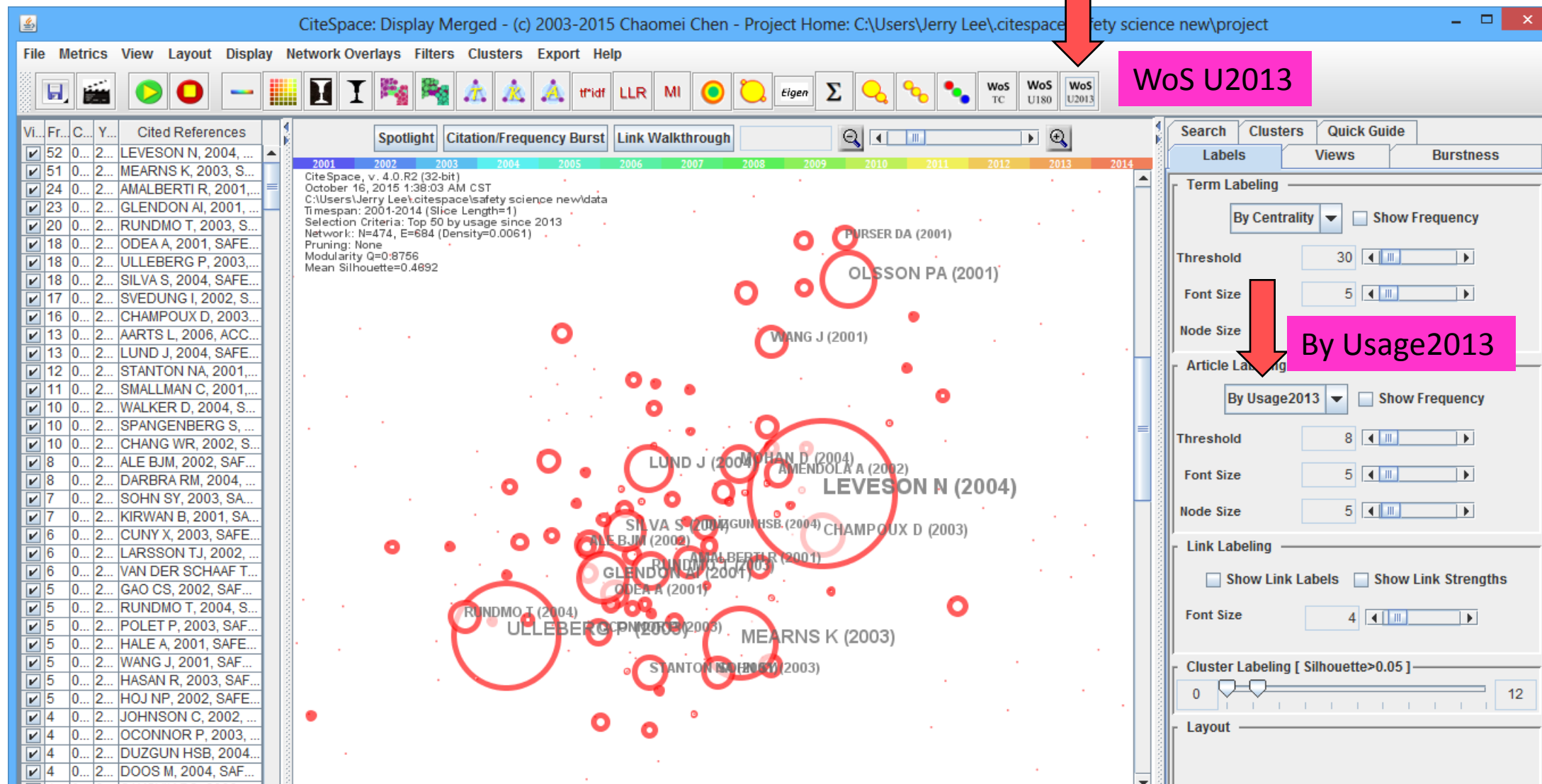
TOP 50 by usage in past 180 days



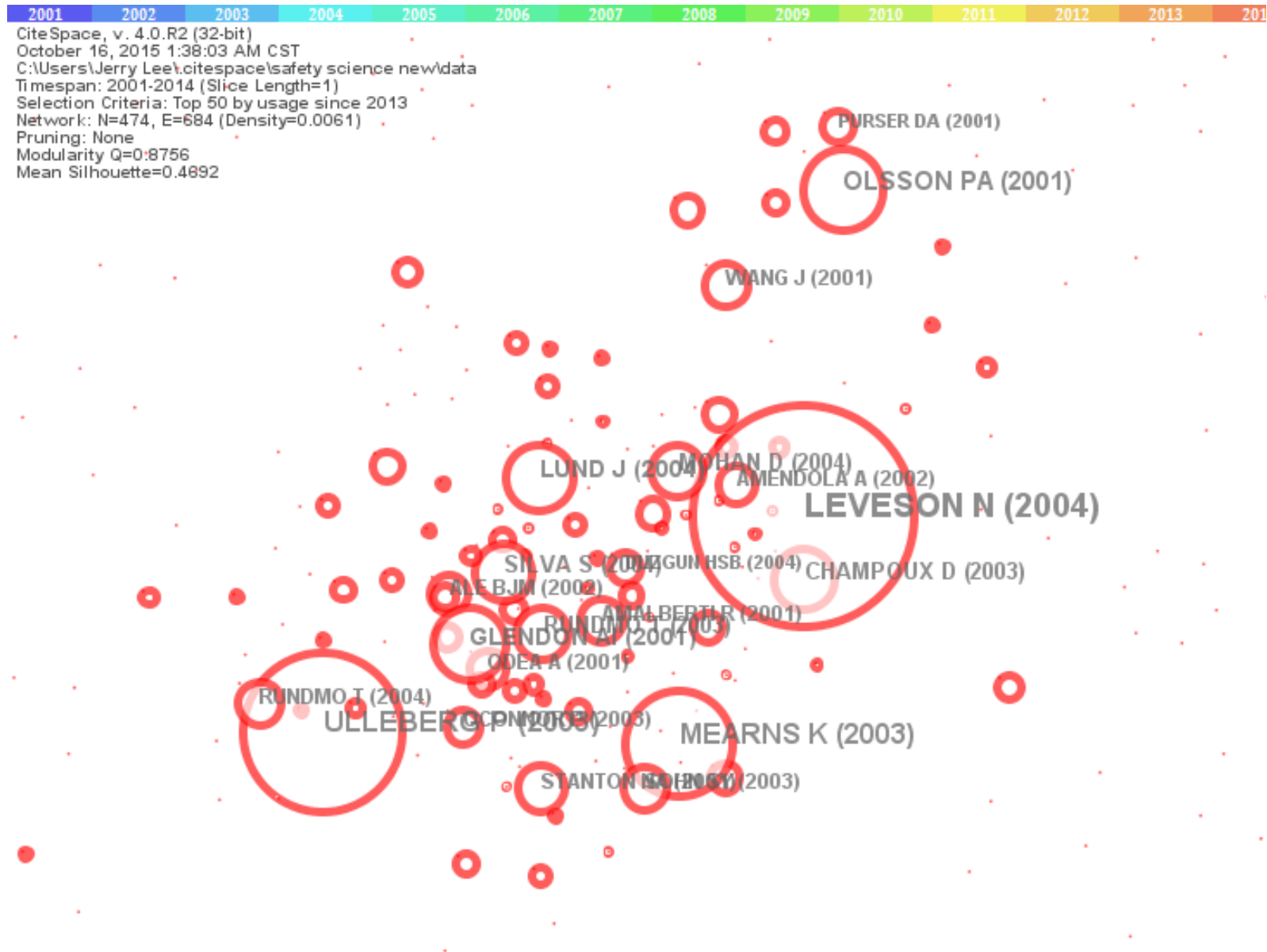
TOP 50 by usage in past 180 days



TOP 50 by usage since 2013



TOP 50 by usage since 2013



基于作者的分析结果

这里的案例以陈超美教授的论文为例

Chen, Chaomei

[Get A Badge](#)[ResearcherID Labs](#)

ResearcherID: A-1252-2007

URL: <http://www.researcherid.com/rid/A-1252-2007>

Subject: Computer Science; Information Science & Library Science

Keywords: information visualization; mapping scientific frontiers; visual analytics

ORCID: <http://orcid.org/0000-0001-8584-1041>My Institutions [\(more details\)](#)

Primary Institution: Drexel University

Sub-org/Dept: College of Information Science and Technology

Role: Faculty

My Publications

My Publications (99)

[View Publications](#)[Citation Metrics](#)

ResearcherID labs

[Create A Badge](#)[Collaboration Network](#)[Citing Articles Network](#)

My Publications: View

This list contains papers that I have authored.

99 publication(s)

Page 1 of 10

Go

Sort by

1. Title: Orphan drugs and rare diseases: a scientometric review (2000-2014)
Author(s): Chen, Chaomei; Dubin, Rachael; Kim, Meen, Chul
Source: **Expert Opinion on Orphan Drugs** Volume: 2 Issue: 7 Pages: 709-724 Published: JUL 2014
Times Cited: 1
DOI: [10.1517/21678707.2014.920251](https://doi.org/10.1517/21678707.2014.920251)

Search

ORCID

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FOR RESEARCHERS

FOR ORGANIZATIONS

[SIGN IN](#)[REGISTER FOR AN ORCID ID](#)[LEARN MORE](#)

Chaomei Chen

ORCID ID

orcid.org/0000-0001-8584-1041

Websites

[Homepage](#)

▼ Employment (1)

Drexel University: Philadelphia, Pennsylvania,
2001-10 to present

Professor

Source: Chaomei Chen

为了准确地得到陈超美教授的论文，这里我们使用其唯一的学术身份证来获取。

作者	ResearcherID	ORCID 号
Chen, Chaomei	A-1252-2007	http://orcid.org/0000-0001-8584-1041

Basic Search

陈超美教授的ResearcherID

A-1252-2007

Author Identifiers

Search

[+ Add Another Field](#) | [Reset Form](#)

TIMESPAN

☐ All years☒ From 1990 to 2015

MORE SETTINGS

Web of Science Core Collection: Citation Indexes

- ☒ Science Citation Index Expanded (SCI-EXPANDED) --2004-present
- ☒ Social Sciences Citation Index (SSCI) --2004-present
- ☒ Conference Proceedings Citation Index- Science (CPCI-S) --1990-present
- ☒ Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH)

小提示

使用的数据库信息如上！
各个高校购买是有差异的，请注意！

2015/10/16

Web of Science™ InCites™ Journal Citation Reports® Essential Science Indicators SM EndNote™ Sign In English

WEB OF SCIENCE™ THOMSON REUTERS™

Search My Tools Search History Marked List

Results: 70
(from Web of Science Core Collection)

You searched for: AUTHOR IDENTIFIERS: (A-1252-2007)
Timespan: 1990-2015.
Indexes: SCI-EXPANDED, SSCI, CPCI-S, CPCI-SSH.
[...Less](#)

Create Alert

Refine Results

Search within results for...

Web of Science Categories

- ☐ COMPUTER SCIENCE INFORMATION SYSTEMS (36)
- ☐ INFORMATION SCIENCE

Sort by: Usage Count -- Last 180 days

Select Page Save to EndNote online Add to Marked List

- CiteSpace II: Detecting and visualizing emerging trends and transient patterns in scientific literature**
By: Chen, CM
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY Volume: 57
Issue: 3 Pages: 359-377 Published: FEB 1 2006
[Full Text from Publisher](#) [View Abstract](#)
- Emerging trends in regenerative medicine: a scientometric analysis in CiteSpace**
By: Chen, Chaomei; Hu, Zhigang; Liu, Shengbo; et al.
EXPERT OPINION ON BIOLOGICAL THERAPY Volume: 12 Issue: 5 Pages: 593-608 Published: MAY 2012
[Full Text from Publisher](#) [View Abstract](#)
- The Structure and Dynamics of Cocitation Clusters: A Multiple-Perspective Cocitation Analysis**
By: Chen, Chaomei; Ibekwe-SanJuan, Fidella; Hou, Jianhua
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY Volume: 61
Issue: 7 Pages: 1386-1409 Published: JUL 2010
[Full Text from Publisher](#) [View Abstract](#)

Times Cited: 253
(from Web of Science Core Collection)

Usage Count ^
Last 180 Days: 88
Since 2013: 338
(from Web of Science Core Collection)

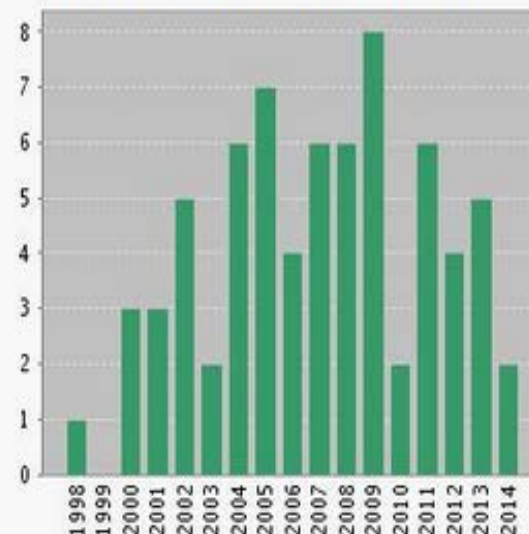
Times Cited: 58
(from Web of Science Core Collection)

Last 180 Days: 22

Use the checkboxes below to view the records. You can choose to view those selected records, o

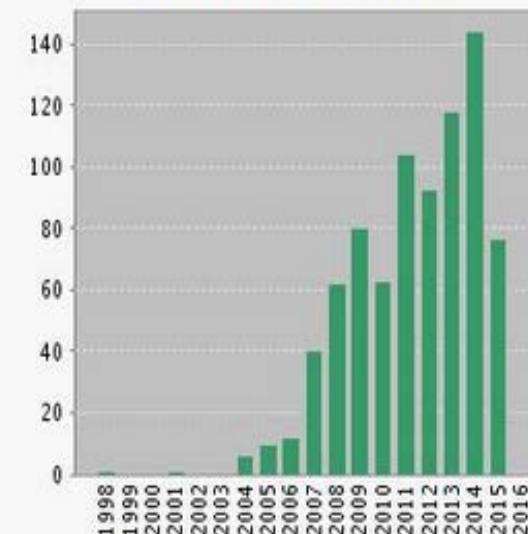
<input checked="" type="checkbox"/> View Records	Field: Publication Years	Record Count	% of 70	Bar Chart
<input checked="" type="checkbox"/> Exclude Records				
<input type="checkbox"/>	2009	8	11.429 %	<div></div>
<input type="checkbox"/>	2005	7	10.000 %	<div></div>
<input type="checkbox"/>	2004	6	8.571 %	<div></div>
<input type="checkbox"/>	2007	6	8.571 %	<div></div>
<input type="checkbox"/>	2008	6	8.571 %	<div></div>
<input type="checkbox"/>	2011	6	8.571 %	<div></div>
<input type="checkbox"/>	2002	5	7.143 %	<div></div>
<input type="checkbox"/>	2013	5	7.143 %	<div></div>
<input type="checkbox"/>	2006	4	5.714 %	<div></div>
<input type="checkbox"/>	2012	4	5.714 %	<div></div>
<input type="checkbox"/>	2000	3	4.286 %	<div></div>
<input type="checkbox"/>	2001	3	4.286 %	<div></div>
<input type="checkbox"/>	2003	2	2.857 %	<div></div>
<input type="checkbox"/>	2010	2	2.857 %	<div></div>
<input type="checkbox"/>	2014	2	2.857 %	<div></div>
<input type="checkbox"/>	1998	1	1.429 %	<div></div>
<input checked="" type="checkbox"/> View Records	Field: Publication Years	Record Count	% of 70	Bar Chart
<input checked="" type="checkbox"/> Exclude Records				

Published Items in Each Year



The latest 20 years are displayed.

Citations in Each Year



The latest 20 years are displayed.

Use the checkboxes to remove individual items from this Citation Report							93	118	144	77	0	811	45.06
or restrict to items published between <div>1990</div> and <div>2015</div> <div>Go</div>													
<input type="checkbox"/>	1.	CiteSpace II: Detecting and visualizing emerging trends and transient patterns in scientific literature By: Chen, CM JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY Volume: 57 Issue: 3 Pages: 359-377 Published: FEB 1 2006					27	36	41	19	0	253	25.30
<input type="checkbox"/>	2.	Searching for intellectual turning points: Progressive knowledge domain visualization By: Chen, CM Conference: Colloquium on Mapping Knowledge Domains Location: Natl Acad Sci & Engrn, Arnold & Mable Beckman Ctr, Irvine, CA Date: MAY 09-11, 2003 PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 101 Supplement: 1 Pages: 5303-5310 Published: APR 6 2004					16	11	26	5	0	131	10.92
<input type="checkbox"/>	3.	The Structure and Dynamics of Cocitation Clusters: A Multiple-Perspective Cocitation Analysis By: Chen, Chaomei; Ibekwe-SanJuan, Fidelia; Hou, Jianhua JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY Volume: 61 Issue: 7 Pages: 1386-1409 Published: JUL 2010					11	12	15	7	0	58	9.67

参数设置情况！

CiteSpace 4.0.R2 (32-bit) - (c) 2003-2015 Chaomei Chen - Home: C:\Users\Jerry Lee

File Project Data Network Visualization Geographical Overlay Maps Analytics Text Preferences Help

Web of Science PubMed

Projects

New Chen CM More Actions ...

Project Home: C:\Users\Jerry Lee\citespace\Chen CM\project

Data Directory: C:\Users\Jerry Lee\citespace\Chen CM\data

GO! Stop Reset JVM Memory 162 (MB) Used 42 %

Space Status

Year Range	Usage	Nodes	Edges	Weight	Size
2004-2004	usage 180 50	98	50	452 / 452	
2005-2005	usage 180 50	113	50	399 / 399	
2006-2006	usage 180 50	127	50	521 / 521	
2007-2007	usage 180 50	93	50	388 / 388	
2008-2008	usage 180 50	73	50	263 / 263	
2009-2009	usage 180 50	181	50	554 / 554	
2010-2010	usage 180 50	85	50	966 / 966	
2011-2011	usage 180 50	147	50	243 / 243	
2012-2012	usage 180 50	141	50	539 / 539	

Process Reports

Records in the dataset: 66
Records within the chosen range: 65

Valid references: 1176 100.0000%
Invalid references: 0 0.0000%

Parsing Time: 0.817 seconds
Total Run time: 7.093 seconds

Time Slicing

From 2001 To 2014 #Years Per Slice 1

Text Processing

Network Configuration

Node Types

☐ Author ☐ Institution ☐ Country ☐ Term ☐ Keyword ☐ Category
☒ Cited Reference ☐ Cited Author ☐ Cited Journal ☐ Paper ☐ Grant

Links

Strength Cosine Scope Within Slices

Selection Criteria

Adjust the selection criteria to control the scope of the network model.

Top N Top N% Thresholds By Citations Usage(180) Usage(2013)

Select top 50 most downloaded items in the past 180 days (U1).

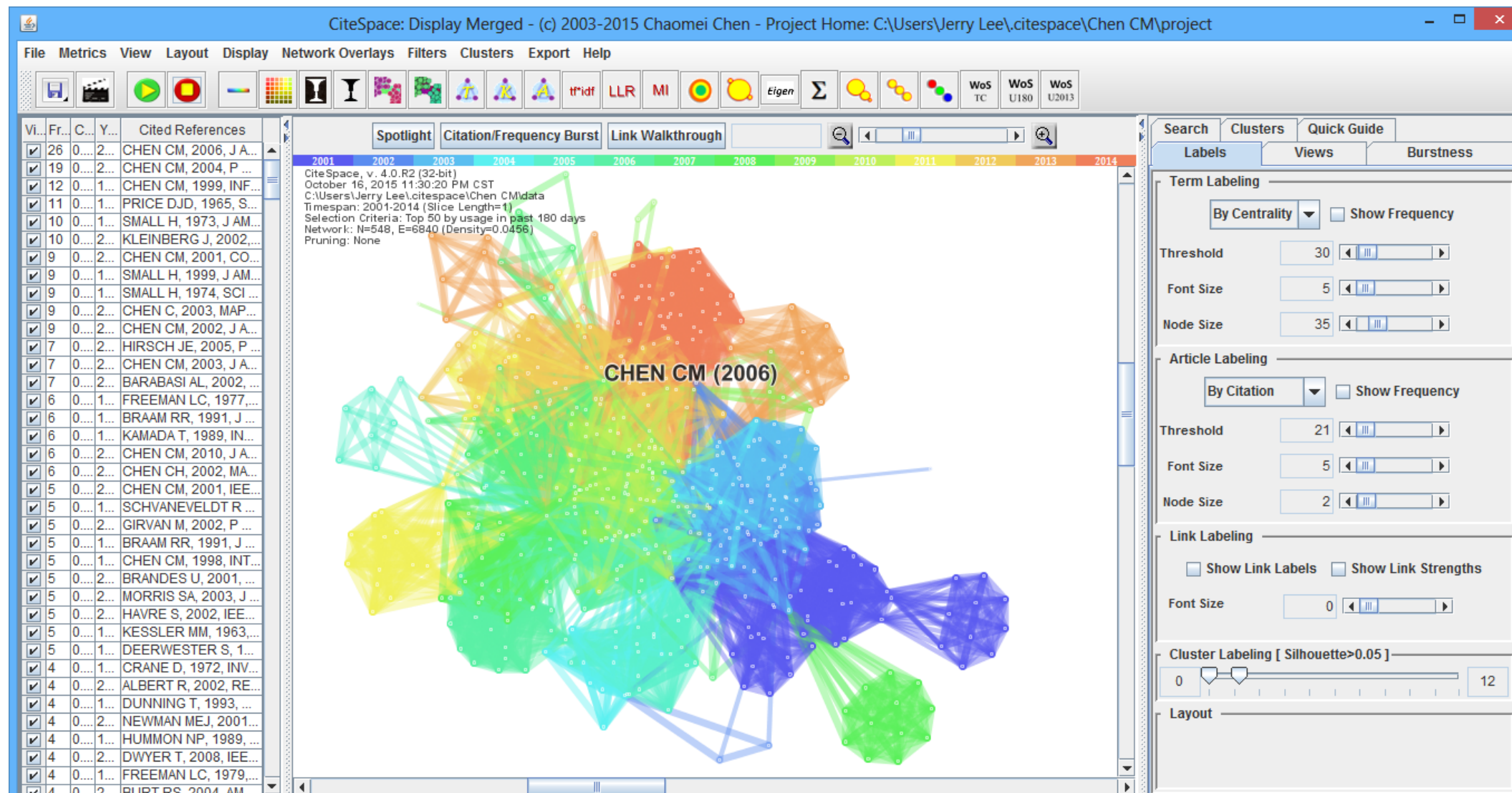
Pruning

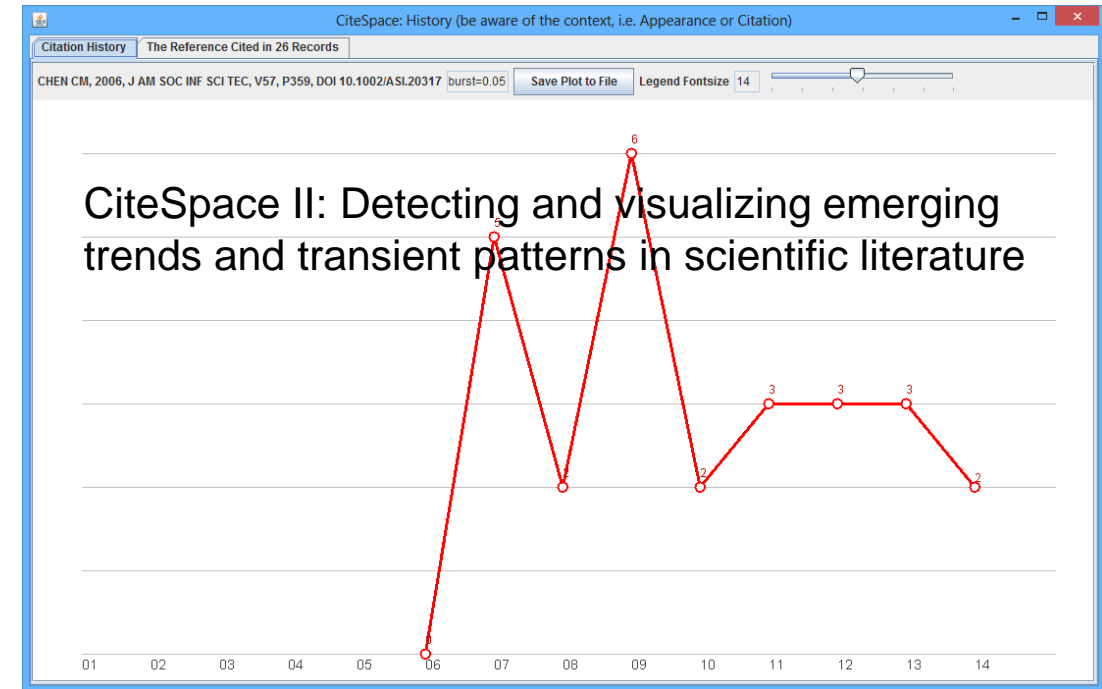
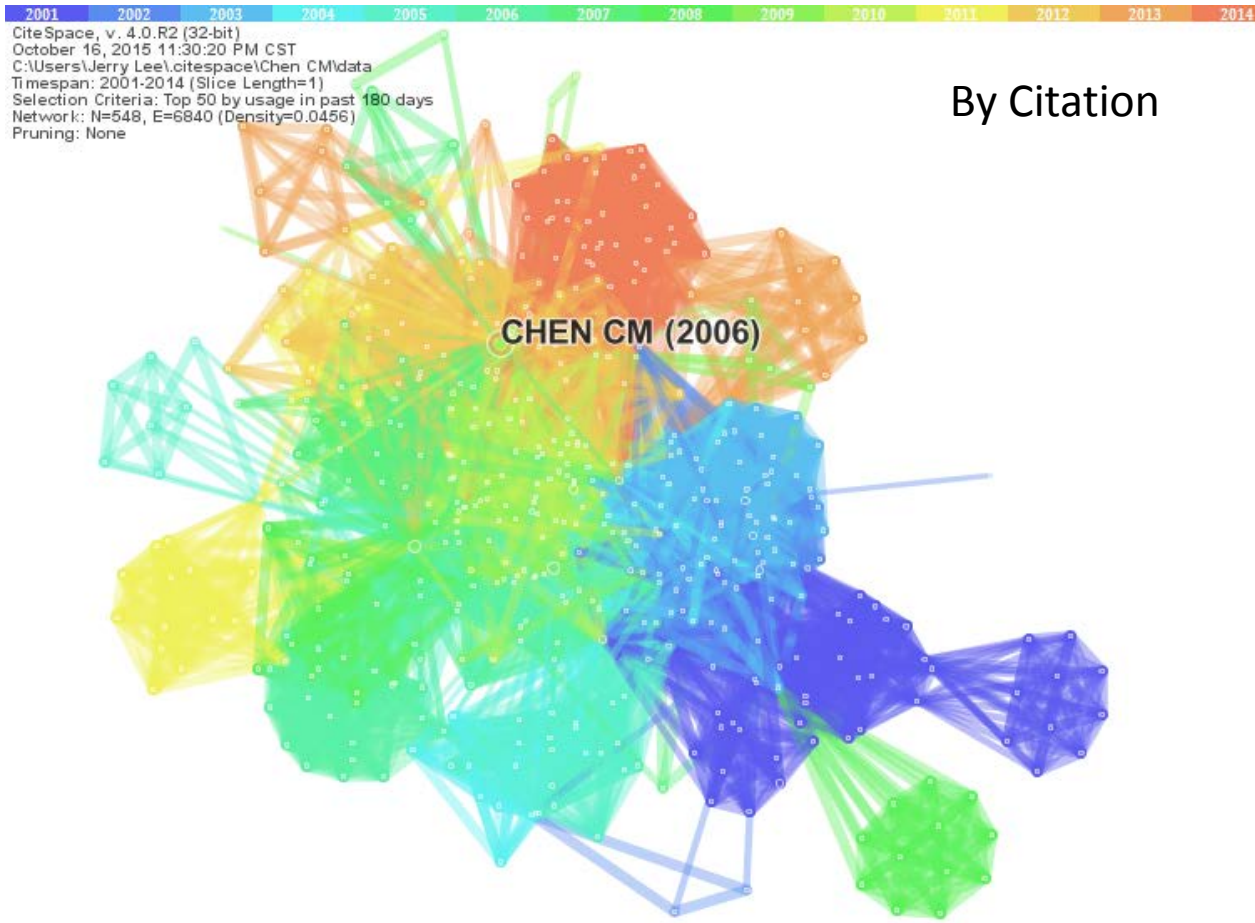
☐ Pathfinder ☐ Pruning sliced networks
☐ Minimum Spanning Tree ☐ Pruning the merged network

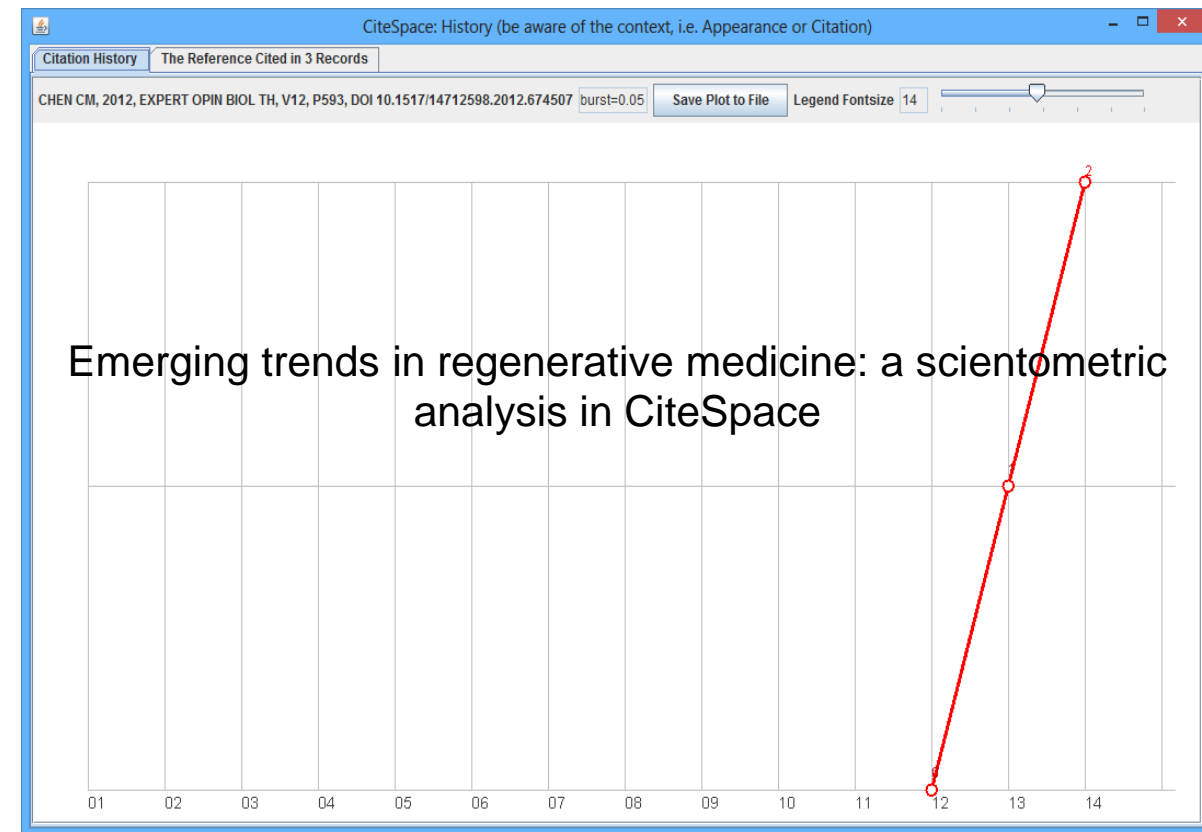
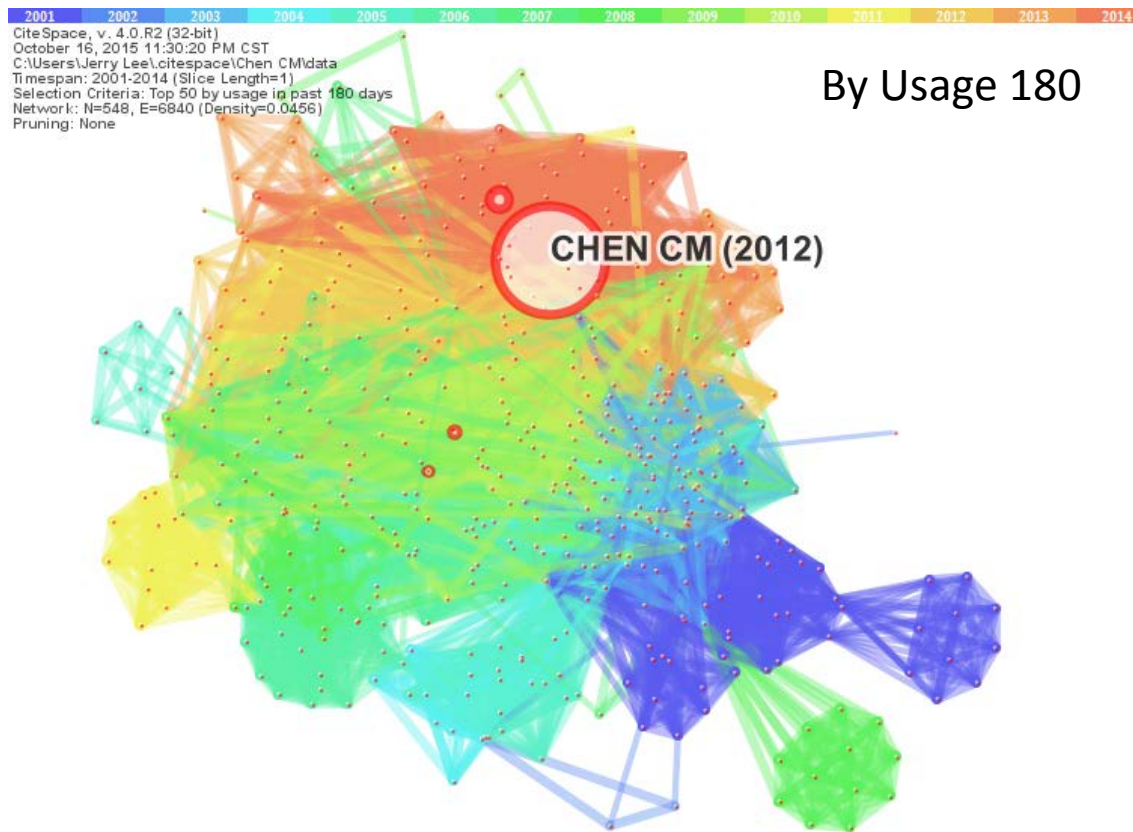
Visualization

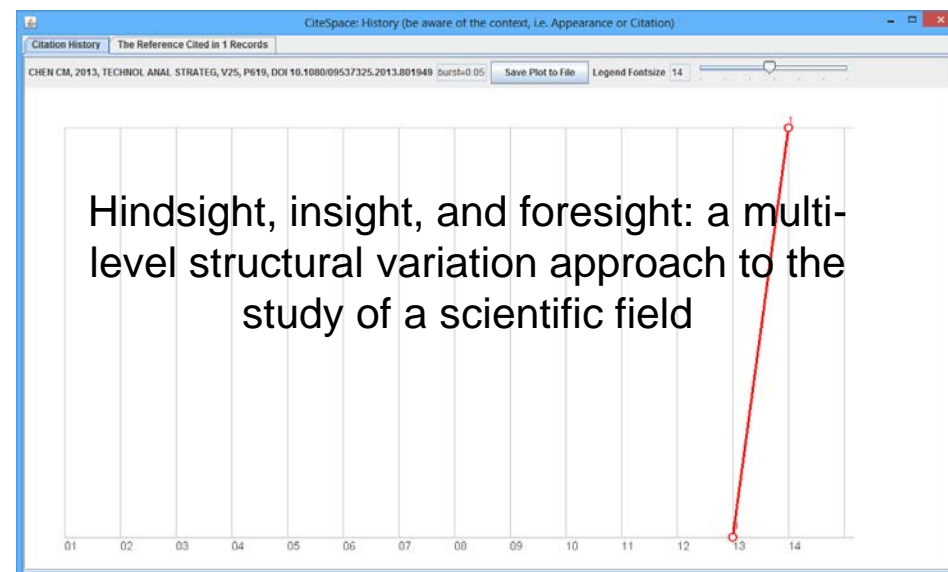
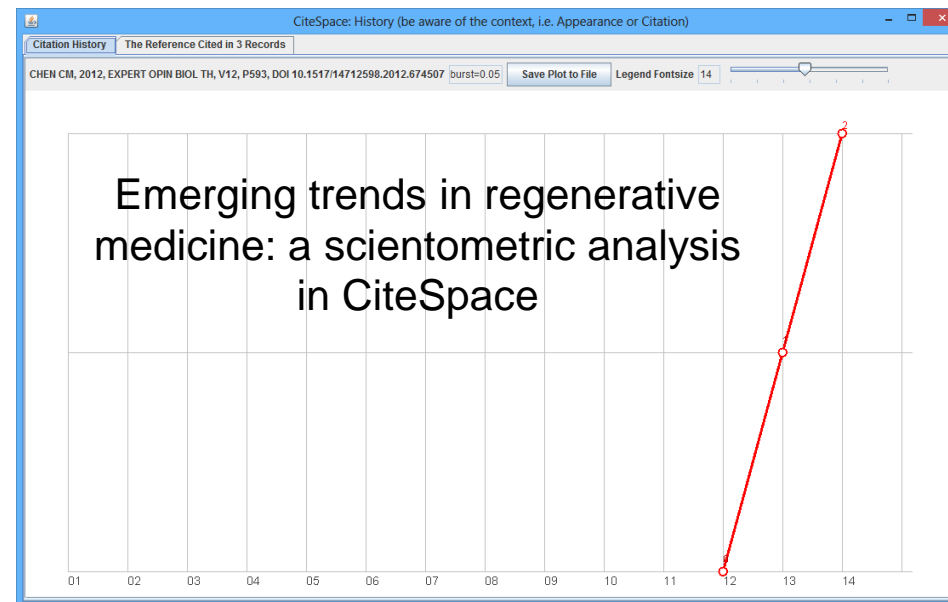
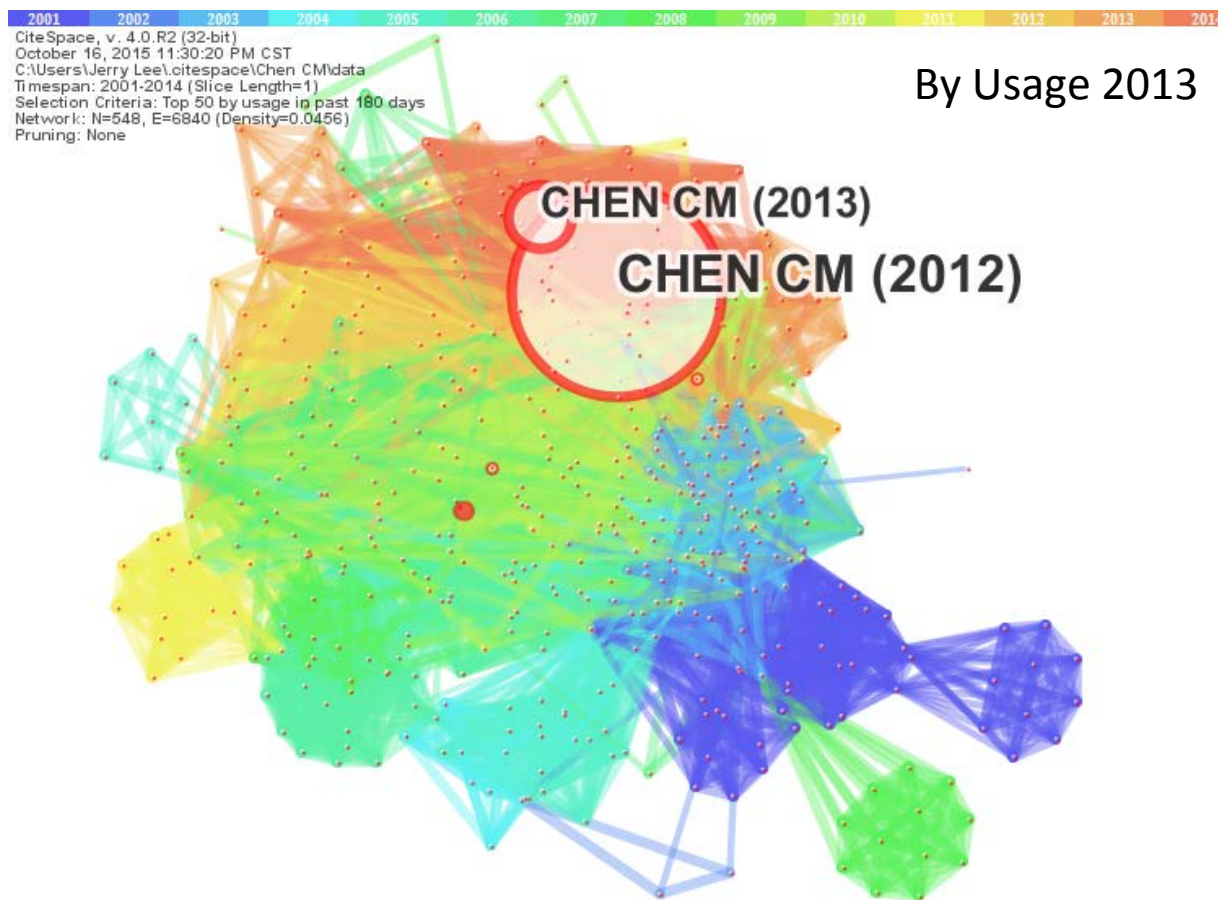
☒ Cluster View - Static ☐ Show Networks by Time Slices
☐ Cluster View - Animated ☒ Show Merged Network

运行结果！

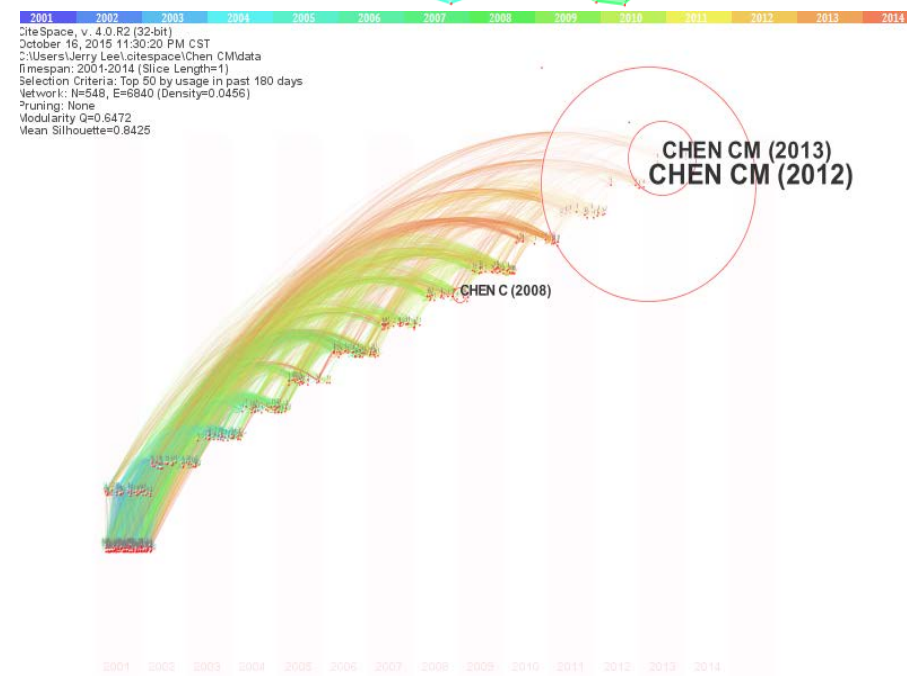
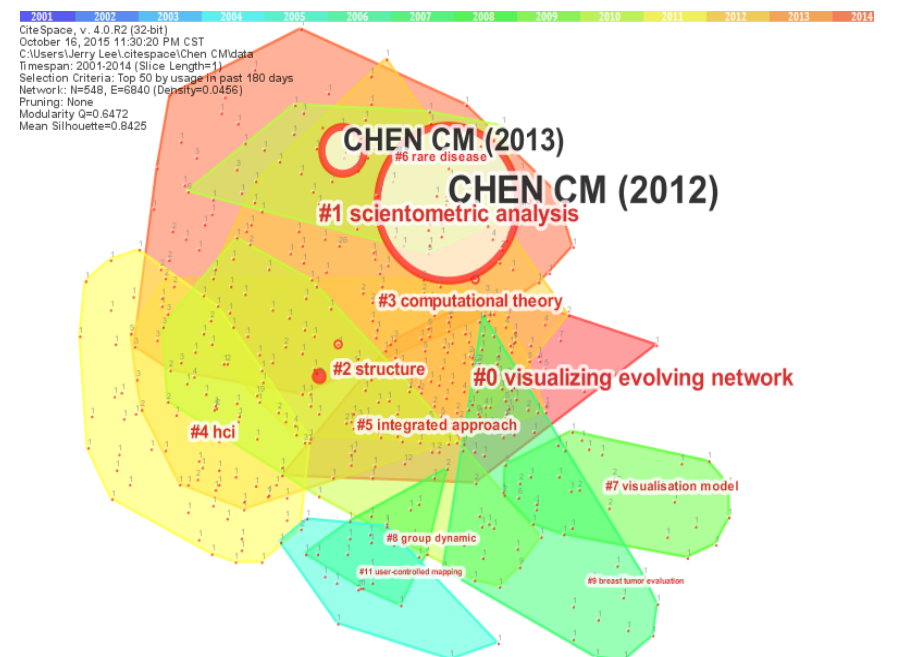
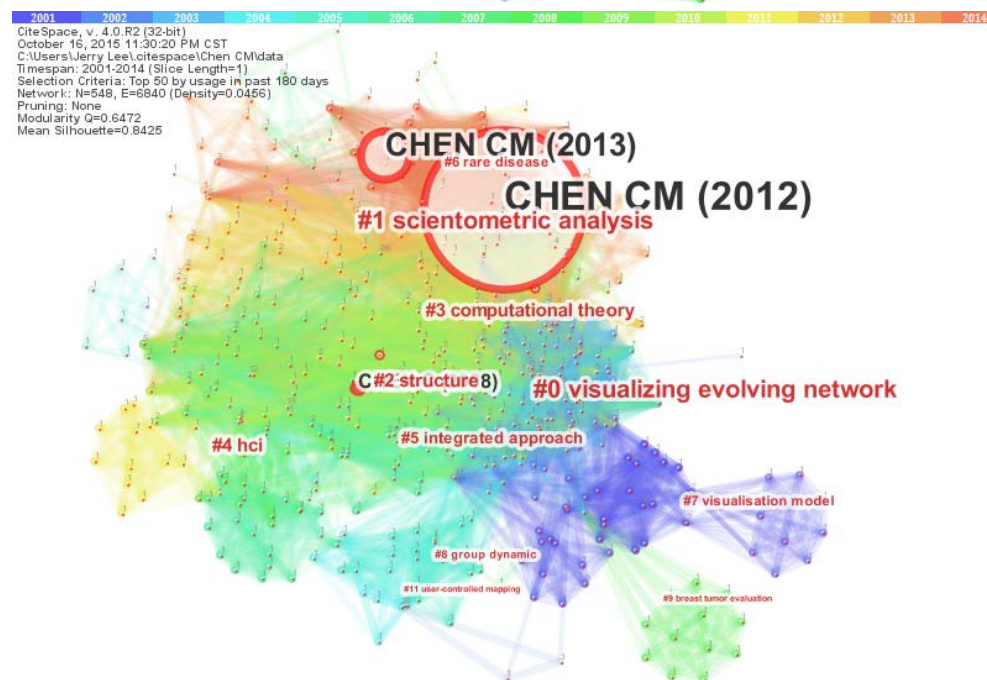
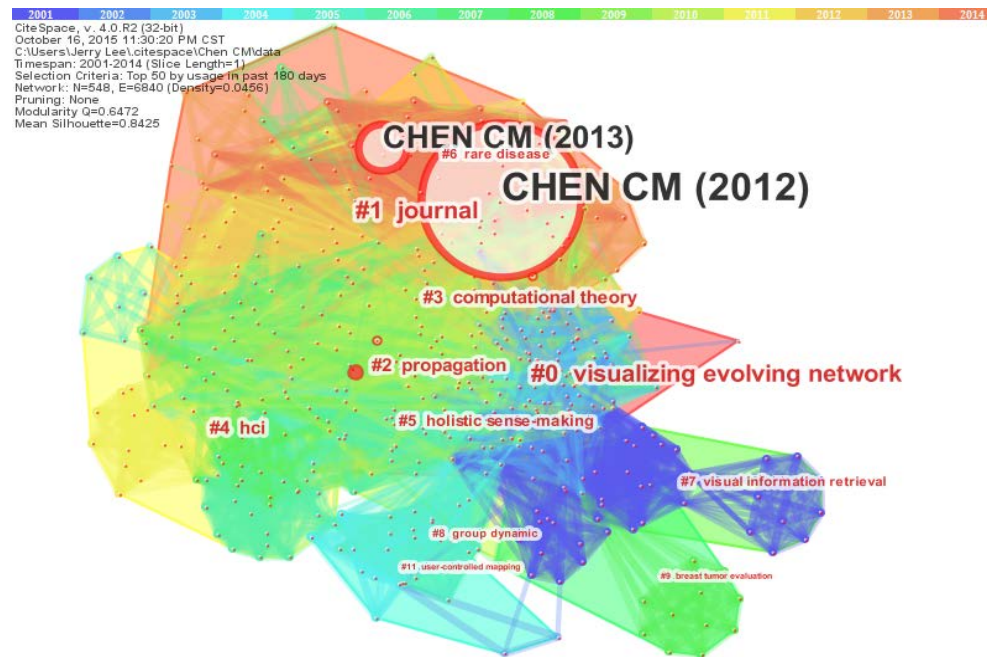








网络的聚类分析及其他展示！



- Selection Criteria -

Adjust the selection criteria to control the scope of the network model.

Top N Top N% Thresholds By Citations Usage(180) Usage(2013)

Select top most downloaded items in the past 180 days (U1).

上面是基于Usage180来筛选数据，也可以通过Usage2013来筛选。
下面给出通过Usage2013筛选数据，得到的结果见下页。

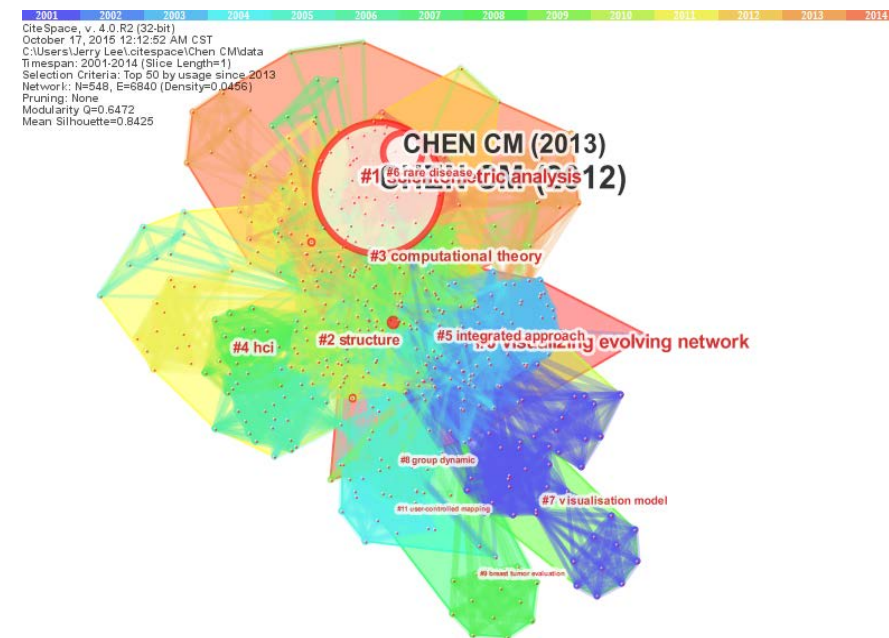
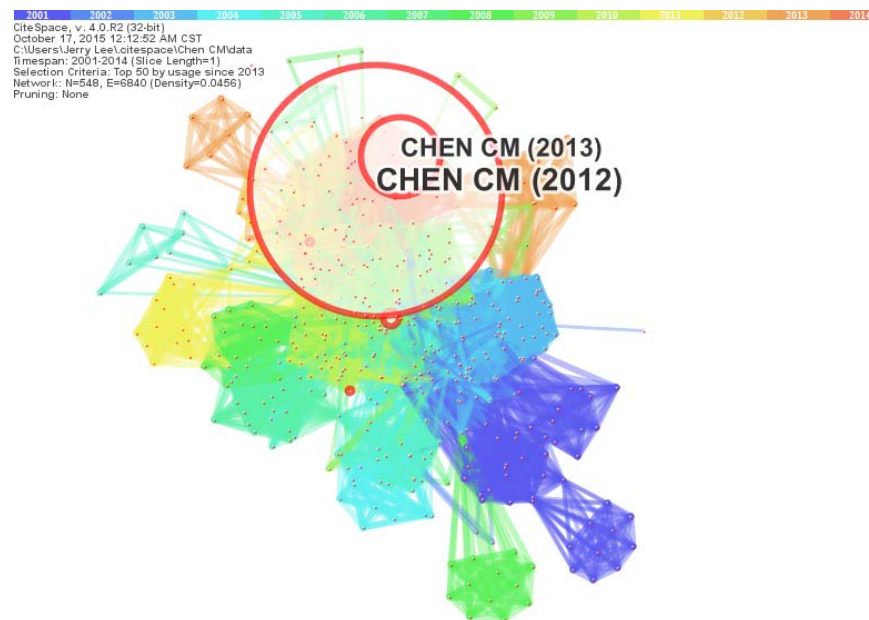
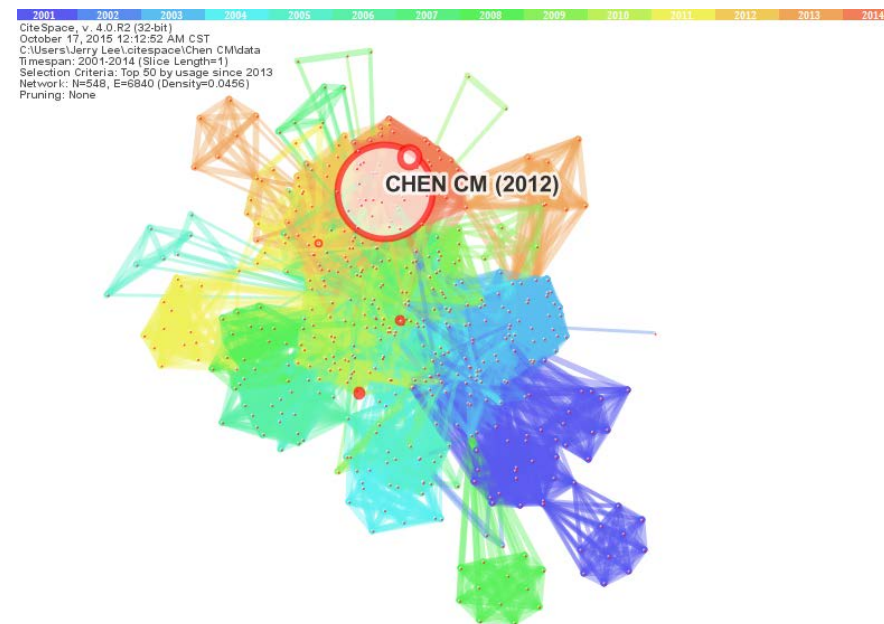
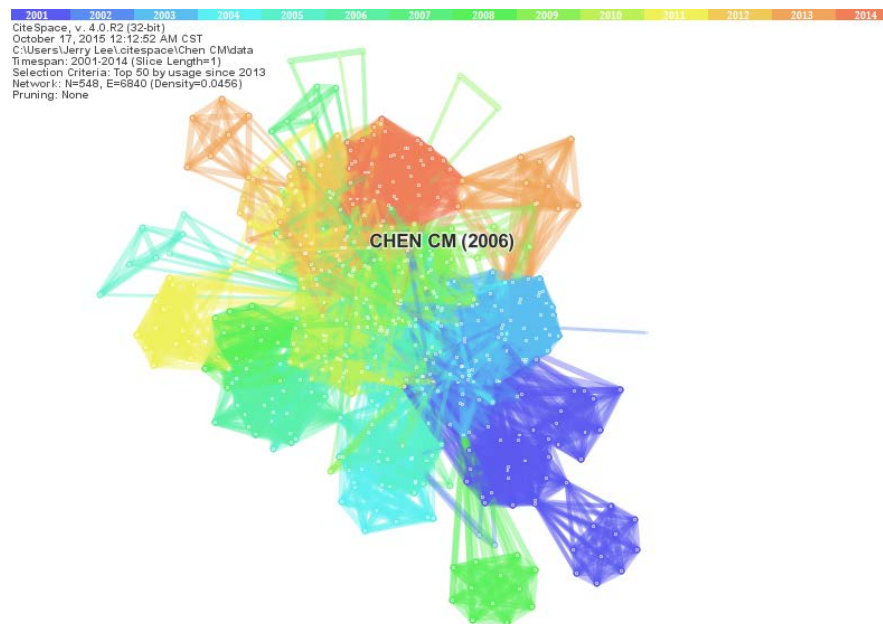
- Selection Criteria -

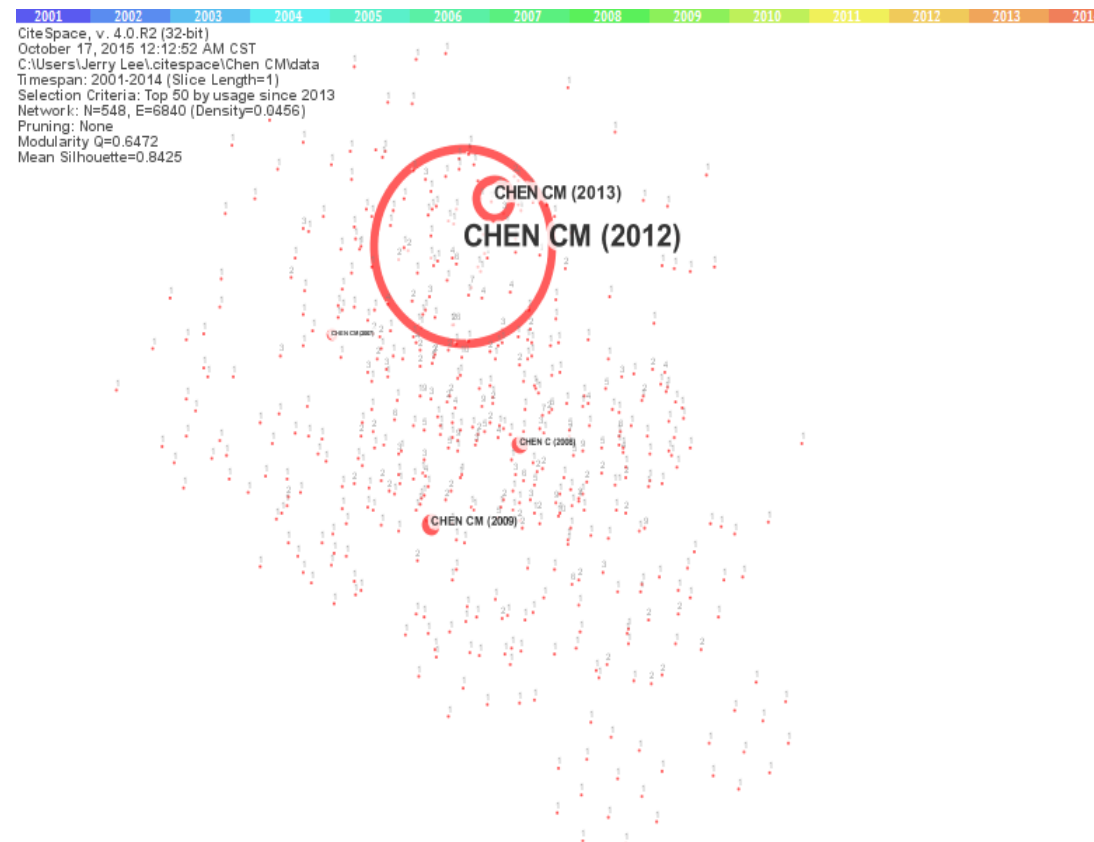
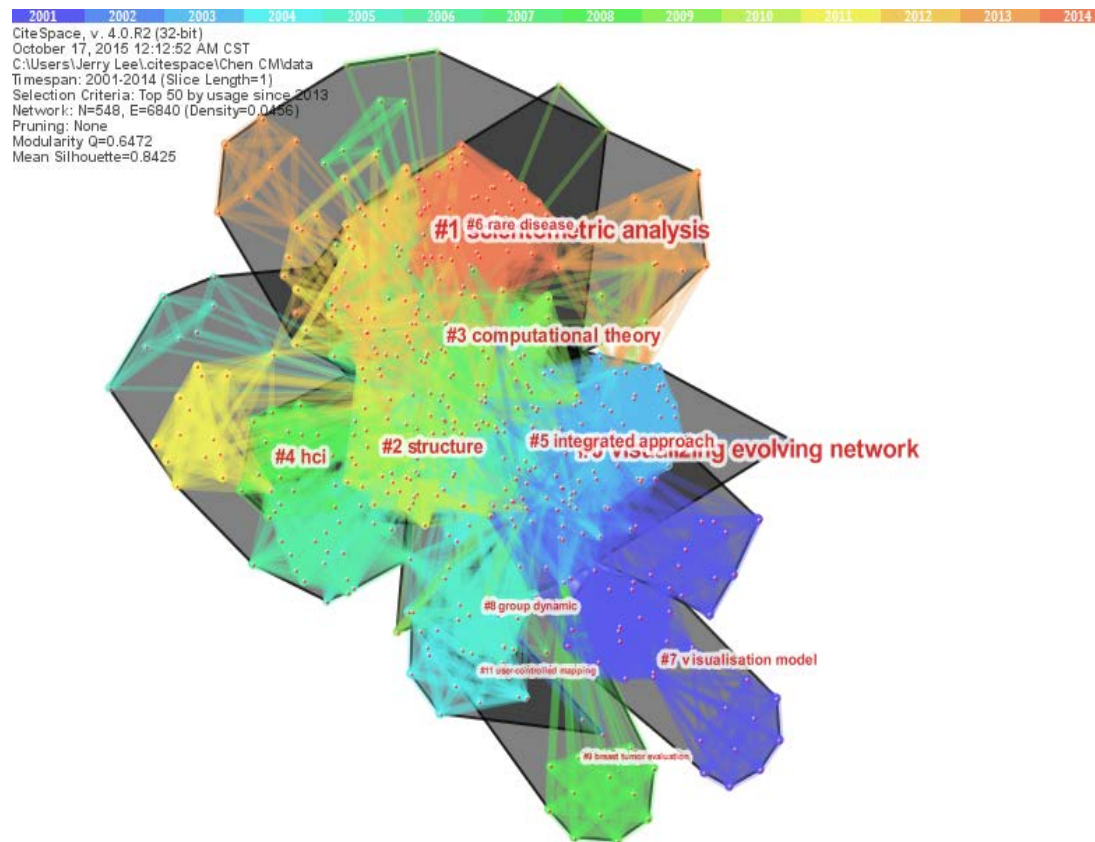
Adjust the selection criteria to control the scope of the network model.

Top N Top N% Thresholds By Citations Usage(180) Usage(2013)

Select top most downloaded items since 2013.

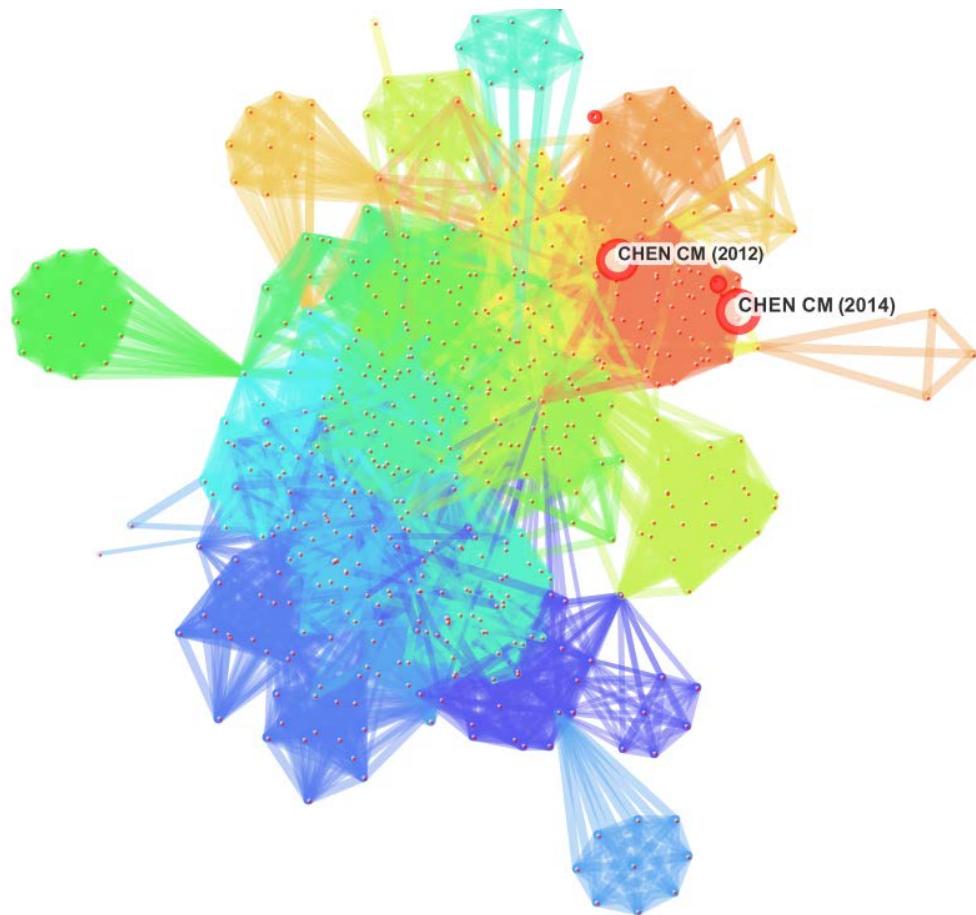
通过Usage2013筛选数据，得到的结果



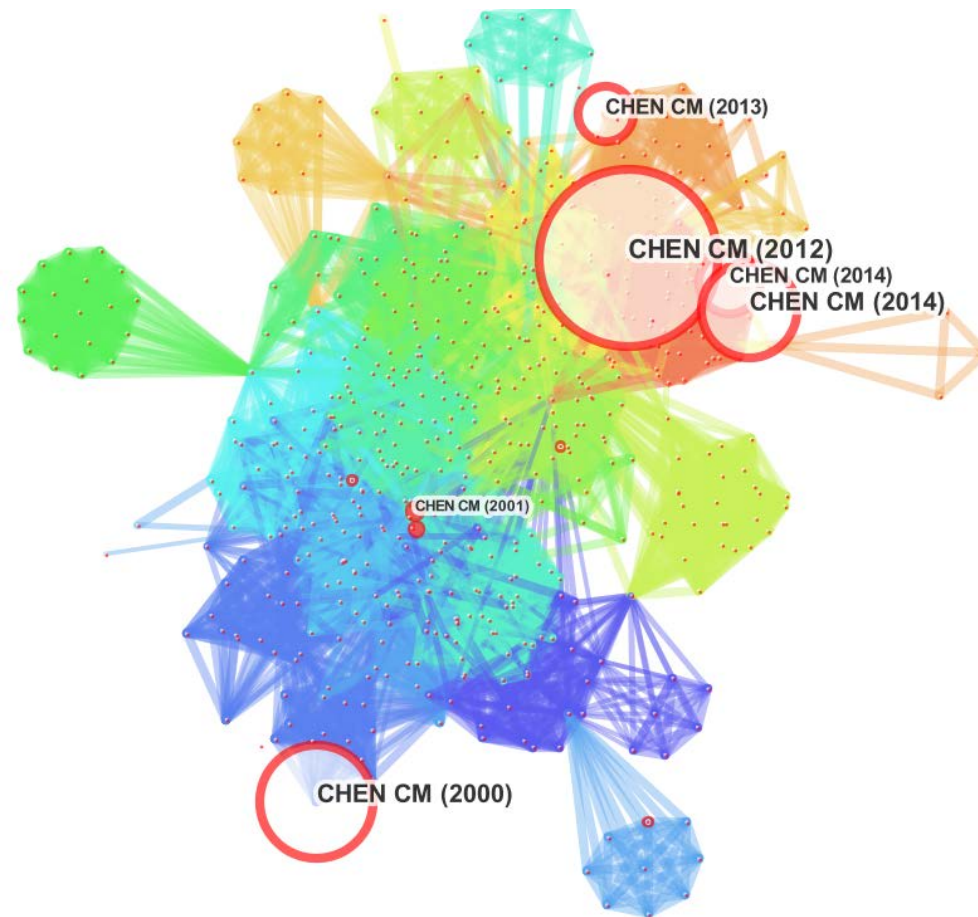


其他案例

TOP 50 by usage in past 180 days



TOP 50 by usage since 2013



下一版本的更新展望

U1和U2字段为我们了解节点的时间信息提供了便利。当前版本仅仅支持文献共被引网络的分析，今后或可在文献耦合、关键词共现等网络中尝试。

参考文献

• 该功能参考资料

1. CiteSpace 4.0.R2 增加Web of Science新添的下载数据 <http://blog.sciencenet.cn/blog-496649-928288.html>
2. CiteSpace101界面 <https://sites.google.com/site/citespace101/first-example/4-0/4-0-web-of-science>

更多Citespace学习资料:

1. 陈超美. CiteSpaceManual (英文)
<http://cluster.ischool.drexel.edu/~cchen/citespace/CiteSpaceManual.pdf>
2. 陈悦, 陈超美等. 引文空间分析原理与应用[M].科学出版社. 2014.
3. 陈超美著, 陈悦等译. 科学前沿图谱 知识可视化探索[M].科学出版社. 2014.
4. 李杰. 如何使用CiteSpace的一组示范及常见问题解答<http://blog.sciencenet.cn/blog-496649-838067.html>
5. 李杰. CiteSpace中文指南. <http://blog.sciencenet.cn/blog-496649-886962.html>
6. 李杰, 陈超美. CiteSpace科技文本挖掘及可视化[M]. 首都经济贸易大学出版社.2016.