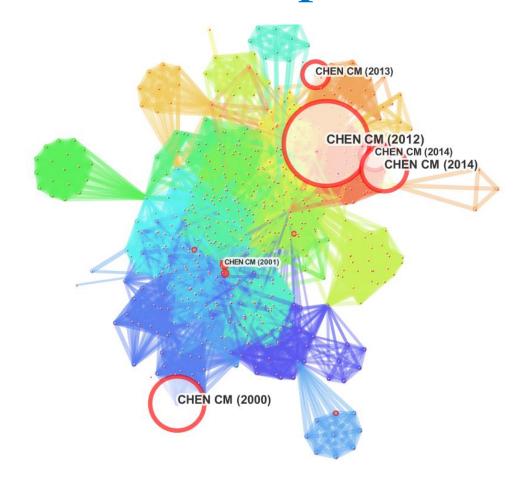
# CiteSpace对WoS文献使用的分析



### 李逵1,陈超美2

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- 2. Drexel University- College of Computing and Informatics

2015年10月15日



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

配套教程: 李杰, 陈超美著.CiteSpace科技文本挖掘及可视化[M].首都经济贸易大学出版社.2016.

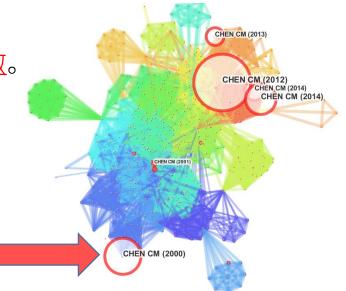
作者博客: 李杰博客: <a href="http://blog.sciencenet.cn/u/jerrycueb">http://blog.sciencenet.cn/u/jerrycueb</a>; 陈超美博客: <a href="http://blog.sciencenet.cn/u/jerrycueb">http://blog.sciencenet.cn/u/jerrycueb</a>; 陈超美博客: <a href="http://blog.sciencenet.cn/u/jerrycueb">http://blog.sciencenet.cn/u/jerrycueb</a>; 陈超美博客: <a href="http://blog.sciencenet.cn/u/jerrycueb">http://blog.sciencenet.cn/u/jerrycueb</a>; <a href="http://blog.sciencenet.cn/u/jerrycueb">http://blog.sciencenet.cn/u/jerrycueb</a>; <a href="http://blog.sciencenet.cn/u/jerrycueb">http://blog.sciencenet.cn/u/jerrycueb</a>; <a href="http://blog.sciencenet.cn/u/jerrycueb">http://blog.sciencenet.cn/u/ChaomeiChen</a></a>

# 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.
- <u>U1: 近180天内, 全文的访问次数, 或保存该记录的次数。</u>
- <u>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</u>。
- 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



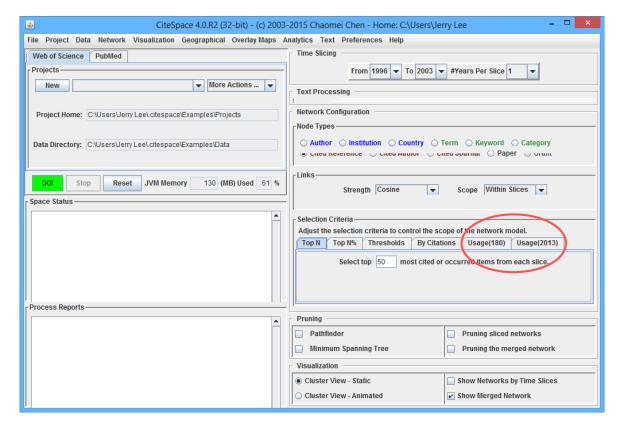
### 界面发生的变化,红圈为新增加的功能。该功能可以作为新的数据

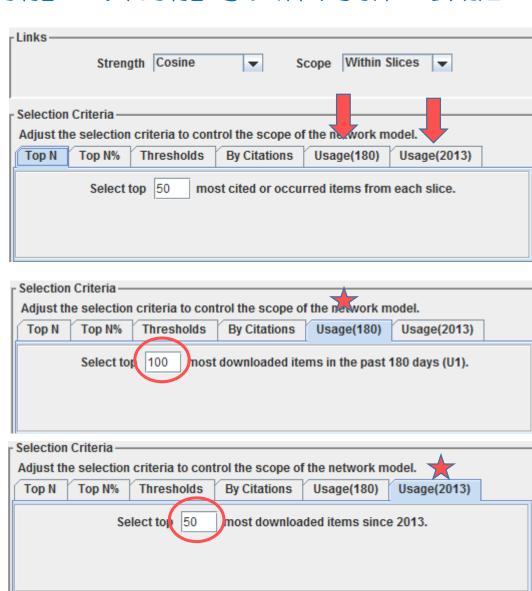
初步分析时筛选之用。

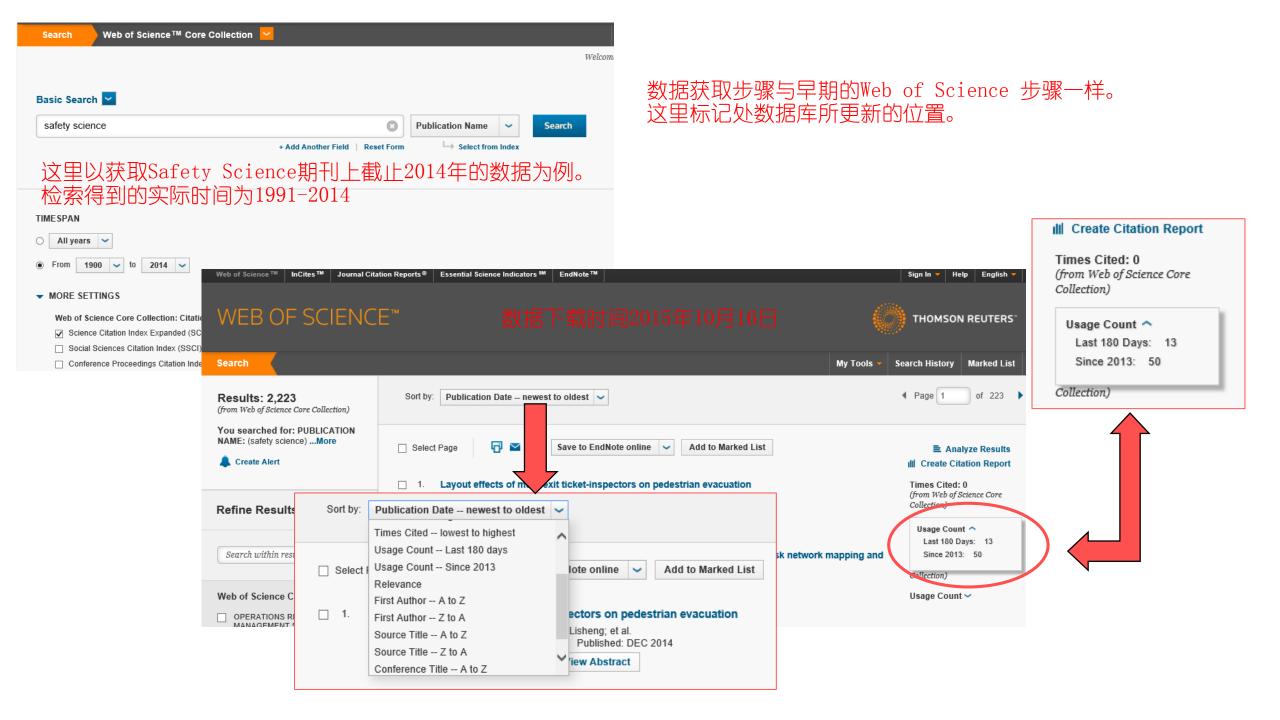
U1: 近180天内,全文的访问次数,或保存该记录的次数。

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。





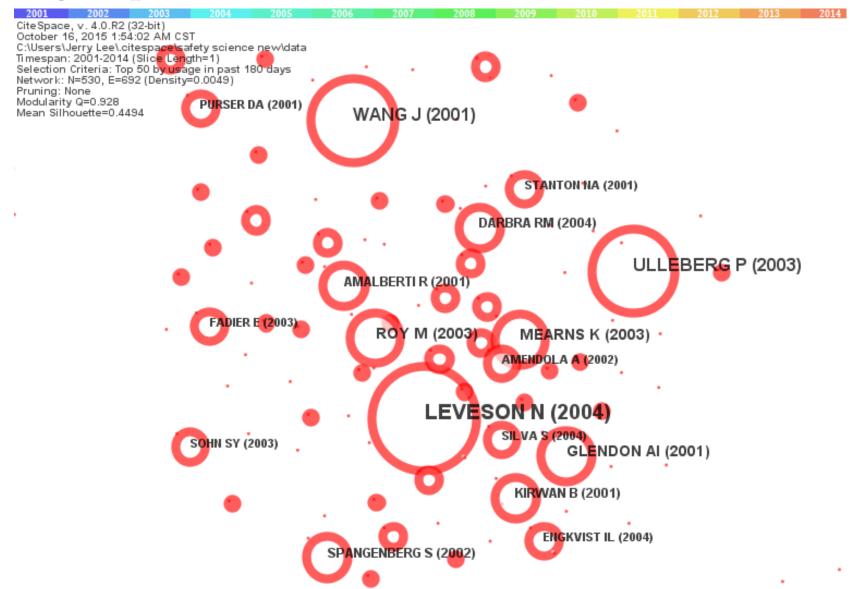


# 基于期刊Safety Science的分析结果

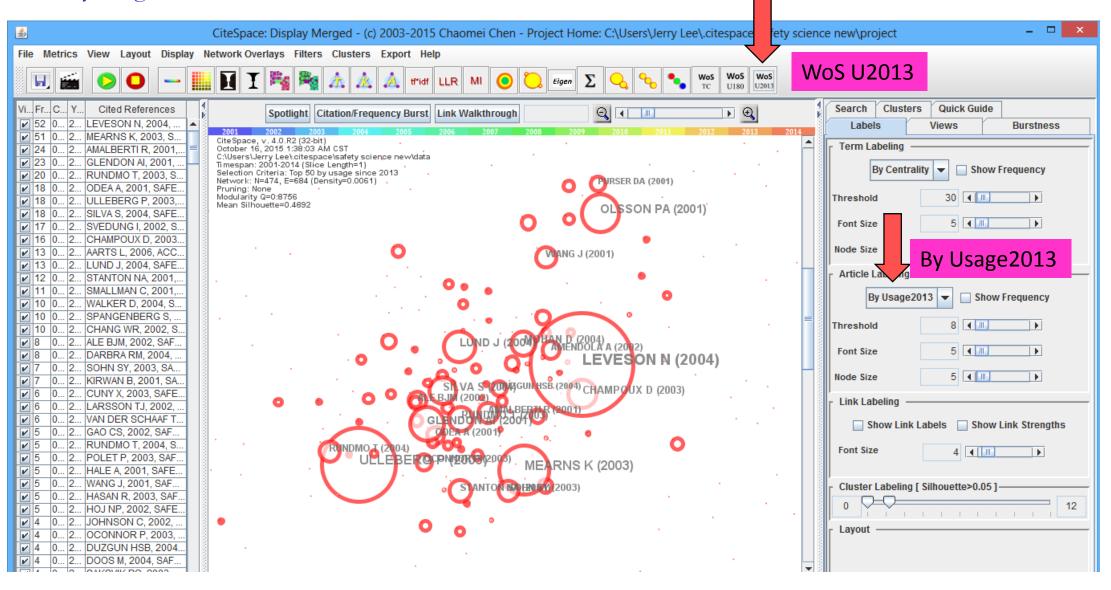
TOP 50 by usage in past 180 days WoS 180 \_ 🗆 X CiteSpace: Display Merged - (c) 2003-2015 Chaomei Chen - Project Home: C:\Users\Jerry Lee\.cites broject Metrics View Layout Display Network Overlays Filters Clusters Export Help WoS WoS Eigen U180 U2013 Quick Guide Vi... Fr... C... Y.. Cited References Search Clusters **▶** (€) Spotlight | Citation/Frequency Burst | Link Walkthrough LEVESON N. 2004. Labels Views Burstness MEARNS K, 2003, S. CiteSpace, v. 4.0.R2 (32-bit) Term Labeling October 16, 2015 1:54:02 AM CST AMALBERTI R, 2001 C:\Users\Jerry Lee\.citespace\safety science new\data GLENDON AI, 2001 Timespan: 2001-2014 (Slice Length=1) By Centrality Show Frequency Selection Criteria: Top 50 by usage in past 180 days RUNDMO T, 2003, S Network: N=530, E=692 (Density=0.0049) . 2... ODEA A. 2001, SAFE Modularity Q=0.928 30 4 PURSER DA (2001) Threshold . 2... ULLEBERG P, 2003, WANG J (2001) Mean Silhouette=0.4494 0... 2... SILVA S. 2004, SAFE 5 4 111 Font Size CHAMPOUX D, 2003 .. 2... AARTS L. 2006, ACC. Node Size 13 0... 2... LUND J. 2004. SAFE. STANTON NA (2001) By Usage 180 12 0... 2... STANTON NA. 2001. Article La SMALLMAN C, 2001. DARBRA RM (2004) WALKER D. 2004, S. By Usage180 Show Frequency SPANGENBERG S. ULLEBERG P (2003) .. 2... DARBRA RM. 2004. 2 4 11 Threshold AMALBERTI R (2001) SOHN SY, 2003, SA. KIRWAN B. 2001, SA Font Size 5 4 11 CUNY X. 2003, SAFE. FADIER E (2003) ROY M (2003) RUNDMO T. 2004, S. MEARNS K (2003) Node Size 14 ◀ Ⅲ HALE A. 2001, SAFE. AMENDOLA A (2002) WANG J, 2001, SAF Link Labeling 2... JOHNSON C. 2002. OCONNOR P. 2003. LEVESON N (2004) Show Link Labels Show Link Strengths DUZGUN HSB. 2004 DOOS M. 2004, SAF. SOHN SY (2003) Font Size 8 4 111 GLENDON AI (2001) SAKSVIK PO, 2003, .. HARRISSON D. 200. AASHTO, 2010, HIG. KIRWAN B (2001) Cluster Labeling [ Silhouette>0.05] .. 2... LEE D. 2003, SAFET TRONTIN C, 2004, S ENGKVIST IL (2004) TINMANNSVIK RK. 2. SPANGENBERG S (2002) Layout 2... SHANKAR VN, 2003, 0... 2... BENTLEY TA, 2001 2... OZEL F, 2001, SAFE.

这里把文献网络的连线透明度设置为0

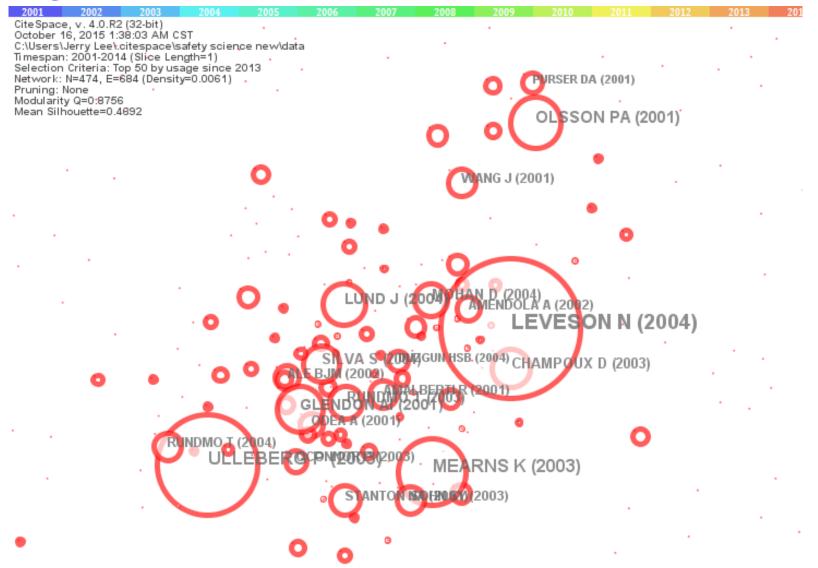
### TOP 50 by usage in past 180 days



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

Search

Interactive Map EndNote:

THOMSON REUTERS

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

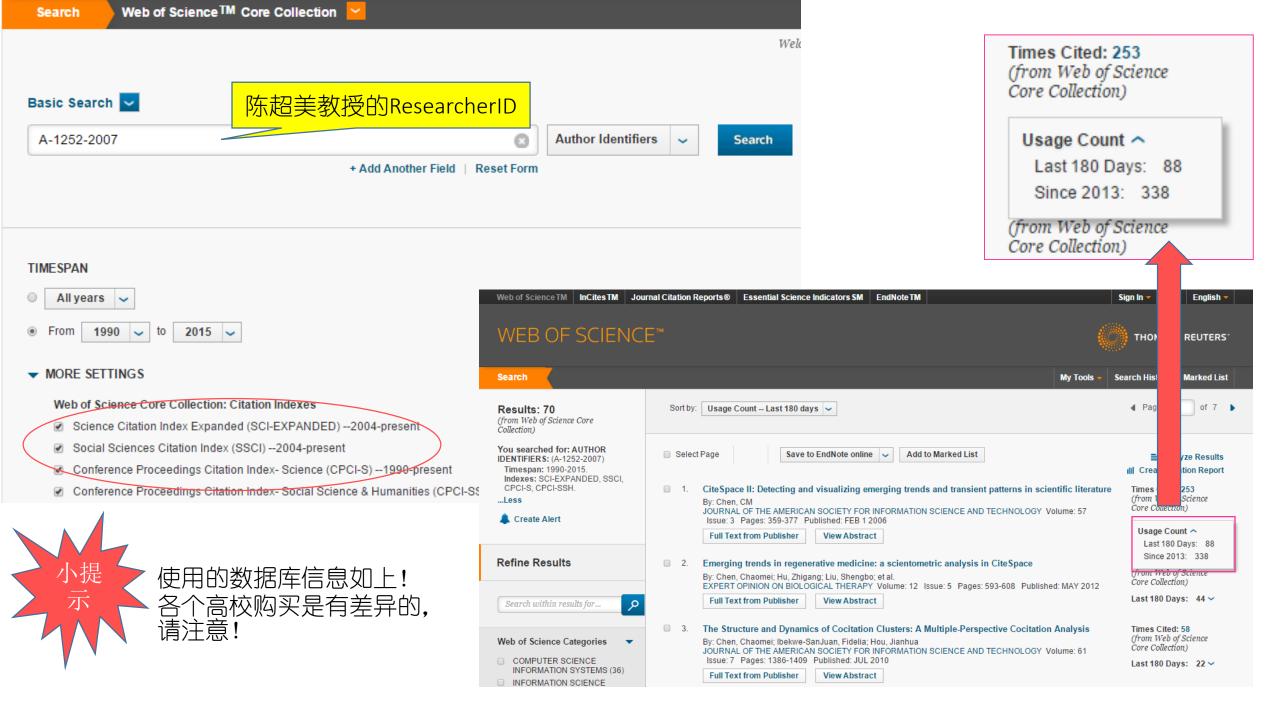




为了准确地得到陈超美教授的论文,这 里我们使用其唯一的学术身份证来获取。



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



Use the checkboxes below to view the records. You can choose to view those selected records, o → View Records Record Count % of 70 Bar Chart Field: Publication Years X Exclude Records 2009 8 11.429 % 2005 10.000 % 2004 8.571 % 2007 6 8.571 % 2008 8.571 % 2011 6 8.571 % 2002 7.143 % 2013 5 7.143 % 2006 5.714 % 5.714 % 2012 2000 4.286 % 2001 4.286 % 2003 2.857 % 2010 2.857 % 2014 2.857 % 1998 1.429 % I

Record Count

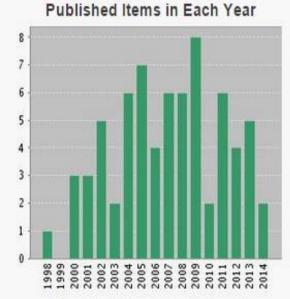
% of 70

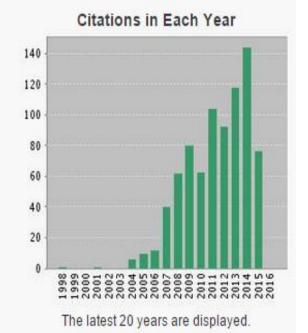
Bar Chart

Field: Publication Years

→ View Records

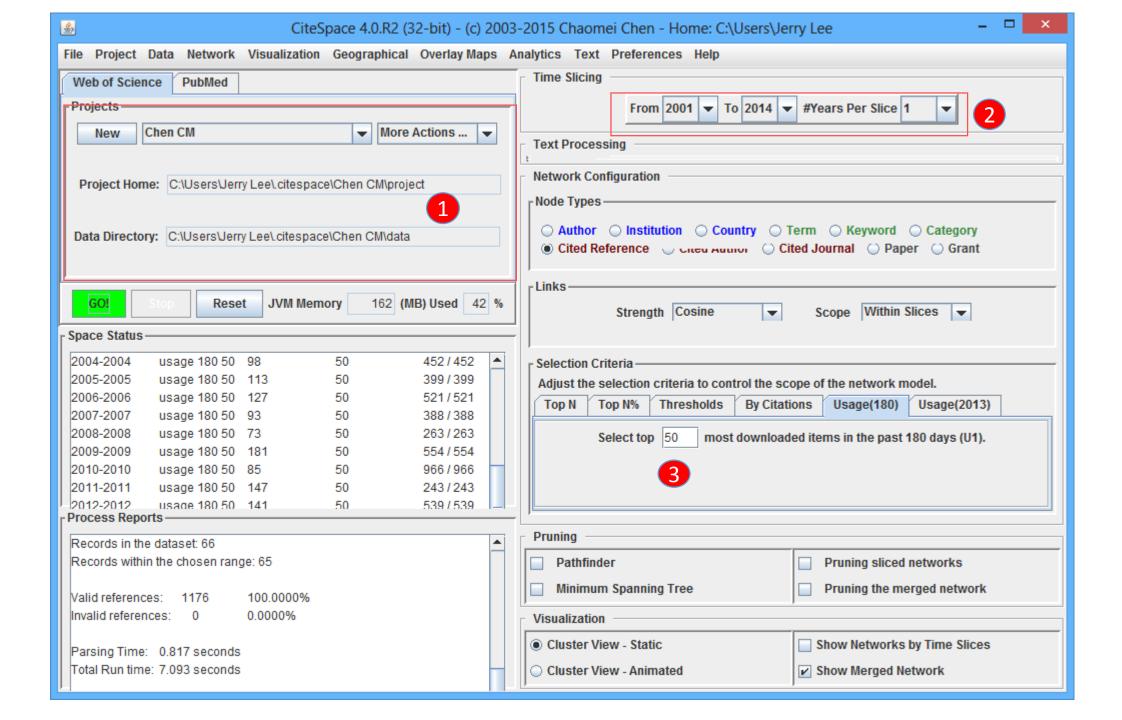
X Exclude Records

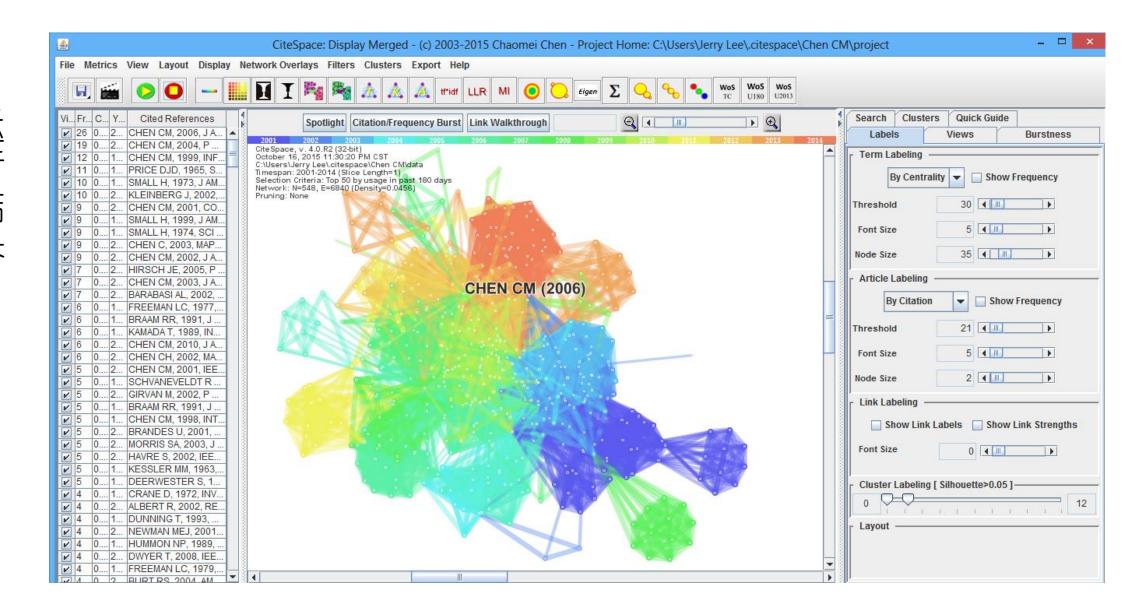


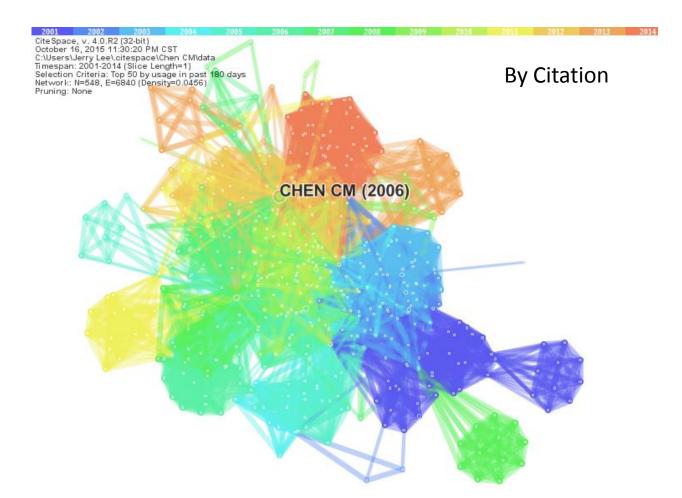


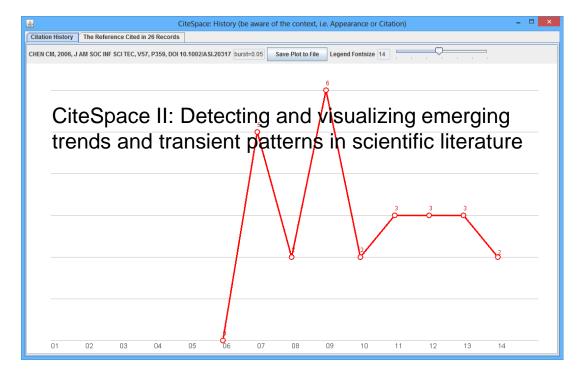
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The	latest	20	vears	are	disp	laved

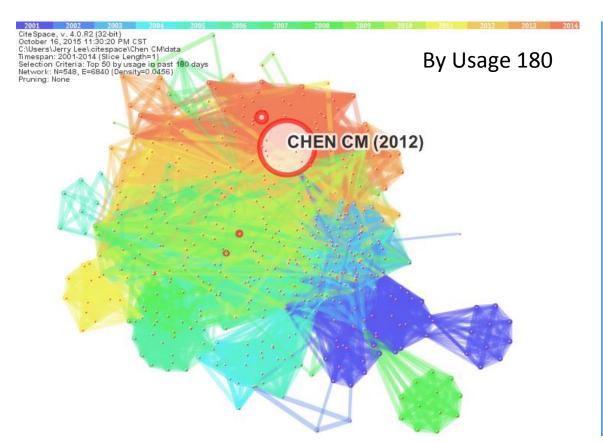
	e the checkboxes to remove individual items from this Citation Report restrict to items published between 1990 - and 2015 - Go	93	118	144	77	0	811	45.06
1.	CiteSpace II: Detecting and visualizing emerging trends and transient patterns in scientific literature  By: Chen, CM  JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY Volume: 57 Issue: 3 Pages: 359-377 Published: FEB 1 2006	27	36	41	19	0	253	25.30
2.	Searching for intellectual turning points: Progressive knowledge domain visualization  By: Chen, CM  Conference: Colloquium on Mapping Knowledge Domains Location: Natl Acad Sci & Engn, 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
<b>3</b> .	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

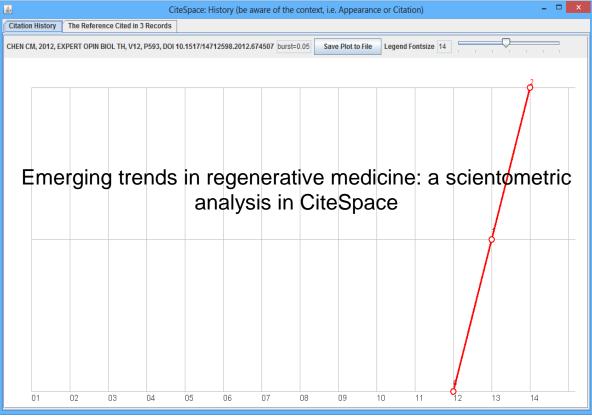


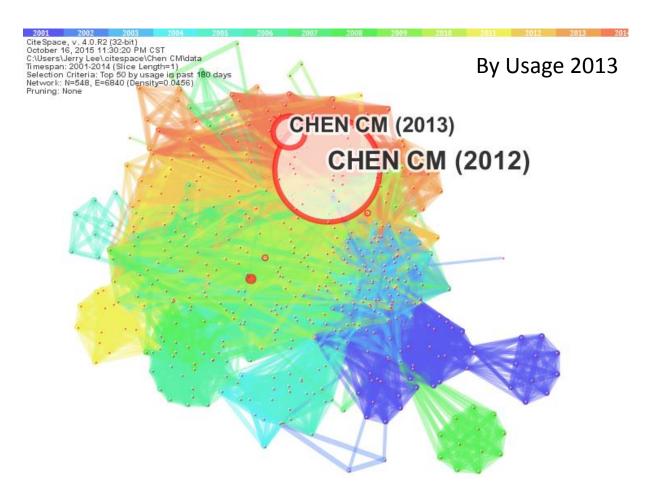


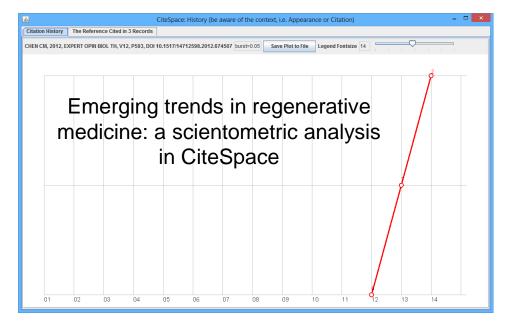


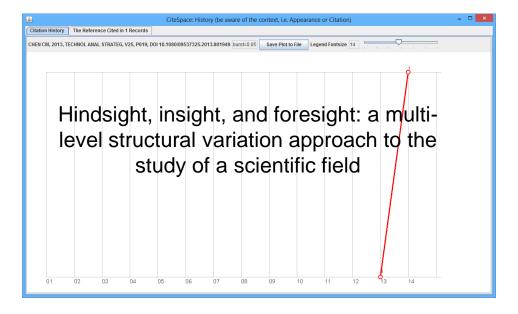


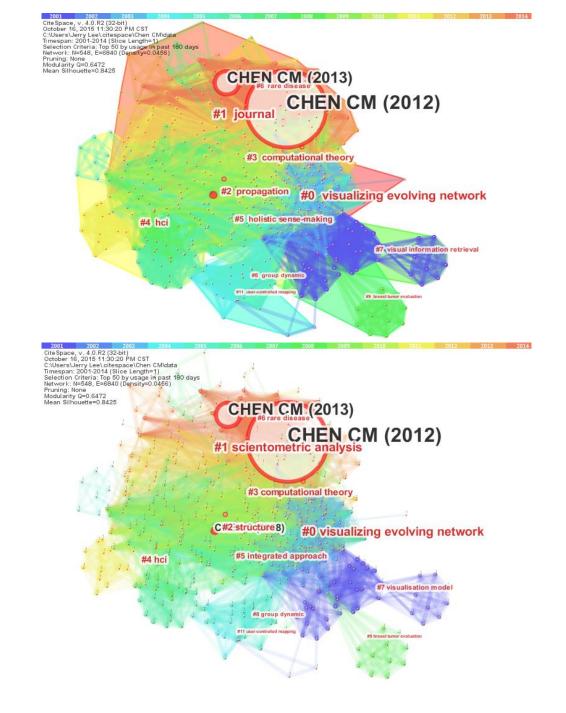




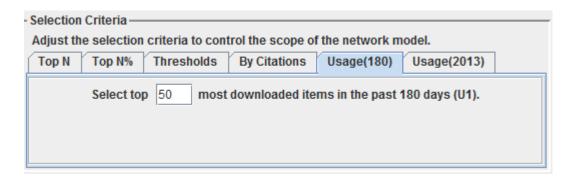




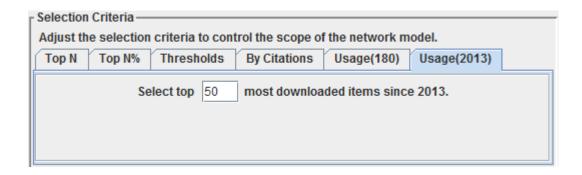


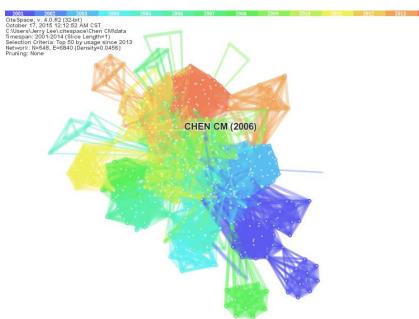


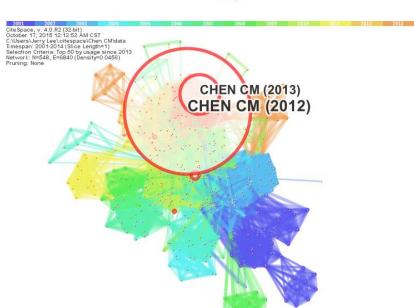
Pruning: None Modularity Q=0.6472 Mean Silhouette=0.8425 CHEN CM (2013) CHEN CM (2012) #3 computational theory #2 structure #0 visualizing evolving network #5 integrated approach #4 hci #7 visualisation model CiteSpace, v. 4.0.R2 (32-bit) October 16, 2015 11:30:20 PM CST C:\Users\Jerry Lee\.citespace\Chen CM\data Emespan: 2001-2014 (Slice Length=1)
Selection Criteria: Top 50 by usage in past 180 days
Vetwork: N=548, E=6840 (Density=0.0456) Pruning: None Modularity Q=0.6472 Wean Silhouette=0.8425 CHEN CM (2013) CHEN CM (2012) 2013/02

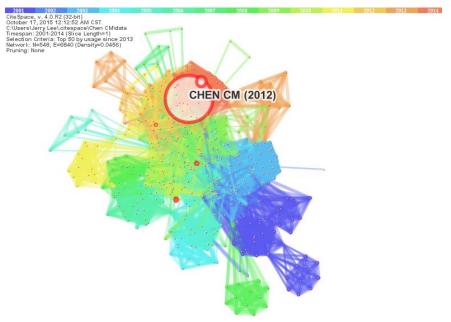


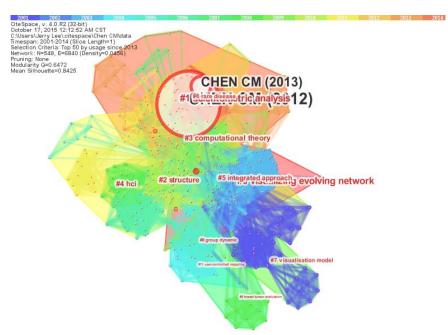
# 上面是基于Usage180来筛选数据,也可以通过Usage2013来筛选。下面给出通过Usage2013筛选数据,得到的结果见下页。

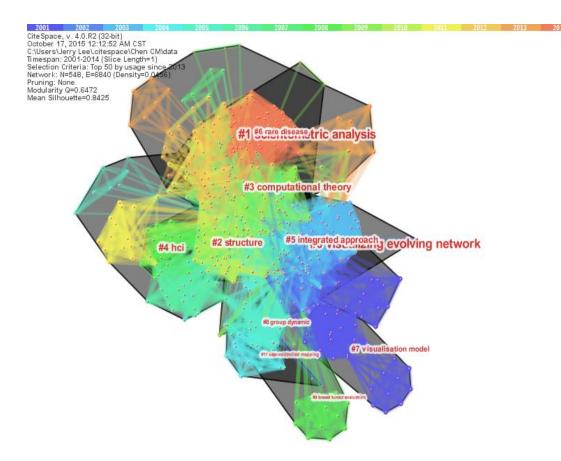












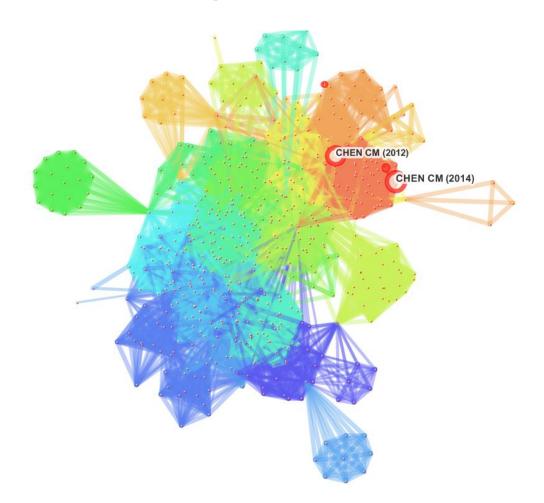
2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 Cite Space, v. 4.0.R2 (32-bit) October 17, 2015 12:12:52 AM CST C:\Users\Uerry Lee\unders\uerry Lee\unders\uerry Lee\uerry Lee

CHEN CM (2013)
CHEN CM (2012)

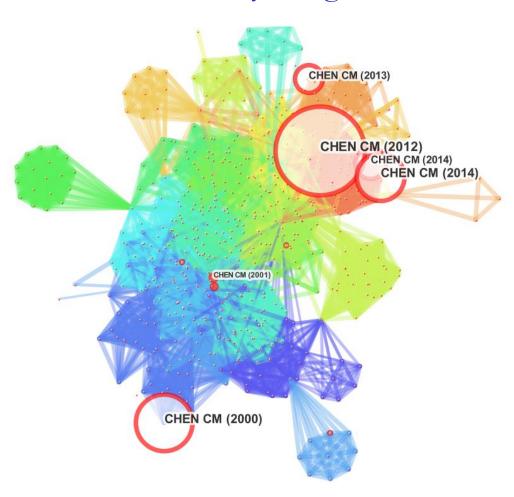
CHEN CM (2009)

# 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 <a href="http://blog.sciencenet.cn/blog-496649-928288.html">http://blog.sciencenet.cn/blog-496649-928288.html</a>
- 2. CiteSpace101界面 <a href="https://sites.google.com/site/citespace101/first-example/4-0/4-0-web-of-science">https://sites.google.com/site/citespace101/first-example/4-0/4-0-web-of-science</a>

#### 更多Citespace学习资料:

- 1. Chen, C. (2014) The CiteSpace Manual. <a href="https://leanpub.com/howtousecitespace">https://leanpub.com/howtousecitespace</a>
- 2. 李杰, 陈超美. 如何使用CiteSpace的一组示范及常见问题解答 <a href="http://blog.sciencenet.cn/blog-496649-838067.html">http://blog.sciencenet.cn/blog-496649-838067.html</a>
- 3. 李杰. CiteSpace中文指南. <u>http://blog.sciencenet.cn/blog-496649-886962.html</u>
- 4. 李杰,陈超美. (2016) CiteSpace科技文本挖掘及可视化[M]. 首都经济贸易大学出版社.
- 5. 李杰,(2015)安全科学知识图谱导论[M].化学工业出版社.
- 6. 李杰等,(2014)安全科学技术信息检索基础[M].首都经济贸易大学出版社.
- 7. 陈悦,陈超美等 (2014) 引文空间分析原理与应用[M].科学出版社.