

如何结合CiteSpace, Carrot2以及Jigsaw进行文献可视化分析

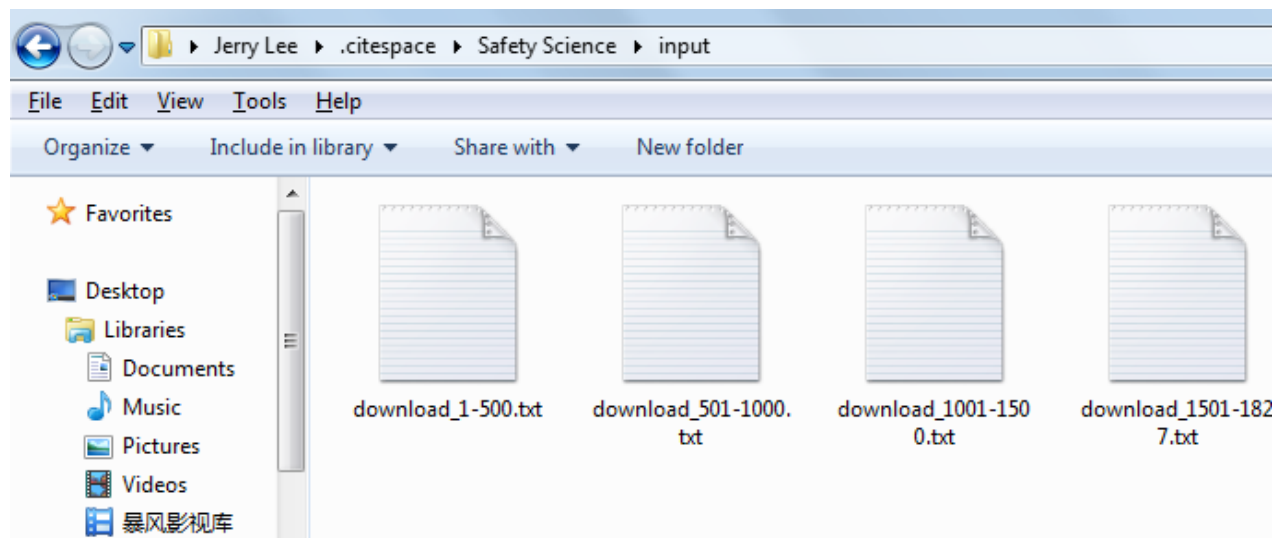
李杰

首都经济贸易大学 安全与环境工程学院

个人主页: <http://blog.sciencenet.cn/u/jerrycueb>

1. 数据准备

- 按照以下链接准备数据（*Safety Science* 1991-2013年文献数据）
- http://cluster.ischool.drexel.edu/~cchen/citespace/doc/tutorial/how_to/1.download_from_WOS.pdf
- 数据下载好后，保存到新建的文件夹“*Safety Science*”的input中。

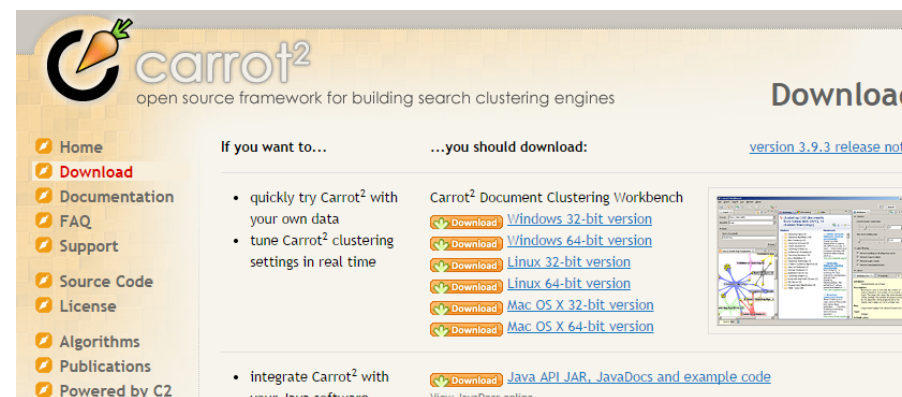


2. 软件准备

- CiteSpace软件下载:
<http://cluster.ischool.drexel.edu/~cchen/citespace/download.html>
- Carrot2软件下载: <http://project.carrot2.org/download.html>
- Jigsaw软件下载（需要提交基本的注册信息）
<http://www.cc.gatech.edu/gvu/ii/jigsaw/>

CiteSpace: Visualizing Patterns and Trends in Scientific Literature Chaomei Chen

Date	Version	Download <i>CiteSpace</i>	Download <i>Java JRE</i>	Video
Oct 13, 2014	3.8.R6 (64-bit)	zip	64-bit / Windows x64	
June 22, 2014	3.8.R5 (64-bit)	zip	64-bit / Windows x64	video
January 29, 2014	3.8.R1 (32-bit)	zip	32-bit / Windows x86	



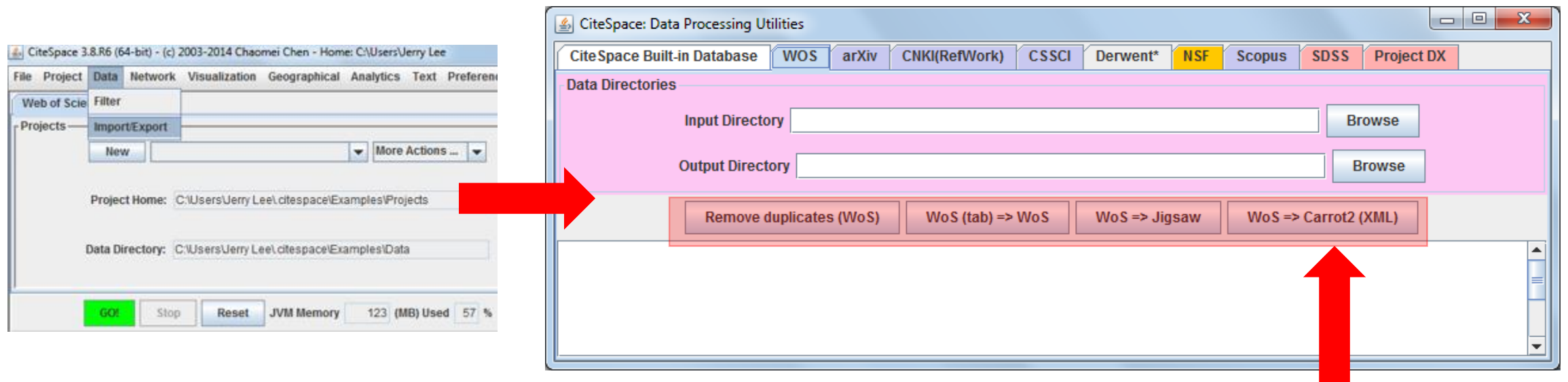
About
People
Projects
Publications
Resources
Talks
Videos

Jigsaw Home | System Views | Video Tutorial | Examp

Jigsaw: Visual Analytics for Ex

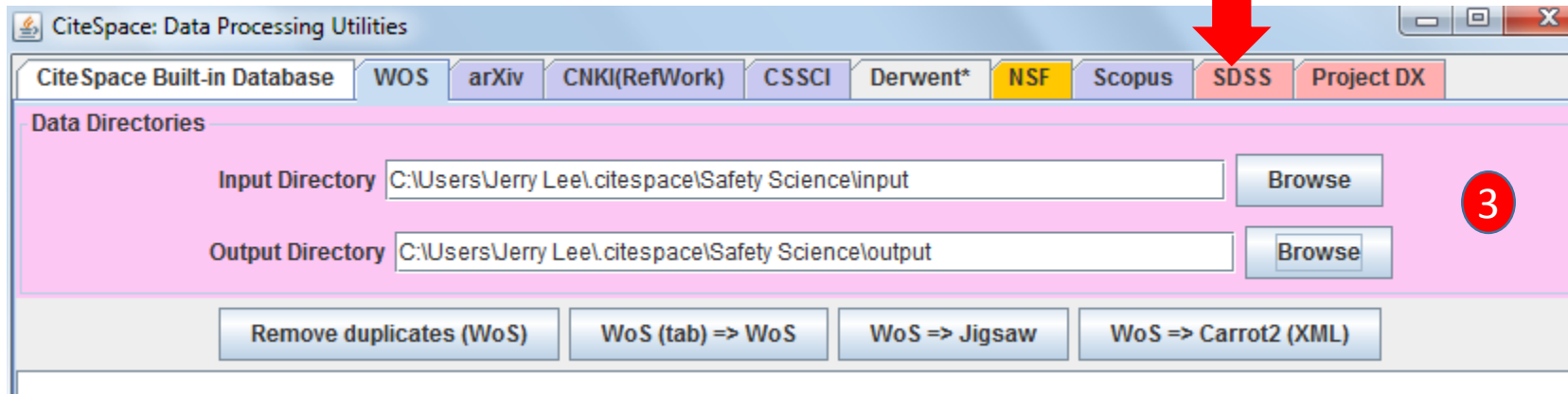
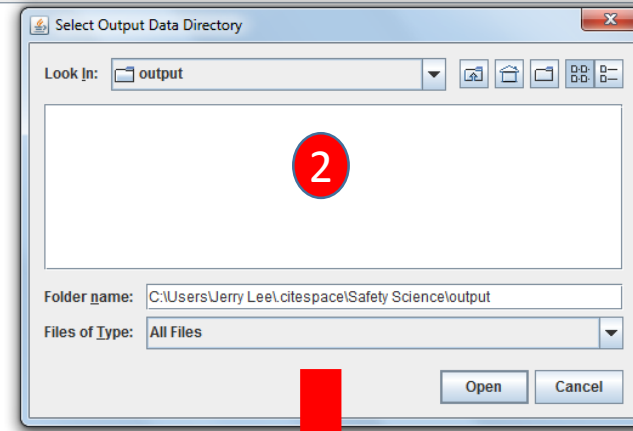
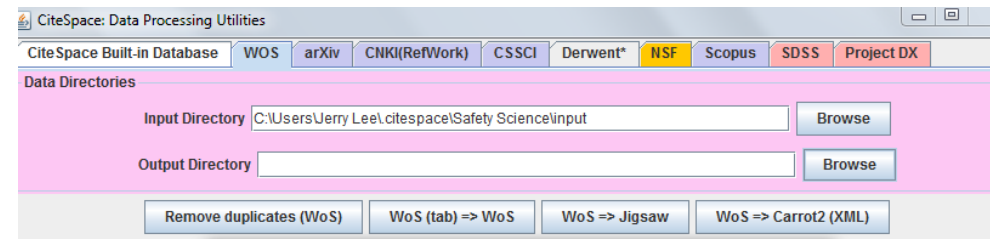
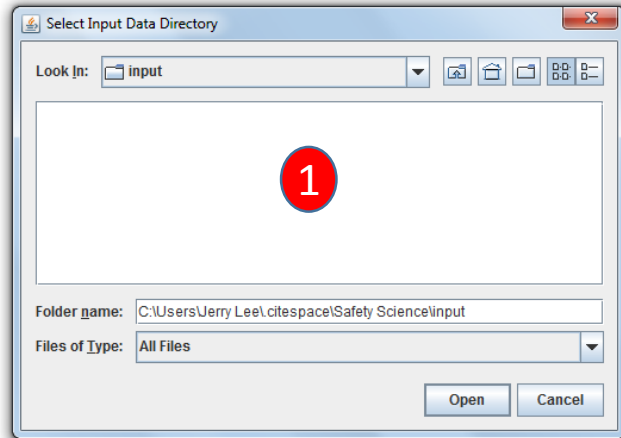
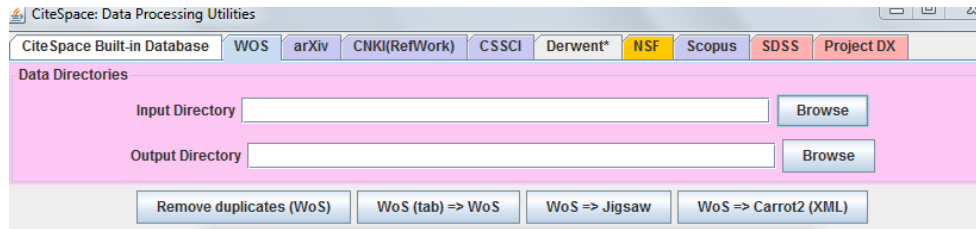
Team Members: John Stasko, Carsten Görg, Zhichen
Alumni: Meekal Bajaj, Alex Humesky, Mohit Jain, Youn-

3.CiteSpace中数据转换功能

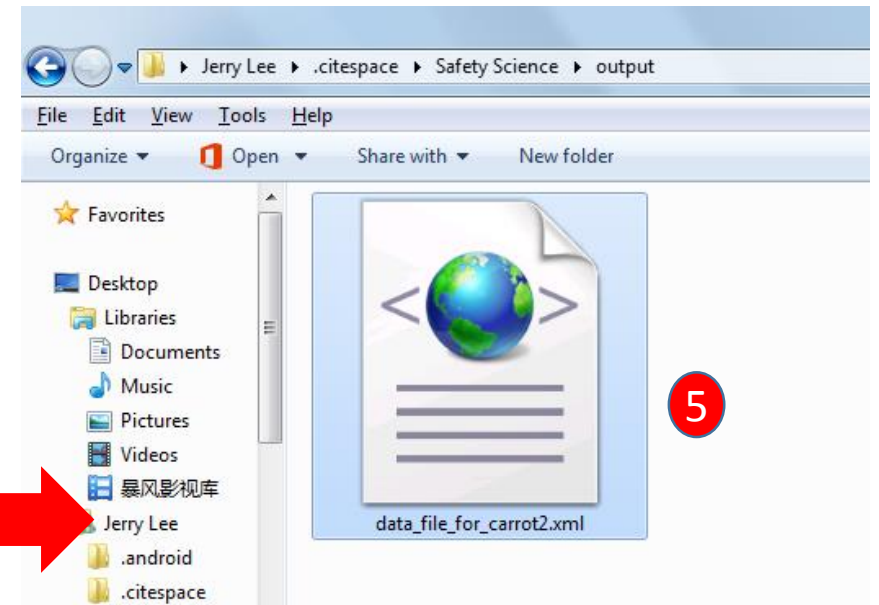
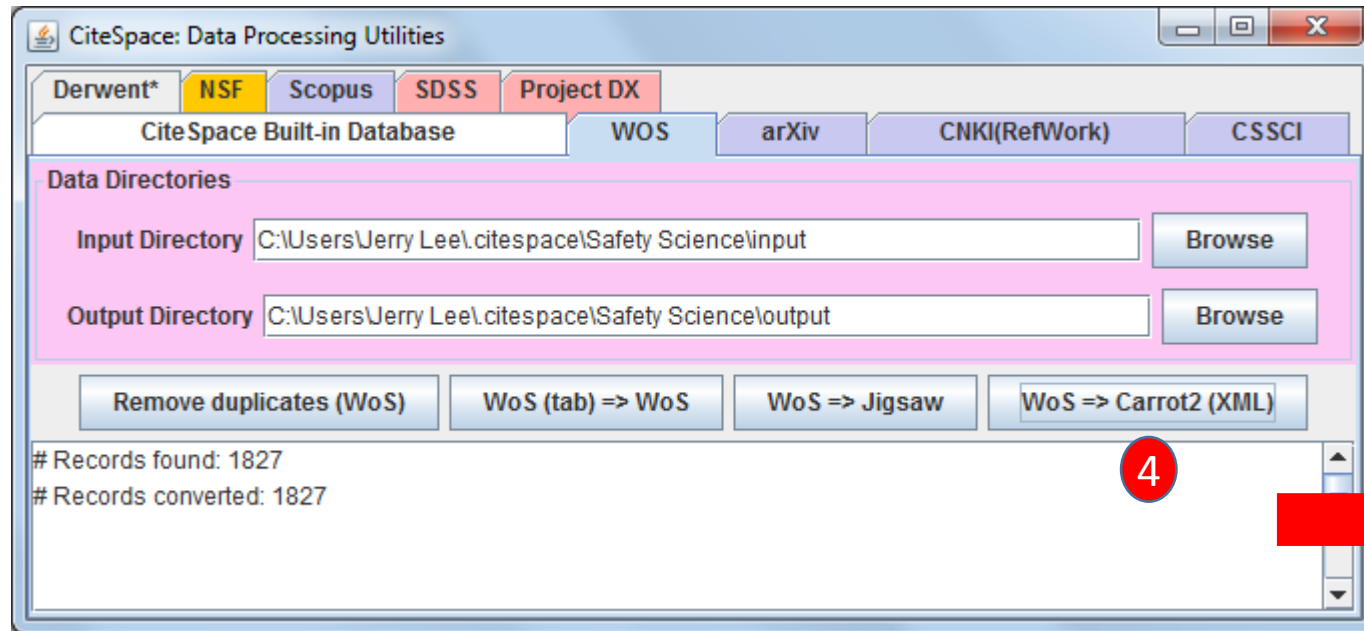


打开CiteSpace，以此在菜单中打开“Data”，“Import/Export”，“WOS”。
可以看到在CiteSpace对WoS数据处理的四种功能，Remove duplicates（数据除重）、
WoS（Tab）格式向WoS格式转换、WoS格式转换为Jigsaw格式以及WoS格式转换为
Carrot2可分析的格式。

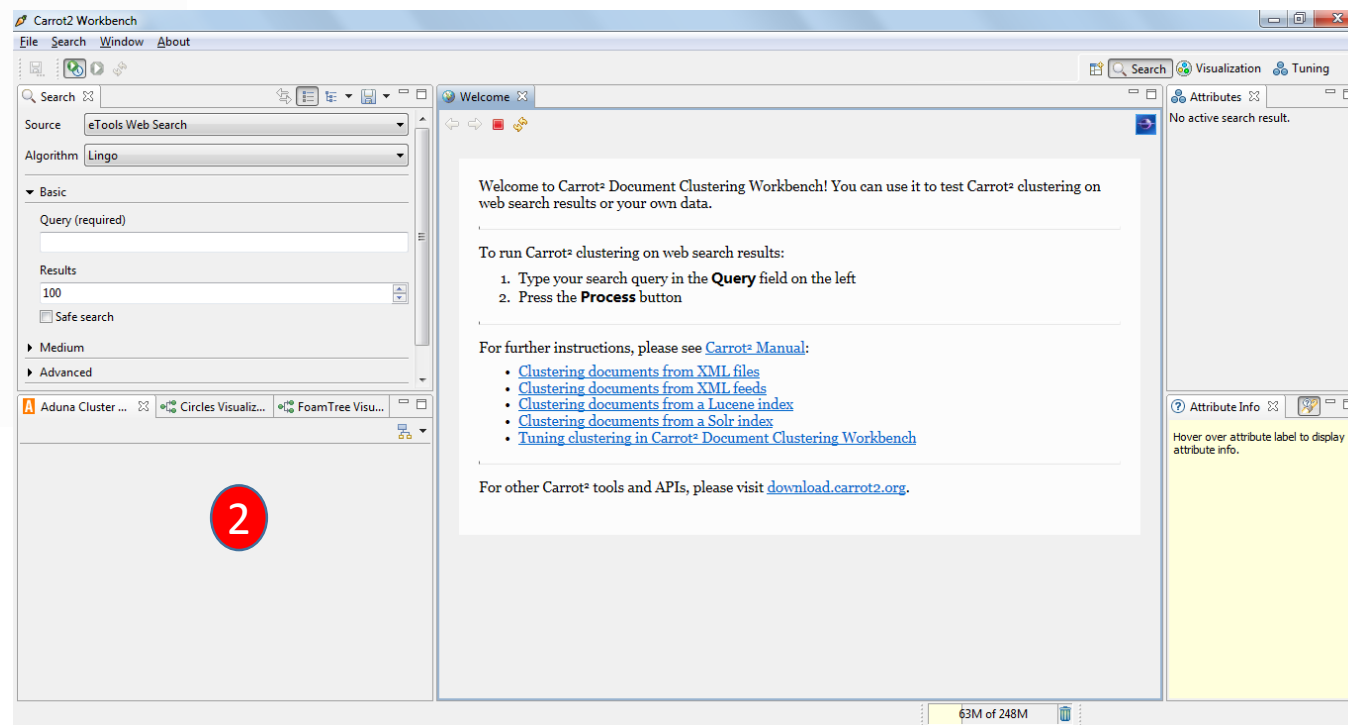
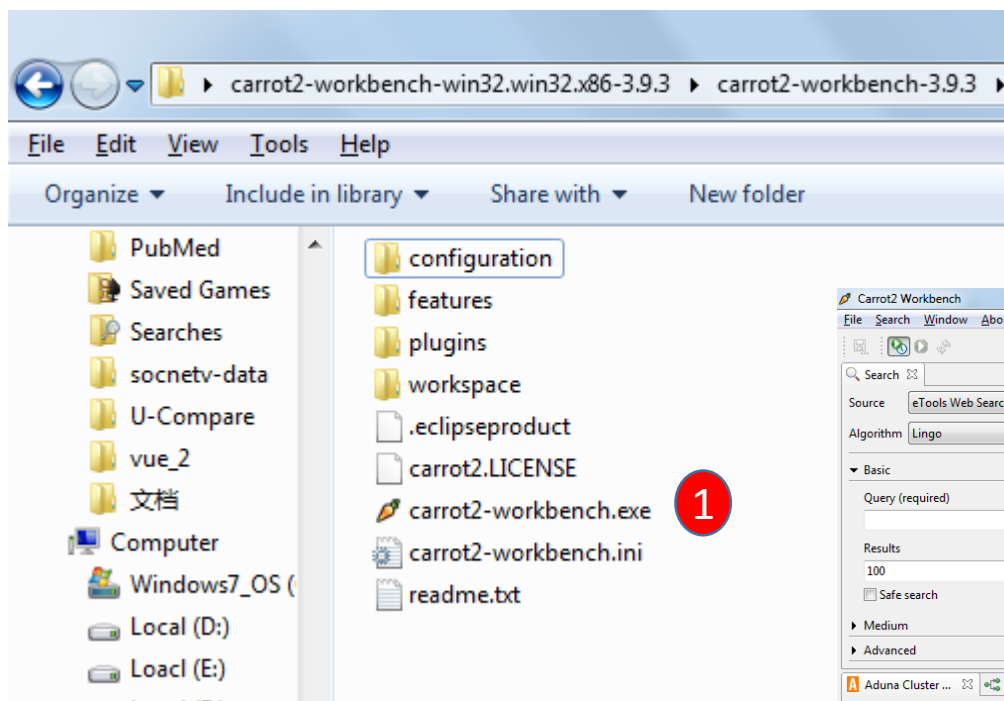
4. WoS to Carrot2



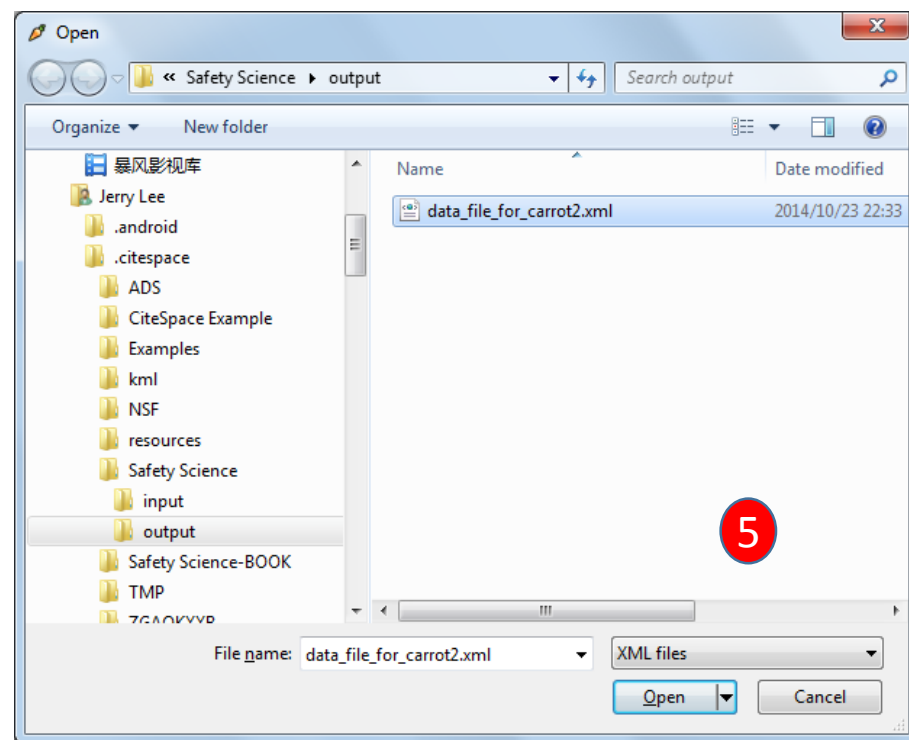
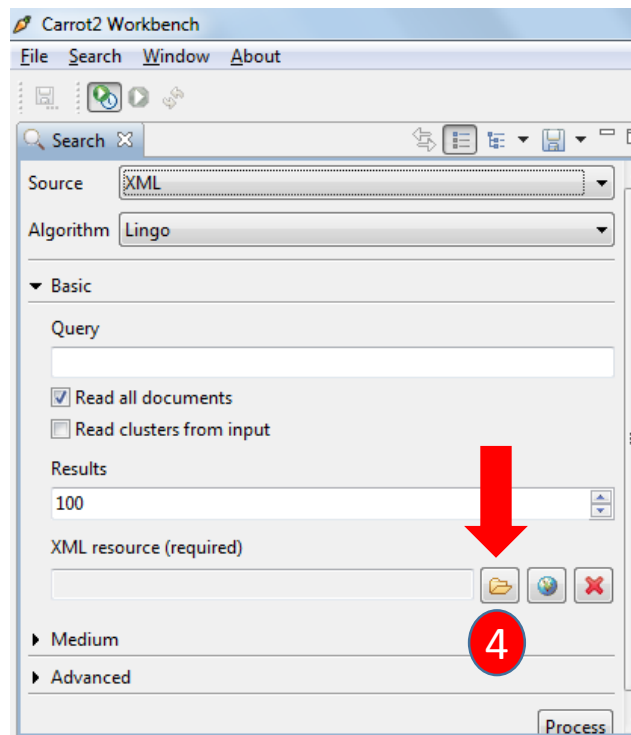
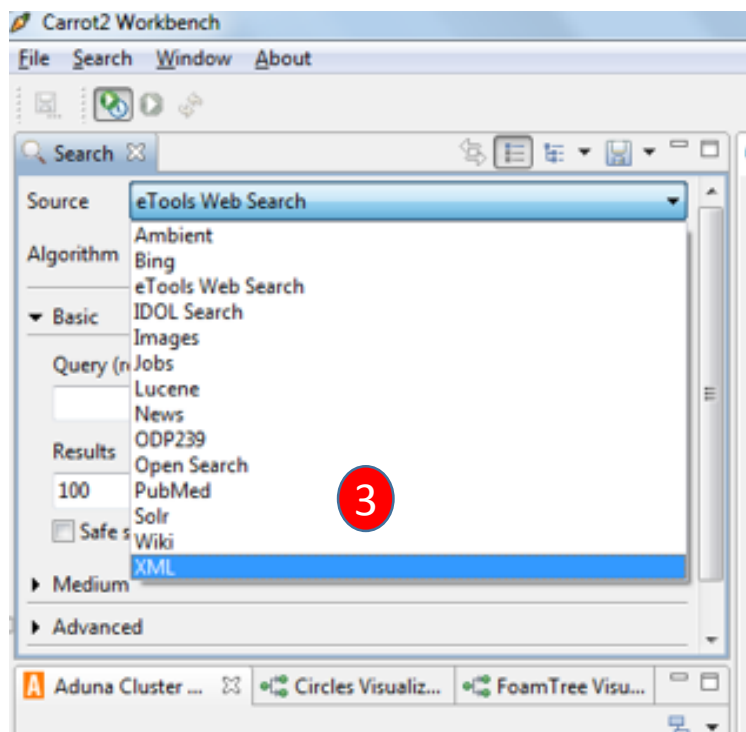
4. WoS to Carrot2



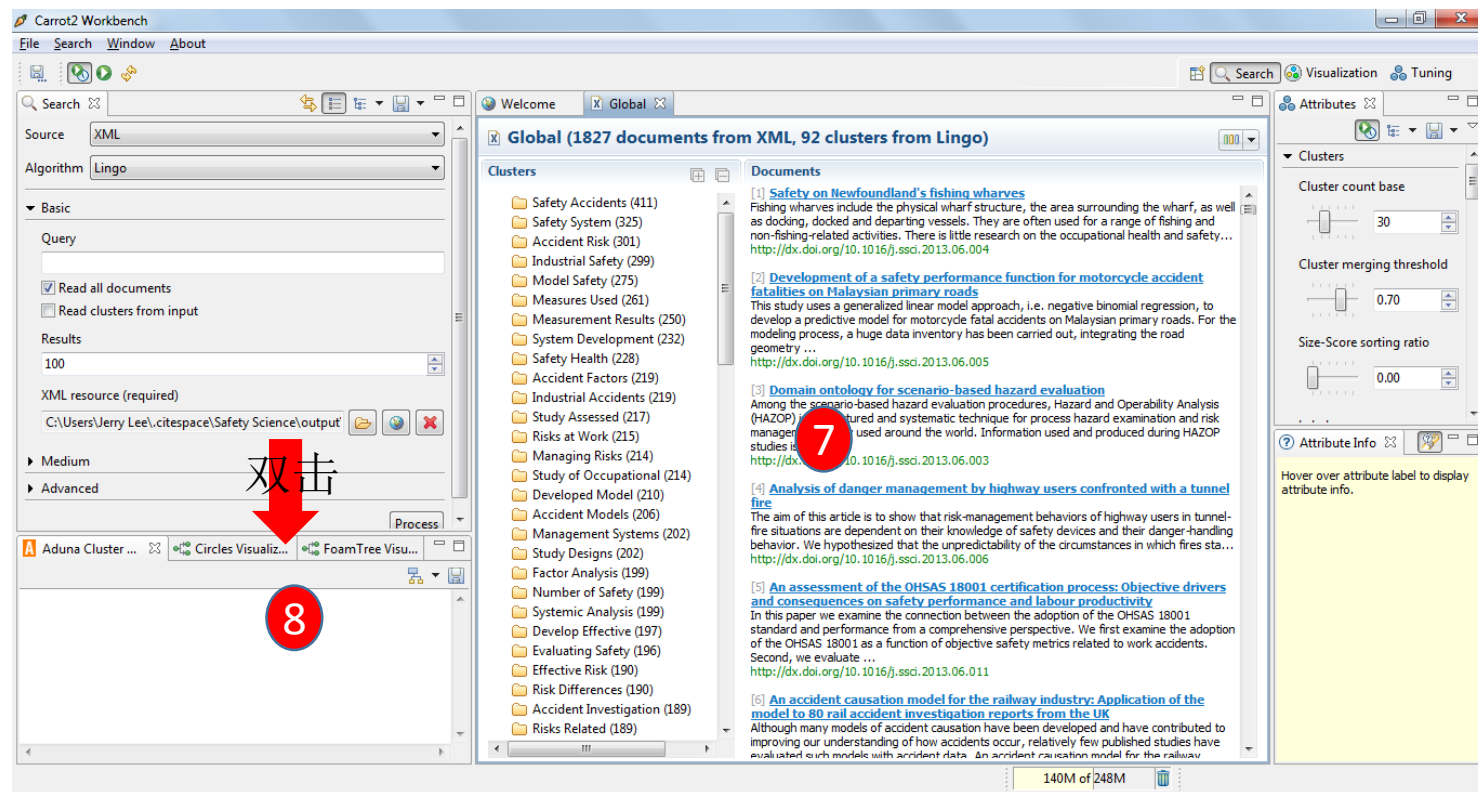
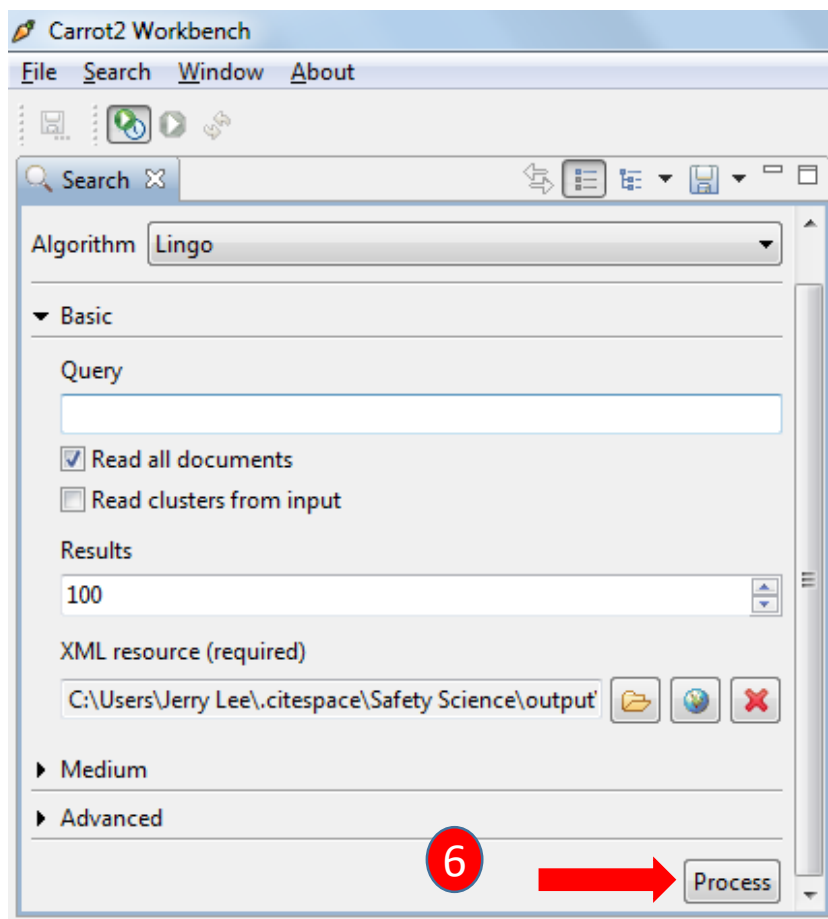
5.使用Carrot2 分析数据



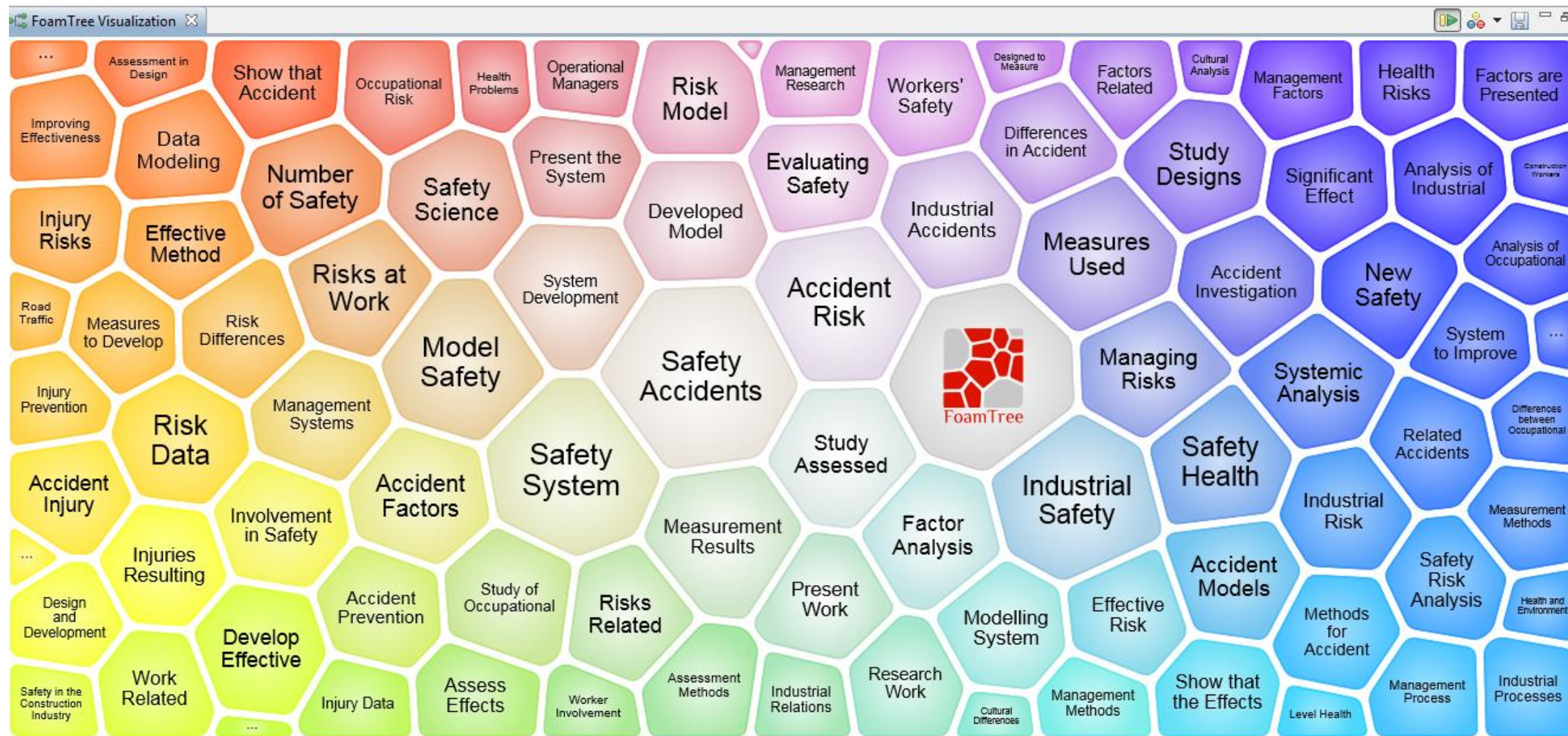
5.使用Carrot2 分析数据



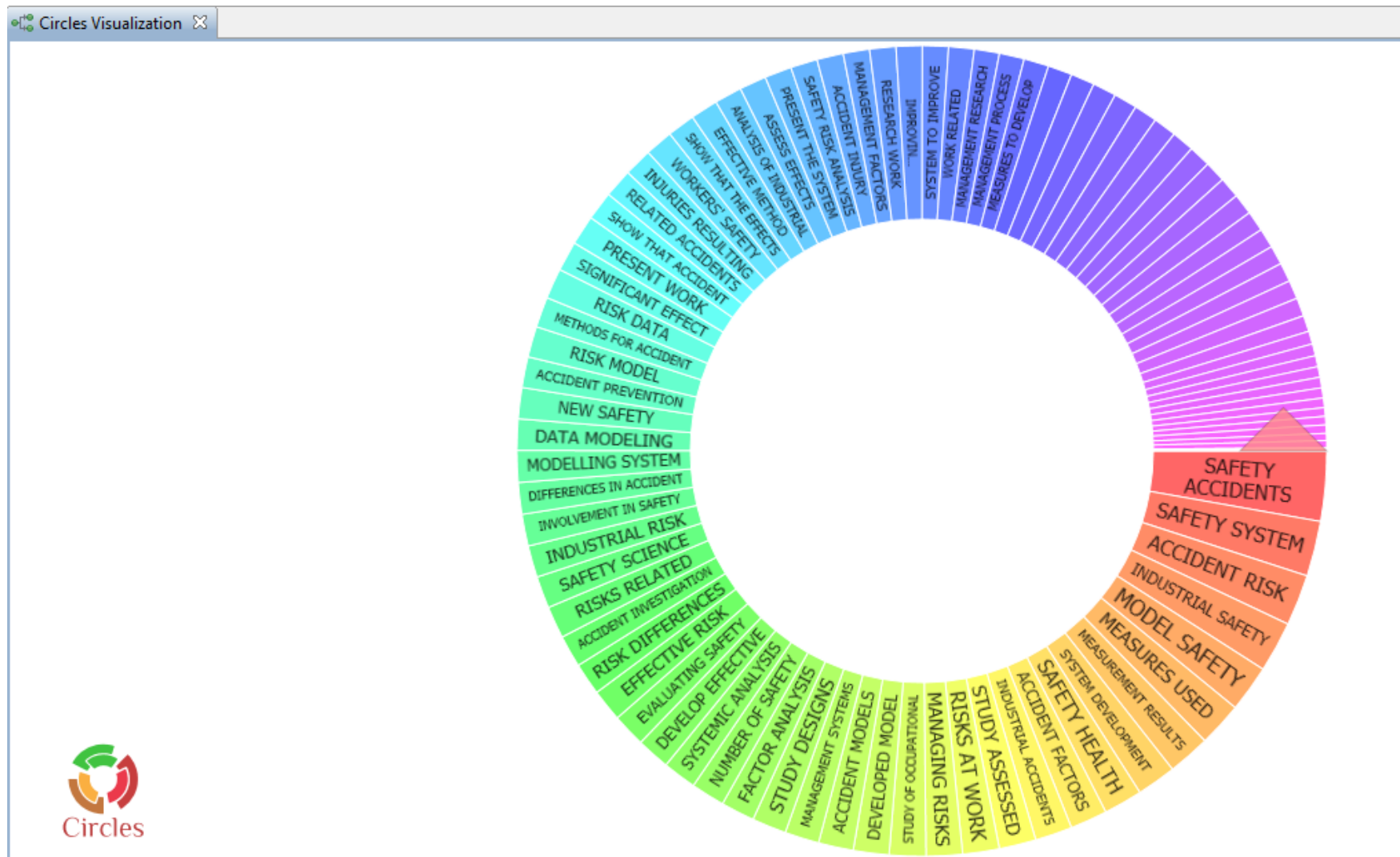
5.使用Carrot2 分析数据



5.使用Carrot2 分析数据

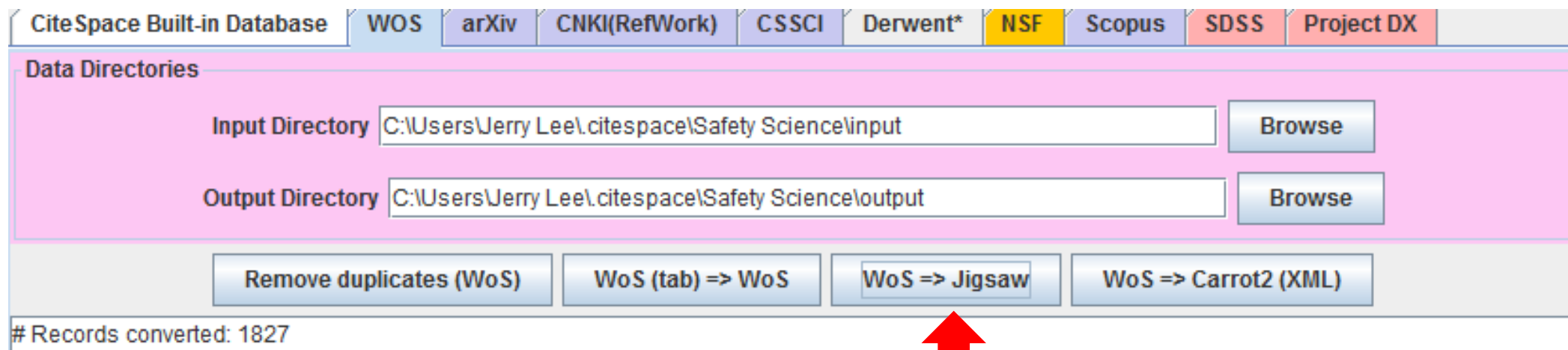


5.使用Carrot2 分析数据



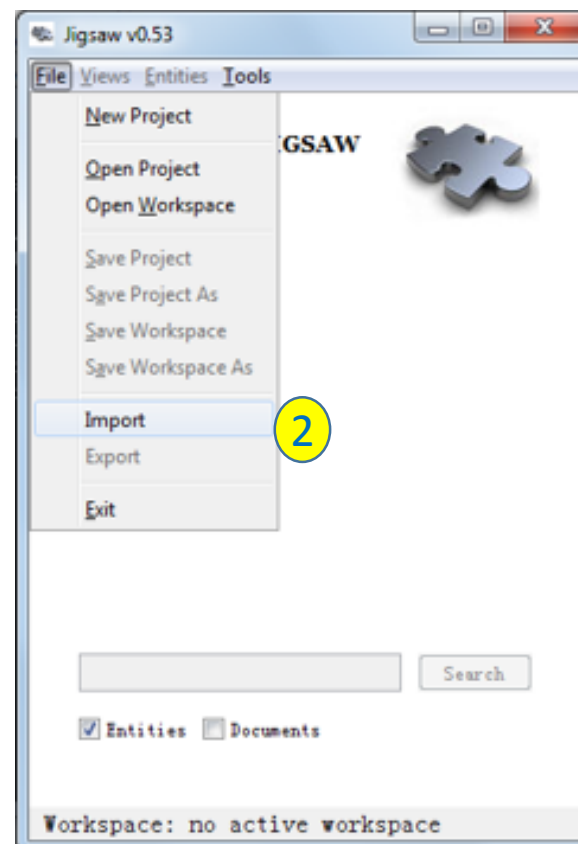
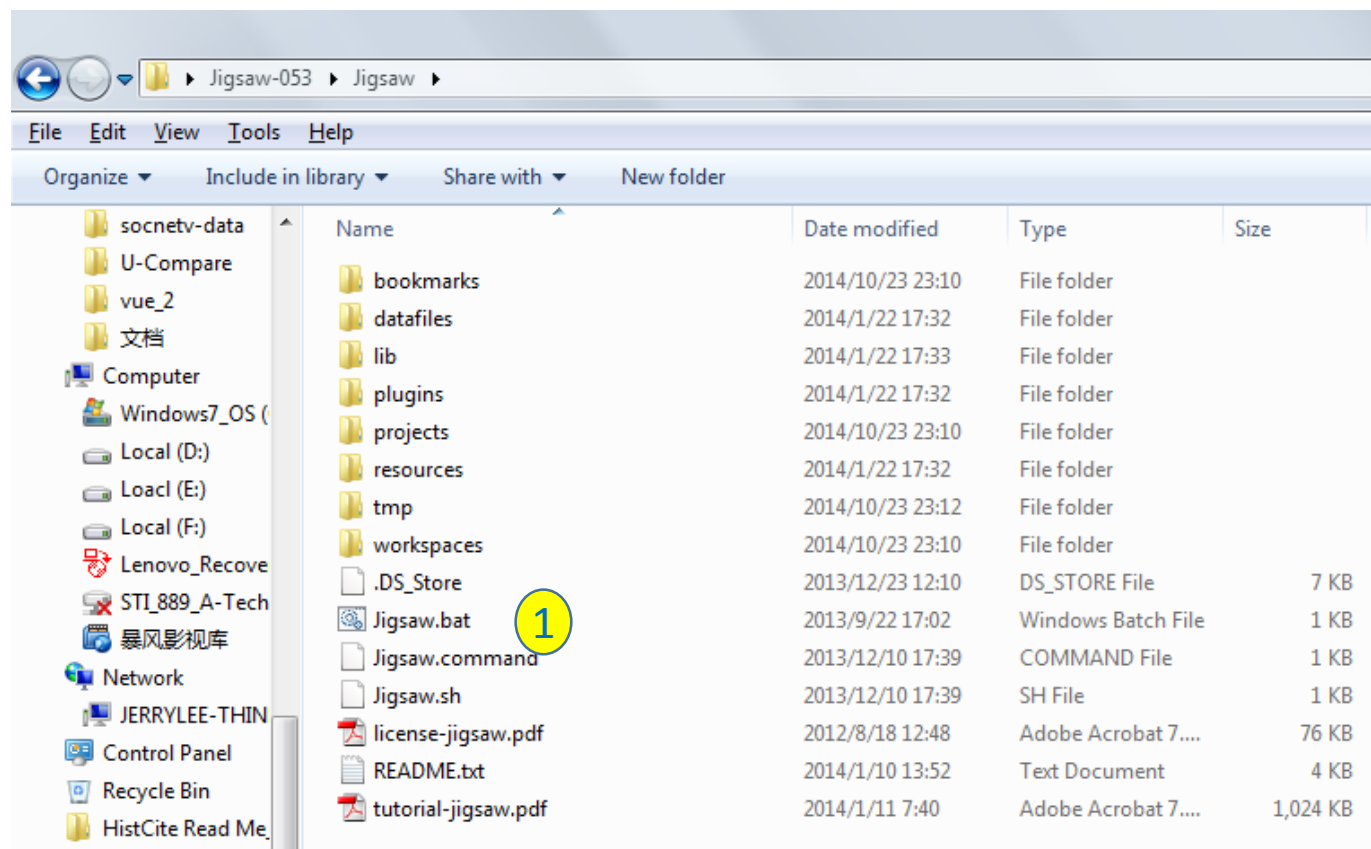
6. WoS to Jigsaw

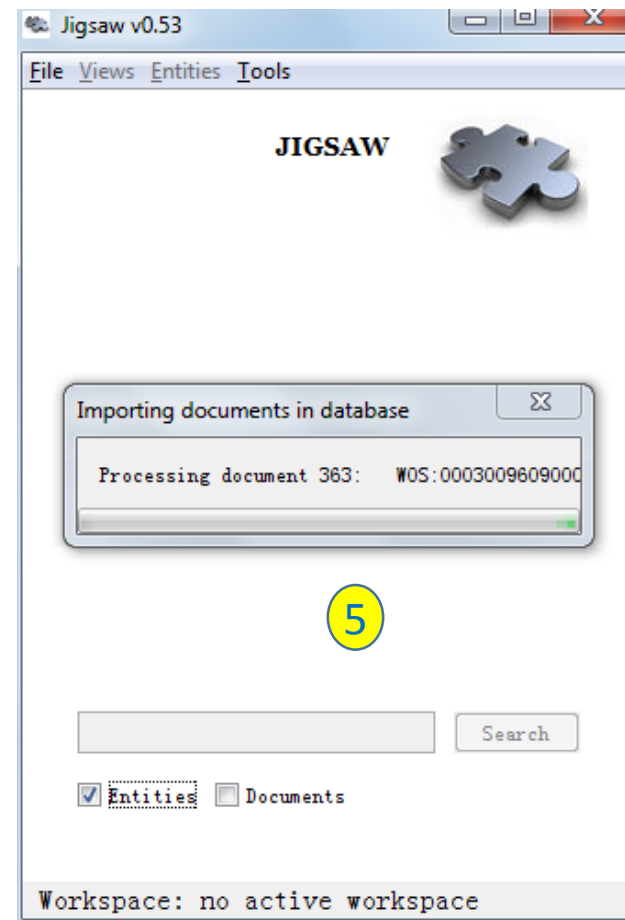
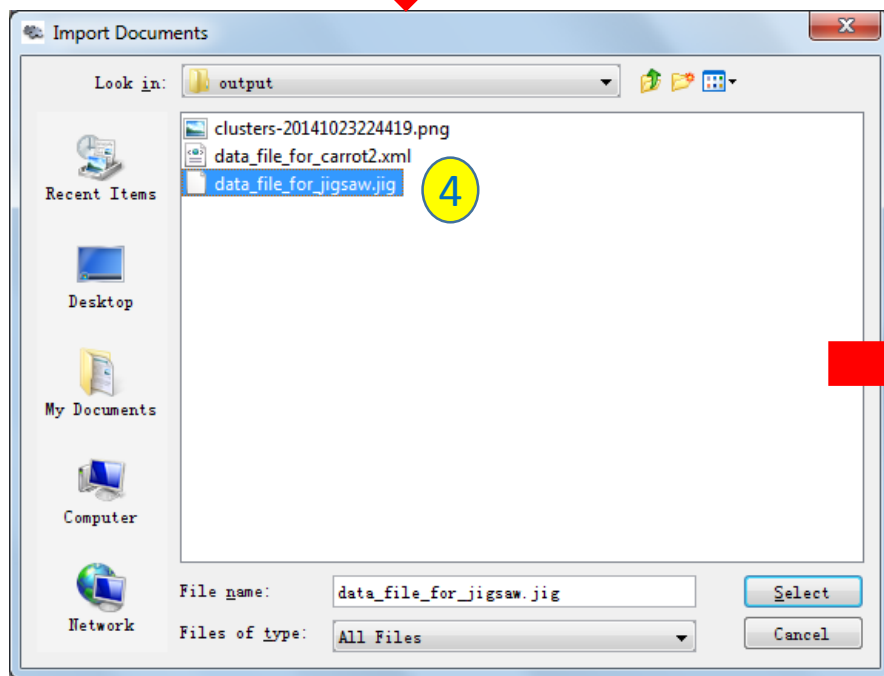
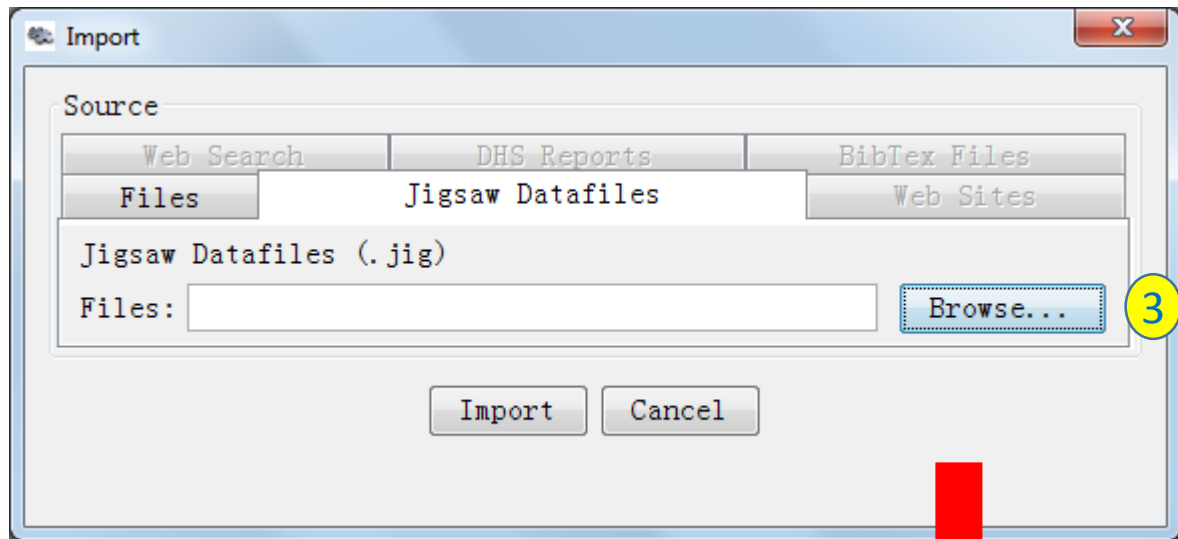
- 数据转换方式同Carrot步骤。



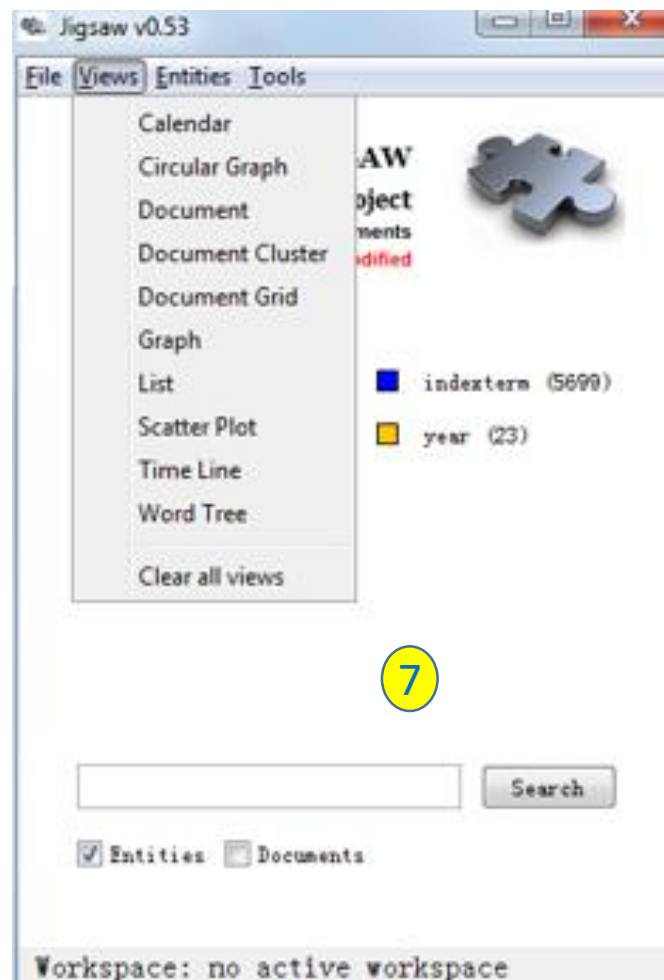
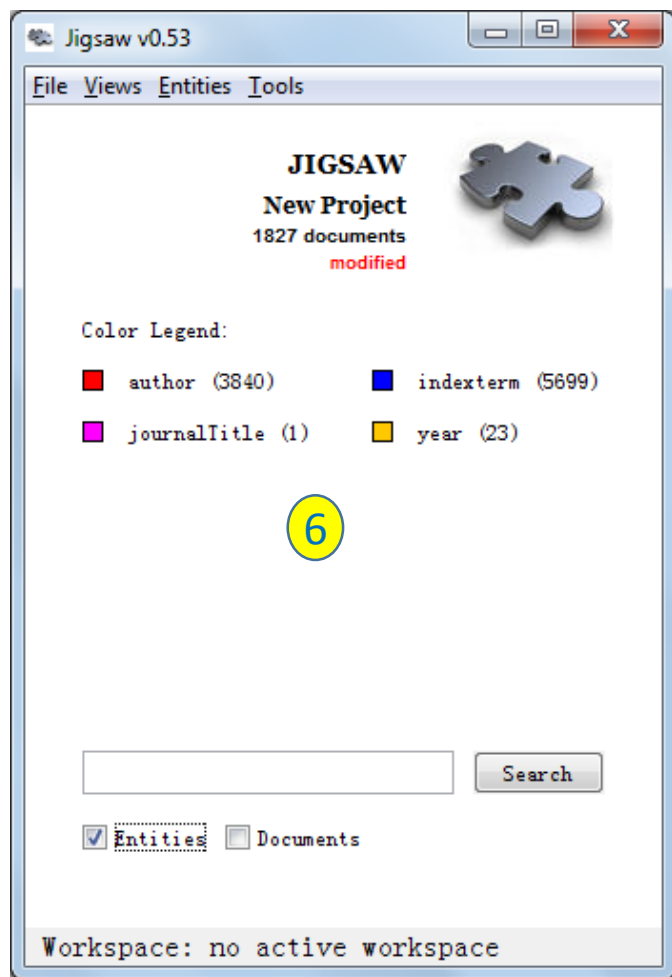
The screenshot displays the CiteSpace software interface. At the top, there is a row of tabs for different databases: 'CiteSpace Built-in Database', 'WOS', 'arXiv', 'CNKI(RefWork)', 'CSSCI', 'Derwent*', 'NSF', 'Scopus', 'SDSS', and 'Project DX'. Below these tabs is a pink-shaded section titled 'Data Directories'. It contains two text input fields: 'Input Directory' with the path 'C:\Users\Jerry Lee\citespace\Safety Science\input' and 'Output Directory' with the path 'C:\Users\Jerry Lee\citespace\Safety Science\output'. Each field has a 'Browse' button to its right. Below the pink section is a row of four buttons: 'Remove duplicates (WoS)', 'WoS (tab) => WoS', 'WoS => Jigsaw', and 'WoS => Carrot2 (XML)'. A large red arrow points upwards to the 'WoS => Jigsaw' button. At the bottom left of the interface, it says '# Records converted: 1827'.

6.使用Jigsaw 分析数据

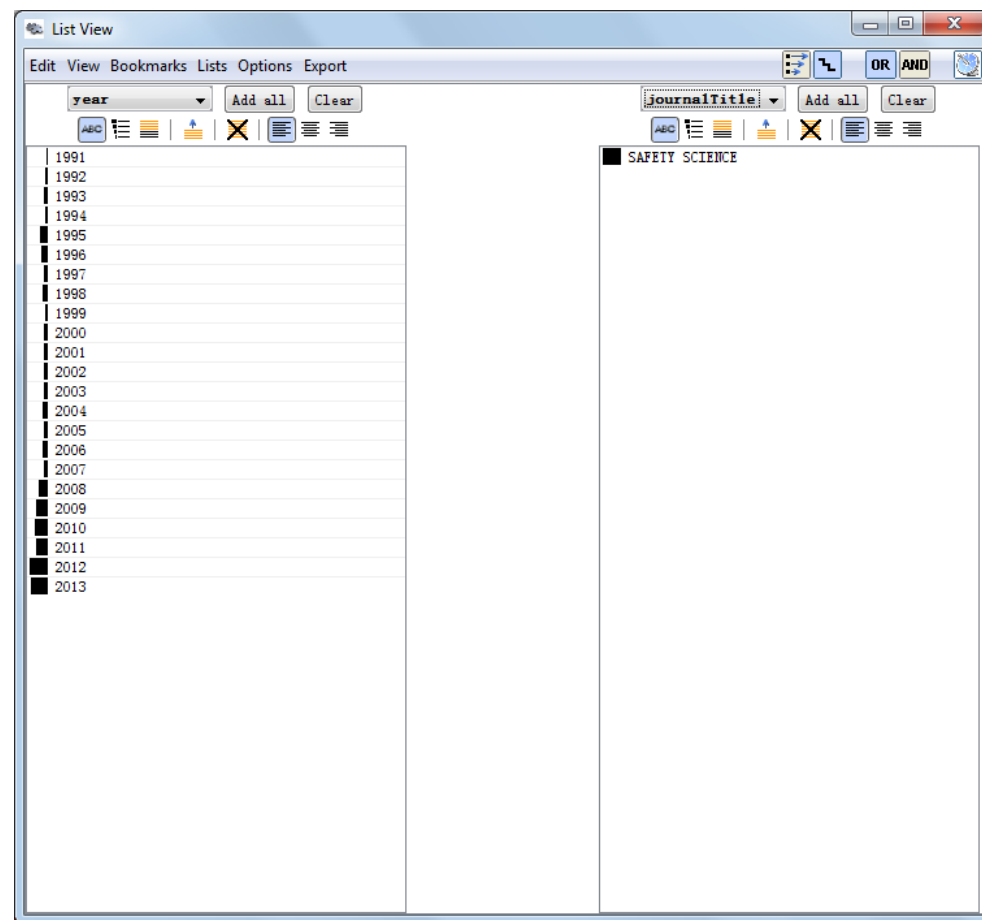
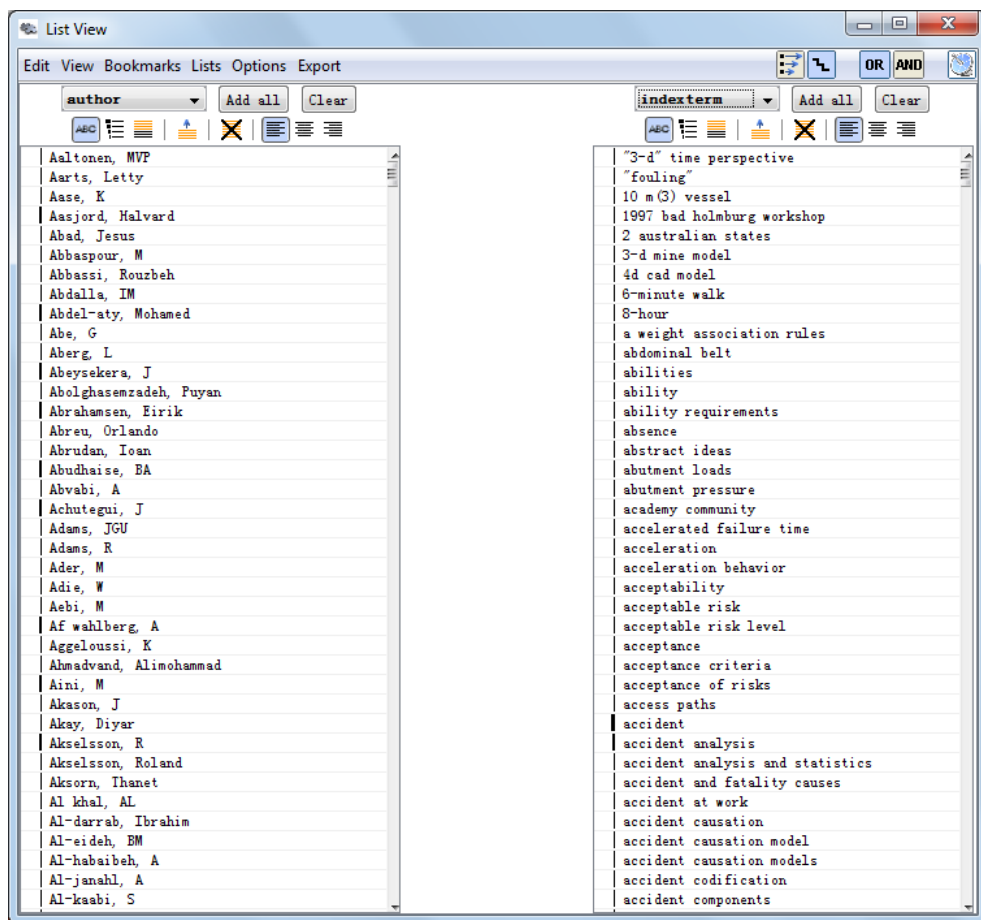




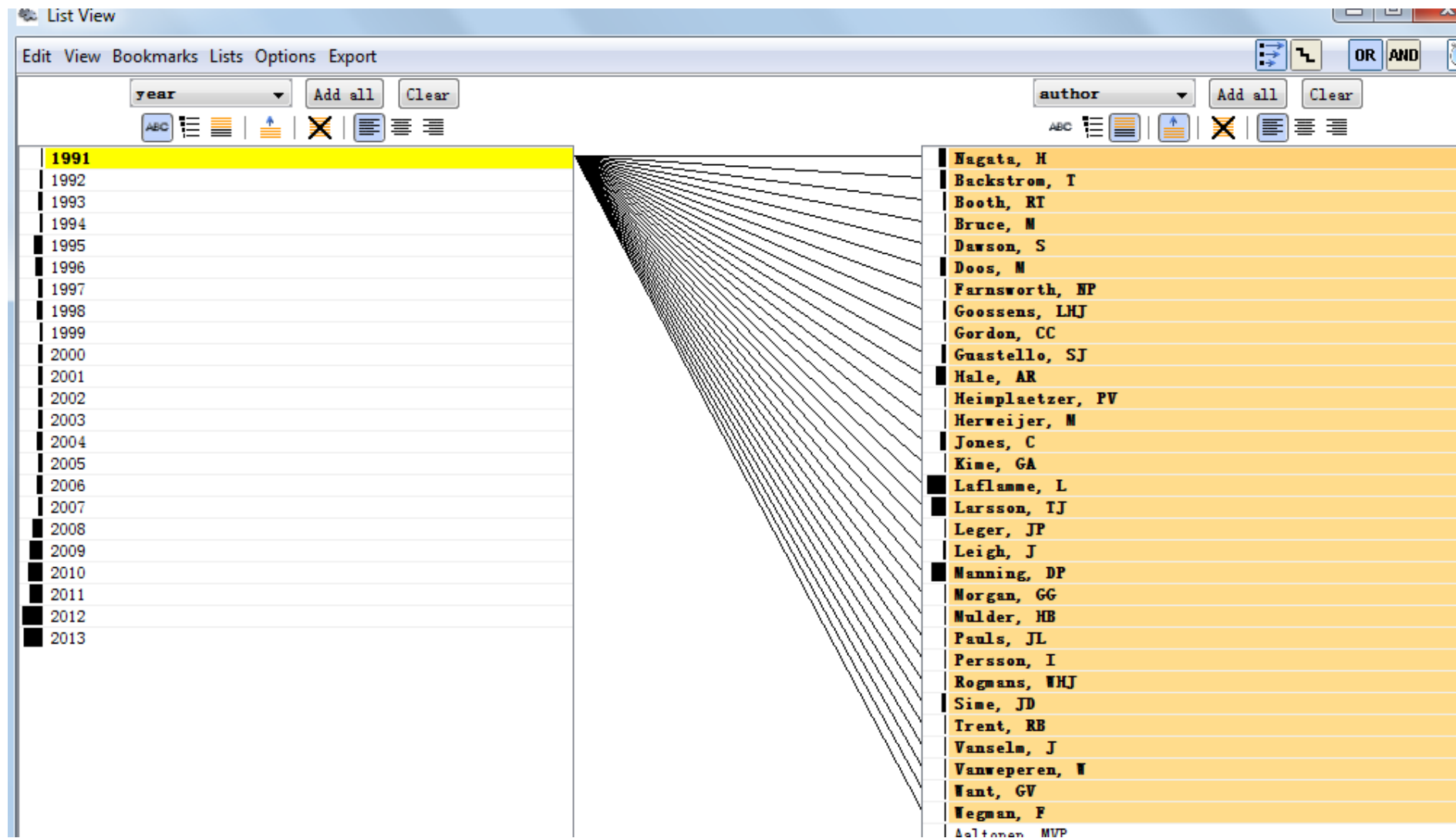
6.使用Jigsaw 分析数据



6. 使用Jigsaw 分析数据



6.使用Jigsaw 分析数据



更多信息

- Chen, Chaomei (2014) The CiteSpace Manual.
<http://cluster.ischool.drexel.edu/~cchen/citespace/CiteSpaceManual.pdf>
- Audilio Gonzales-Aguilar y María Ramírez-Posada: Carrot2: Búsqueda y visualización de la información (in Spanish). El Profesional de la Informacion.
<http://project.carrot2.org/publications/gonzales-ramirez-2012.pdf>
- User and Developer Manual for version 3.9.0-SNAPSHOT.
<http://download.carrot2.org/head/manual/index.html#section.getting-started>
- Getting Started with Jigsaw
<http://www.cc.gatech.edu/gvu/ii/jigsaw/tutorial/manual/>