REUTERS/Mark Blinch

Thomson Data Analyzer

Critical Insight into Competitive and Technical Intelligence

彭斌

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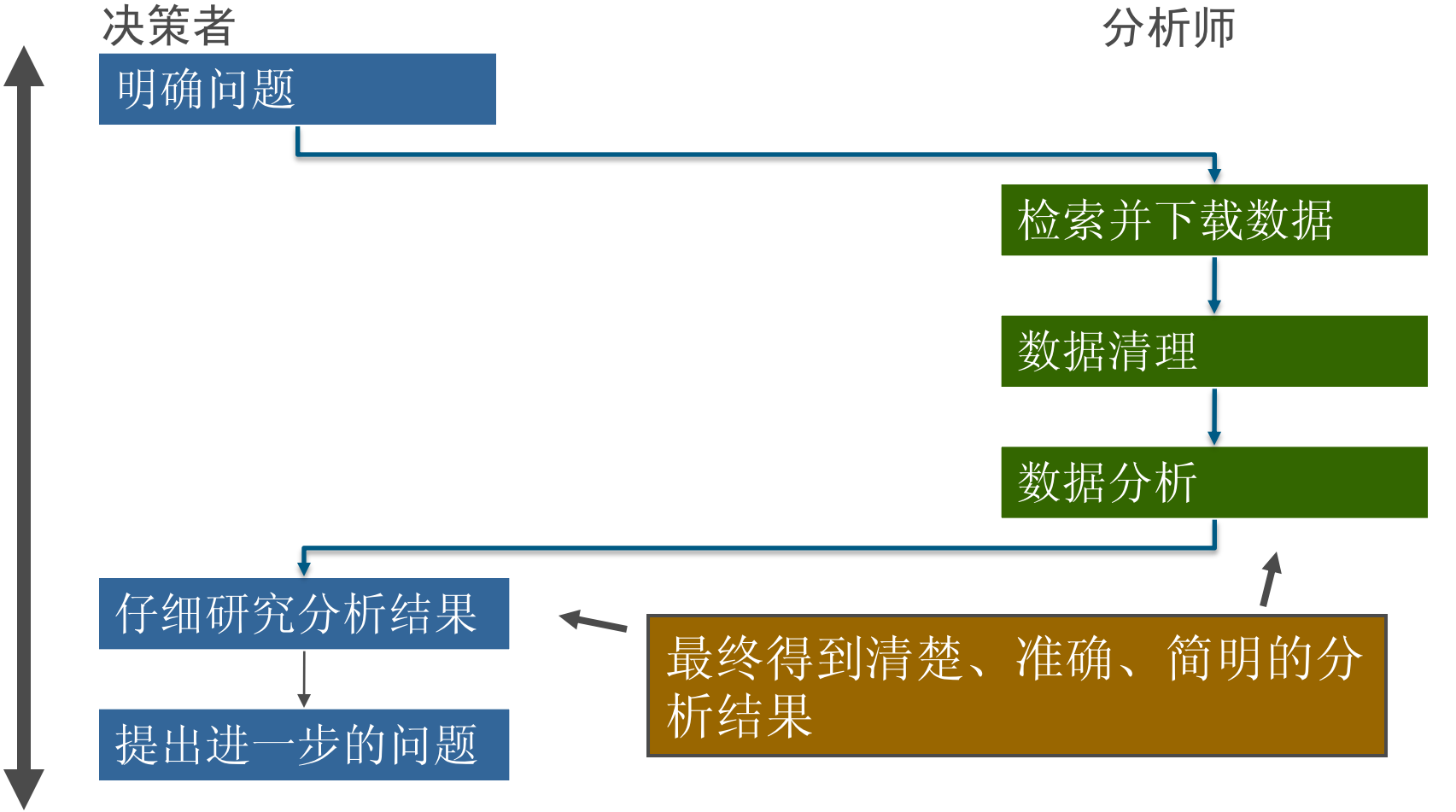
分析流程


决策者
分析师
明确问题
检索并下载数据
数据清理
数据分析
仔细研究分析结果
提出进一步的问题
最终得到清楚、准确、简明的分析结果

提纲

- Thomson Data Analyzer概况
- 数据导入与数据管理
- 数据规范/数据结构化
- 数据分析
- 生成报告

TDA简介

- **Thomson Data Analyzer (TDA），是一个具有强大分析功能的文本挖掘软件，可以对文本数据进行多角度的数据挖掘和可视化的全景分析。**
- **TDA能够帮助您从大量的专利文献或科技文献中发现竞争情报和技术情报，为洞察科学技术的发展趋势、发现行业出现的新兴技术、寻找合作伙伴，确定研究战略和发展方向提供有价值的依据。**
- **TDA在数据的导入，数据的清理，数据的分析，和分析结果的报道方面都具有独特的功能。**

提纲

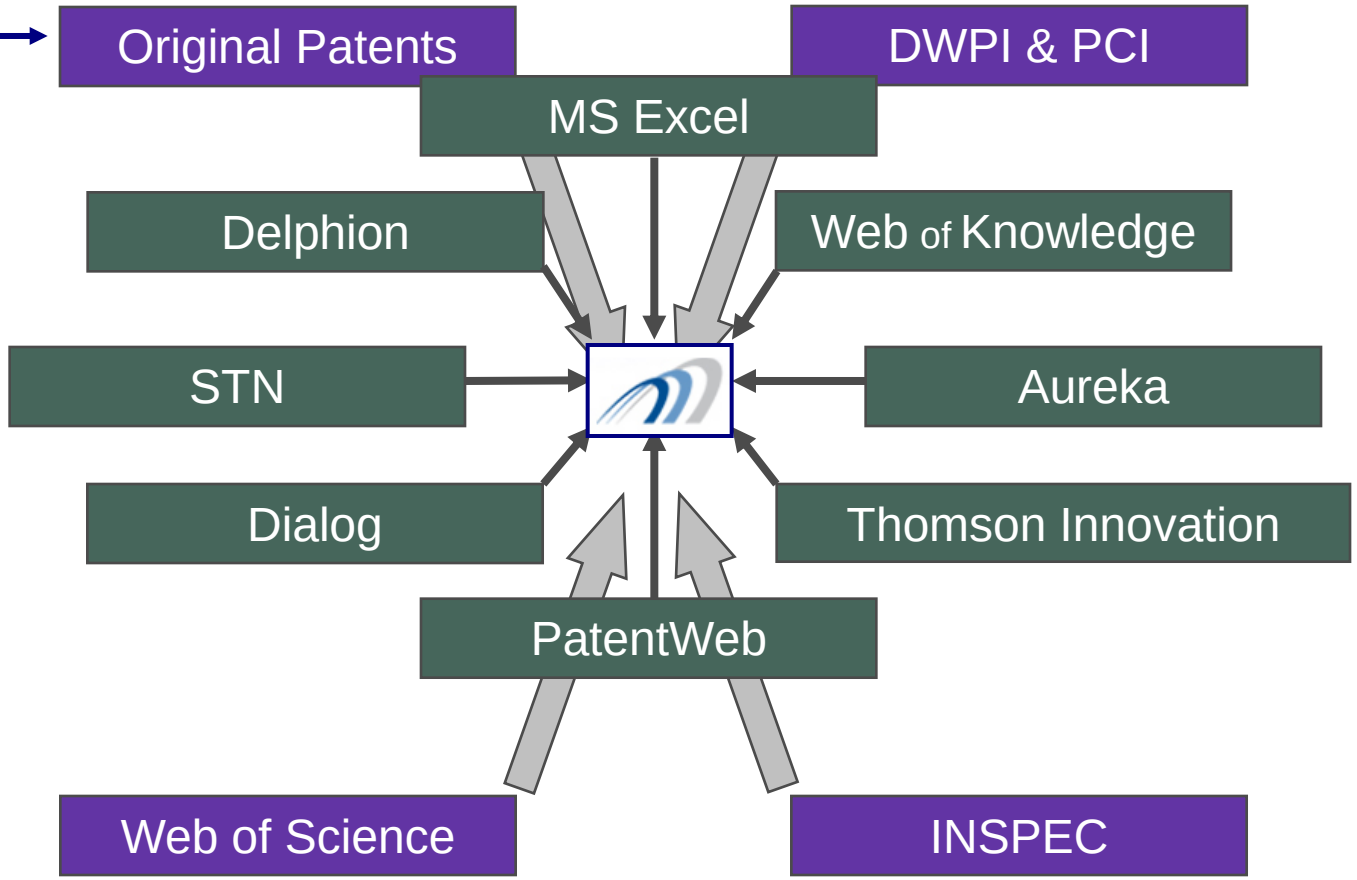
- Thomson Data Analyzer概况
- 数据导入与数据管理
- 数据清理/数据结构化
- 数据分析
- 生成报告

TDA数据导入

结构化的数据

不同平台

Import Engine Editor



检索相关文献——分析数据源的获取

Web of science_检索

Web of Science℠

检索结果 主题=(pesticide residue)

入库时间=所有年份. 数据库=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.

词形还原=打开

Scientific WebPlus 查看 Web 检索结果 >>

注: 检索词的替换形式(例如 tooth 和 teeth)可能已应用，特别是在检索词两侧没有引号的主题检索或标题检索中。如果仅查找检索词的精确匹配结果，请关闭检索页面上的"词形还原"选项。

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精炼检索结果

结果内检索 检索

JCR® 类别 精炼

- [x] ENVIRONMENTAL SCIENCES (3,407)
- [ ] CHEMISTRY ANALYTICAL (3,008)
- [ ] FOOD SCIENCE TECHNOLOGY (1,942)
- [ ] TOXICOLOGY (1,487)
- [ ] BIOCHEMICAL RESEARCH METHODS (1,087)

更多选项/分类...

文献类型 精炼

- [ ] ARTICLE (9,830)
- [ ] PROCEEDINGS PAPER (1,321)
- [ ] REVIEW (521)
- [ ] MEETING ABSTRACT (303)
- [ ] NOTE (123)

(0) 保存为: EndNote Web | EndNote | ResearcherID 更多选项

分析检索结果

引文报告功能不可用。

1. 标题: GAS CHROMATOGRAPHY MASS SPECTROMETRY STUDY OF MALATHION RESIDUES IN CENTELLA ASIATICA
作者: Latifah A. M.; Musa R. David; Latiff P. A.
来源出版物: IRANIAN JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE & ENGINEERING 卷: 8 期: 1 页: 57-64 出版年: WIN 2011
被引频次: 0 (来自 Web of Science)
订购全文 [查看摘要]

2. 标题: Effect of Cooking Process on the Residues of Three Carbamate Pesticides in Rice
作者: Shoeibi Shahram; Amirahmadi Maryam; Yazdanpanah Hassan; 等.
来源出版物: IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH 卷: 10 期: 1 页: 119-126 出版年: WIN 2011
被引频次: 0 (来自 Web of Science)
订购全文 [查看摘要]

3. 标题: A preliminary assessment of consumer's exposure to organochlorine pesticides in fruits and vegetables and the potential health risk in Accra Metropolis, Ghana
作者: Bempah Crentsil Kofi; Donkor Augustine; Yeboah Philip Owiradu; 等.
来源出版物: FOOD CHEMISTRY 卷: 128 期: 4 页: 1058-1065 DOI: 10.1016/j.foodchem.2011.04.013 出版年: OCT 15 2011
被引频次: 0 (来自 Web of Science)
全文 [查看摘要]

4. 标题: Optimisation of octadecyl (C(18)) sorbent amount in QuEChERS analytical method for the accurate organophosphorus pesticide residues determination in low-fatty baby foods

所有数据库 | 选择一个数据库 | Web of Science | 其他资源

检索 | 作者甄别 | 被引参考文献检索 | 化学结构检索 | 高级检索 | 检索历史

Web of Science℠

<< 返回上一页

检索结果 主题=(pesticide residue)
精炼依据: JCR 类别=(ENVIRONMENTAL SCIENCES)
入库时间=所有年份. 数据库=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.
词形还原=打开

检索结果: 3,407 第 1 页，共 341 页 转至 排序方式: 出版日期 (降序)

精炼检索结果

结果内检索 检索

JCR® 类别 精炼
- ENVIRONMENTAL SCIENCES (3,407)
- TOXICOLOGY (963)
- PUBLIC ENVIRONMENTAL OCCUPATIONAL HEALTH (475)
- ENGINEERING ENVIRONMENTAL (319)
- WATER RESOURCES (194)

更多选项/分类...

文献类型 精炼
- ARTICLE (3,133)
- PROCEEDINGS PAPER (354)
- REVIEW (110)
- NOTE (15)
- EDITORIAL MATERIAL (13)

(0) 保存为: EndNote Web | EndNote | ResearcherID 更多选项

分析检索结果
创建引文报告

1. 标题: Enzymatic basis for fungicide removal by Elodea canadensis
作者: Dosnon-Olette Rachel; Schroeder Peter; Bartha Bernadett; 等.
来源出版物: ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH 卷: 18 期: 6 页: 1015-1021 DOI: 10.1007/s11356-011-0460-1 出版年: JUL 2011
被引频次: 0 (来自 Web of Science)
全文 [查看摘要]

2. 标题: Human exposure to PCBs, PBDEs and HBCDs in Ghana: Temporal variation, sources of exposure and estimation of daily intakes by infants
作者: Asante Kwadwo Ansong; Adu-Kumi Sam; Nakahiro Kenta; 等.
来源出版物: ENVIRONMENT INTERNATIONAL 卷: 37 期: 5 页: 921-928 DOI: 10.1016/j.envint.2011.03.011 出版年: JUL 2011
被引频次: 0 (来自 Web of Science)
全文 [查看摘要]

3. 标题: Evaluation of risk associated with organchlorine pesticide contaminated sediment of the Lake Lianhuan watershed
作者: Xuan Fuhua; Zang Shuying
来源出版物: ECOTOXICOLOGY 卷: 20 期: 5 特刊: SI 页: 1090-1098 DOI: 10.1007/s10646-011-0648-7 出版年: JUL 2011
被引频次: 0 (来自 Web of Science)
全文 [查看摘要]

4. 标题: Identification of trace organic pollutants in freshwater sources in Eastern China and estimation of their associated human health risks
作者: Shi Wei; Zhang Fengxian; Zhang Xiaowei; 等.

9. 标题: Organochlorine compound residues in the eggs of broad-snouted caimans (Caiman latirostris) and correlatic
作者: Stoker C.; Repetti M. R.; Garcia S. R.; 等.
来源出版物: CHEMOSPHERE 卷: 84 期: 3 页: 311-317 DOI: 10.1016/j.chemosphere.2011.04.013 出版年: JUN 2011
被引频次: 0 (来自 Web of Science)
全文 [查看摘要]

10. 标题: Are exploited mangrove molluscs exposed to Persistent Organic Pollutant contamination in Senegal, West Afr
作者: Bodin N.; Ka R. N'Gom; Le Loc'h F.; 等.
来源出版物: CHEMOSPHERE 卷: 84 期: 3 页: 318-327 DOI: 10.1016/j.chemosphere.2011.04.012 出版年: JUN 2011
被引频次: 0 (来自 Web of Science)
全文 [查看摘要]

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- 页面上的所有记录
- 记录 1 至 500

第 2 步:
- 作者、标题、来源出版物
- 包含摘要
- 全记录
- 包含引用的参考文献

第 3 步: [如何导出至题录管理软件?]
保存为: EndNote Web | EndNote | ResearcherID
保存到其他参考文献软件 保存
(0)

您选择的数据限制内共有 55,558,056 条记录。其中有 3,407 条记录与检索式相匹配。

关键字: = 可用的化学结构.

查看 | 简体中文 | English | 日本語

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正在处理记录
正在处理您的请求，请稍候。
(注: 处理过程可能需要几分钟的时间，具体视记录数而定。)
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正在处理 500 记录:
10...20...30...40...50...60...70...80...90...100...
110...120...130...140...150...160...170...180...190...200...
210...220...230...240...250...260...270...280...290...300...
310...320...330...340...350...360...370...380...390...400...
410...420...430...440...450...460...470...480...500..Done
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返回
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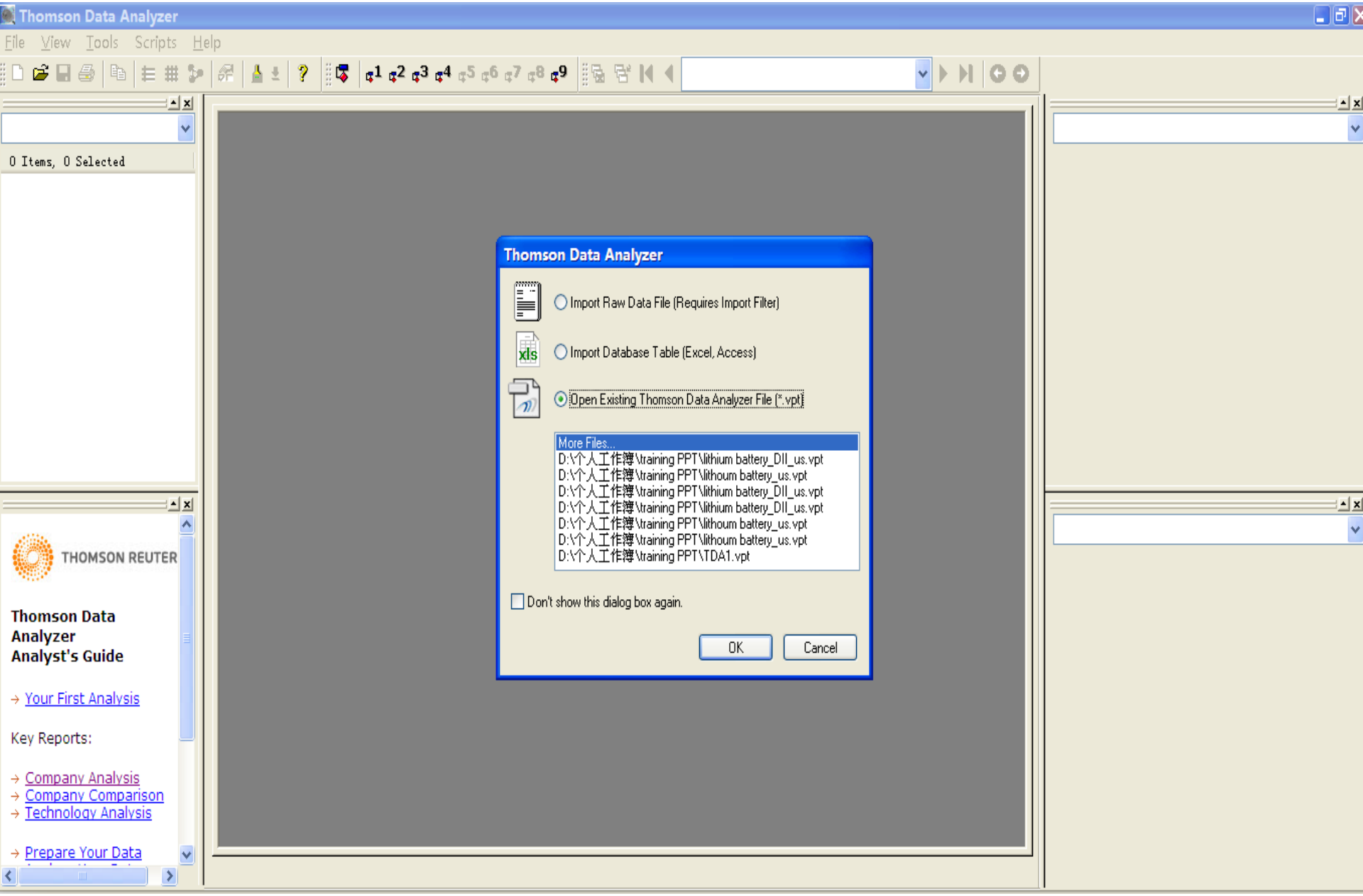
TDA软件


Thomson Data Analyzer
File View Tools Scripts Help
0 Items, 0 Selected
THOMSON REUTER
Thomson Data Analyzer Analyst's Guide
Your First Analysis
Key Reports:
Company Analysis
Company Comparison
Technology Analysis
Prepare Your Data
Thomson Data Analyzer
Import Raw Data File (Requires Import Filter)
Import Database Table (Excel, Access)
Open Existing Thomson Data Analyzer File (*.vpt)
More Files...
D:\个人工作簿\training PPT\lithium battery_DII_us.vpt
D:\个人工作簿\training PPT\lithoum battery_us.vpt
D:\个人工作簿\training PPT\lithium battery_DII_us.vpt
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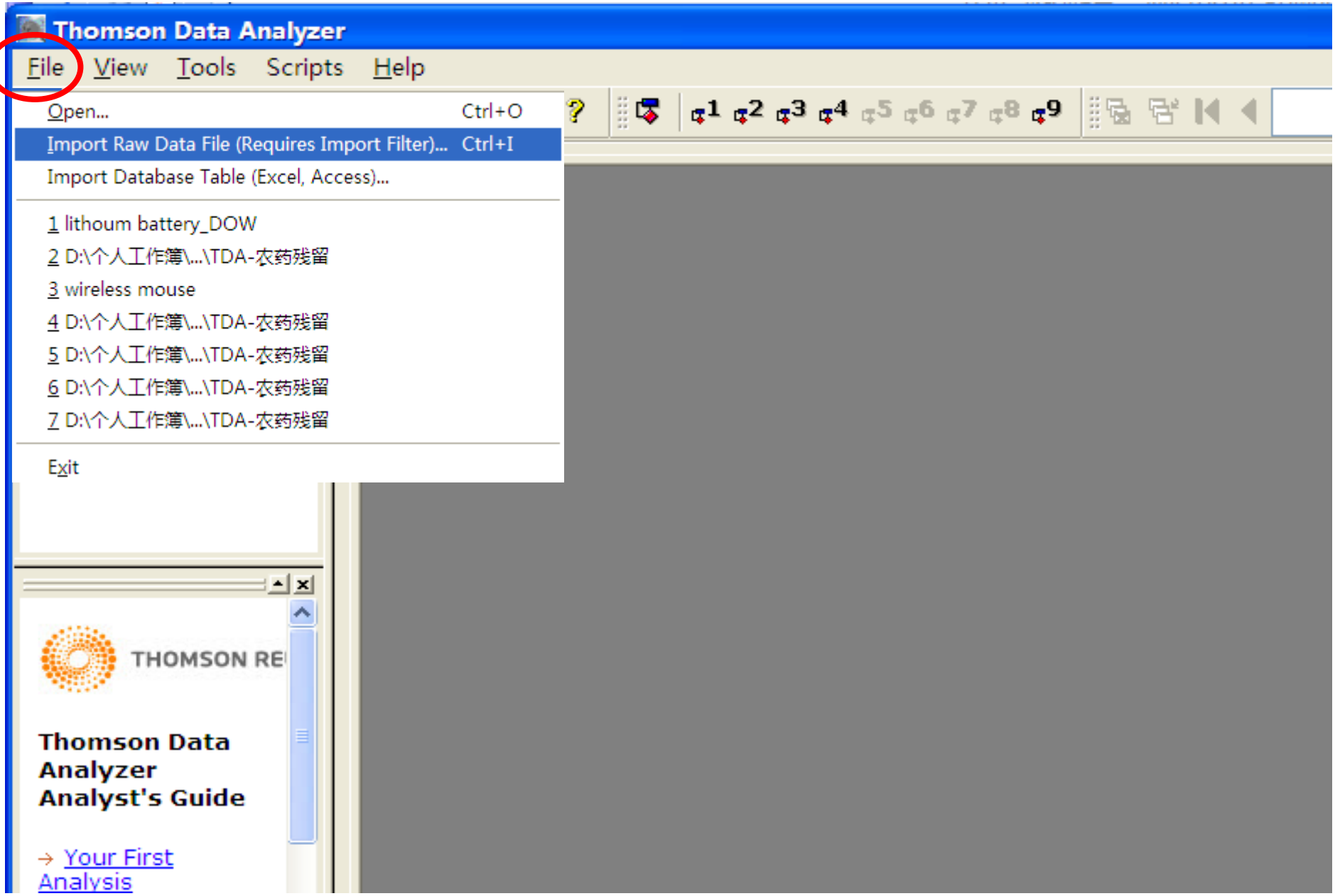
Don't show this dialog box again.
OK
Cancel

数据输入


Thomson Data Analyzer
File
View
Tools
Scripts
Help
Open... Ctrl+O
Import Raw Data File (Requires Import Filter)... Ctrl+I
Import Database Table (Excel, Access)...
1 lithoum battery_DOW
2 D:\个人工作簿\...\TDA-农药残留
3 wireless mouse
4 D:\个人工作簿\...\TDA-农药残留
5 D:\个人工作簿\...\TDA-农药残留
6 D:\个人工作簿\...\TDA-农药残留
7 D:\个人工作簿\...\TDA-农药残留
Exit
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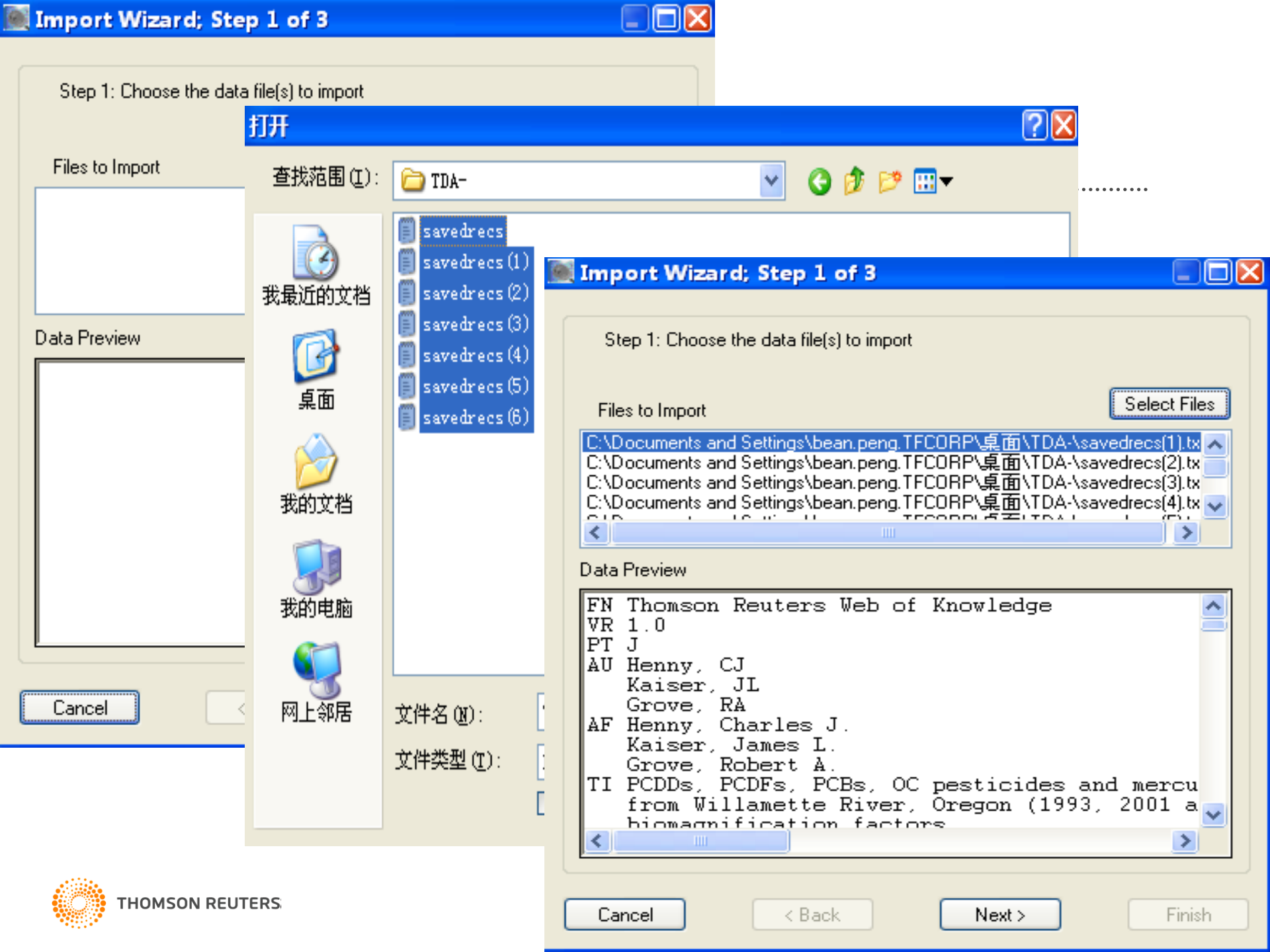
Thomson Data Analyzer Analyst's Guide
→ Your First Analysis


Import Wizard; Step 1 of 3
Step 1: Choose the data file(s) to import
Files to Import
Data Preview
Cancel
打开
查找范围(I):
TDA-
savedrecs
savedrecs (1)
savedrecs (2)
savedrecs (3)
savedrecs (4)
savedrecs (5)
savedrecs (6)
我最近的文档
桌面
我的文档
我的电脑
网上邻居
文件名(N):
文件类型(T):
Import Wizard; Step 1 of 3
Step 1: Choose the data file(s) to import
Files to Import
Select Files
C:\Documents and Settings\bean.peng.TFCORP\桌面\TDA-\savedrecs(1).tx
C:\Documents and Settings\bean.peng.TFCORP\桌面\TDA-\savedrecs(2).tx
C:\Documents and Settings\bean.peng.TFCORP\桌面\TDA-\savedrecs(3).tx
C:\Documents and Settings\bean.peng.TFCORP\桌面\TDA-\savedrecs(4).tx
Data Preview
FN Thomson Reuters Web of Knowledge
VR 1.0
PT J
AU Henny, CJ
Kaiser, JL
Grove, RA
AF Henny, Charles J.
Kaiser, James L.
Grove, Robert A.
TI PCDDs, PCDFs, PCBs, OC pesticides and mercu
from Willamette River, Oregon (1993, 2001 a
Cancel
< Back
Next >
Finish
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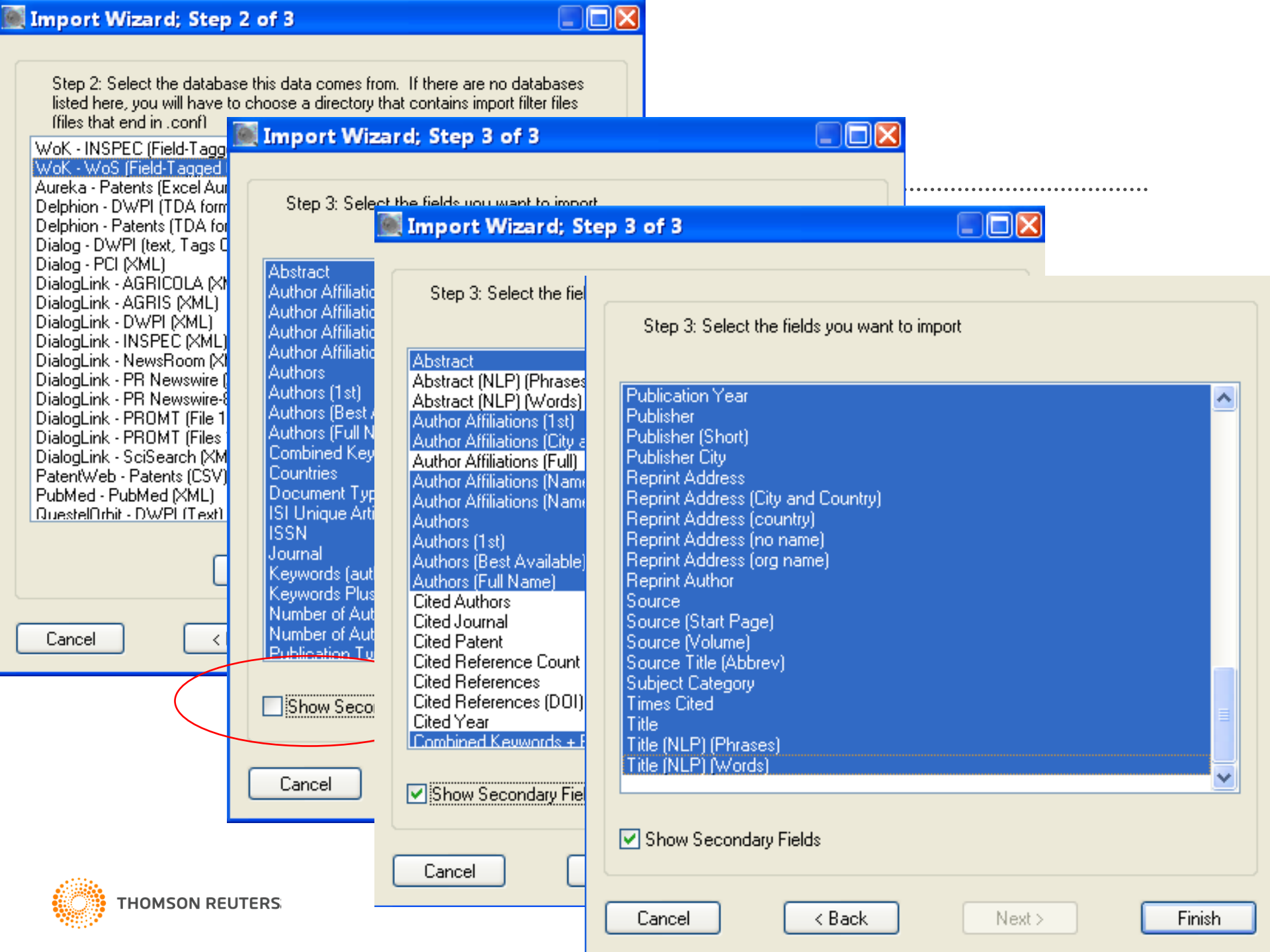

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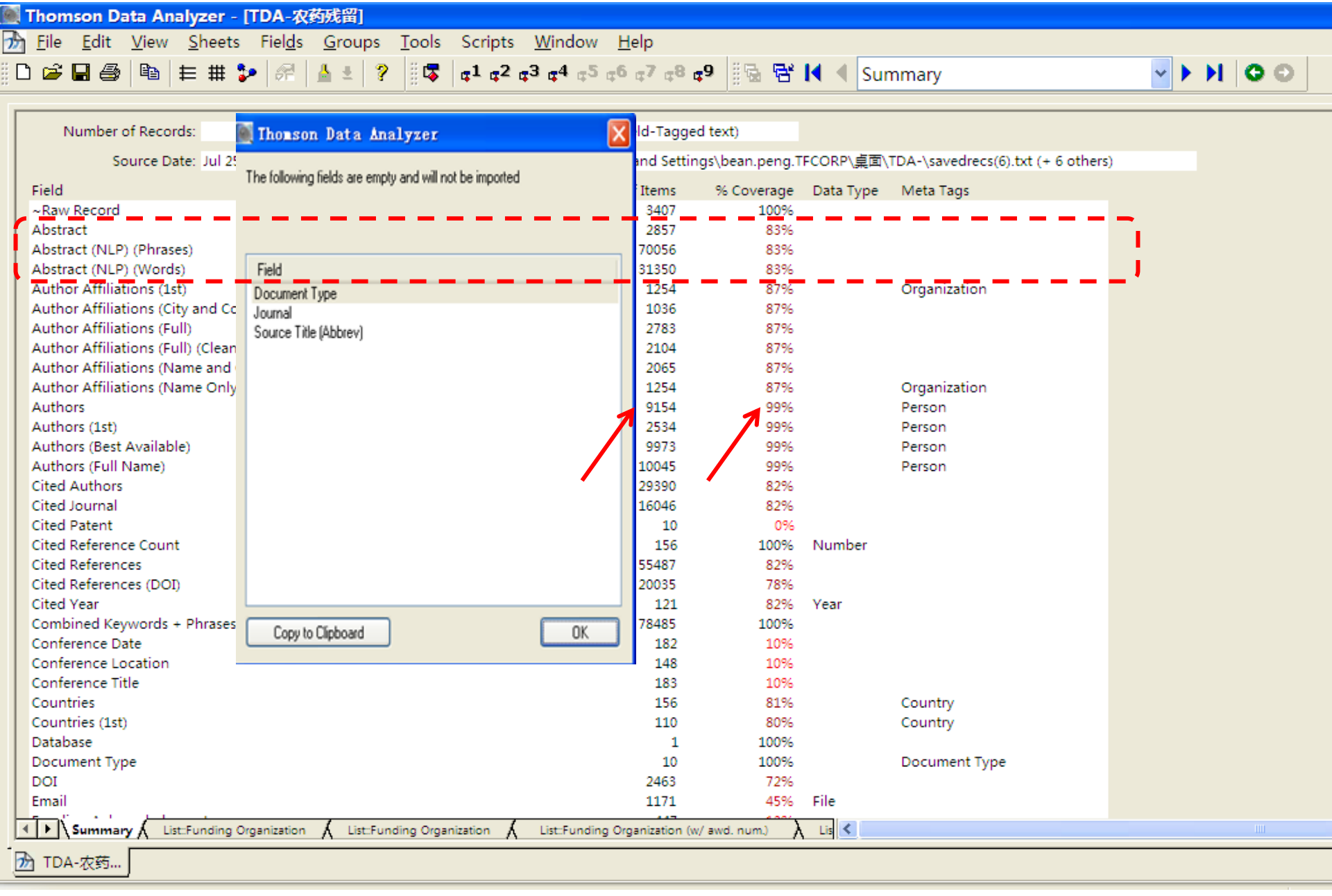
summary表单


Thomson Data Analyzer - [TDA-农药残留]
File Edit View Sheets Fields Groups Tools Scripts Window Help
Summary
Number of Records:
Source Date: Jul 25
ld-Tagged text)
and Settings\bean.peng.TFCORP\桌面\TDA-\savedrecs(6).txt (+ 6 others)
Thomson Data Analyzer
The following fields are empty and will not be imported
Field
Document Type
Journal
Source Title (Abbrev)
Copy to Clipboard
OK
Field
Items
% Coverage
Data Type
Meta Tags
~Raw Record 3407 100%
Abstract 2857 83%
Abstract (NLP) (Phrases) 70056 83%
Abstract (NLP) (Words) 31350 83%
Author Affiliations (1st) 1254 87% Organization
Author Affiliations (City and Cc 1036 87%
Author Affiliations (Full) 2783 87%
Author Affiliations (Full) (Clean 2104 87%
Author Affiliations (Name and 2065 87%
Author Affiliations (Name Only 1254 87% Organization
Authors 9154 99% Person
Authors (1st) 2534 99% Person
Authors (Best Available) 9973 99% Person
Authors (Full Name) 10045 99% Person
Cited Authors 29390 82%
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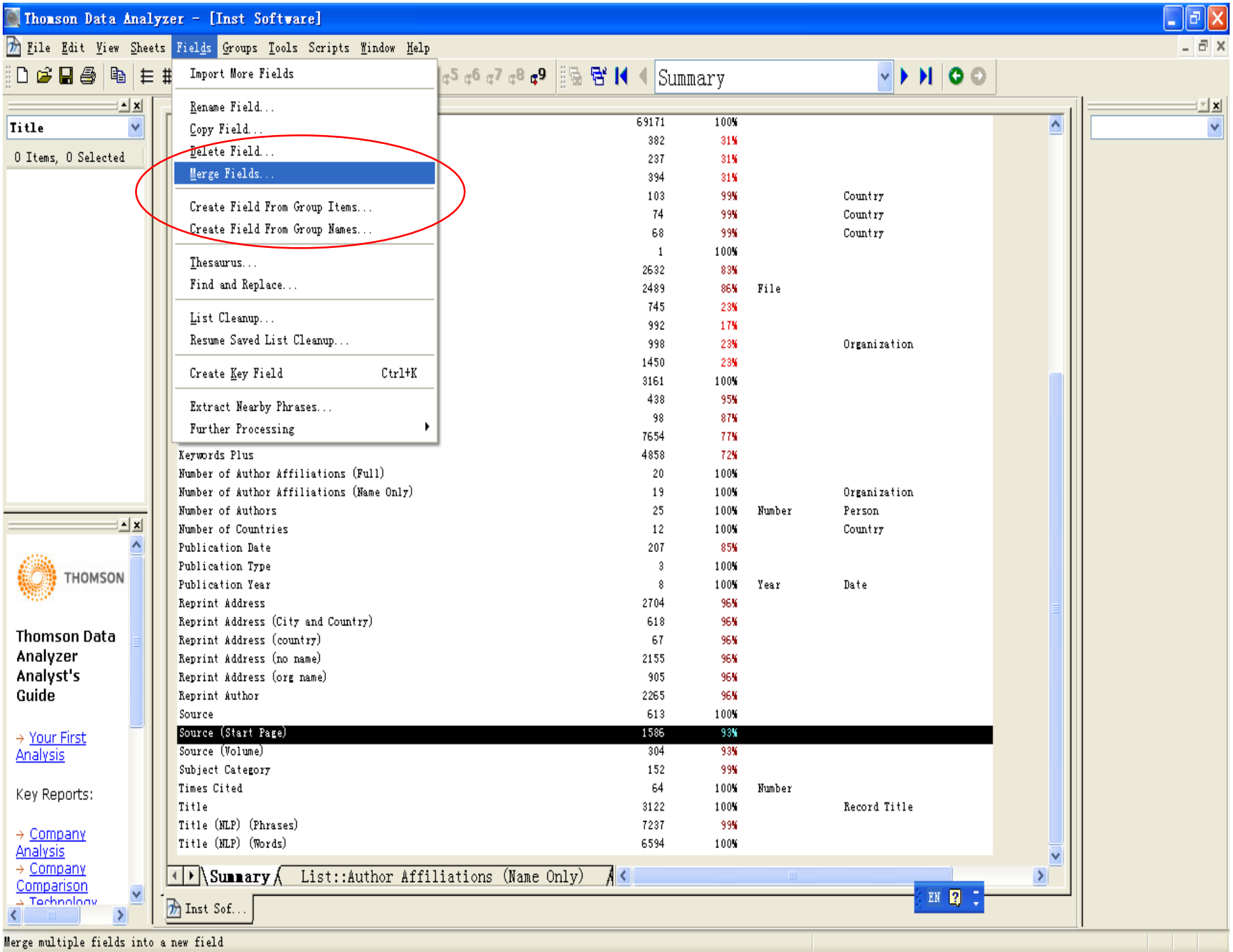
DOI 2463 72%
Email 1171 45% File
Summary
List::Funding Organization
List::Funding Organization
List::Funding Organization (w/ awd. num.)
TDA-农药...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File Edit View Sheets Fields Groups Tools Scripts Window Help
Import More Fields
Rename Field...
Copy Field...
Delete Field...
Merge Fields...
Create Field From Group Items...
Create Field From Group Names...
Thesaurus...
Find and Replace...
List Cleanup...
Resume Saved List Cleanup...
Create Key Field Ctrl+K
Extract Nearby Phrases...
Further Processing
Summary
Title
0 Items, 0 Selected
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Keywords Plus 4858 72%
Number of Author Affiliations (Full) 20 100%
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Number of Authors 25 100% Number Person
Number of Countries 12 100% Country
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Publication Year 8 100% Year Date
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Source (Volume) 304 93%
Subject Category 152 99%
Times Cited 64 100% Number
Title 3122 100% Record Title
Title (NLP) (Phrases) 7237 99%
Title (NLP) (Words) 6594 100%
Summary
List::Author Affiliations (Name Only)
Inst Sof...
EN
Merge multiple fields into a new field

Merge Fields

List of All Fields & Groups

List of Fields & Groups to be merged.

Thomson Data Analyzer - [Inst Software]

File Edit View Sheets Fields Groups Tools Scripts Window Help

Summary

Title

0 Items, 0 Selected

Combined Keywords + Phrases	69171	100%		
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ISI Unique Article Identifier	3161	100%		
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Keywords (author's)	7654	77%		
Keywords (author's) + Keywords Plus + Title (NLP) (Phrases)	17049	99%		
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Publication Year	8	100%	Year	Date
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Thomson Data Analyzer Analyst's Guide

提纲

- Thomson Data Analyzer概况
- 数据导入与数据管理
- 数据清理/数据结构化
- 数据分析
- 生成报告

数据清理/数据结构化

高质量的数据分析结果首先取决于数据的准确性与完整性：

- 让数据的差异性最小
- 尽量减少词汇的拼写差异、或者同义词等

清理数据的方法包括：

- List Cleanup- 机器辅助识别并聚类相似的术语
- Thesauri- 按照规则识别并聚类类似的术语
- Groups— 在一个字段中标记类似的术语，同时可保留条目细节

数据清理/数据结构化

- **数据规范/数据结构化**

- **为什么要规范数据：**

  Alloy, alloys; “human-computer interaction” and “human computer interaction”； 单数/复数变化；拼写错误；美式/英式拼写；公司名称/机构的不同书写格式的不同；

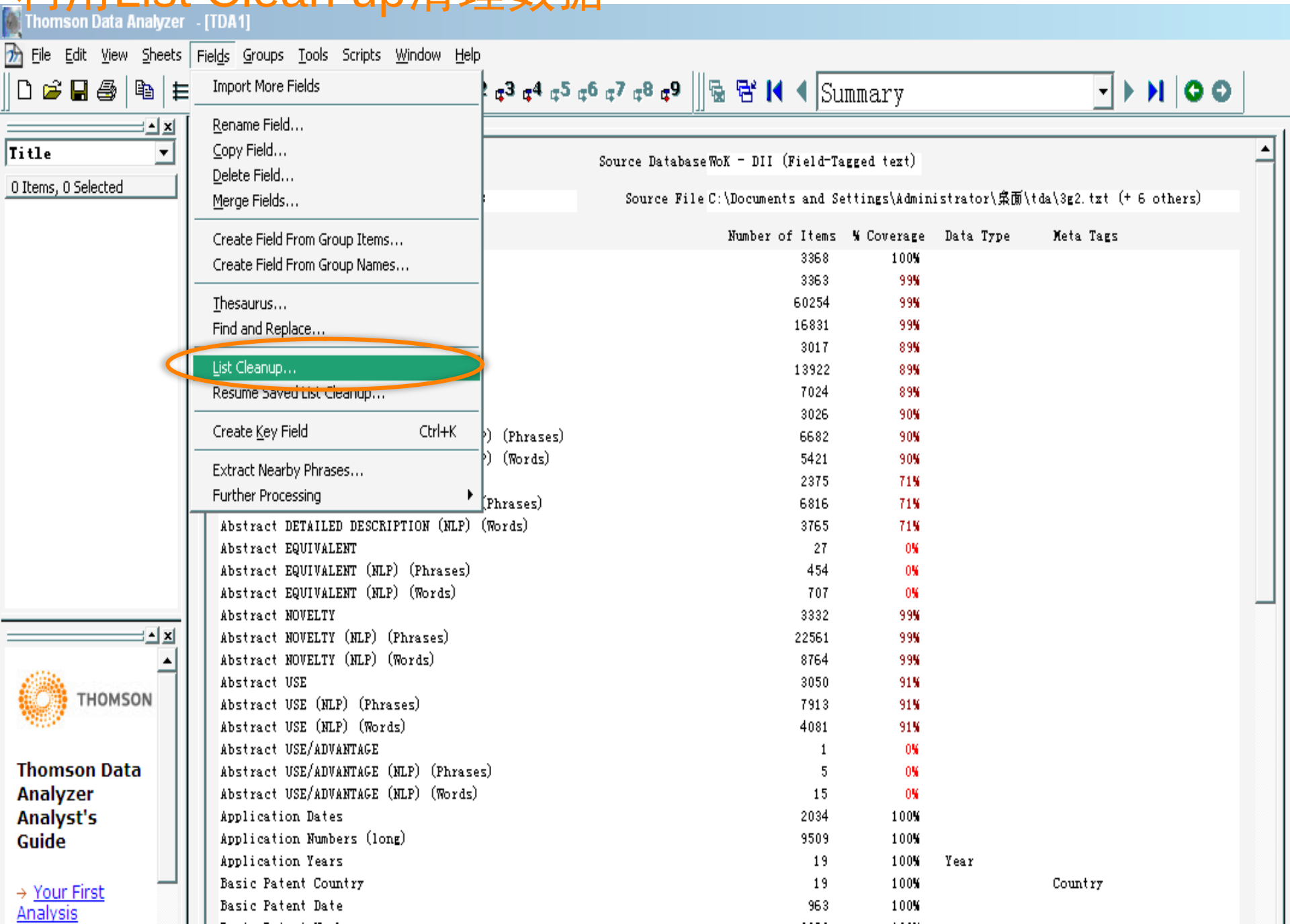
针对本课题需要清理的数据

- 作者
- 机构（作者地址）
- 自然语词（标题、摘要、关键词）
- 文献来源(国家、地区、）
- 学科分类

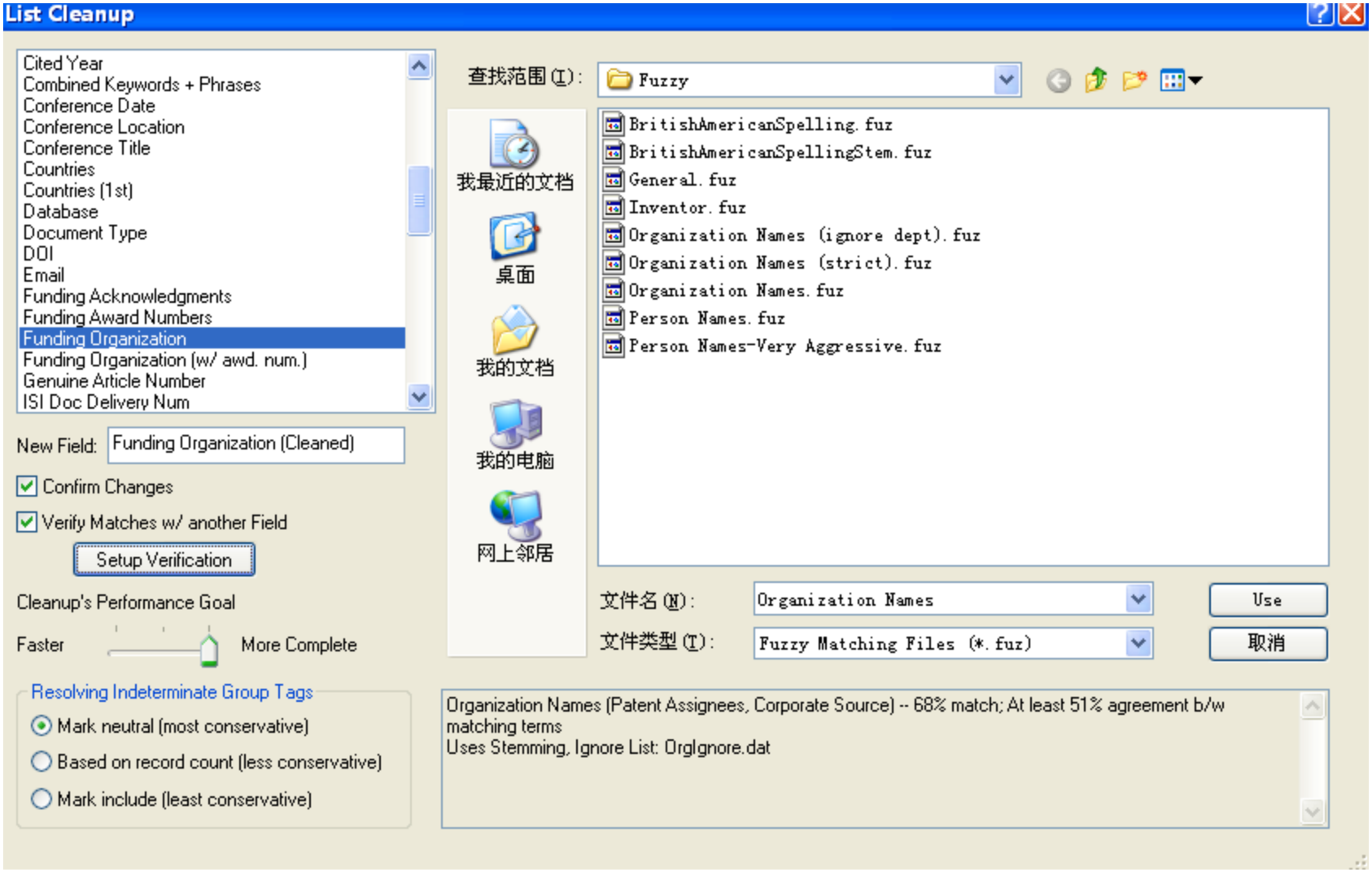
数据清理之: List Cleanup

- **TDA 可以将同义词/等同词等加以区分;**
- **当使用List Cleanup工具时, 您在使用文件名后缀为 .fuz 的文件对数据进行清理. 最常用的模糊匹配文献包括:**
  - **机构(Affiliation) - 可用于公司/机构字段，忽略常用的机构标志词 (e.g. Corp, AG, KK, Ltd)**
  - **作者(Author)-用于作者字段;**
  - **发明人(Inventor)-用于发明人字段;**
  - **一般(General)-可用于所有的文本字段, e.g. cleaning NLP text fields**

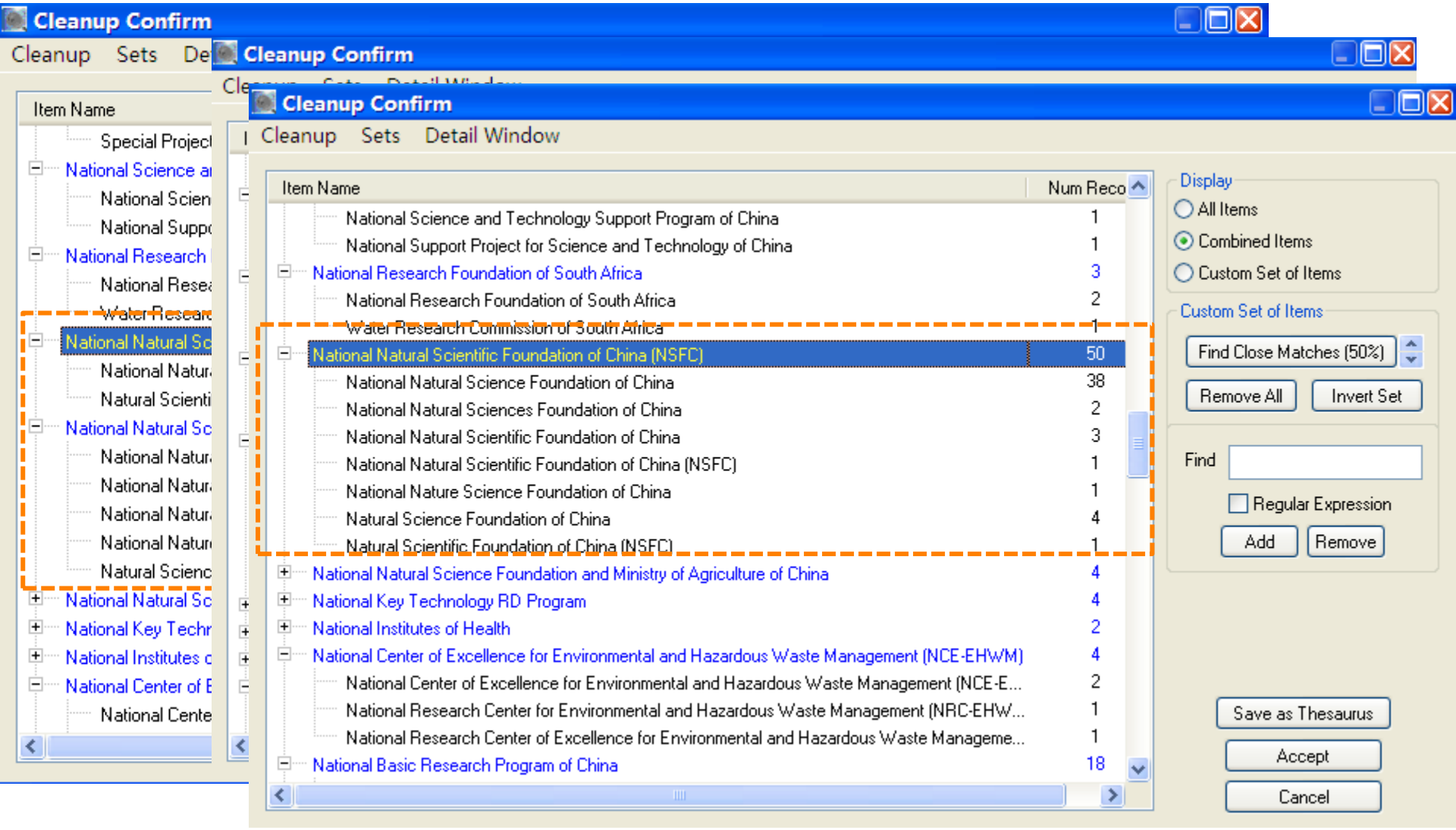
利用List Clean up清理数据



List Cleanup

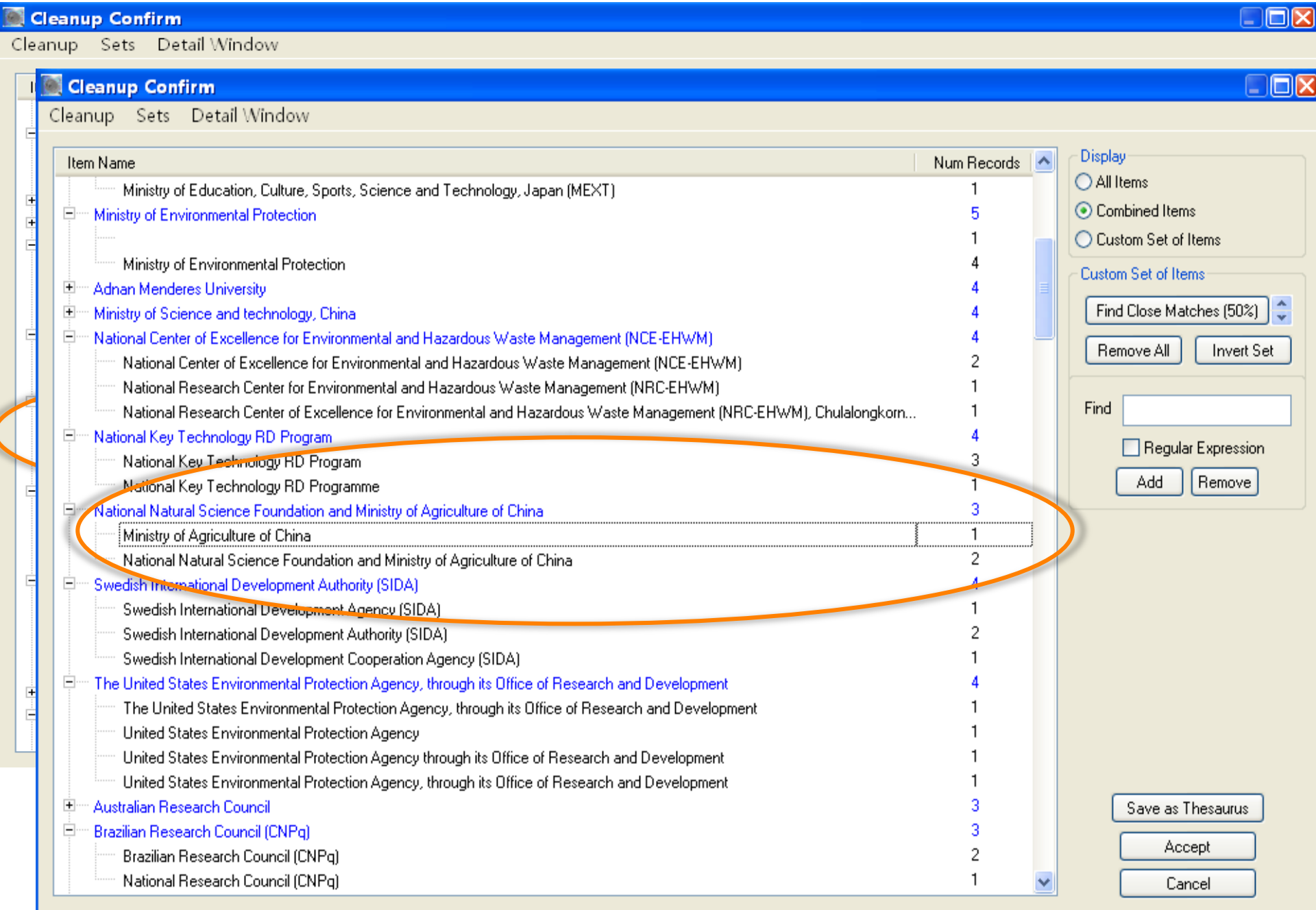


相同机构的合并（光标拖动放在相应名称下即可）

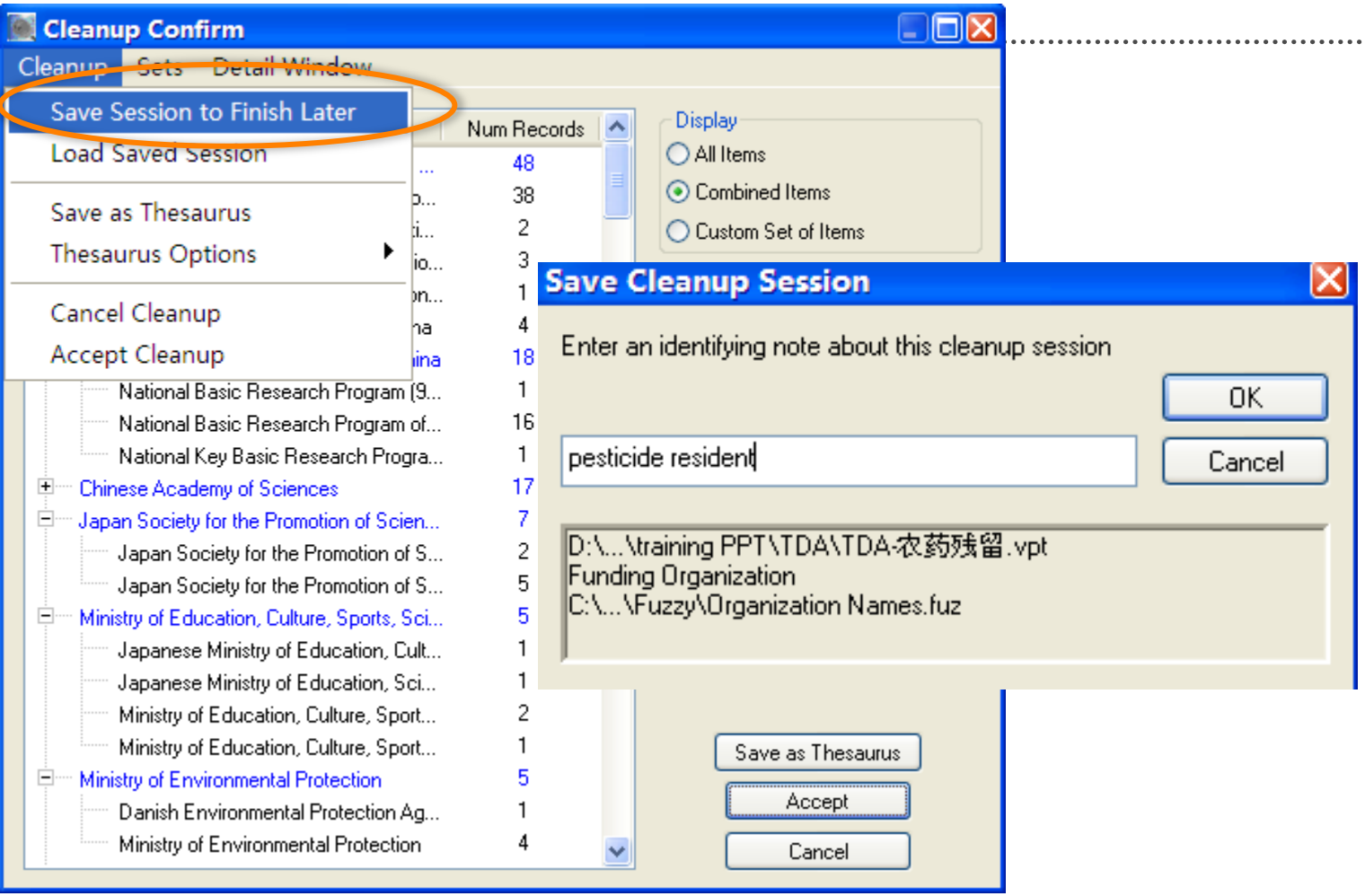


THOMSON REUTERS

将不应该归并的数据从组中去除（选中数据并采用右键）

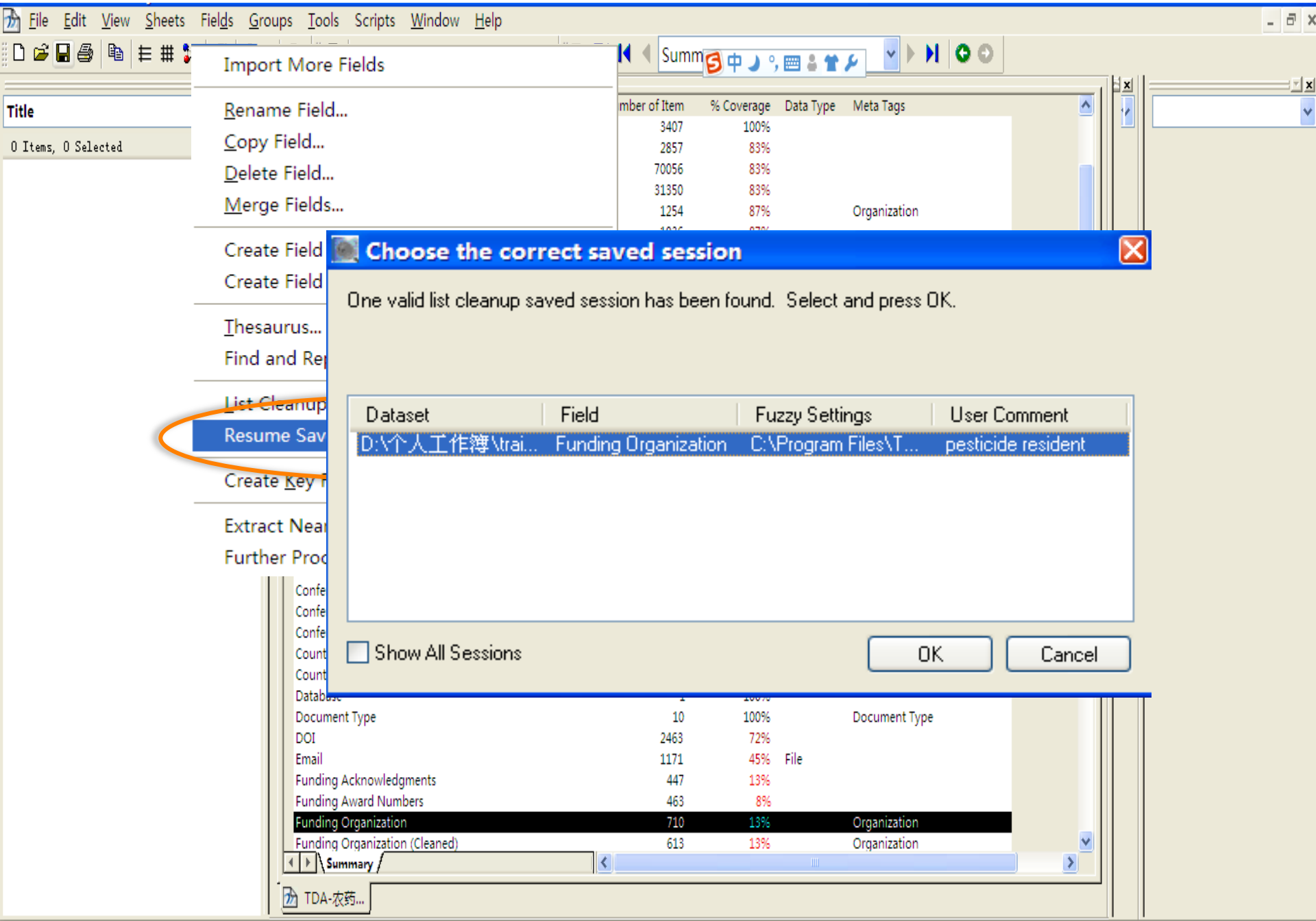


ListClean up中止

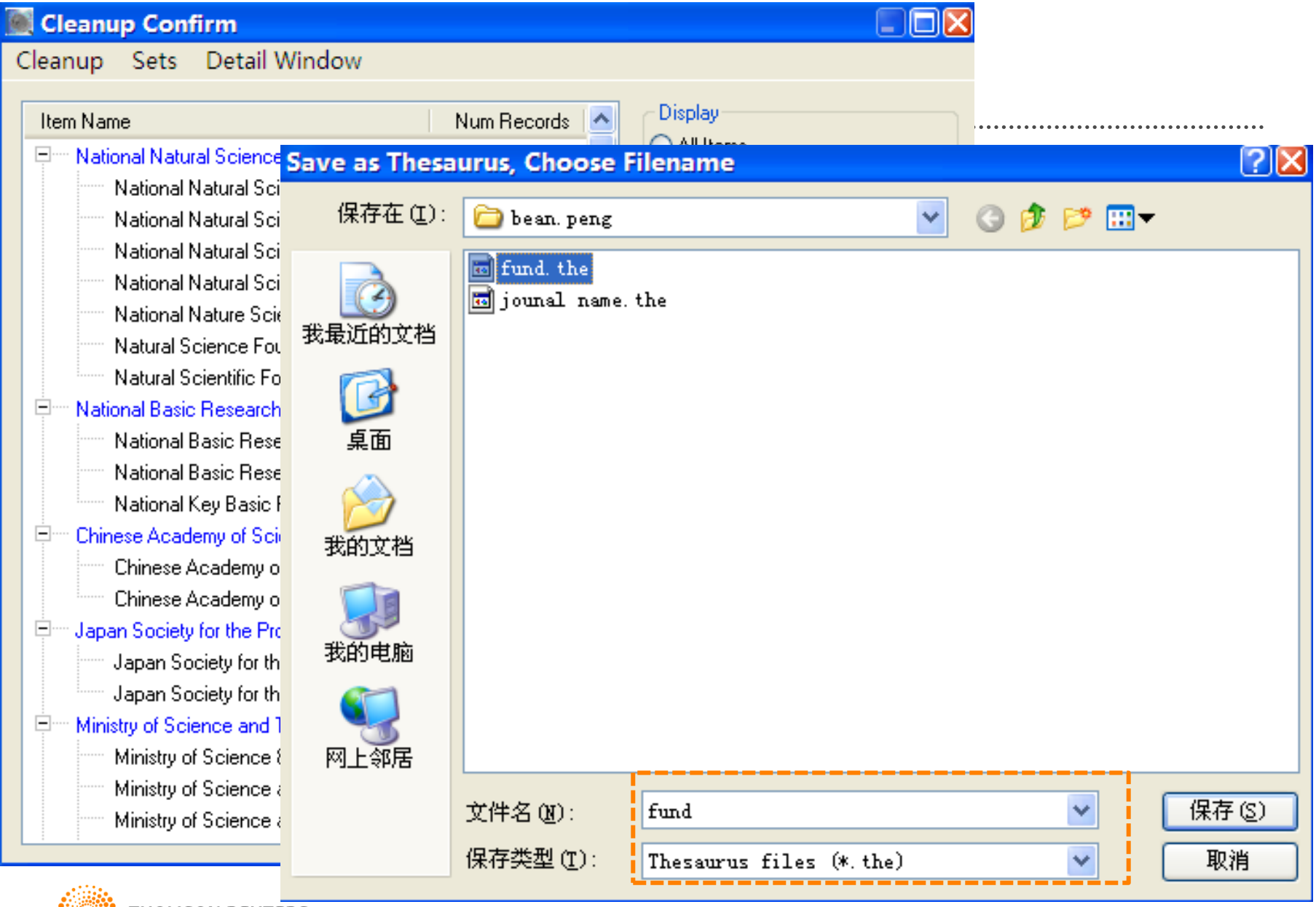


THOMSON REUTERS

恢复继续清理


File Edit View Sheets Fields Groups Tools Scripts Window Help
Import More Fields
Rename Field...
Copy Field...
Delete Field...
Merge Fields...
Create Field
Create Field
Thesaurus...
Find and Re
List Cleanup
Resume Sav
Create Key
Extract Nea
Further Proc
Title
0 Items, 0 Selected
mber of Item
% Coverage
Data Type
Meta Tags
3407 100%
2857 83%
70056 83%
31350 83%
1254 87% Organization
Choose the correct saved session
One valid list cleanup saved session has been found. Select and press OK.
Dataset
Field
Fuzzy Settings
User Comment
D:\个人工作簿\trai...
Funding Organization
C:\Program Files\T...
pesticide resident
Show All Sessions
OK
Cancel
Document Type 10 100% Document Type
DOI 2463 72%
Email 1171 45% File
Funding Acknowledgments 447 13%
Funding Award Numbers 463 8%
Funding Organization 710 13% Organization
Funding Organization (Cleaned) 613 13% Organization
Summary
TDA-农药...

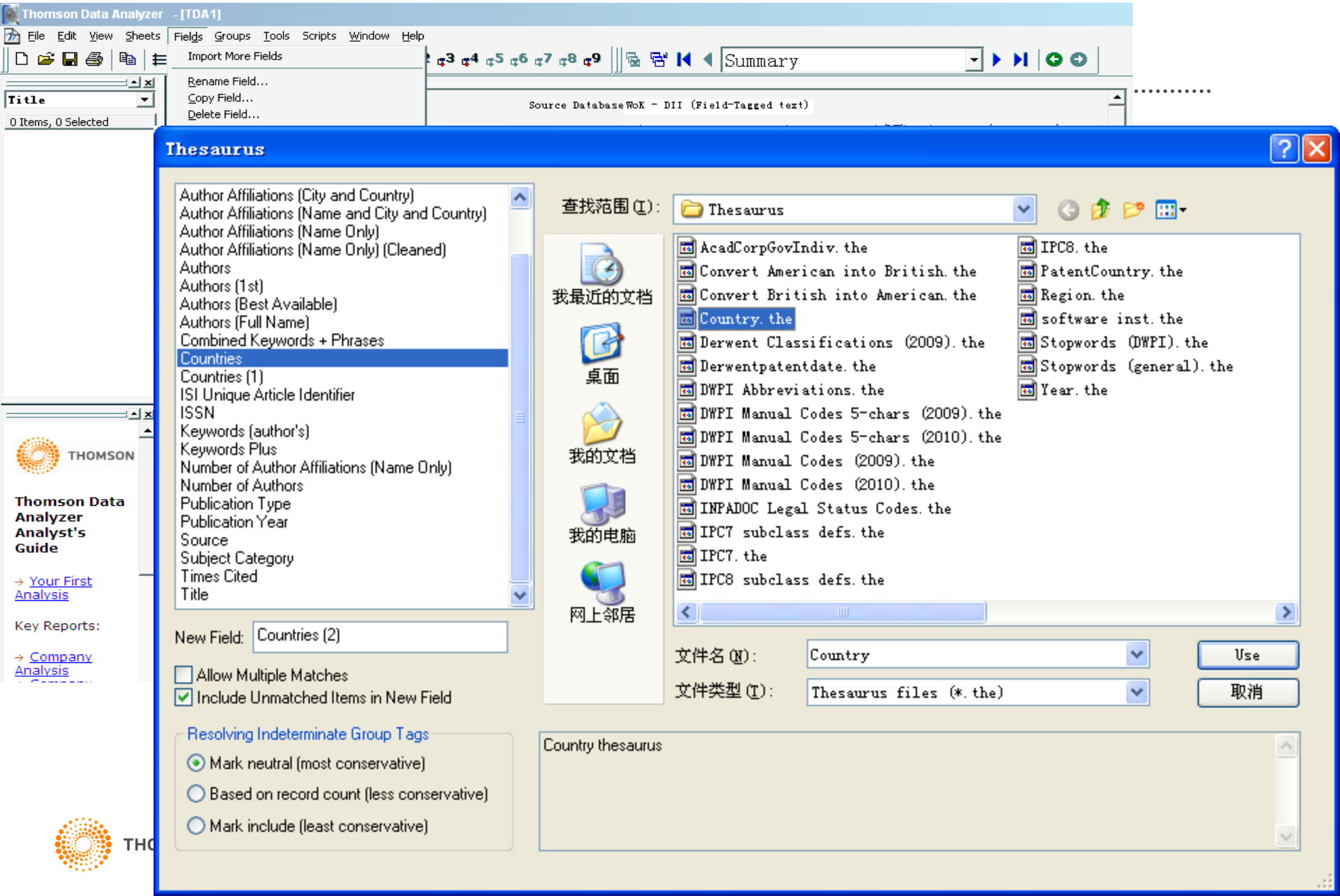
将清理结果保存为叙词，用于今后数据清理



数据清理之: Thesaurus-- 叙词表

- 您可以对一张数据列表利用叙词进行清理
- 您可以自己编辑叙词表
- 可以手工拖拽生成叙词表
- 当在**Cleanup Confirm** 对话框内点击 **Save As Thesaurus** 或者利用Groups创建叙词后 (Menu item **Groups** and **Create Thesaurus using Groups ...**) 再选择已存在的叙词文件 (*.the), 您就可以将叙词表合并到一个已有的叙词表里

使用叙词帮助信息清理


Thomson Data Analyzer - [TDA1]
File Edit View Sheets Fields Groups Tools Scripts Window Help
Import More Fields
Rename Field...
Copy Field...
Delete Field...
Summary
Title
0 Items, 0 Selected
Source DatabaseWoK - DII (Field-Tagged text)
THOMSON
Thomson Data Analyzer Analyst's Guide
Your First Analysis
Key Reports:
Company Analysis
Thesaurus
Author Affiliations (City and Country)
Author Affiliations (Name and City and Country)
Author Affiliations (Name Only)
Author Affiliations (Name Only) (Cleaned)
Authors
Authors (1st)
Authors (Best Available)
Authors (Full Name)
Combined Keywords + Phrases
Countries
Countries (1)
ISI Unique Article Identifier
ISSN
Keywords (author's)
Keywords Plus
Number of Author Affiliations (Name Only)
Number of Authors
Publication Type
Publication Year
Source
Subject Category
Times Cited
Title
New Field: Countries (2)
Allow Multiple Matches
Include Unmatched Items in New Field
Resolving Indeterminate Group Tags
Mark neutral (most conservative)
Based on record count (less conservative)
Mark include (least conservative)
查找范围(I): Thesaurus
我最近的文档
桌面
我的文档
我的电脑
网上邻居
AcadCorpGovIndiv.the
Convert American into British.the
Convert British into American.the
Country.the
Derwent Classifications (2009).the
Derwentpatentdate.the
DWPI Abbreviations.the
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IPC7.the
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Stopwords (general).the
Year.the
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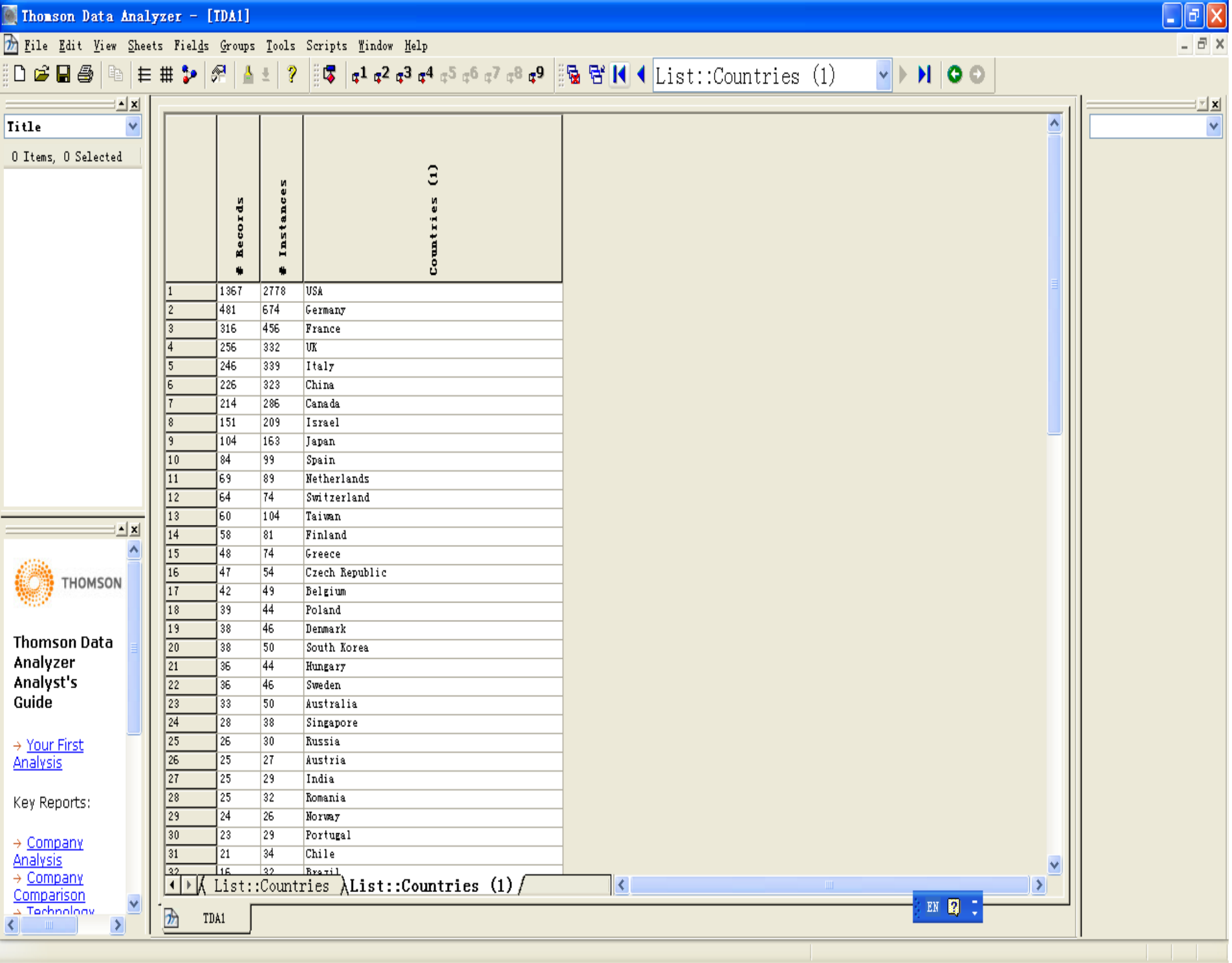
文件类型(T): Thesaurus files (*.the)
Use
取消
Country thesaurus



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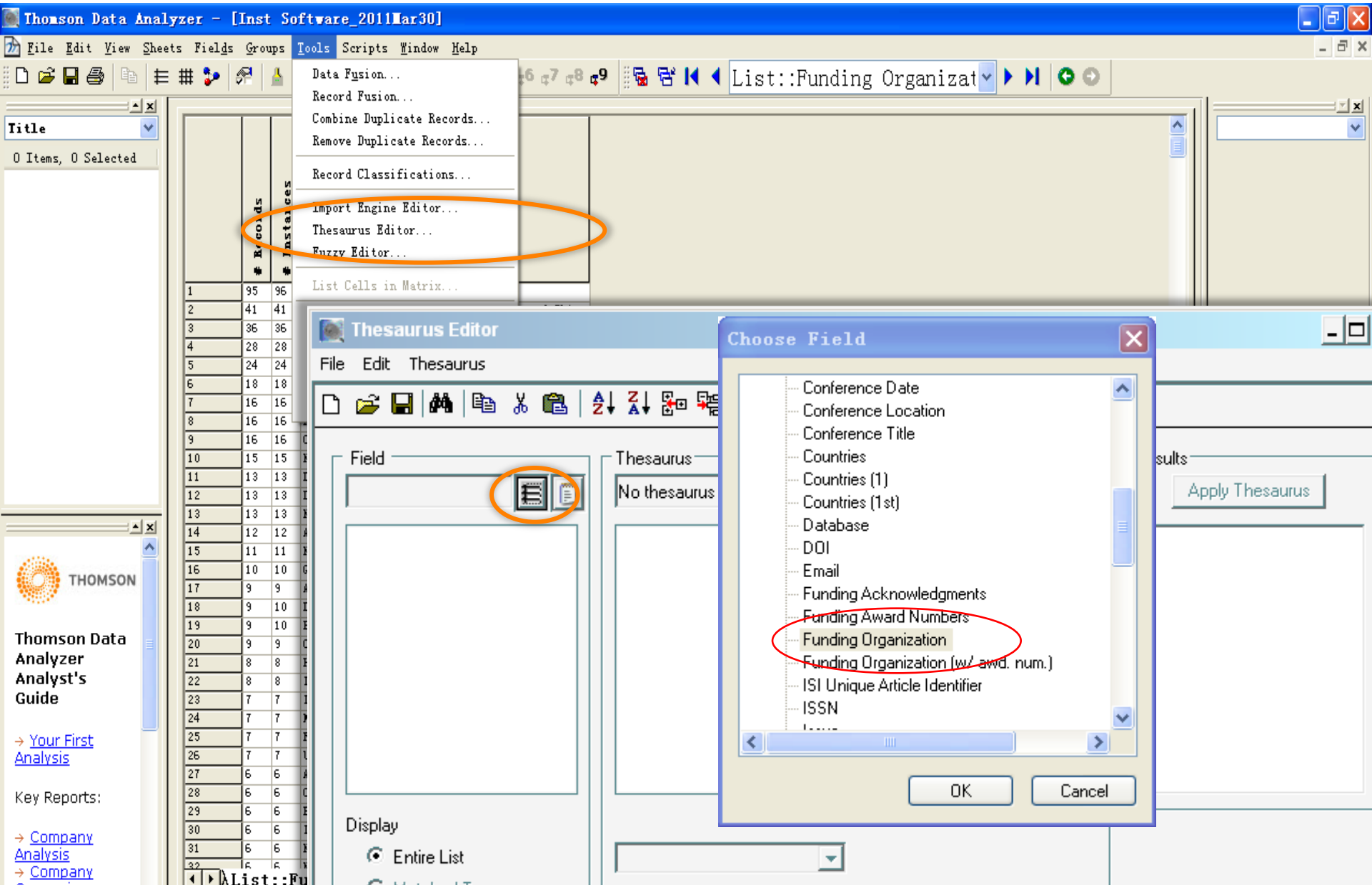
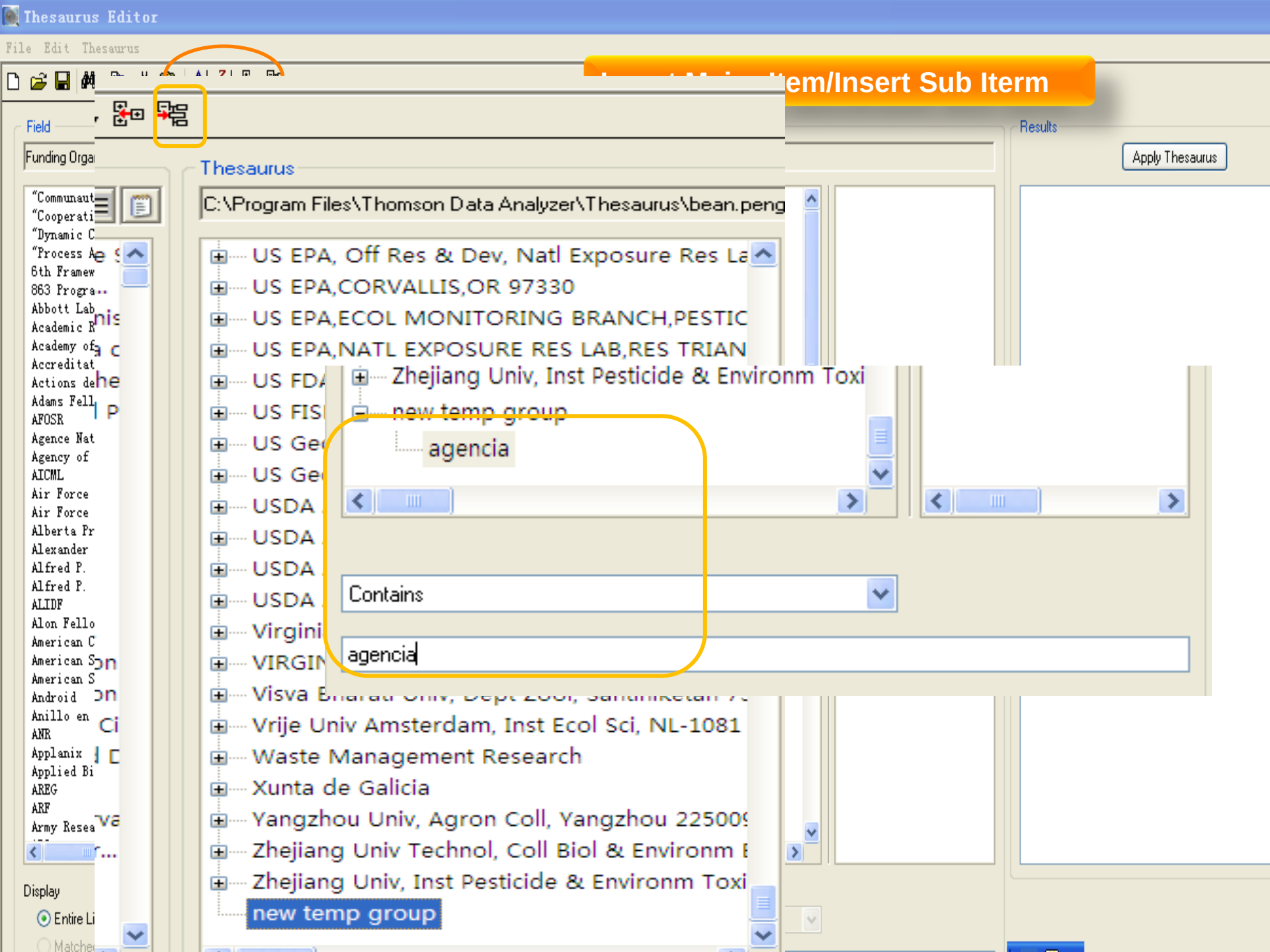
4	256	332	UK
5	246	339	Italy
6	226	323	China
7	214	286	Canada
8	151	209	Israel
9	104	163	Japan
10	84	99	Spain
11	69	89	Netherlands
12	64	74	Switzerland
13	60	104	Taiwan
14	58	81	Finland
15	48	74	Greece
16	47	54	Czech Republic
17	42	49	Belgium
18	39	44	Poland
19	38	46	Denmark
20	38	50	South Korea
21	36	44	Hungary
22	36	46	Sweden
23	33	50	Australia
24	28	38	Singapore
25	26	30	Russia
26	25	27	Austria
27	25	29	India
28	25	32	Romania
29	24	26	Norway
30	23	29	Portugal
31	21	34	Chile
32	16	32	Brazil

利用叙词编辑器编辑叙词表




Thesaurus Editor
File Edit Thesaurus
tem/Insert Sub Iterm
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Thesaurus
C:\Program Files\Thomson Data Analyzer\Thesaurus\bean.peng
US EPA, Off Res & Dev, Natl Exposure Res La
US EPA,CORVALLIS,OR 97330
US EPA,ECOL MONITORING BRANCH,PESTIC
US EPA,NATL EXPOSURE RES LAB,RES TRIAN
Zhejiang Univ, Inst Pesticide & Environm Toxi
new temp group
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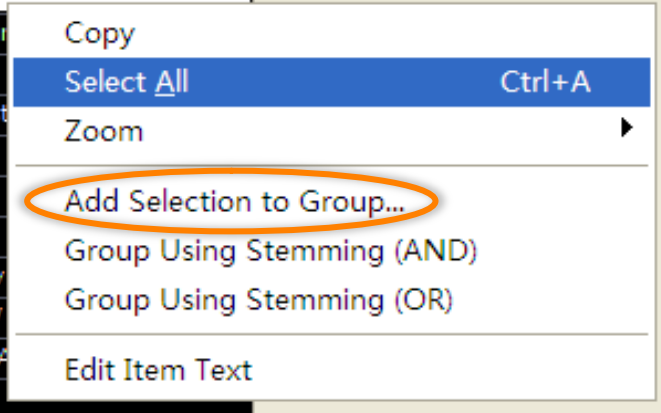
Contains
agencia
Vrije Univ Amsterdam, Inst Ecol Sci, NL-1081
Waste Management Research
Xunta de Galicia
Zhejiang Univ Technol, Coll Biol & Environm
Zhejiang Univ, Inst Pesticide & Environm Toxi
new temp group
Results
Apply Thesaurus
Display

数据清理之Group

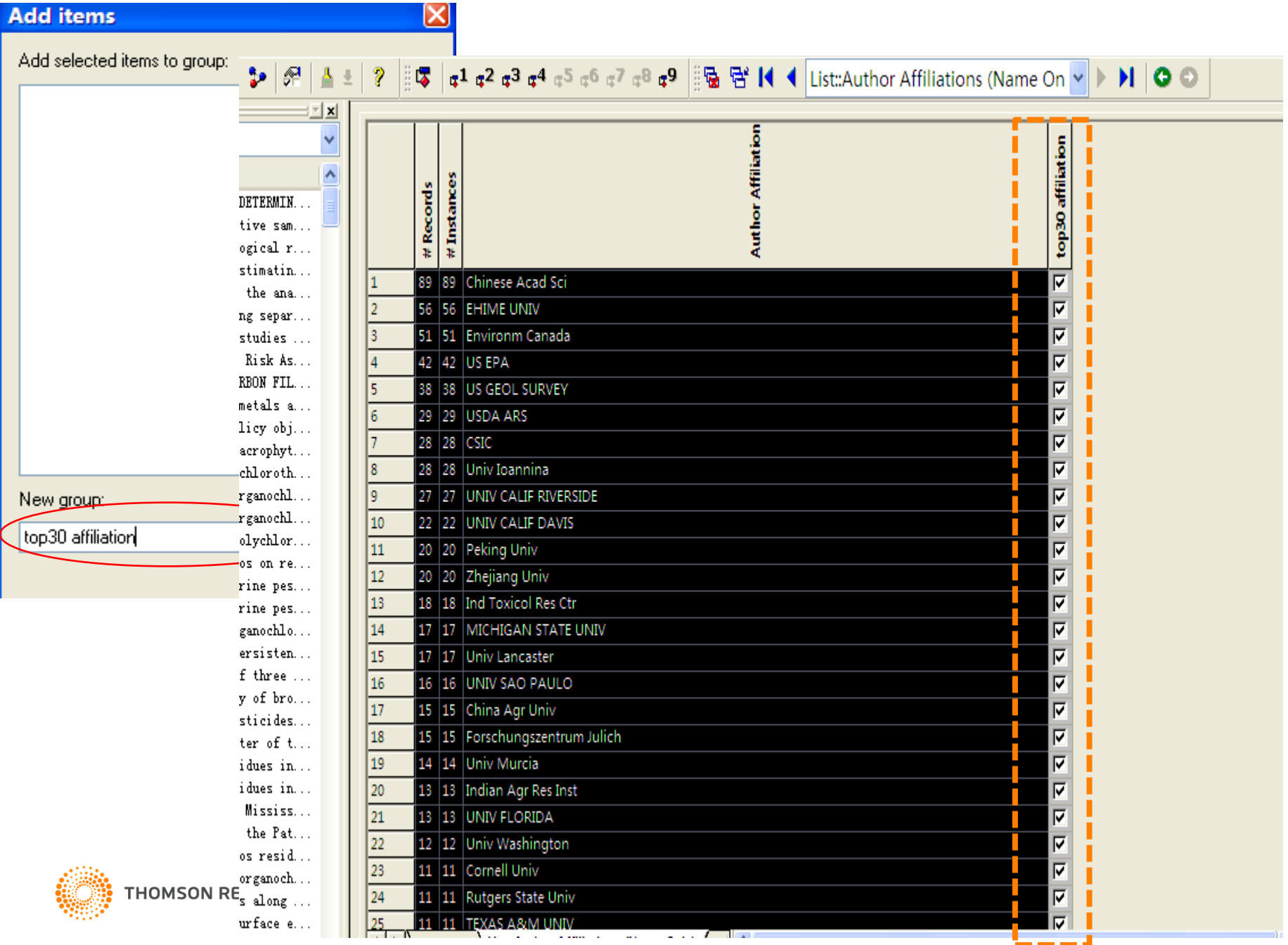
- 数据列表中的项目可以被标记到一个集合或者一个组之中
- 分组功能对于减少共现矩阵的大小非常有帮助
- 将数据集合中的数据提取出来形成一个新的数据集合并对其加以定义.

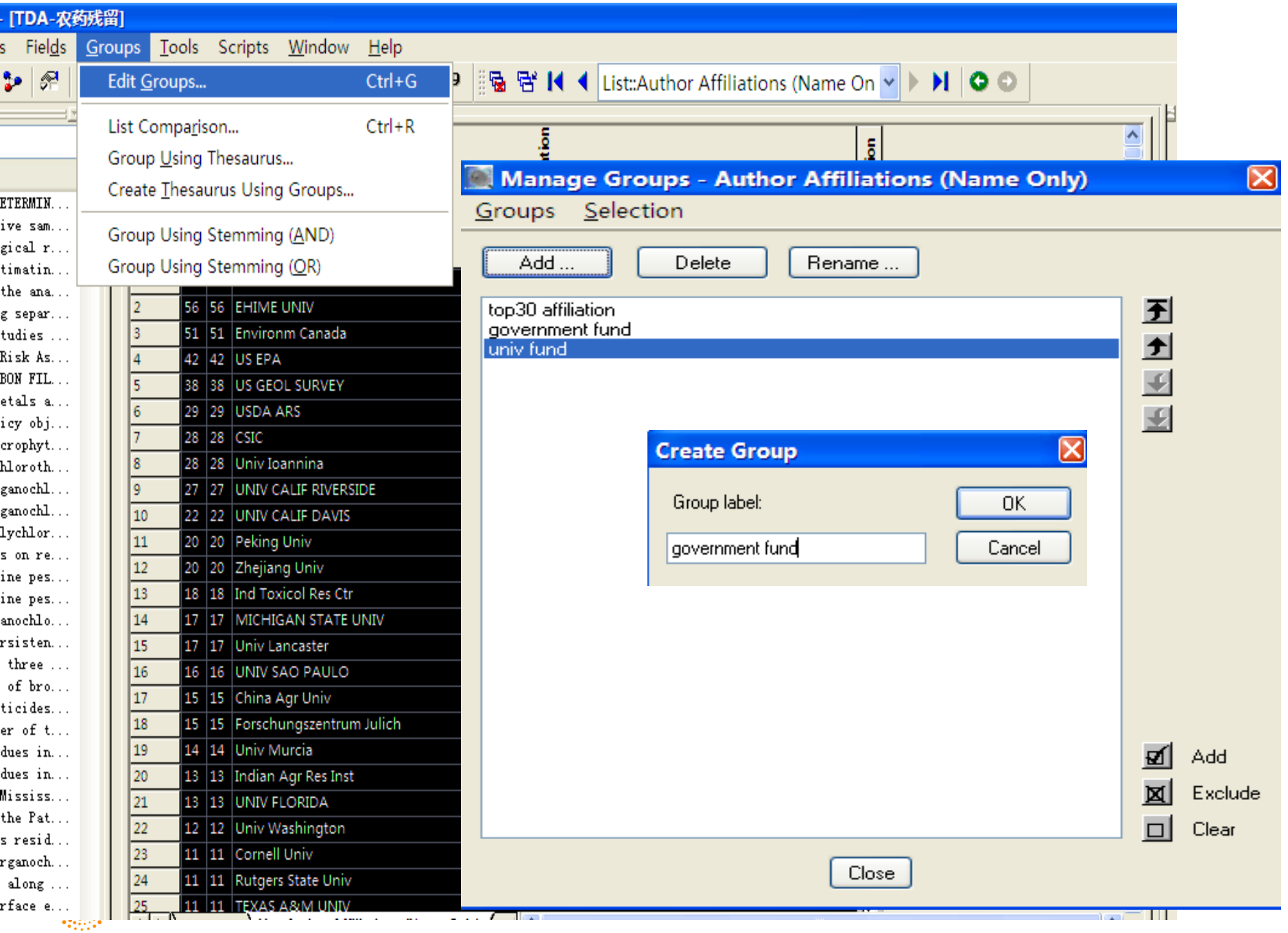
形成Top30研究机构组成(选中并用右键)

	# Records	# Instances	Author Affiliation
11	20	20	Peking Univ
12	20	20	Zhejiang Univ
13	18	18	Ind Toxicol Res Ctr
14	17	17	MICHIGAN STATE UNIV
15	17	17	Univ Lancaster
16	16	16	UNIV SAO PAULO
17	15	15	China Agr Univ
18	15	15	Forschungszentru
19	14	14	Univ Murcia
20	13	13	Indian Agr Res Inst
21	13	13	UNIV FLORIDA
22	12	12	Univ Washington
23	11	11	Cornell Univ
24	11	11	Rutgers State Univ
25	11	11	TEXAS A&M UNIV
26	11	11	UNIV ALEXANDRIA
27	11	11	Univ Bari
28	10	10	Benaki Phytopathol Inst
29	10	10	Gazi Univ
30	10	10	Meteorol Serv Canada
31	10	10	Oregon State Univ
32	10	10	UNIV CALIF BERKELEY
33	10	10	Univ Veracruz
34	9	9	Canadian Wildlife Serv
35	9	9	FED BIOL RES CTR AGR & FORESTRY

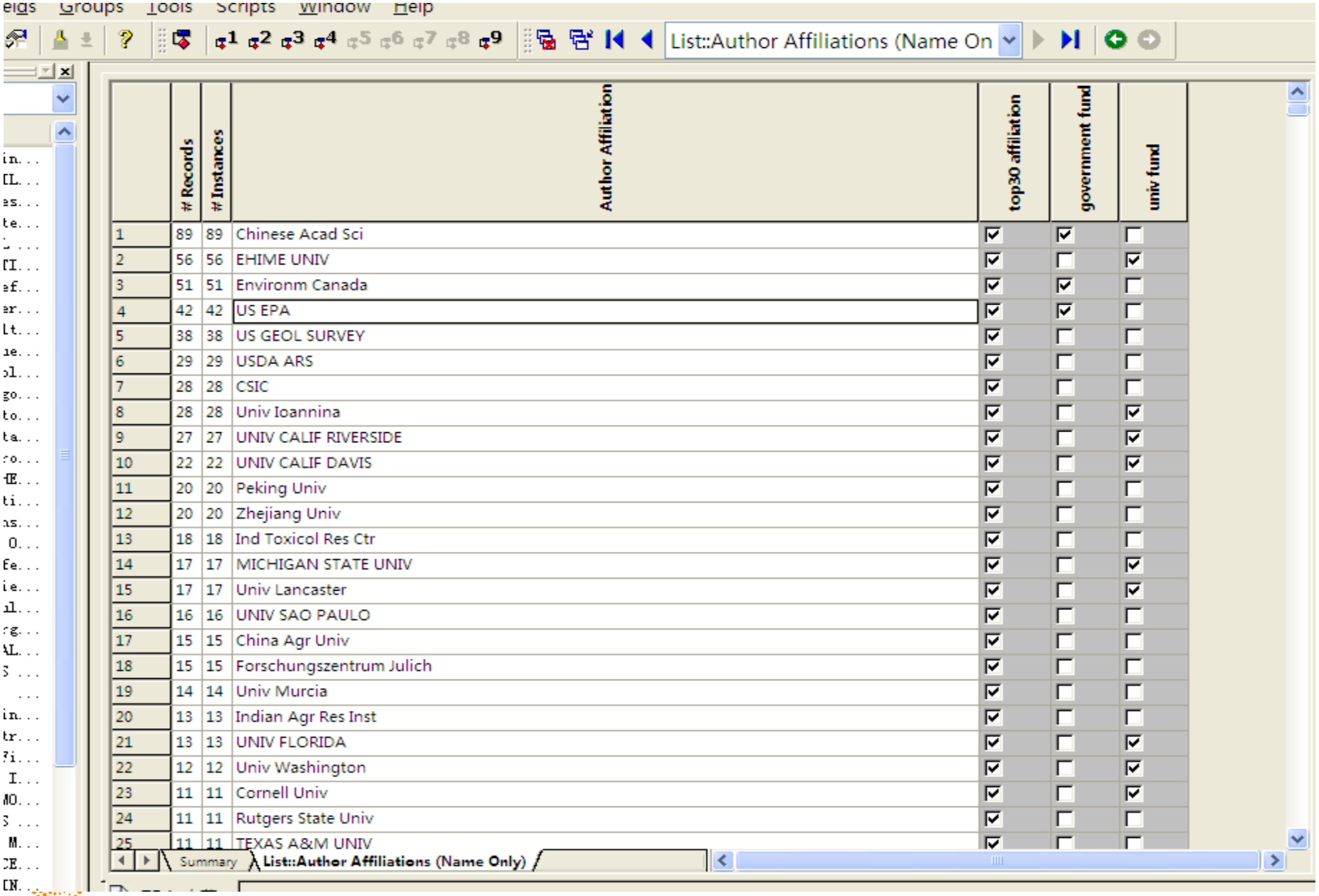


Summary | List::Author Affiliations (Name Only)


Add items
Add selected items to group:
New group:
top30 affiliation
List::Author Affiliations (Name On
Records
Instances
Author Affiliation
top30 affiliation
1 89 89 Chinese Acad Sci
2 56 56 EHIME UNIV
3 51 51 Environm Canada
4 42 42 US EPA
5 38 38 US GEOL SURVEY
6 29 29 USDA ARS
7 28 28 CSIC
8 28 28 Univ Ioannina
9 27 27 UNIV CALIF RIVERSIDE
10 22 22 UNIV CALIF DAVIS
11 20 20 Peking Univ
12 20 20 Zhejiang Univ
13 18 18 Ind Toxicol Res Ctr
14 17 17 MICHIGAN STATE UNIV
15 17 17 Univ Lancaster
16 16 16 UNIV SAO PAULO
17 15 15 China Agr Univ
18 15 15 Forschungszentrum Julich
19 14 14 Univ Murcia
20 13 13 Indian Agr Res Inst
21 13 13 UNIV FLORIDA
22 12 12 Univ Washington
23 11 11 Cornell Univ
24 11 11 Rutgers State Univ
25 11 11 TEXAS A&M UNIV


[TDA-农药残留]
Fields
Groups
Tools
Scripts
Window
Help
Edit Groups... Ctrl+G
List Comparison... Ctrl+R
Group Using Thesaurus...
Create Thesaurus Using Groups...
Group Using Stemming (AND)
Group Using Stemming (OR)
List::Author Affiliations (Name On
Manage Groups - Author Affiliations (Name Only)
Groups
Selection
Add ...
Delete
Rename ...
top30 affiliation
government fund
univ fund
Create Group
Group label:
government fund
OK
Cancel
Add
Exclude
Clear
Close
2 56 56 EHIME UNIV
3 51 51 Environm Canada
4 42 42 US EPA
5 38 38 US GEOL SURVEY
6 29 29 USDA ARS
7 28 28 CSIC
8 28 28 Univ Ioannina
9 27 27 UNIV CALIF RIVERSIDE
10 22 22 UNIV CALIF DAVIS
11 20 20 Peking Univ
12 20 20 Zhejiang Univ
13 18 18 Ind Toxicol Res Ctr
14 17 17 MICHIGAN STATE UNIV
15 17 17 Univ Lancaster
16 16 16 UNIV SAO PAULO
17 15 15 China Agr Univ
18 15 15 Forschungszentrum Julich
19 14 14 Univ Murcia
20 13 13 Indian Agr Res Inst
21 13 13 UNIV FLORIDA
22 12 12 Univ Washington
23 11 11 Cornell Univ
24 11 11 Rutgers State Univ
25 11 11 TEXAS A&M UNIV

分组



	# Records	# Instances	Author Affiliation	top30 affiliation	government fund	univ fund
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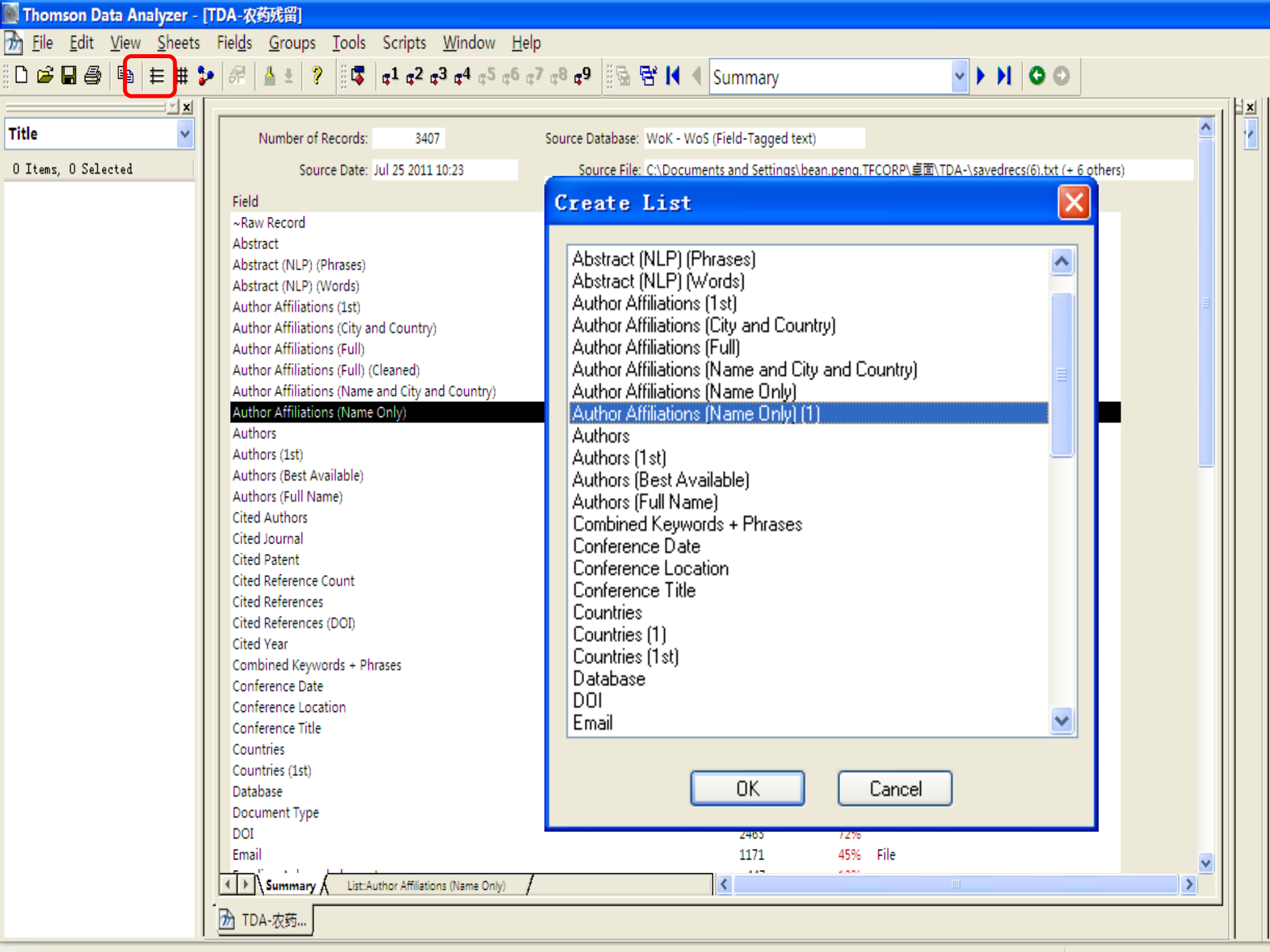
2	56	56	EHIME UNIV	☑	☐	☑
3	51	51	Environm Canada	☑	☑	☐
4	42	42	US EPA	☑	☑	☐
5	38	38	US GEOL SURVEY	☑	☐	☐
6	29	29	USDA ARS	☑	☐	☐
7	28	28	CSIC	☑	☐	☐
8	28	28	Univ Ioannina	☑	☐	☑
9	27	27	UNIV CALIF RIVERSIDE	☑	☐	☑
10	22	22	UNIV CALIF DAVIS	☑	☐	☑
11	20	20	Peking Univ	☑	☐	☐
12	20	20	Zhejiang Univ	☑	☐	☐
13	18	18	Ind Toxicol Res Ctr	☑	☐	☐
14	17	17	MICHIGAN STATE UNIV	☑	☐	☑
15	17	17	Univ Lancaster	☑	☐	☑
16	16	16	UNIV SAO PAULO	☑	☐	☐
17	15	15	China Agr Univ	☑	☐	☐
18	15	15	Forschungszentrum Julich	☑	☐	☐
19	14	14	Univ Murcia	☑	☐	☐
20	13	13	Indian Agr Res Inst	☑	☐	☐
21	13	13	UNIV FLORIDA	☑	☐	☑
22	12	12	Univ Washington	☑	☐	☑
23	11	11	Cornell Univ	☑	☐	☑
24	11	11	Rutgers State Univ	☑	☐	☐
25	11	11	TEXAS A&M UNIV	☑	☐	☐

提纲

- Thomson Data Analyzer概况
- 数据导入与数据管理
- 数据清理/数据结构化
- 数据分析
- 生成报告

数据分析

- List：一维分析
- 矩阵分析：二维分析
- Map：最好利用分过组的数据进行分析
- 预制的分析模块 ： 三维分析/分析报告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File Edit View Sheets Fields Groups Tools Scripts Window Help
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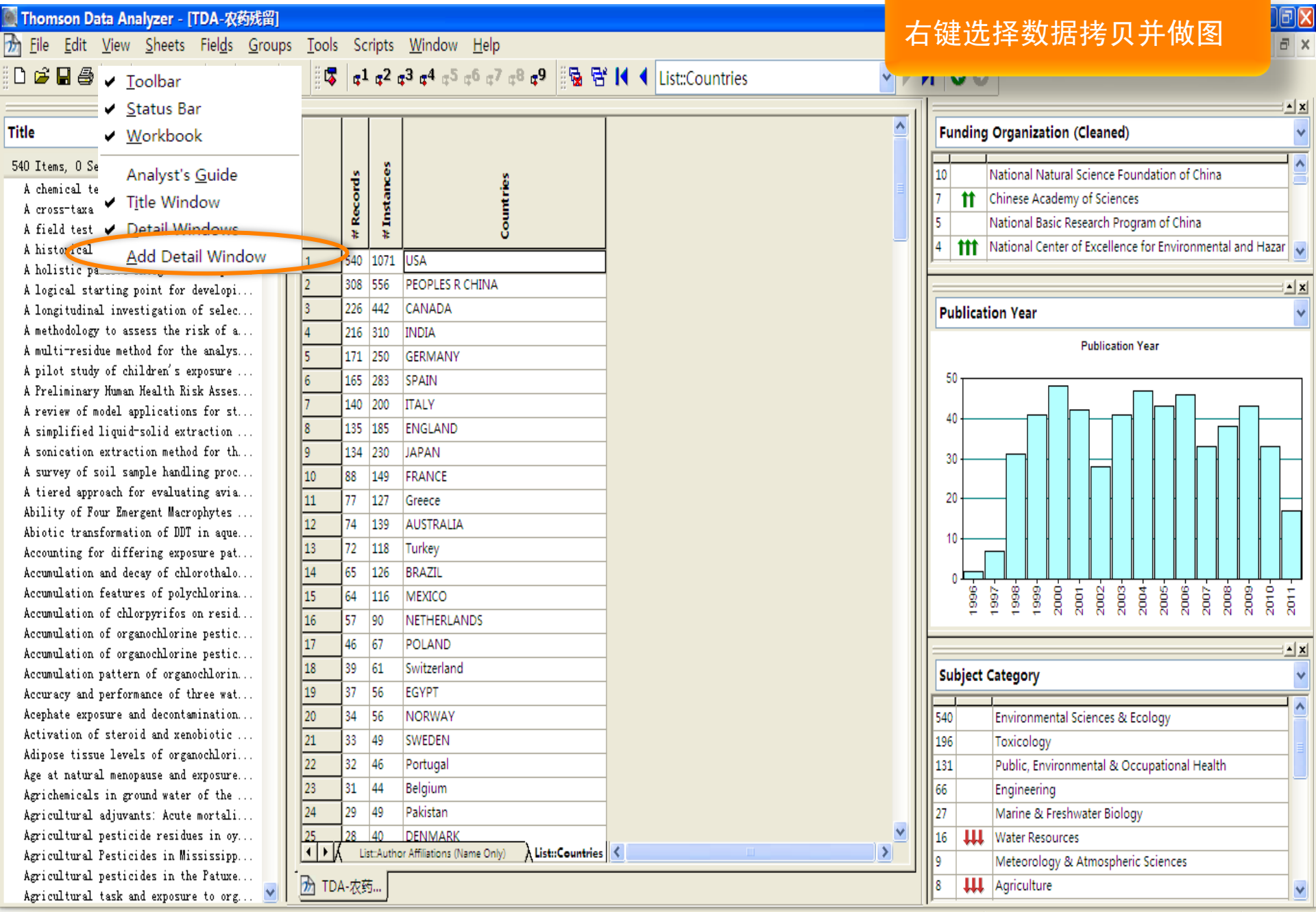
Source Date: Jul 25 2011 10:23
Source File: C:\Documents and Settings\bean.peng.TFCORP\桌面\TDA-\savedrecs(6).txt (+ 6 others)
Field
~Raw Record
Abstract
Abstract (NLP) (Phrases)
Abstract (NLP) (Words)
Author Affiliations (1st)
Author Affiliations (City and Country)
Author Affiliations (Full)
Author Affiliations (Full) (Cleaned)
Author Affiliations (Name and City and Country)
Author Affiliations (Name Only)
Authors
Authors (1st)
Authors (Best Available)
Authors (Full Name)
Cited Authors
Cited Journal
Cited Patent
Cited Reference Count
Cited References
Cited References (DOI)
Cited Year
Combined Keywords + Phrases
Conference Date
Conference Location
Conference Title
Countries
Countries (1st)
Database
Document Type
DOI
Email
1171 45% File
Summary
List:Author Affiliations (Name Only)
TDA-农药...
Create List
Abstract (NLP) (Phrases)
Abstract (NLP) (Words)
Author Affiliations (1st)
Author Affiliations (City and Country)
Author Affiliations (Full)
Author Affiliations (Name and City and Country)
Author Affiliations (Name Only)
Author Affiliations (Name Only) (1)
Authors
Authors (1st)
Authors (Best Available)
Authors (Full Name)
Combined Keywords + Phrases
Conference Date
Conference Location
Conference Title
Countries
Countries (1)
Countries (1st)
Database
DOI
Email
OK
Cancel

地区覆盖（文献发表国一维分析）

右键选择数据拷贝并做图



Thomson Data Analyzer - [TDA-农药残留]

File Edit View Sheets Fields Groups Tools Scripts Window Help

List::Countries

Title

540 Items, 0 Selected

- A chemical test for determining biolo...
- A cross-taxa survey of organochlorine...
- A field test of the quotient method f...
- A historical assessment of coastal co...
- A holistic passive integrative sampli...
- A logical starting point for developi...
- A longitudinal investigation of selec...
- A methodology to assess the risk of a...
- A multi-residue method for the analys...
- A pilot study of children's exposure ...
- A Preliminary Human Health Risk Asses...
- A review of model applications for st...
- A simplified liquid-solid extraction ...
- A sonication extraction method for th...
- A survey of soil sample handling proc...
- A tiered approach for evaluating avia...
- Ability of Four Emergent Macrophytes ...
- Abiotic transformation of DDT in aque...
- Accounting for differing exposure pat...
- Accumulation and decay of chlorothalo...
- Accumulation features of polychlorina...
- Accumulation of chlorpyrifos on resid...
- Accumulation of organochlorine pestic...
- Accumulation of organochlorine pestic...
- Accumulation pattern of organochlorin...
- Accuracy and performance of three wat...
- Acephate exposure and decontamination...
- Activation of steroid and xenobiotic ...
- Adipose tissue levels of organochlori...
- Age at natural menopause and exposure...
- Agrichemicals in ground water of the ...
- Agricultural adjuvants: Acute mortali...
- Agricultural pesticide residues in oy...
- Agricultural Pesticides in Mississipp...
- Agricultural pesticides in the Patuxe...
- Agricultural task and exposure to org...

	# Records	# Instances	Countries
1	540	1071	USA
2	308	556	PEOPLES R CHINA
3	226	442	CANADA
4	216	310	INDIA
5	171	250	GERMANY
6	165	283	SPAIN
7	140	200	ITALY
8	135	185	ENGLAND
9	134	230	JAPAN
10	88	149	FRANCE
11	77	127	Greece
12	74	139	AUSTRALIA
13	72	118	Turkey
14	65	126	BRAZIL
15	64	116	MEXICO
16	57	90	NETHERLANDS
17	46	67	POLAND
18	39	61	Switzerland
19	37	56	EGYPT
20	34	56	NORWAY
21	33	49	SWEDEN
22	32	46	Portugal
23	31	44	Belgium
24	29	49	Pakistan
25	28	40	DENMARK

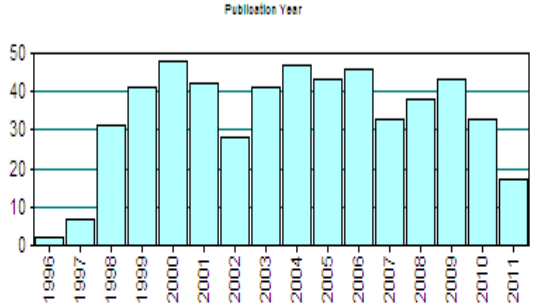
List:Author Affiliations (Name Only) | List::Countries

TDA-农药...

Funding Organization (Cleaned)

10		National Natural Science Foundation of China
7	↑↑	Chinese Academy of Sciences

Publication Year

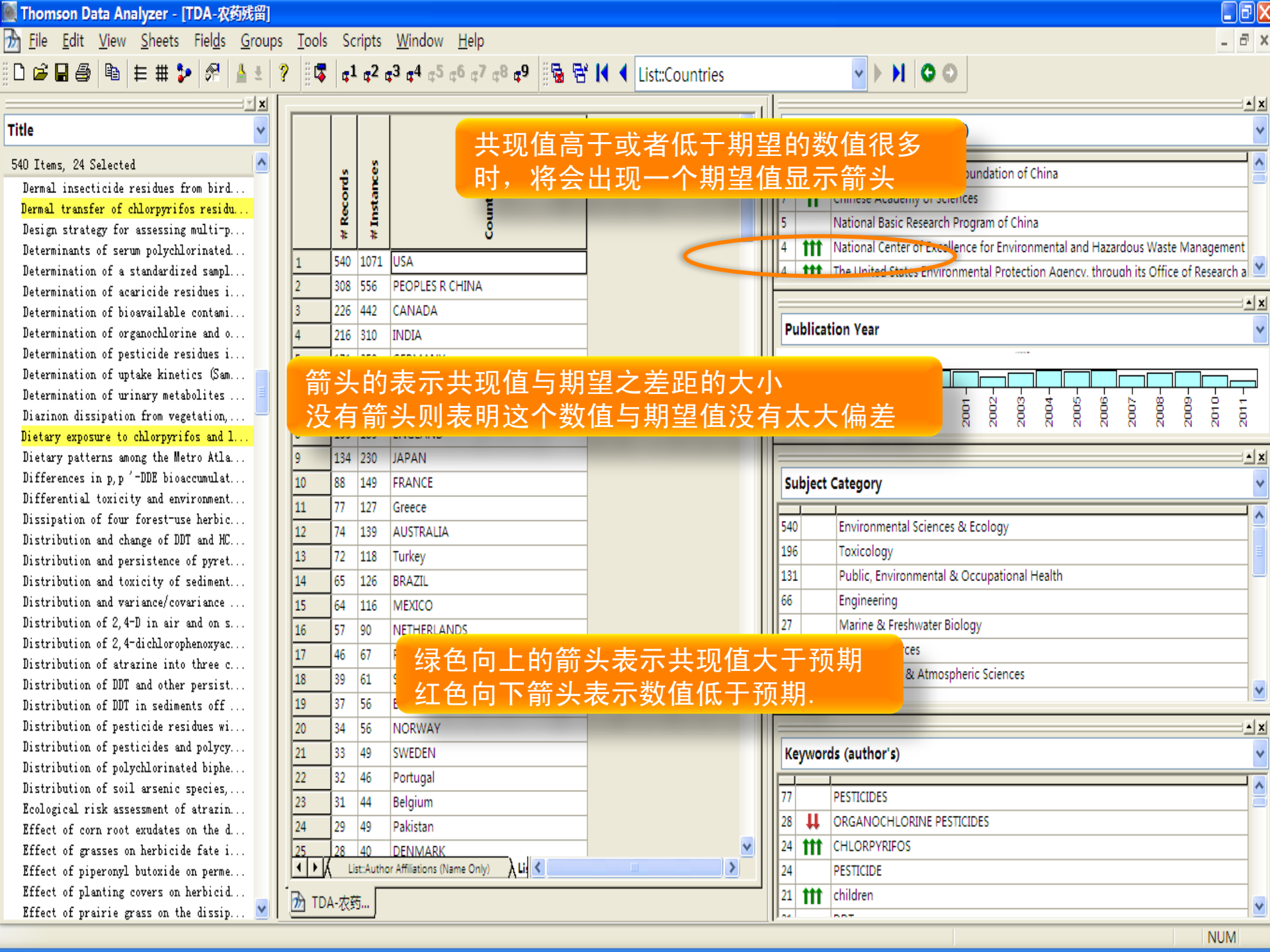


Subject Category

540		Environmental Sciences & Ecology
196		Toxicology
131		Public, Environmental & Occupational Health
66		Engineering
27		Marine & Freshwater Biology

Keywords (author's)

77		PESTICIDES
28	↓↓	ORGANOCHLORINE PESTICIDES
24	↑↑↑	CHLORPYRIFOS
24		PESTICIDE
21	↑↑↑	children


Thomson Data Analyzer - [TDA-农药残留]
File Edit View Sheets Fields Groups Tools Scripts Window Help
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Title
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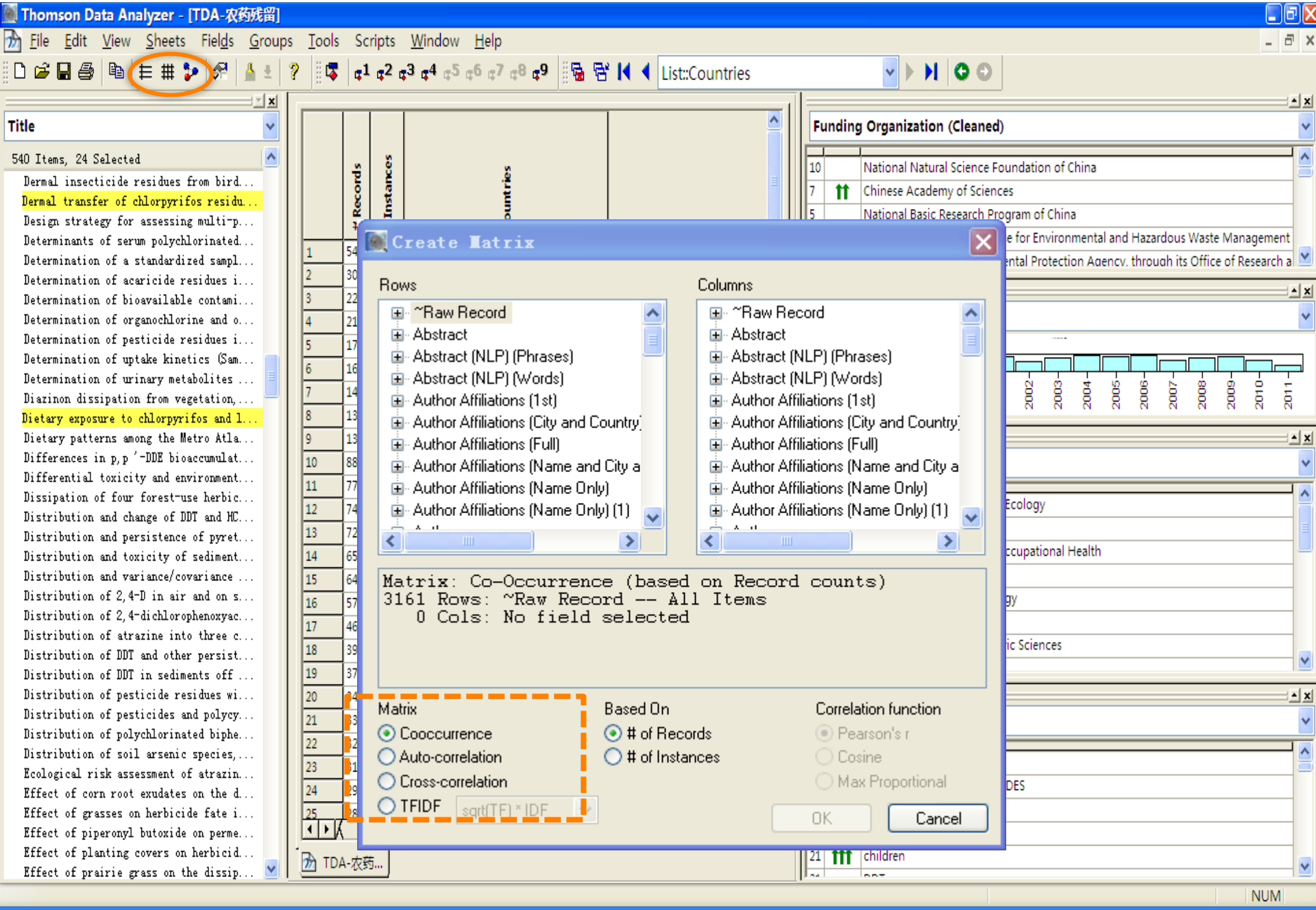
Dermal insecticide residues from bird...
Dermal transfer of chlorpyrifos residu...
Design strategy for assessing multi-p...
Determinants of serum polychlorinated...
Determination of a standardized sampl...
Determination of acaricide residues i...
Determination of bioavailable contami...
Determination of organochlorine and o...
Determination of pesticide residues i...
Determination of uptake kinetics (Sam...
Determination of urinary metabolites ...
Diazinon dissipation from vegetation, ...
Dietary exposure to chlorpyrifos and l...
Dietary patterns among the Metro Atla...
Differences in p,p'-DDE bioaccumulat...
Differential toxicity and environment...
Dissipation of four forest-use herbic...
Distribution and change of DDT and HC...
Distribution and persistence of pyret...
Distribution and toxicity of sediment...
Distribution and variance/covariance ...
Distribution of 2,4-D in air and on s...
Distribution of 2,4-dichlorophenoxyac...
Distribution of atrazine into three c...
Distribution of DDT and other persist...
Distribution of DDT in sediments off ...
Distribution of pesticide residues wi...
Distribution of pesticides and polycy...
Distribution of polychlorinated biphe...
Distribution of soil arsenic species, ...
Ecological risk assessment of atrazin...
Effect of corn root exudates on the d...
Effect of grasses on herbicide fate i...
Effect of piperonyl butoxide on perme...
Effect of planting covers on herbicid...
Effect of prairie grass on the dissip...
Records
Instances
Count
1 540 1071 USA
2 308 556 PEOPLES R CHINA
3 226 442 CANADA
4 216 310 INDIA
9 134 230 JAPAN
10 88 149 FRANCE
11 77 127 Greece
12 74 139 AUSTRALIA
13 72 118 Turkey
14 65 126 BRAZIL
15 64 116 MEXICO
16 57 90 NETHERLANDS
17 46 67
18 39 61
19 37 56
20 34 56 NORWAY
21 33 49 SWEDEN
22 32 46 Portugal
23 31 44 Belgium
24 29 49 Pakistan
25 28 40 DENMARK
List:Author Affiliations (Name Only)
TDA-农药...
共现值高于或者低于期望的数值很多时，将会出现一个期望值显示箭头
5 National Basic Research Program of China
4 National Center of Excellence for Environmental and Hazardous Waste Management
Publication Year
2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011
箭头的表示共现值与期望之差距的大小
没有箭头则表明这个数值与期望值没有太大偏差
Subject Category
540 Environmental Sciences & Ecology
196 Toxicology
131 Public, Environmental & Occupational Health
66 Engineering
27 Marine & Freshwater Biology
& Atmospheric Sciences
绿色向上的箭头表示共现值大于预期
红色向下箭头表示数值低于预期.
Keywords (author's)
77 PESTICIDES
28 ORGANOCHLORINE PESTICIDES
24 CHLORPYRIFOS
24 PESTICIDE
21 children
NUM

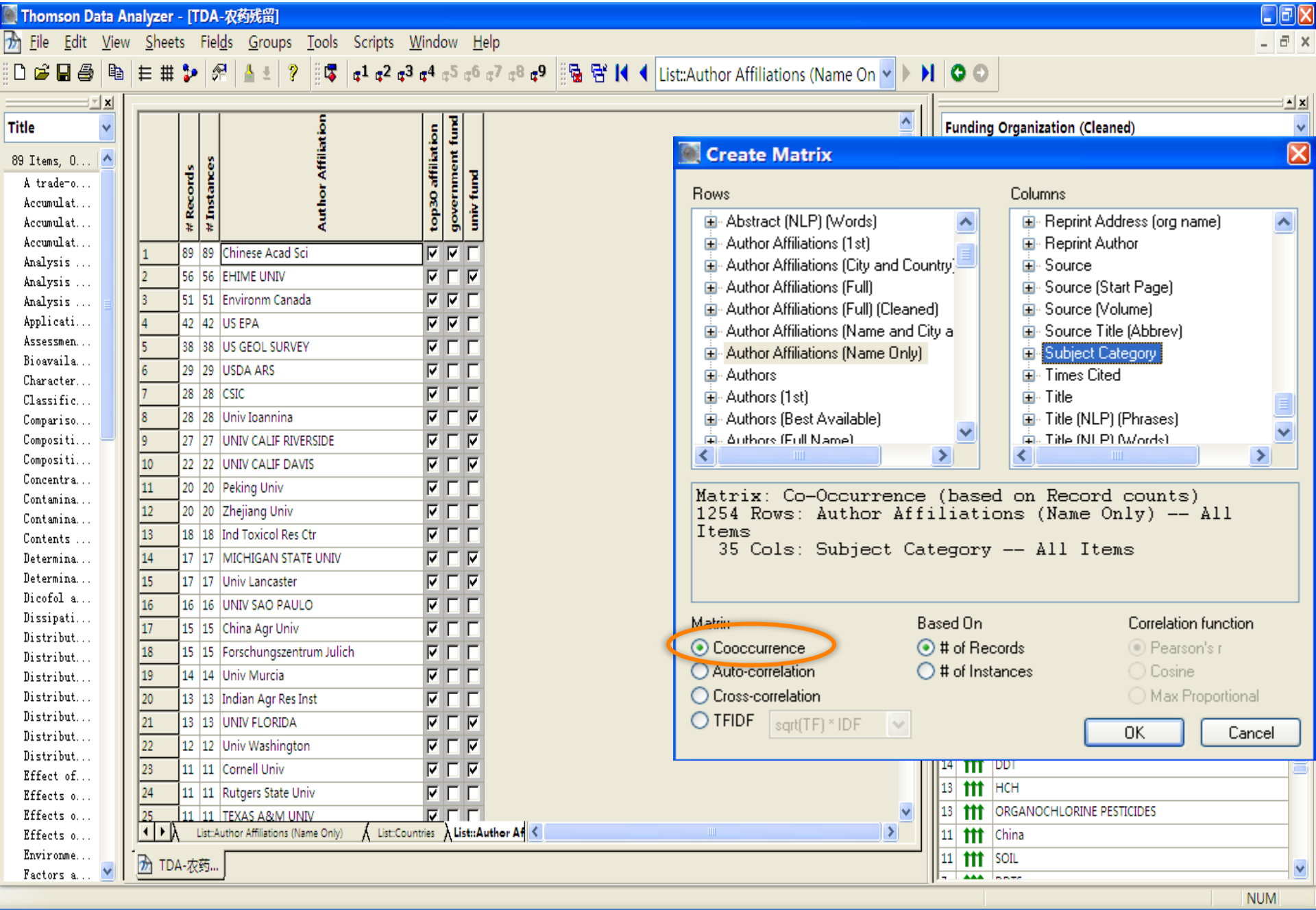
二维矩阵分析


Thomson Data Analyzer - [TDA-农药残留]
File Edit View Sheets Fields Groups Tools Scripts Window Help
List::Countries
Title
540 Items, 24 Selected
Dermal insecticide residues from bird...
Dermal transfer of chlorpyrifos residu...
Design strategy for assessing multi-p...
Determinants of serum polychlorinated...
Determination of a standardized sampl...
Determination of acaricide residues i...
Determination of bioavailable contami...
Determination of organochlorine and o...
Determination of pesticide residues i...
Determination of uptake kinetics (Sam...
Determination of urinary metabolites ...
Diazinon dissipation from vegetation,...
Dietary exposure to chlorpyrifos and l...
Dietary patterns among the Metro Atla...
Differences in p,p'-DDE bioaccumulat...
Differential toxicity and environment...
Dissipation of four forest-use herbic...
Distribution and change of DDT and HC...
Distribution and persistence of pyret...
Distribution and toxicity of sediment...
Distribution and variance/covariance ...
Distribution of 2,4-D in air and on s...
Distribution of 2,4-dichlorophenoxyac...
Distribution of atrazine into three c...
Distribution of DDT and other persist...
Distribution of DDT in sediments off ...
Distribution of pesticide residues wi...
Distribution of pesticides and polycy...
Distribution of polychlorinated biphe...
Distribution of soil arsenic species,...
Ecological risk assessment of atrazin...
Effect of corn root exudates on the d...
Effect of grasses on herbicide fate i...
Effect of piperonyl butoxide on perme...
Effect of planting covers on herbicid...
Effect of prairie grass on the dissip...
Records
Instances
Countries
Funding Organization (Cleaned)
National Natural Science Foundation of China
Chinese Academy of Sciences
National Basic Research Program of China
Create Matrix
Rows
Columns
~Raw Record
Abstract
Abstract (NLP) (Phrases)
Abstract (NLP) (Words)
Author Affiliations (1st)
Author Affiliations (City and Country)
Author Affiliations (Full)
Author Affiliations (Name and City a
Author Affiliations (Name Only)
Author Affiliations (Name Only) (1)
Matrix: Co-Occurrence (based on Record counts)
3161 Rows: ~Raw Record -- All Items
0 Cols: No field selected
Matrix
Cooccurrence
Auto-correlation
Cross-correlation
TFIDF
sqrt(TF) * IDF
Based On
# of Records
# of Instances
Correlation function
Pearson's r
Cosine
Max Proportional
OK
Cancel
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011
Ecology
Occupational Health
Sciences
children
TDA-农药...
NUM

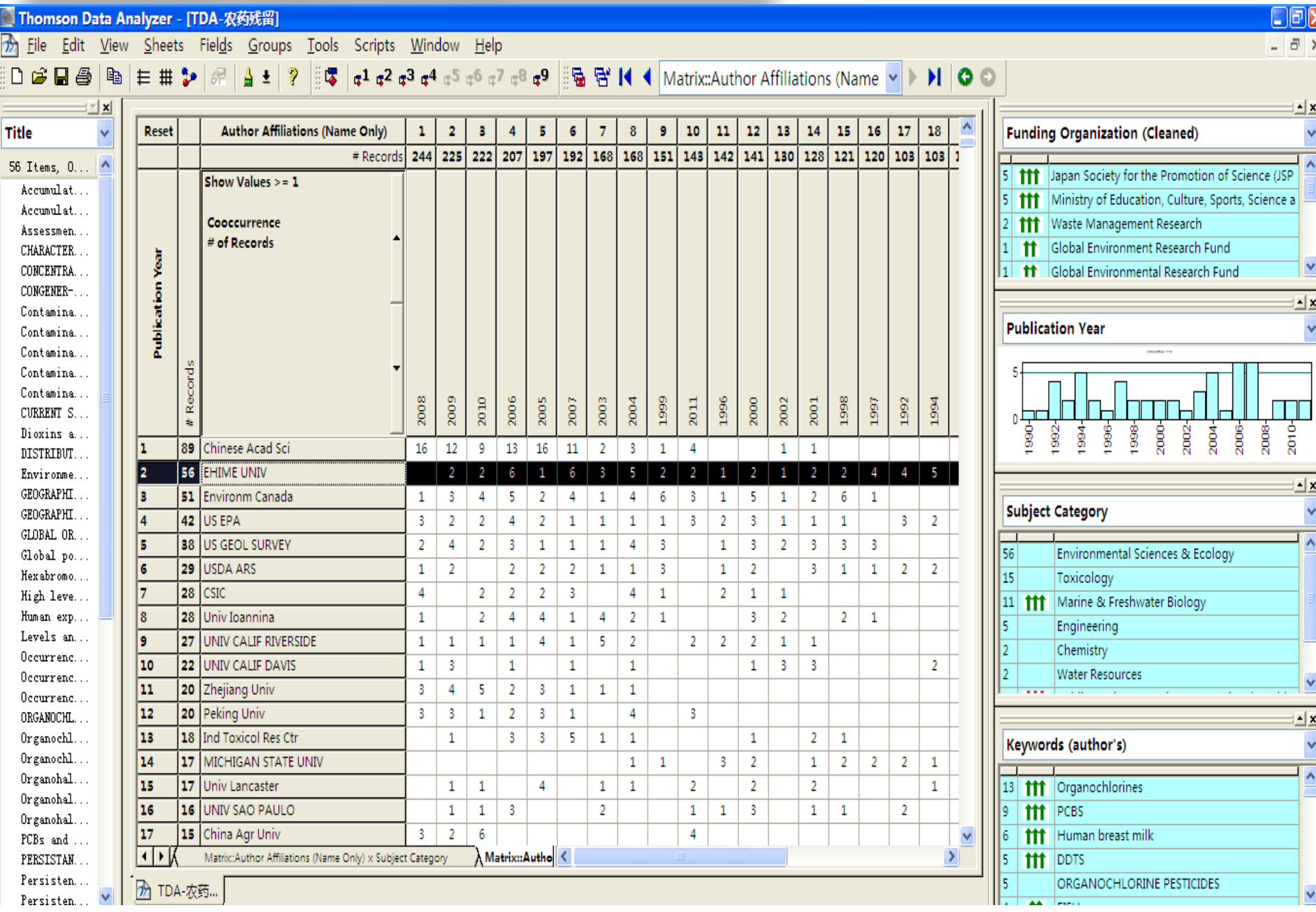
矩阵分析的类型：

- **同现矩阵（Co-occurrence Matrix)：**寻找同时出现在两个矩阵参数中的记录
- **自相关系数矩阵（Auto-Correlation Matrix)** ：利用矩阵分析在相同的字段中，寻找关系密切的项目。如寻找合作密切的公司、发明人，自相关系数矩阵只适用于有多个数值的字段。
- **互相关系数矩阵（Cross-Correlation Matrix):**利用矩阵分析在不同字段中，寻找关系密切的项目。如在相同领域研发相似的专利权人

同现矩阵（Co-occurrence Matrix)



时间序列分析 （出版年）（共现矩阵）



同现矩阵---各个研究机构的研究学科领域分布

File Edit View Sheets Fields Groups Tools Scripts Window Help

Matrix::Author Affiliations (Name

Title

28 Items, 0 S...

Assessment o...
Assessment o...
Behaviour of...
Bivalves res...
Contribution...
DEGRADATION ...
Disappearanc...
Effect of ve...
Enhanced des...
EXTRACTION, ...
Fate of sele...
Hexazinone a...
INFLUENCE OF...
Lead, PCBs a...
Levels of po...
MONITORING O...
Occurrence o...
ORGANOCHLORI...
PCBS AND CHL...
Persistence ...
Persistent o...
Priority pes...
Relationship...
Results and ...
Surfactant-e...
Time-depende...
TOXICITY AND...
Trace organi...

Reset		Author Affiliations (Name Only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		# Records	3407	963	475	321	194	192	187	132	92	54	20	9	8	8	7	5	3	3	2
Subject Category	# Records	Show Values >= 1 Cooccurrence # of Records	Environmental Sciences & Ecology	Toxicology	Public, Environmental & Occupational	Engineering	Water Resources	Agriculture	Chemistry	Marine & Freshwater Biology	Entomology	Meteorology & Atmospheric Sciences	Geology	Pharmacology & Pharmacy	Biotechnology & Applied Microbiolog	Biochemistry & Molecular Biology	Physical Geography	Biodiversity & Conservation	Plant Sciences	Life Sciences & Biomedicine - Other Tc	Mathematics
1	89	Chinese Acad Sci	89	25	8	14	7	1	2	2		2				1					
2	56	EHIME UNIV	56	15	1	5	2		2	11											
3	51	Environm Canada	51	18	6	9	1			3		2									
4	42	US EPA	42	11	15	6	1	5		2	5	2									
5	38	US GEOL SURVEY	38	18		7		2		1	2										
6	29	USDA ARS	29	5		3	1			1											
7	28	CSIC	28	2		7			1	2											
8	28	Univ Ioannina	28	3		7	2		7	1											
9	27	UNIV CALIF RIVERSIDE	27	13	7	2	1			2											
10	22	UNIV CALIF DAVIS	22	8	3	2	1						1								
11	20	Zhejiang Univ	20	3	4	1									1						
12	20	Peking Univ	20	2	1	9				2											
13	18	Ind Toxicol Res Ctr	18	12	2		2					2									
14	17	MICHIGAN STATE UNIV	17	10	2	1															
15	17	Univ Lancaster	17		1	5															
16	16	UNIV SAO PAULO	16	5	3		2	1		2		1	1				1				
17	15	China Agr Univ	15	10		1			2												

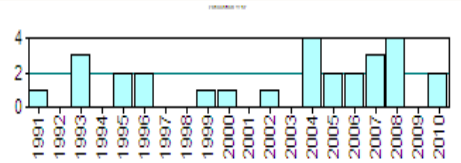
List::Countries | List::Author Affiliations (Name Only) | Matrix::Author Affil

TDA-农药...

Funding Organization (Cleaned)

1	Agencia Espanola de Cooperacion Internacional
1	Energy, Environmental and Sustainable Develop
1	Junta de Andalucia
1	SCARCE
1	Spanish Ministry of Education

Publication Year



Subject Category

28	Environmental Sciences & Ecology
7	Engineering
2	Marine & Freshwater Biology
2	Toxicology
1	Chemistry
0	Public, Environmental & Occupational Health

Keywords (author's)

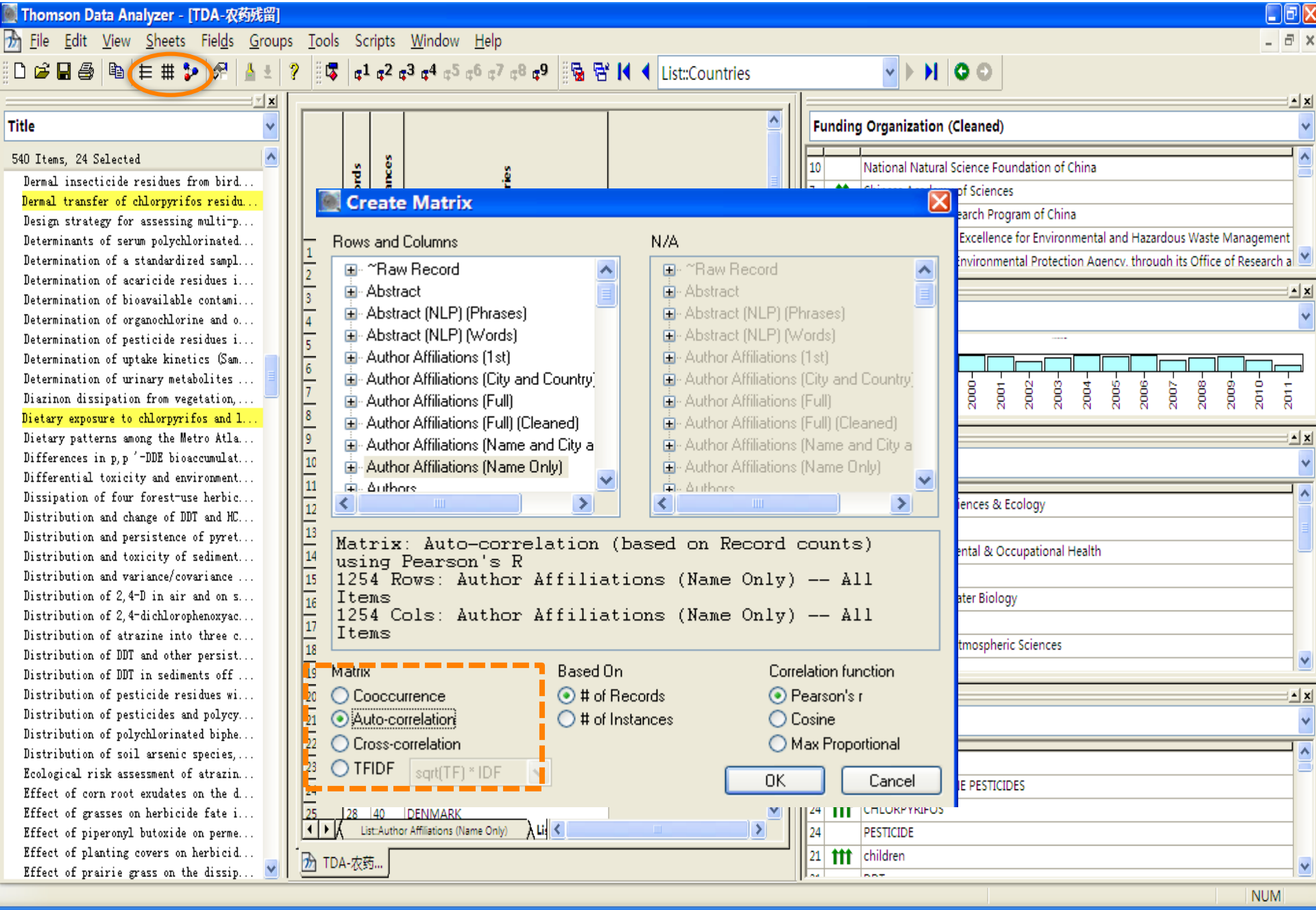
3	LEACHING
3	PCBS
2	ADSORPTION
2	Artificial recharge
2	DDTS

自相关系数矩阵（Auto-Correlation Matrix)

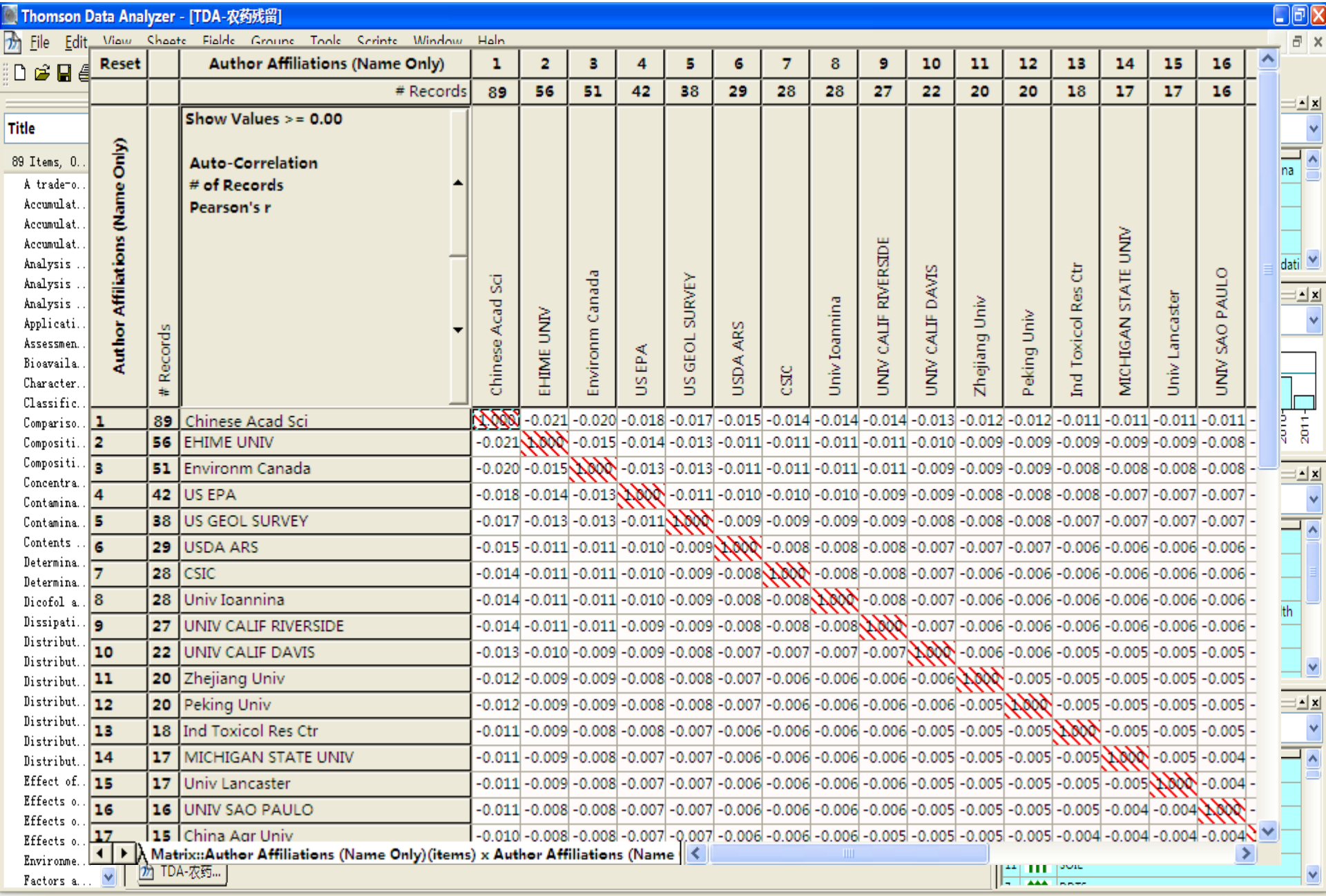
- 自相关矩阵可以显示某一数据列表中的相互关系。例如，一个发明人的自相关矩阵可以显示某一个团体中成员的高度相关关系。

- Correlation function is enabled when a correlation matrix is chosen. Choose from **Pearson's r (the default), Cosine, or Max Proportional.**
- Note: For Auto-Correlation Matrix, you should only use fields that have multiple values in most of the records. For example, Inventors, Assignees, Authors or Descriptors are good choices. Date of Publication is not a good choice, since there is only one date of publication for each record.

二维矩阵分析-自相关

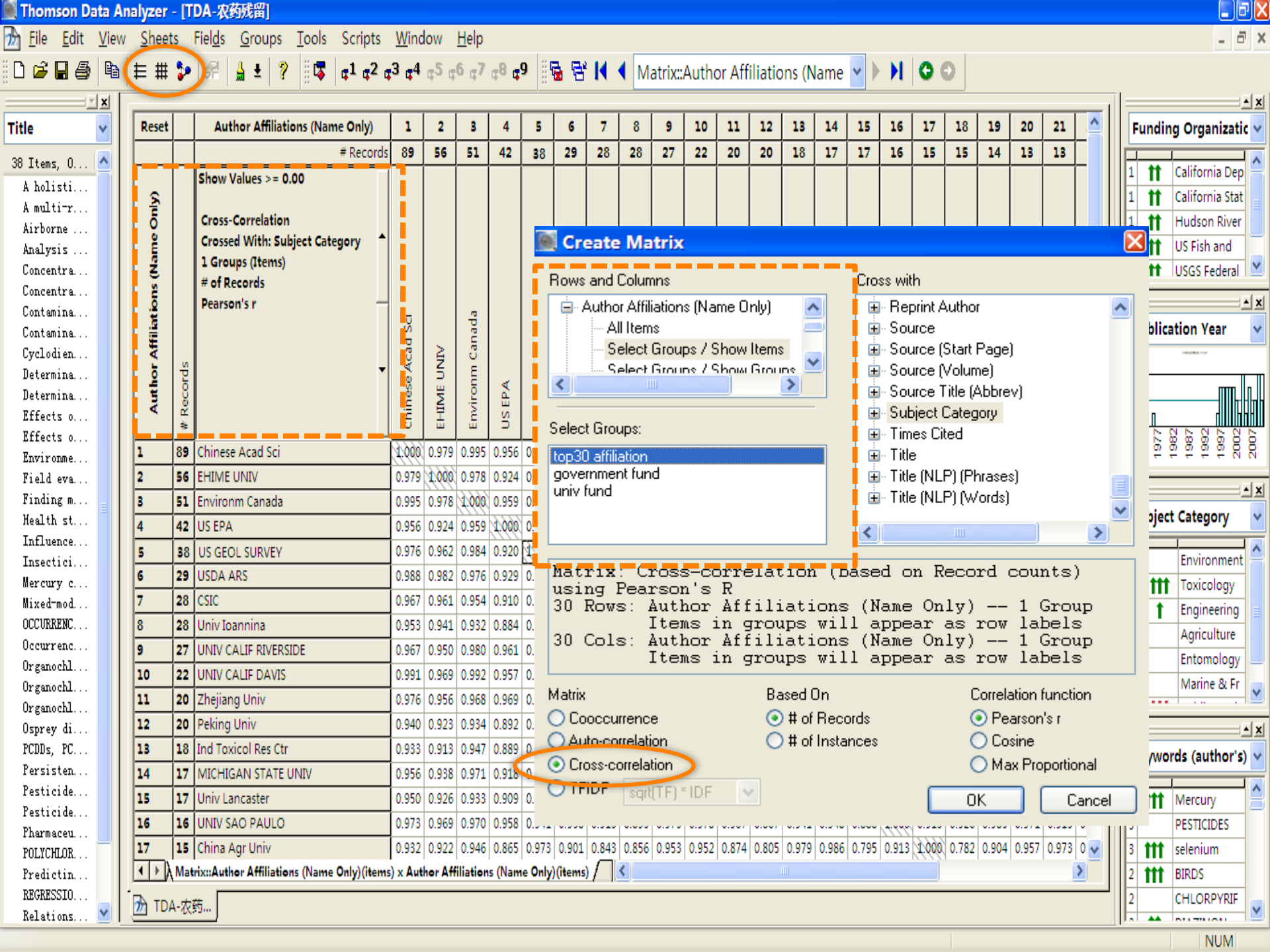

Thomson Data Analyzer - [TDA-农药残留]
File Edit View Sheets Fields Groups Tools Scripts Window Help
List::Countries
Title
540 Items, 24 Selected
Dermal insecticide residues from bird...
Dermal transfer of chlorpyrifos residu...
Design strategy for assessing multi-p...
Determinants of serum polychlorinated...
Determination of a standardized sampl...
Determination of acaricide residues i...
Determination of bioavailable contami...
Determination of organochlorine and o...
Determination of pesticide residues i...
Determination of uptake kinetics (Sam...
Determination of urinary metabolites ...
Diazinon dissipation from vegetation,...
Dietary exposure to chlorpyrifos and l...
Dietary patterns among the Metro Atla...
Differences in p,p'-DDE bioaccumulat...
Differential toxicity and environment...
Dissipation of four forest-use herbic...
Distribution and change of DDT and HC...
Distribution and persistence of pyret...
Distribution and toxicity of sediment...
Distribution and variance/covariance ...
Distribution of 2,4-D in air and on s...
Distribution of 2,4-dichlorophenoxyac...
Distribution of atrazine into three c...
Distribution of DDT and other persist...
Distribution of DDT in sediments off ...
Distribution of pesticide residues wi...
Distribution of pesticides and polycy...
Distribution of polychlorinated biphe...
Distribution of soil arsenic species,...
Ecological risk assessment of atrazin...
Effect of corn root exudates on the d...
Effect of grasses on herbicide fate i...
Effect of piperonyl butoxide on perme...
Effect of planting covers on herbicid...
Effect of prairie grass on the dissip...
Create Matrix
Rows and Columns
~Raw Record
Abstract
Abstract (NLP) (Phrases)
Abstract (NLP) (Words)
Author Affiliations (1st)
Author Affiliations (City and Country)
Author Affiliations (Full)
Author Affiliations (Full) (Cleaned)
Author Affiliations (Name and City a
Author Affiliations (Name Only)
Authors
N/A
~Raw Record
Abstract
Abstract (NLP) (Phrases)
Abstract (NLP) (Words)
Author Affiliations (1st)
Author Affiliations (City and Country)
Author Affiliations (Full)
Author Affiliations (Full) (Cleaned)
Author Affiliations (Name and City a
Author Affiliations (Name Only)
Authors
Matrix: Auto-correlation (based on Record counts)
using Pearson's R
1254 Rows: Author Affiliations (Name Only) -- All Items
1254 Cols: Author Affiliations (Name Only) -- All Items
Matrix
Cooccurrence
Auto-correlation
Cross-correlation
TFIDF
sqrt(TF) * IDF
Based On
# of Records
# of Instances
Correlation function
Pearson's r
Cosine
Max Proportional
OK
Cancel
28 40 DENMARK
List:Author Affiliations (Name Only)
TDA-农药...
Funding Organization (Cleaned)
10 National Natural Science Foundation of China
Sciences
earch Program of China
Excellence for Environmental and Hazardous Waste Management
Environmental Protection Agency, through its Office of Research a
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011
ences & Ecology
ental & Occupational Health
ater Biology
tmospheric Sciences
E PESTICIDES
24 CHLORPYRIFOS
24 PESTICIDE
21 children
NUM

利用右键可以制作热效图



互相关系数矩阵（Cross-Correlation Matrix)

- 互相关系数矩阵显示某一数据表中各项目基于另外一张数据表的相关.
- 例如，作者的基于叙词的互相关系数矩阵可以显示有哪些团体在写作相同的作品. 再如：一个基于叙词的机构互相关系数矩阵可以显示那些在写作相同作品的机构.
- 创建互相关系数矩阵需选择两个字段，第一个字段是显示为矩阵中的行与列– 通常为一个字段或者自己定义的一小组数据，选择的第二个字段是分析行与列中项目相关关系的基础.


Thomson Data Analyzer - [TDA-农药残留]
File Edit View Sheets Fields Groups Tools Scripts Window Help
Matrix::Author Affiliations (Name
Reset
Author Affiliations (Name Only)
Records
Show Values >= 0.00
Cross-Correlation
Crossed With: Subject Category
1 Groups (Items)
# of Records
Pearson's r
Chinese Acad Sci
EHIME UNIV
Environm Canada
US EPA
Create Matrix
Rows and Columns
Author Affiliations (Name Only)
All Items
Select Groups / Show Items
Select Groups / Show Groups
Select Groups:
top30 affiliation
government fund
univ fund
Cross with
Reprint Author
Source
Source (Start Page)
Source (Volume)
Source Title (Abbrev)
Subject Category
Times Cited
Title
Title (NLP) (Phrases)
Title (NLP) (Words)
Matrix: Cross-correlation (based on Record counts)
using Pearson's R
30 Rows: Author Affiliations (Name Only) -- 1 Group
Items in groups will appear as row labels
30 Cols: Author Affiliations (Name Only) -- 1 Group
Items in groups will appear as row labels
Matrix
Cooccurrence
Auto-correlation
Cross-correlation
TFIDF
sqrt(TF) * IDF
Based On
# of Records
# of Instances
Correlation function
Pearson's r
Cosine
Max Proportional
OK
Cancel
Matrix::Author Affiliations (Name Only)(items) x Author Affiliations (Name Only)(items)
TDA-农药...
Funding Organizatic
California Dep
California Stat
Hudson River
US Fish and
USGS Federal
blication Year
ject Category
Environment
Toxicology
Engineering
Agriculture
Entomology
Marine & Fr
words (author's)
Mercury
PESTICIDES
selenium
BIRDS
CHLORPYRIF
NUM

Reset		Author Affiliations (Name Only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		# Records	89	56	51	42	38	29	28	28	27	22	20	20	18	17	17	16
Author Affiliations (Name Only)	# Records	Show Values >= 0.00 Cross-Correlation Crossed With: Subject Category 1 Groups (Items) # of Records Pearson's r	Chinese Acad Sci	EHIME UNIV	Environm Canada	US EPA	US GEOL SURVEY	USDA ARS	CSIC	Univ Ioannina	UNIV CALIF RIVERSIDE	UNIV CALIF DAVIS	Zhejiang Univ	Peking Univ	Ind Toxicol Res Ctr	MICHIGAN STATE UNIV	Univ Lancaster	UNIV SAO PAULO
1	89	Chinese Acad Sci	1.000	0.979	0.995	0.956	0.976	0.988	0.967	0.953	0.967	0.991	0.976	0.940	0.933	0.956	0.950	0.973
2	56	EHIME UNIV	0.979	1.000	0.978	0.924	0.962	0.982	0.961	0.941	0.950	0.969	0.956	0.923	0.913	0.938	0.926	0.969
3	51	Environm Canada	0.995	0.978	1.000	0.959	0.984	0.976	0.954	0.932	0.980	0.992	0.968	0.934	0.947	0.971	0.933	0.970
4	42	US EPA	0.956	0.924	0.959	1.000	0.920	0.929	0.910	0.884	0.961	0.957	0.969	0.892	0.889	0.918	0.909	0.958
5	38	US GEOL SURVEY	0.976	0.962	0.984	0.920	1.000	0.957	0.924	0.906	0.963	0.978	0.926	0.904	0.958	0.981	0.893	0.941
6	29	USDA ARS	0.988	0.982	0.976	0.929	0.957	1.000	0.982	0.958	0.933	0.973	0.975	0.941	0.894	0.924	0.964	0.958
7	28	CSIC	0.967	0.961	0.954	0.910	0.924	0.982	1.000	0.976	0.885	0.934	0.953	0.982	0.820	0.866	0.992	0.913
8	28	Univ Ioannina	0.953	0.941	0.932	0.884	0.906	0.958	0.976	1.000	0.868	0.917	0.927	0.949	0.816	0.853	0.961	0.893
9	27	UNIV CALIF RIVERSIDE	0.967	0.950	0.980	0.961	0.963	0.933	0.885	0.868	1.000	0.985	0.951	0.859	0.969	0.985	0.861	0.973
10	22	UNIV CALIF DAVIS	0.991	0.969	0.992	0.957	0.978	0.973	0.934	0.917	0.985	1.000	0.973	0.900	0.958	0.979	0.914	0.978
11	20	Zhejiang Univ	0.976	0.956	0.968	0.969	0.926	0.975	0.953	0.927	0.951	0.973	1.000	0.911	0.886	0.919	0.949	0.967
12	20	Peking Univ	0.940	0.923	0.934	0.892	0.904	0.941	0.982	0.949	0.859	0.900	0.911	1.000	0.780	0.833	0.982	0.867
13	18	Ind Toxicol Res Ctr	0.933	0.913	0.947	0.889	0.958	0.894	0.820	0.816	0.969	0.958	0.886	0.780	1.000	0.988	0.780	0.941
14	17	MICHIGAN STATE UNIV	0.956	0.938	0.971	0.918	0.981	0.924	0.866	0.853	0.985	0.979	0.919	0.833	0.988	1.000	0.831	0.948
15	17	Univ Lancaster	0.950	0.926	0.933	0.909	0.893	0.964	0.992	0.961	0.861	0.914	0.949	0.982	0.780	0.831	1.000	0.888
16	16	UNIV SAO PAULO	0.973	0.969	0.970	0.958	0.941	0.958	0.913	0.893	0.973	0.978	0.967	0.867	0.941	0.948	0.888	1.000
17	15	China Agr Univ	0.932	0.922	0.946	0.865	0.973	0.901	0.843	0.856	0.953	0.952	0.874	0.805	0.979	0.986	0.795	0.913

Matrix::Author Affiliations (Name Only)(items) x Author Affiliations (Name

Map类型：

自相关系数地图（Auto-Correlation Map)

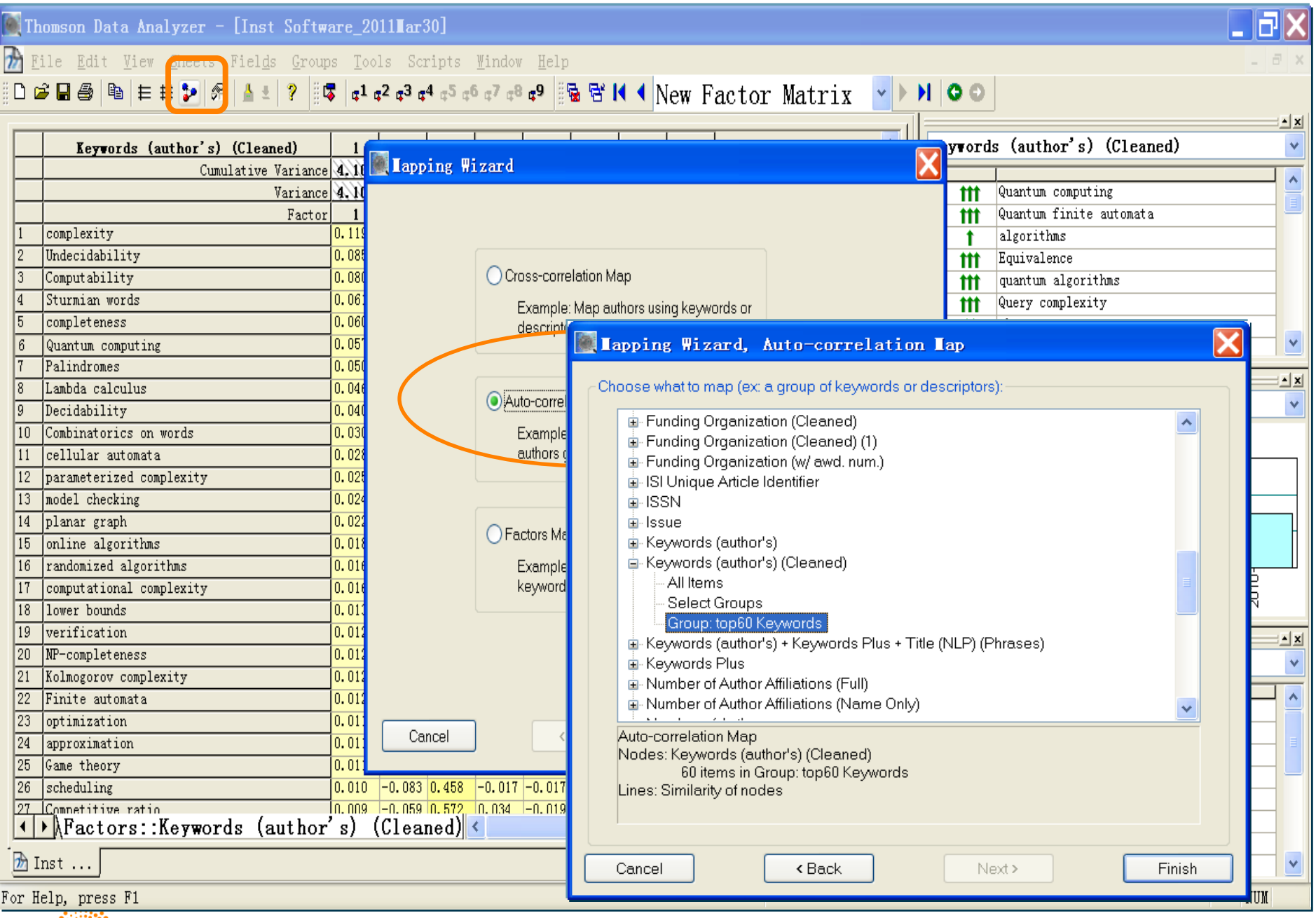
在相同的字段中，寻找关系密切的项目。如寻找合作密切的公司、发明人、国家。

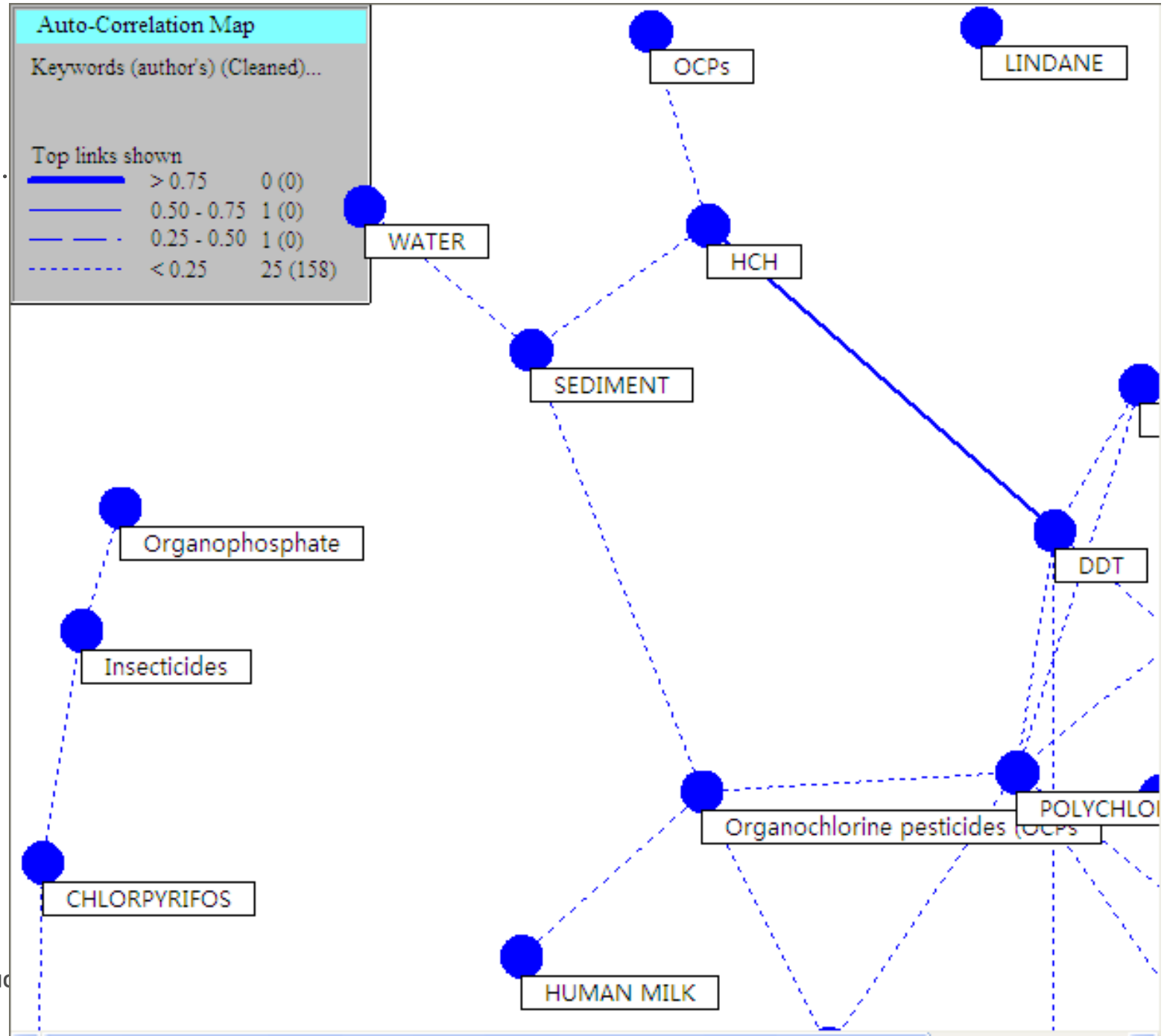
互相关系数地图（Cross-Correlation Map)

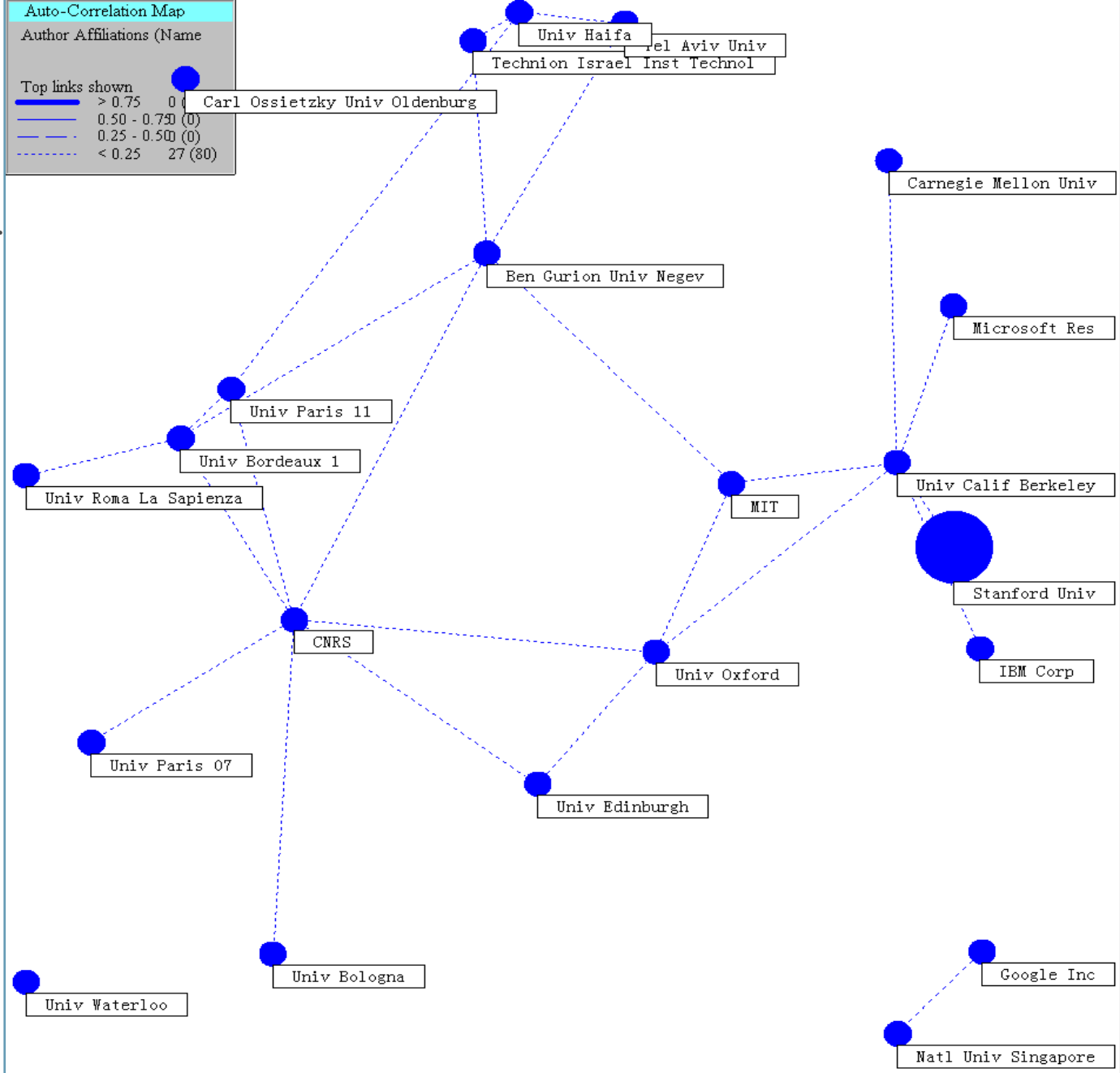
在不同字段中，寻找关系密切的项目。如寻找哪些公司在相同的研发领域关系密切。

Auto-Correlation Maps

- 自相关关系图显示一张数据表中各个条目的相互关系。例如：一个作者自相关关系图可以显示在一起写作的团队成员。一个叙词的自相关关系图将可以因在同一记录中被使用显示它们之间的高度相关性。
- **注意：对于自相关地图而言，您应该选择那些在绝大多数记录中都含有多个数据的字段**. 例如，作者或者叙词等都是好的选择. 出版日期则不应选择, 因为每条记录只有一个出版日期.


Thomson Data Analyzer - [Inst Software_2011Mar30]
File Edit View Sheets Fields Groups Tools Scripts Window Help
New Factor Matrix
Keywords (author's) (Cleaned)
Cumulative Variance
Variance
Factor
1 complexity
2 Undecidability
3 Computability
4 Sturmian words
5 completeness
6 Quantum computing
7 Palindromes
8 Lambda calculus
9 Decidability
10 Combinatorics on words
11 cellular automata
12 parameterized complexity
13 model checking
14 planar graph
15 online algorithms
16 randomized algorithms
17 computational complexity
18 lower bounds
19 verification
20 NP-completeness
21 Kolmogorov complexity
22 Finite automata
23 optimization
24 approximation
25 Game theory
26 scheduling
27 Competitive ratio
Mapping Wizard
Cross-correlation Map
Example: Map authors using keywords or
Auto-corre
Example
authors
Factors Ma
Example
keyword
Cancel
Mapping Wizard, Auto-correlation Map
Choose what to map (ex: a group of keywords or descriptors):
Funding Organization (Cleaned)
Funding Organization (Cleaned) (1)
Funding Organization (w/ awd. num.)
ISI Unique Article Identifier
ISSN
Issue
Keywords (author's)
Keywords (author's) (Cleaned)
All Items
Select Groups
Group: top60 Keywords
Keywords (author's) + Keywords Plus + Title (NLP) (Phrases)
Keywords Plus
Number of Author Affiliations (Full)
Number of Author Affiliations (Name Only)
Auto-correlation Map
Nodes: Keywords (author's) (Cleaned)
60 items in Group: top60 Keywords
Lines: Similarity of nodes
Cancel
< Back
Next >
Finish
Quantum computing
Quantum finite automata
algorithms
Equivalence
quantum algorithms
Query complexity
Factors::Keywords (author's) (Cleaned)
Inst ...
For Help, press F1


Auto-Correlation Map
Keywords (author's) (Cleaned)...
Top links shown
> 0.75 0 (0)
0.50 - 0.75 1 (0)
0.25 - 0.50 1 (0)
< 0.25 25 (158)
OCPs
LINDANE
WATER
HCH
SEDIMENT
DDT
Organophosphate
Insecticides
CHLORPYRIFOS
Organochlorine pesticides
HUMAN MILK


Auto-Correlation Map
Author Affiliations (Name
Top links shown
> 0.75 0 (
0.50 - 0.75 0 (0)
0.25 - 0.50 0 (0)
< 0.25 27 (80)
Univ Haifa
Technion Israel Inst Technol
Carl Ossietzky Univ Oldenburg
Carnegie Mellon Univ
Ben Gurion Univ Negev
Microsoft Res
Univ Paris 11
Univ Bordeaux 1
Univ Roma La Sapienza
MIT
Univ Calif Berkeley
Stanford Univ
CNRS
IBM Corp
Univ Oxford
Univ Paris 07
Univ Edinburgh
Univ Bologna
Univ Waterloo
Google Inc
Natl Univ Singapore

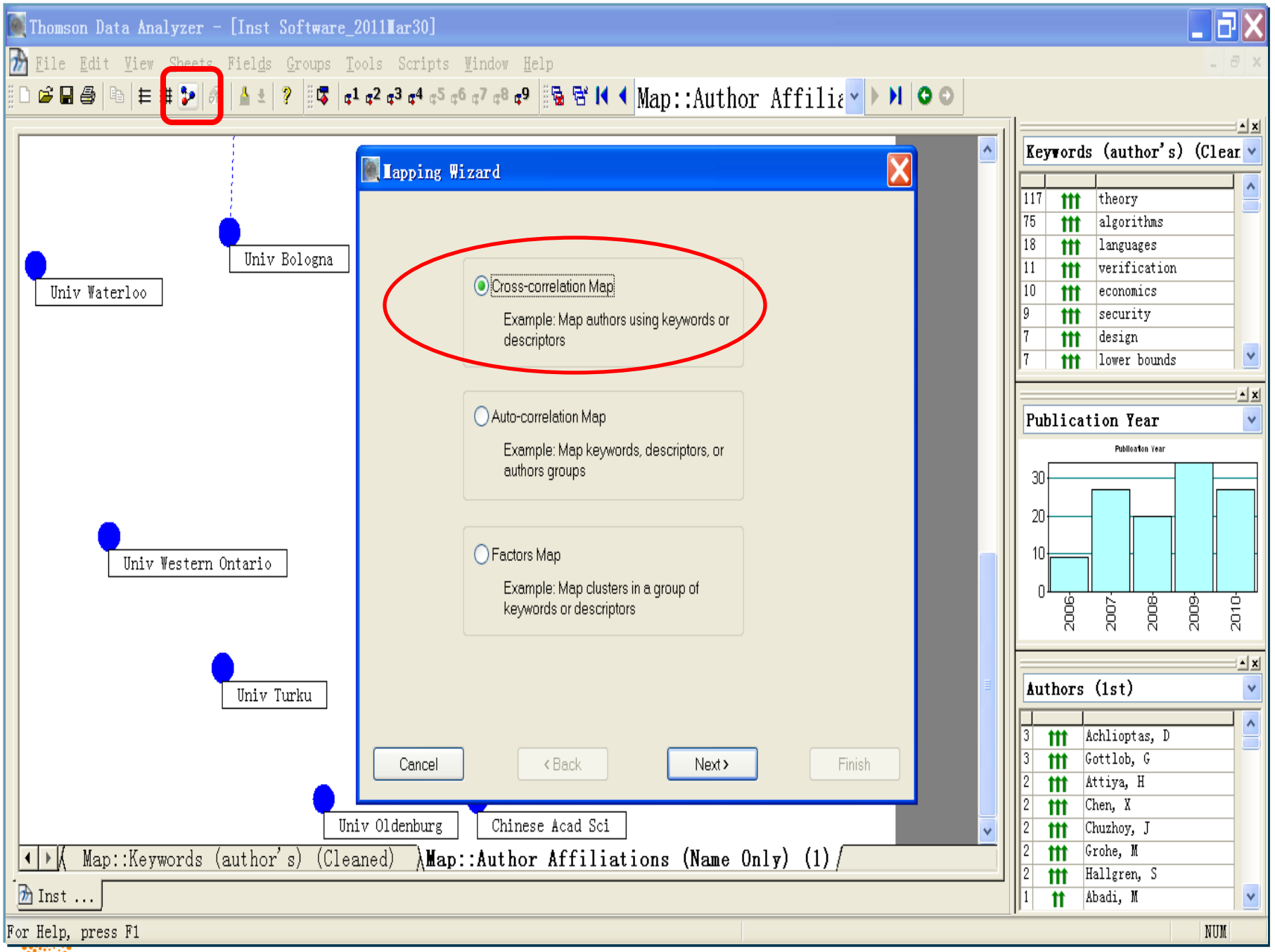
Cross-Correlation Maps

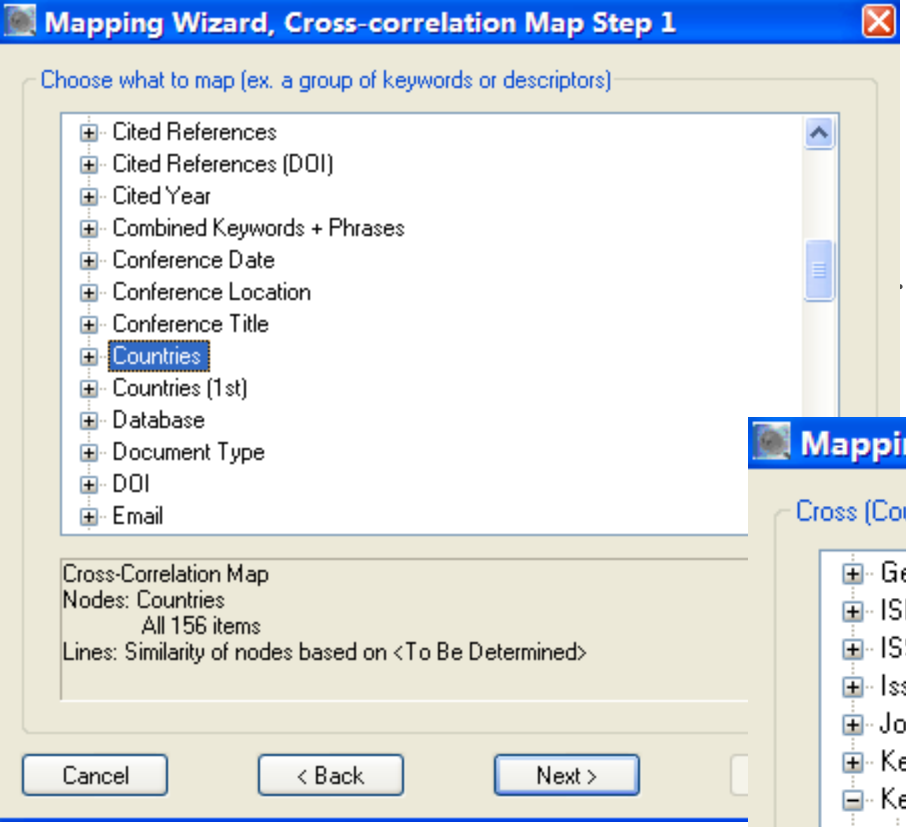
- 互相关系数矩阵显示某一数据表中各项目基于另外一张数据表的相关. 例如，作者的基于叙词的互相关系数矩阵可以显示有哪些团体在写作相同的作品. 再如：一个基于叙词的机构互相关系数矩阵可以显示那些在写作相同作品的机构.

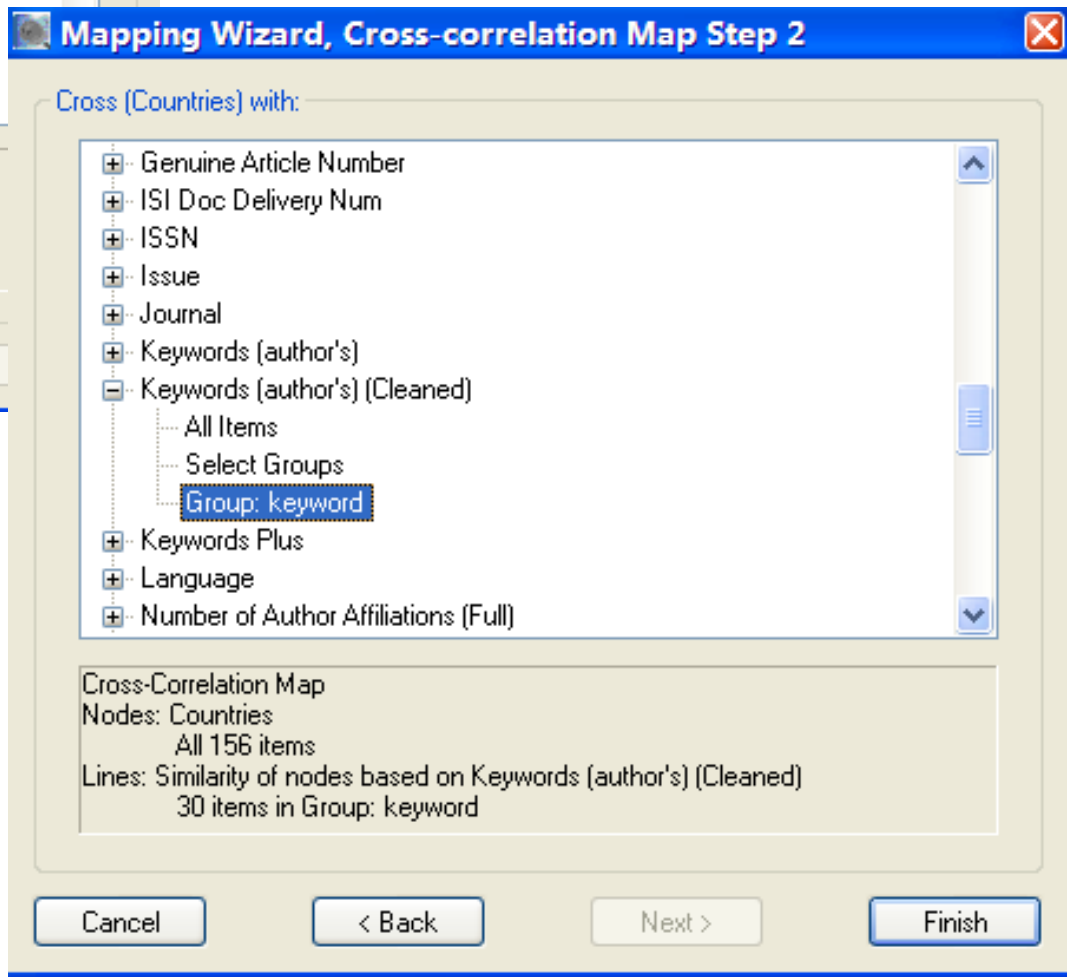
- 创建互相关系数矩阵需选择两个字段，第一个字段是显示为矩阵中的行与列- 通常为一个字段或者自己定义的一小组数据，选择的第二个字段是分析行与列中项目相关关系的基础.

Cross-Correlation Maps

- **注意: 在互相关地图中的约束条件比主成分地图和自相关地图更少限制.** 因此互相关地图会呈现一些”一次性”的相关关系. 例如: 如果 “A” 和作者r “B”并非合作者, 但都与作者 “C”合作, 互相关地图则(Field1 = a group of Authors that includes “A” and “B” and Field2 = all Authors) 会揭示作者 “A” 和“B” 有关联, 尽管作者 “C”不会在地图上显示出来.因此,在互相关地图中您应该留心这点并做深入的调查. 请注意 “低相似” 相关关系会是“可能的” 相关关系-在某些条件下可能显示的是间接相关.


Thomson Data Analyzer - [Inst Software_2011Mar30]
File Edit View Sheets Fields Groups Tools Scripts Window Help
Map::Author Affilia
Mapping Wizard
Cross-correlation Map
Example: Map authors using keywords or descriptors
Auto-correlation Map
Example: Map keywords, descriptors, or authors groups
Factors Map
Example: Map clusters in a group of keywords or descriptors
Cancel
< Back
Next >
Finish
Univ Bologna
Univ Waterloo
Univ Western Ontario
Univ Turku
Univ Oldenburg
Chinese Acad Sci
Map::Keywords (author's) (Cleaned)
Map::Author Affiliations (Name Only) (1)
Inst ...
Keywords (author's) (Clear
117 theory
75 algorithms
18 languages
11 verification
10 economics
9 security
7 design
7 lower bounds
Publication Year
Publication Year
30
20
10
0
2006
2007
2008
2009
2010
Authors (1st)
3 Achlioptas, D
3 Gottlob, G
2 Attiya, H
2 Chen, X
2 Chuzhoy, J
2 Grohe, M
2 Hallgren, S
1 Abadi, M
For Help, press F1
NUM





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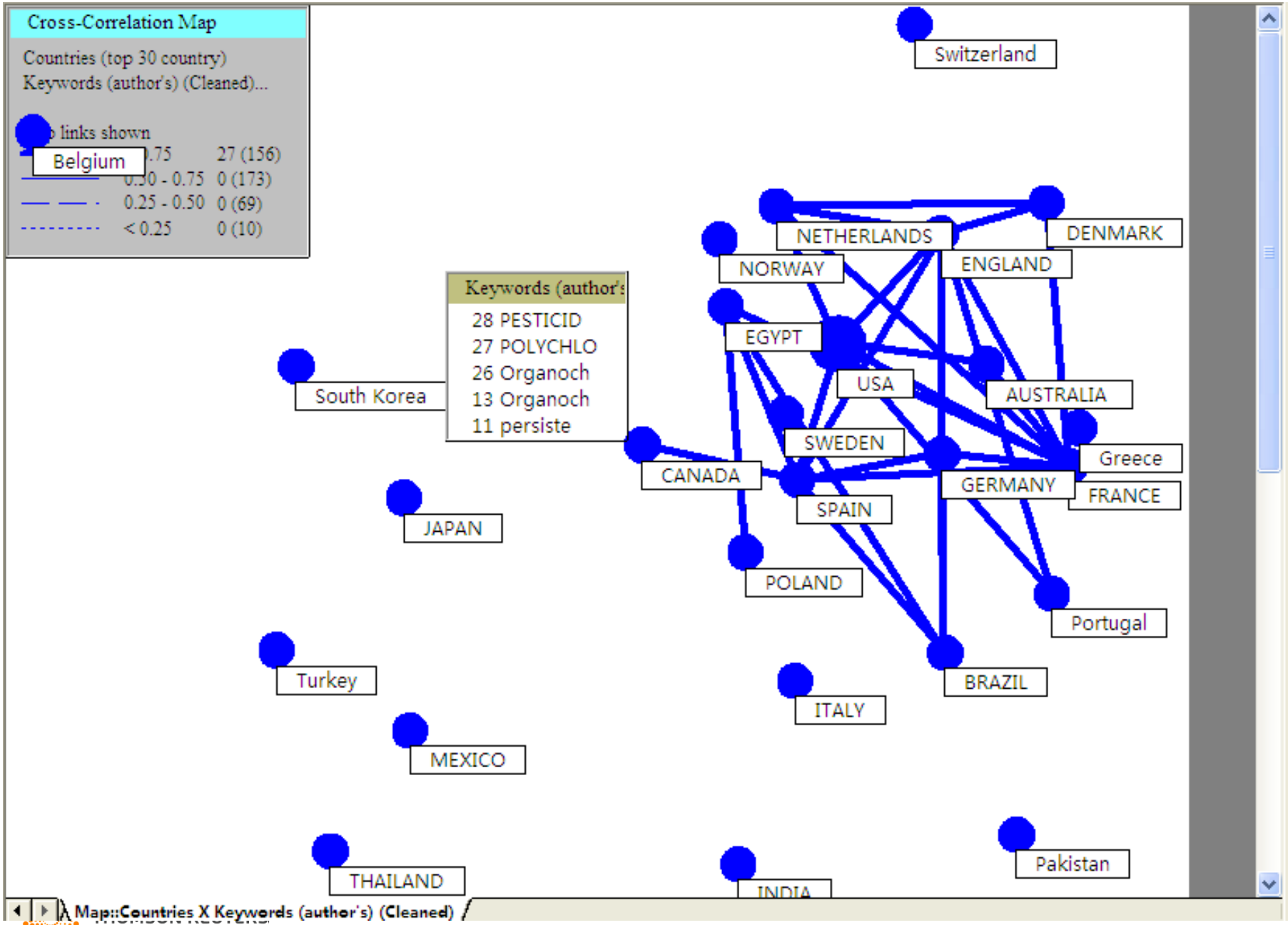
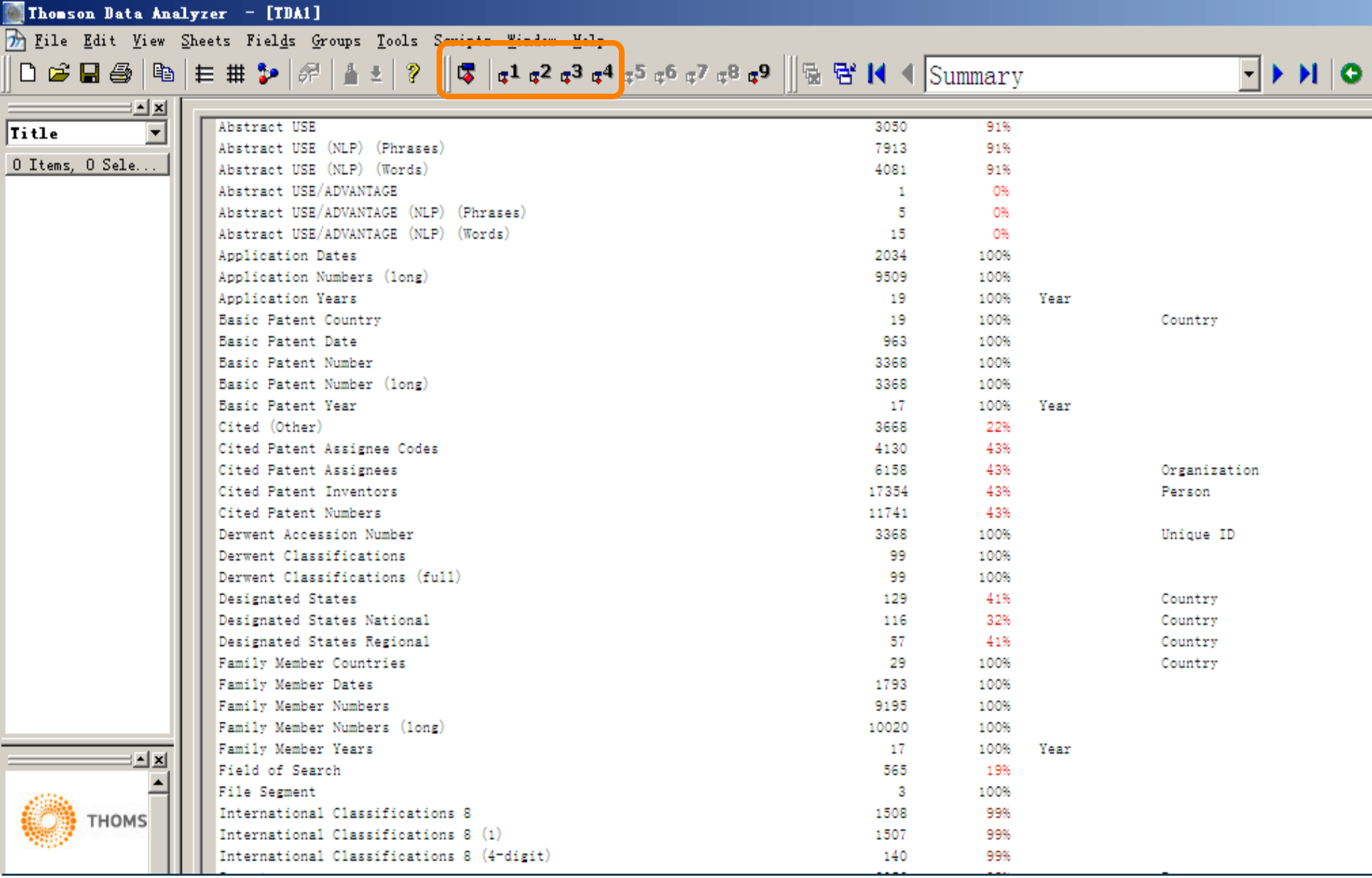

Cross-Correlation Map
Countries (top 30 country)
Keywords (author's) (Cleaned)...
links shown
0.75 27 (156)
0.50 - 0.75 0 (173)
0.25 - 0.50 0 (69)
< 0.25 0 (10)
Switzerland
Belgium
NETHERLANDS
DENMARK
NORWAY
ENGLAND
Keywords (author's
28 PESTICID
27 POLYCHLO
26 Organoch
13 Organoch
11 persiste
EGYPT
South Korea
USA
AUSTRALIA
SWEDEN
Greece
CANADA
GERMANY
FRANCE
SPAIN
JAPAN
POLAND
Portugal
Turkey
BRAZIL
ITALY
MEXICO
THAILAND
Pakistan
INDIA
Map::Countries X Keywords (author's) (Cleaned)

提纲

- Thomson Data Analyzer概况
- 数据导入与数据管理
- 数据清理/数据结构化
- 数据分析
- 生成报告



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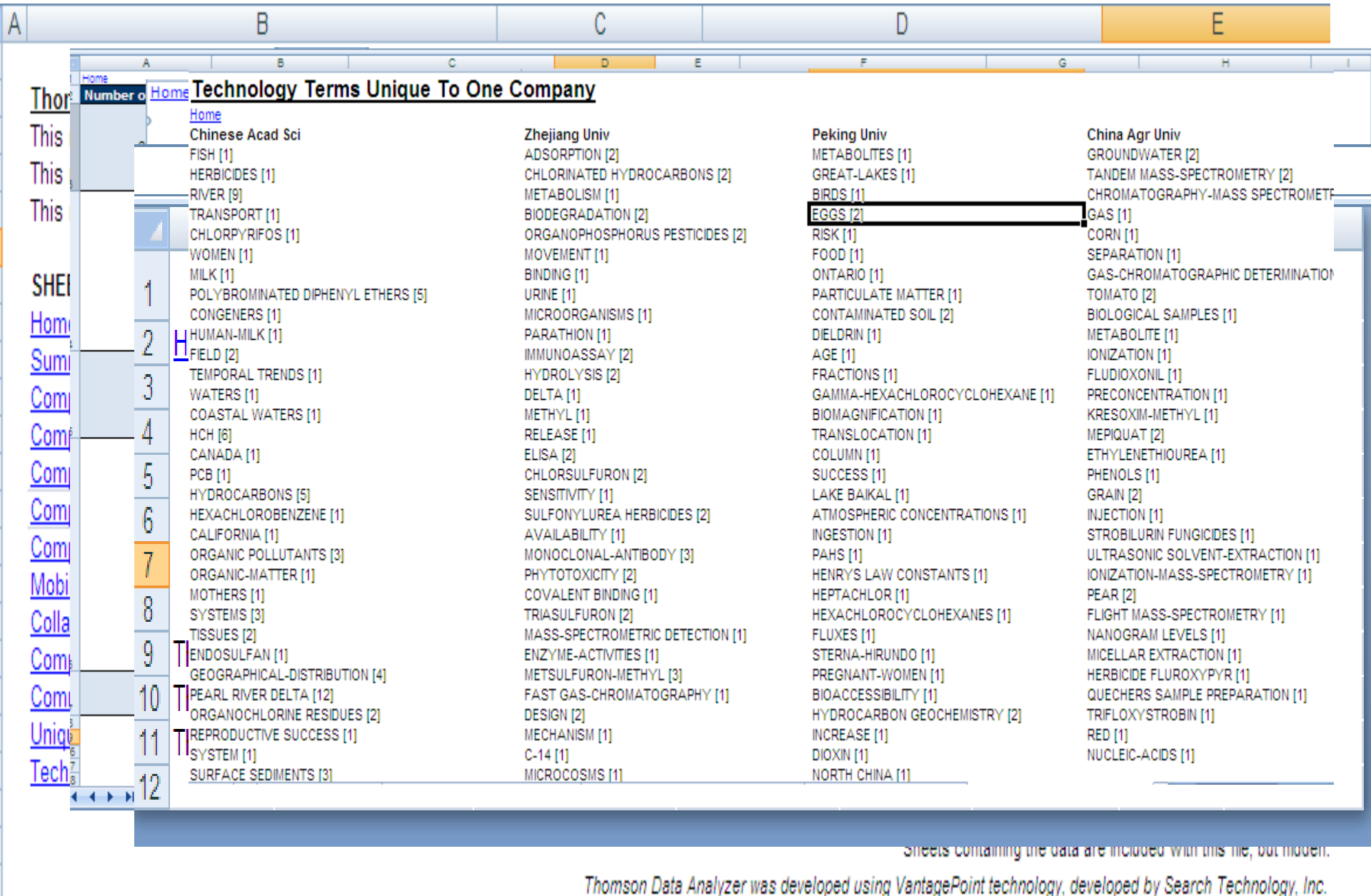
Report: Company Comparison（2个或5个公司间的相互比较报告，比较项目可以选择）



Technology Terms Unique To One Company

Home

Chinese Acad Sci	Zhejiang Univ	Peking Univ	China Agr Univ
FISH [1]	ADSORPTION [2]	METABOLITES [1]	GROUNDWATER [2]
HERBICIDES [1]	CHLORINATED HYDROCARBONS [2]	GREAT-LAKES [1]	TANDEM MASS-SPECTROMETRY [2]
RIVER [9]	METABOLISM [1]	BIRDS [1]	CHROMATOGRAPHY-MASS SPECTROMETF
TRANSPORT [1]	BIODEGRADATION [2]	EGGS [2]	GAS [1]
CHLORPYRIFOS [1]	ORGANOPHOSPHORUS PESTICIDES [2]	RISK [1]	CORN [1]
WOMEN [1]	MOVEMENT [1]	FOOD [1]	SEPARATION [1]
MILK [1]	BINDING [1]	ONTARIO [1]	GAS-CHROMATOGRAPHIC DETERMINATION
POLYBROMINATED DIPHENYL ETHERS [5]	URINE [1]	PARTICULATE MATTER [1]	TOMATO [2]
CONGENERS [1]	MICROORGANISMS [1]	CONTAMINATED SOIL [2]	BIOLOGICAL SAMPLES [1]
HUMAN-MILK [1]	PARATHION [1]	DIELDRIN [1]	METABOLITE [1]
FIELD [2]	IMMUNOASSAY [2]	AGE [1]	IONIZATION [1]
TEMPORAL TRENDS [1]	HYDROLYSIS [2]	FRACTIONS [1]	FLUDIOXONIL [1]
WATERS [1]	DELTA [1]	GAMMA-HEXACHLOROCYCLOHEXANE [1]	PRECONCENTRATION [1]
COASTAL WATERS [1]	METHYL [1]	BIOMAGNIFICATION [1]	KRESOXIM-METHYL [1]
HCH [6]	RELEASE [1]	TRANSLOCATION [1]	MEPIQUAT [2]
CANADA [1]	ELISA [2]	COLUMN [1]	ETHYLENETHIOUREA [1]
PCB [1]	CHLORSULFURON [2]	SUCCESS [1]	PHENOLS [1]
HYDROCARBONS [5]	SENSITIVITY [1]	LAKE BAIKAL [1]	GRAIN [2]
HEXACHLOROBENZENE [1]	SULFONYLUREA HERBICIDES [2]	ATMOSPHERIC CONCENTRATIONS [1]	INJECTION [1]
CALIFORNIA [1]	AVAILABILITY [1]	INGESTION [1]	STROBILURIN FUNGICIDES [1]
ORGANIC POLLUTANTS [3]	MONOCLONAL-ANTIBODY [3]	PAHS [1]	ULTRASONIC SOLVENT-EXTRACTION [1]
ORGANIC-MATTER [1]	PHYTOTOXICITY [2]	HENRYS LAW CONSTANTS [1]	IONIZATION-MASS-SPECTROMETRY [1]
MOTHERS [1]	COVALENT BINDING [1]	HEPTACHLOR [1]	PEAR [2]
SYSTEMS [3]	TRIASULFURON [2]	HEXACHLOROCYCLOHEXANES [1]	FLIGHT MASS-SPECTROMETRY [1]
TISSUES [2]	MASS-SPECTROMETRIC DETECTION [1]	FLUXES [1]	NANOGRAM LEVELS [1]
ENDOSULFAN [1]	ENZYME-ACTIVITIES [1]	STERNA-HIRUNDO [1]	MICELLAR EXTRACTION [1]
GEOGRAPHICAL-DISTRIBUTION [4]	METSULFURON-METHYL [3]	PREGNANT-WOMEN [1]	HERBICIDE FLUROXYPYR [1]
PEARL RIVER DELTA [12]	FAST GAS-CHROMATOGRAPHY [1]	BIOACCESSIBILITY [1]	QUECHERS SAMPLE PREPARATION [1]
ORGANOCHLORINE RESIDUES [2]	DESIGN [2]	HYDROCARBON GEOCHEMISTRY [2]	TRIFLOXYSTROBIN [1]
REPRODUCTIVE SUCCESS [1]	MECHANISM [1]	INCREASE [1]	RED [1]
SYSTEM [1]	C-14 [1]	DIOXIN [1]	NUCLEIC-ACIDS [1]
SURFACE SEDIMENTS [3]	MICROCOSMS [1]	NORTH CHINA [1]	

Sheets containing the data are included with this file, but hidden.

Thomson Data Analyzer was developed using VantagePoint technology, developed by Search Technology, Inc.

问题与解答

REUTERS/Mark Blinch

Thank You!

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ts.support.china@thomsonreuters.com
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Fax: 01082862088

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微博——微群

- WOK在线大讲堂：

http://q.weibo.com/569008?topnav=1

- 专利情报

http://q.weibo.com/739428?topnav=1

Web of Knowledge在线大讲堂有奖答题竞赛

http://ip-science.thomsonreuters.com.cn/2012WOKonline/course.htm

入口一

三月	开学，WOK教你开题选题	2	博硕士如何利用SCI选题与开题 详细课程请点击	利用Web of Science进行选题（SSCI/AHCI）开题，人文社科专场 详细课程请点击	
		3	3月27日 主讲人：张素芳 精准获取信息的基本功训练—如何编写检索式 详细课程请点击	3月29日 主讲人：张素芳 如何检索科技会议录：会议文献的价值及对科研的作用 详细课程请点击	3月29日-4月3日 有奖答题竞赛
四月	基金申请	4	清明节假期	4月5日 主讲人：万跃华 如何利用SCI进行基金申请 详细课程请点击	
	文献小助手闪亮登场，帮你轻松管理文献！	5	4月10日 主讲人：张素芳 利用Inspec®数据库获取工程研究信息 详细课程请点击	4月12日 主讲人：樊亚芳 建立自己的小论文写作平台：介绍EndNote® Web使用 详细课程请点击	
		6	4月17日 主讲人：樊亚芳 Endnote®基本功能介绍 详细课程请点击	4月19日 主讲人：樊亚芳 Endnote®高级功能介绍 详细课程请点击	
		7	4月24日 主讲人：李琛 著作管理与科研社交工具Research ID 详细课程请点击		4月26日-5月1日 有奖答题竞赛
五月	纵览生命科学信息，探寻生命的奥秘	8	五一假期 5月8日 主讲人：马亚鹏 生命科学信息检索专场 详细课程请点击	5月10日 主讲人：张辉 制药行业的信息获取 详细课程请点击	
		9	5月15日 主讲人：马亚鹏 引文聚焦诺贝尔奖医学研究 详细课程请点击	5月17日 主讲人：李慧美 Zoological Record®探索动物的奥秘 详细课程请点击	5月17日-22日 有奖答题竞赛
	透视全球专利信息，把握前沿研发动态	10	5月22日 主讲人：彭斌 专利基础知识与专利申请 详细课程请点击	5月24日 主讲人：彭斌 利用德温特专利Derwent Innovations Index℠数据库寻找研发技术信息及化学检索 详细课程请点击	
		11	5月29日 主讲人：李慧美 利用Thomson Innovation纵览全球研发动态	5月31日 主讲人：彭斌 利用Thomson Data Analyzer挖掘技术情报	5月[illegible]日-6月[illegible]日 有奖答题竞赛

Web of Knowledge在线大讲堂有奖答题竞赛

http://ip-science.thomsonreuters.com.cn/2012WOKonline/prize.htm

入口二

在线大讲堂简介

详细课程安排

主要讲师介绍

有奖答题竞赛

大讲堂最佳组织奖

各地巡讲安排

学生交流活动

有奖答题竞赛

为了帮助您在学习了Web of Knowledge℠在线大讲堂的相关专题课程后，能更好地掌握相关知识，大讲堂在每个专题的系列课程之后都设置了在线有奖答题竞赛活动。丰厚的奖品等着你来拿，快来参与吧！

竞赛内容：按专题内容进行主题测试，每期题目8-10道

竞赛时间：专题课程结束当周的周四20:00开始至下周二19:00截止

参赛对象：所有热爱Web of Knowledge℠在线大讲堂的广大师生

参赛方法：在规定时间内，点击下表中的“马上参与答题竞赛”参与答题竞赛

[重要提示] 如您参与竞赛，请在注册网站会员时，务必提供有效的手机号码，以便您获奖后我们为您寄送奖品。

每期答题竞赛的获奖信息，将在本站、以及“WOK在线大讲堂微博群”（g.weibo.com/569008）中公布。

竞赛主题	竞赛时间	
利用Web of Knowledge进行开题选题	3月29日20:00—4月3日12:00	马上参与答题竞赛
文献管理工具的利用	4月26日20:00—5月1日12:00	马上参与答题竞赛
生命科学信息资源的利用	5月17日20:00—5月22日12:00	马上参与答题竞赛
专利信息资源的利用	5月31日20:00—6月5日12:00	马上参与答题竞赛
论文写作与投稿	6月28日20:00—7月3日12:00	马上参与答题竞赛

Web of Knowledge在线大讲堂有奖答题竞赛

竞赛奖项的设置：

参赛资格：

1） 全国各地高校的在校老师、学生、以及科研机构的科研人员均可参与竞赛

2） 参赛前需注册2012年春季大讲堂网站会员，并在注册时提供详尽的联系方式，包括：姓名、单位、手机、通信地址

评奖方法：

1） 取分数最高的前50名，分数相同者取答题时间最早的参赛者

2） 多次参与答题的以最后一次答题成绩及时间为准

奖项设置：

每期答题竞赛设置50个奖项。具体如下：

- 特等奖：1名
- 一等奖：3名
- 二等奖：12名
- 三等奖：30名

学期大奖：3名（iPad）

奖品发放方法：

每期有奖答题竞赛结束后一周内，我们将根据您注册大讲堂网站会员时提供的通信地址，通过快递的方式向获奖者邮寄奖品，请您届时保持手机处于开机状态。

Web of Knowledge在线大讲堂有奖答题竞赛

学期大奖：3名（iPad）