

Session 4

15 minutes of Data

FileHomeInsertPage LayoutFormulasDataReviewViewTell me what you want to do...

CutCopyPasteFormat Painter

Clipboard

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General

Conditional Format as Table

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Check CellExplanatory...InputLinked CellNote

Styles

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AutoSumFillClear

Sort & Find & Filter - Select -

Editing

DavidBowle.csv - Excel

Jeannette EkströmShare

A1	AuthorsAuthor IdsTitleYearSource titleVolumIssueArt. No. Page startPage endPage countCited byDOILinkAffiliationsAuthors with affiliationsAbstractAuthor KeywordsIndex KeywordsReferencesCorrespondence AddressEditorsPublisherISSNISBNCODENPubMed IDLanguage of Original DocumentAbbreviated Source TitleDocument TypeAccess TypeSourceEID																															
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Og session 3 – OpenRefine.org (data cleaning)

OpenRefine DavidBowie_september2019.csv Permalink

Facet / Filter Undo / Redo 4 / 4 122 rows

Show as: rows records Show: 5 10 25 50 rows

Extensions: Wikidata

Using facets and filters

Use facets and filters to select subsets of your data to act on. Choose facet and filter methods from the menus at the top of each data column.

Not sure how to get started? Watch these screencasts

Cluster & Edit column "Author Keywords"

This feature helps you find groups of different cell values that might be alternative representations of the same thing. For example, the two strings "New York" and "new york" are very likely to refer to the same concept and just have capitalization differences, and "Gödel" and "Godel" probably refer to the same person. Find out more...




Method: key collision Keying Function: ngram-fingerprint Ngram Size: 2 43 clusters found

Cluster Size	Row Count	Values in Cluster	Merge?	New Cell Value
1	1	Feminist and queer theory; Flat affect; Gender and genre; Lauren Berlant; Tilda Swinton (1 rows)	<input type="checkbox"/>	Feminist and queer theory; Flat af
1	1	Alterity; Cleavage; Depersonalization; Disquieting strangeness; Dissociative Identity Disorder; Fiction film; Psychopathology (1 rows)	<input type="checkbox"/>	Alterity; Cleavage; Depersonaliza
1	1	Celebrity Studies; David Bowie; Mediation; Stardom; Transmedia (1 rows)	<input type="checkbox"/>	Celebrity Studies; David Bowie; M
1	1	branding; celebrity; David Bowie; human branding; structuration (1 rows)	<input type="checkbox"/>	branding; celebrity; David Bowie; I
1	1	A guide to the dirty south – atlanta; Adolf loos; Barbara kasten; Beistegui apartment; Bureau spectacular's Another Raumpian; Cedric price; Chicago architecture biennial; Cities of days shop; Claire bishop; David bowie's 'space oddity'; Dfs; Diller scofield + renfro; Dorothea von hantelmann; Ed ruscha; Elton musk's space; Falcon heavy rocket; Fat; Filippo tommaso marinetti; Fondaco del tedeschi in venice; Fondazione prada; Four experimental mascots for los angeles; Four seasons restaurant; Fun palace; Fundamental acts (life, education, ceremony, love, art, death); Goodie moh; Haue	<input type="checkbox"/>	A guide to the dirty south – atlanti

Select All Unselect All Export Clusters Merge Selected & Re-Cluster Merge Selected & Close Close

Average Length of Choices: 0 — 1400

.. I dag handler det om "visualisering & præsentation"

Adgang til "dataset"	Rensning af dataset	Visualisering af dataset
<p>A data set (or dataset) is a collection of data. In the case of tabular data, a data set corresponds to one or more database tables, where every column of a table represents a particular variable, and each row corresponds to a given record of the data set in question....</p> <p>https://en.wikipedia.org/wiki/Data_set</p>	<p>Data cleansing or data cleaning is the process of detecting and correcting (or removing) corrupt or inaccurate records from a record set, table, or database and refers to identifying incomplete, incorrect, inaccurate or irrelevant parts of the data and then replacing, modifying, or deleting the dirty or coarse data.</p> <p>https://en.wikipedia.org/wiki/Data_cleansing</p>	<p>Data visualization is the graphic representation of data. It involves producing images that communicate relationships among the represented data to viewers of the images.</p> <p>https://en.wikipedia.org/wiki/Data_visualization</p>
 <p>http://scopus.com.proxy.findit.dtu.dk</p>	 <p>http://openrefine.org/download.html</p>	 <p>https://www.vosviewer.com/download</p>

Vi har ca. 1 time til dette – derfor Læringsmål 😊

Learning Objectives

After the introduction the participants...

- Will know of and be able to start to work with VosViewer
- Can import search results from Web of Science or Scopus to VosViewer
- Can create simple bibliometric/network visualisations in VosViewer

Developed by *Nees Jan van Eck and Ludo Waltman, CWTS*

..... “The Centre for Science and Technology Studies (CWTS) is an interdisciplinary research institute at Leiden University that studies scientific research and its connections to technology, innovation, and society. Our research, bibliometric and scientometric tools, and evaluation expertise provide a solid basis for supporting research assessment and strategic decision making and for developing science policy.”

<https://www.cwts.nl/about-cwts>



What is VosViewer really?

VOSviewer


- Software tool for visualizing (bibliometric) networks
- Built-in support for popular bibliographic databases
- Text mining functionality
- Layout and clustering techniques
- Advanced visualization features:
 - Smart labeling algorithm
 - Overlay visualizations
 - Density visualizations ('heat map')



Borrowed with respect from <https://www.slideshare.net/NeesJanvanEck/vosviewer-a-software-tool-for-analyzing-and-visualizing-scientific-literature>

Why is VosViewer worth looking into... ??

Accident Analysis and Prevention 132 (2019) 105243



Contents lists available at [ScienceDirect](#)

Accident Analysis and Prevention


journal homepage: www.elsevier.com/locate/aap



Mapping the knowledge domain of road safety studies: A scientometric analysis

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Institute of Transport Studies, Monash University, Clayton, VIC, 3800, Australia



ARTICLE INFO

Keywords:
Road safety
Scientometrics
Co-citation analysis
Citation network
VOSviewer
CitNetExplorer

ABSTRACT

As a way of obtaining a visual expression of knowledge, mapping knowledge domain (MKD) provides a vision-based analytic approach to scientometric analysis which can be used to reveal an academic community, the structure of its networks, and the dynamic development of a discipline. This study, based on the Science Citation Index Expanded (SCIE) and Social Sciences Citation Index (SSCI) articles on road safety, employs the bibliometric tools VOSviewer and CitNetExplorer to create maps of author co-citation, document co-citation, citation networks, analyze the core authors and classic documents supporting road safety studies and show the citation context and development of such studies. It shows that road safety studies clustered mainly into four groups, whose we will refer to as “effects of driving psychology and behavior on road safety”, “causation, frequency and injury severity analysis of road crashes”, “epidemiology, assessment and prevention of road traffic injury”, and “effects of road infrastructure on road safety”.

<https://doi-org.proxy.findit.dtu.dk/10.1016/j.aap.2019.07.019>

Visualisation from prior article

<https://doi-org.proxy.findit.dtu.dk/10.1016/j.aap.2019.07.019>

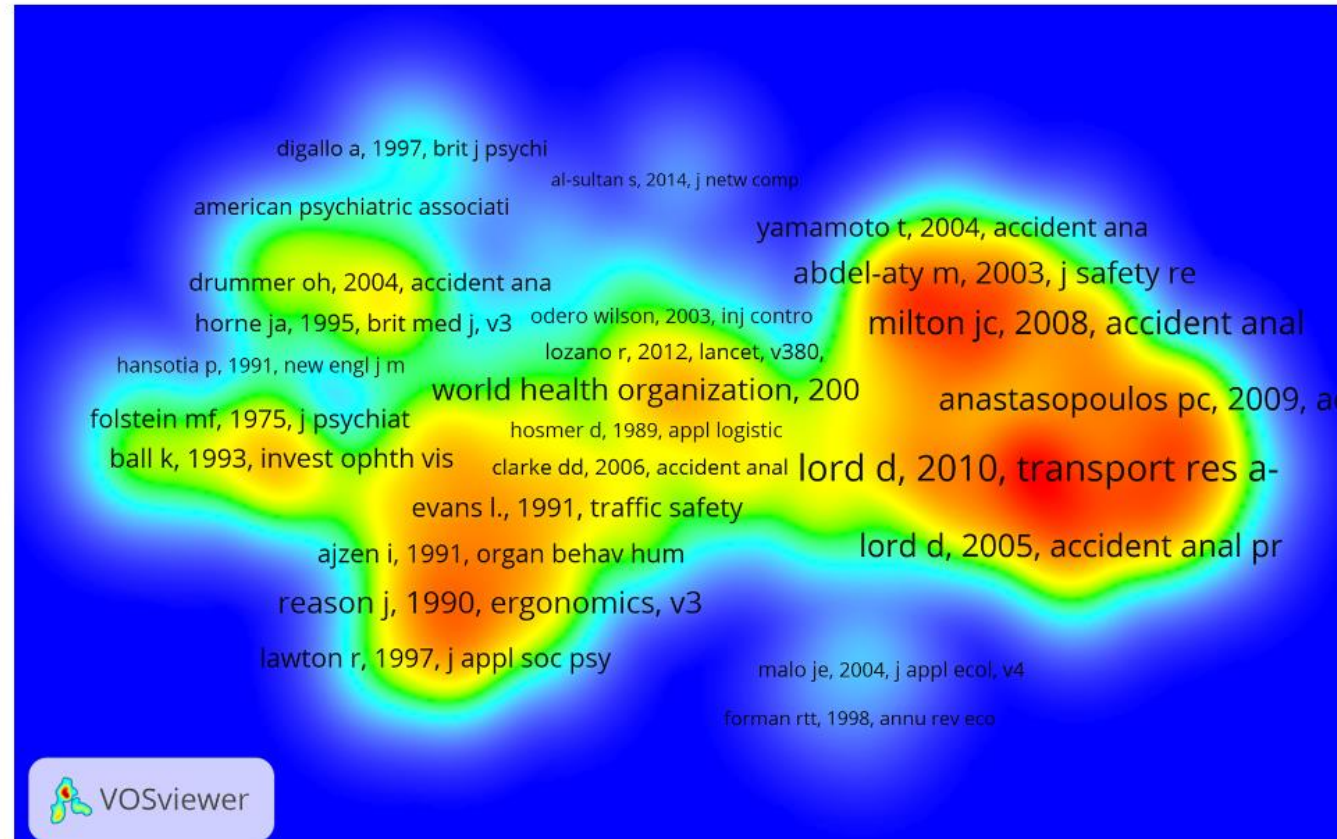


Fig. 2. Density view of the document co-citation network.

VosViewer even keep track of papers that includes..

<https://www.vosviewer.com/publications#applied-publications>

Publications on applications of VOSviewer

Applications of VOSviewer and of the VOS mapping and clustering techniques can be found in the following publications:

- Mascarenhas, C., Ferreira, J.J., & Marques, C. (in press). University–industry cooperation: A systematic literature review and research agenda. *Science and Public Policy*. ([paper](#))
- Flis, I., & van Eck, N.J. (in press). Framing psychology as a discipline (1950–1999): A large-scale term co-occurrence analysis of scientific literature in psychology. ([paper](#))
- Sherren, K., & Kent, C. (in press). Who's afraid of Allan Savory? Scientometric polarization on Holistic Management as competing understandings. *Renewable Agriculture and Food Systems*. ([paper](#))
- Alhuay-Quispe, J., & Hernandez, R.M. (in press). Cuban Letters to Editor published in medical journals indexed at Scopus Database. *Investigación en Educación Médica*. ([paper](#))
- Park, J.Y., & Nagy, Z. (2018). Bibliography data for thermal comfort and building control research – Keywords co-occurrences relationship and citation network from 5536 articles. *Data in Brief*, 17, 529-532. ([paper](#))
- Krauskopf, E. (2018). A bibliometric analysis of the Journal of Infection and Public Health: 2008–2016. *Journal of Infection and Public Health*, 11(2), 224-229 ([paper](#))

Publications

Technical publications

Applied publications

Share this page



Which maps to create in VosViewer

- **Network data**

-> different types of networks can be constructed

- **Bibliographic data**

-> can be used to construct a network of co-authorship, co-occurrence, citation, *bibliographic coupling*, or *co-citation links*

- *A bibliographic coupling link is a link between two items that both cite the same document.*
- *A co-citation link is a link between two items that are both cited by the same document.*

- **Text data**


-> can be used to construct a network of co-occurrence links between terms. Terms are identified in the text data using natural language processing algorithms

https://www.vosviewer.com/documentation/Manual_VOSviewer_1.6.13.pdf

From page 25-26 in the VosViewer Manual

https://www.vosviewer.com/documentation/Manual_VOSviewer_1.6.13.pdf

Create Map



Choose type of data

☒

Create a map based on network data

Choose this option to create a map based on network data.

☐

Create a map based on bibliographic data

Choose this option to create a co-authorship, keyword co-occurrence, citation, bibliographic coupling, or co-citation map based on bibliographic data.

☐

Create a map based on text data

Choose this option to create a term co-occurrence map based on text data.

< Back

Next >

Finish

Cancel

Table 1. Summary of the main options provided by the Create Map wizard for creating a new map.

Type of data	Data source	Links	Items
Network data	VOSviewer, GML, and Pajek files		
Bibliographic data	Bibliographic database files	Co-authorship	Authors
			Organizations
			Countries
		Co-occurrence	Keywords
			Documents
	Reference manager files	Citation	Sources
			Authors
			Organizations
			Countries
			Documents
Text data	VOSviewer files	Co-occurrence	Sources
			Authors
			Organizations
			Countries
			Documents
	Bibliographic database files	Co-citation	Cited references
			Cited sources
			Cited authors
	Reference manager files		
	APIs		

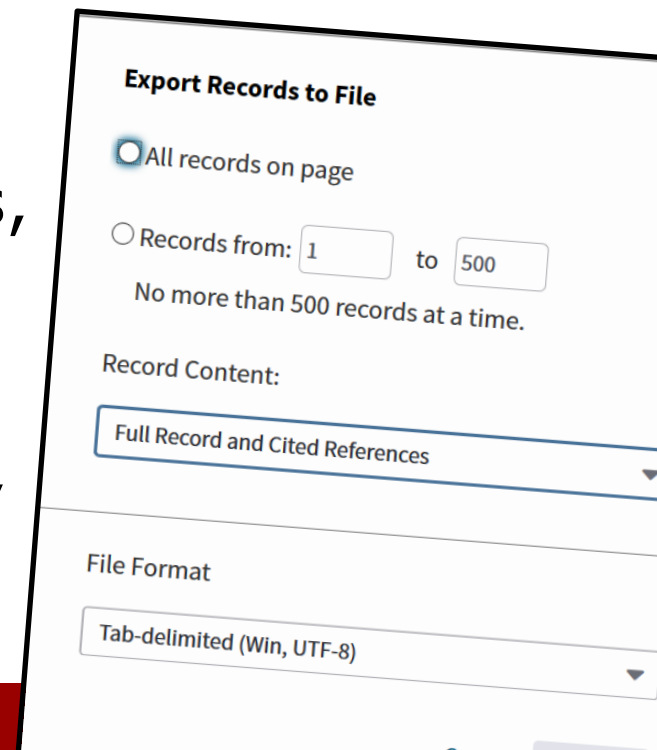
From Web of Science to VosViewer

Make sure Web of Science Core Collection database is selected.

Choose the **Save to Other File Formats** option, and choose either the Plain Text or the **Tab-delimited file format**.

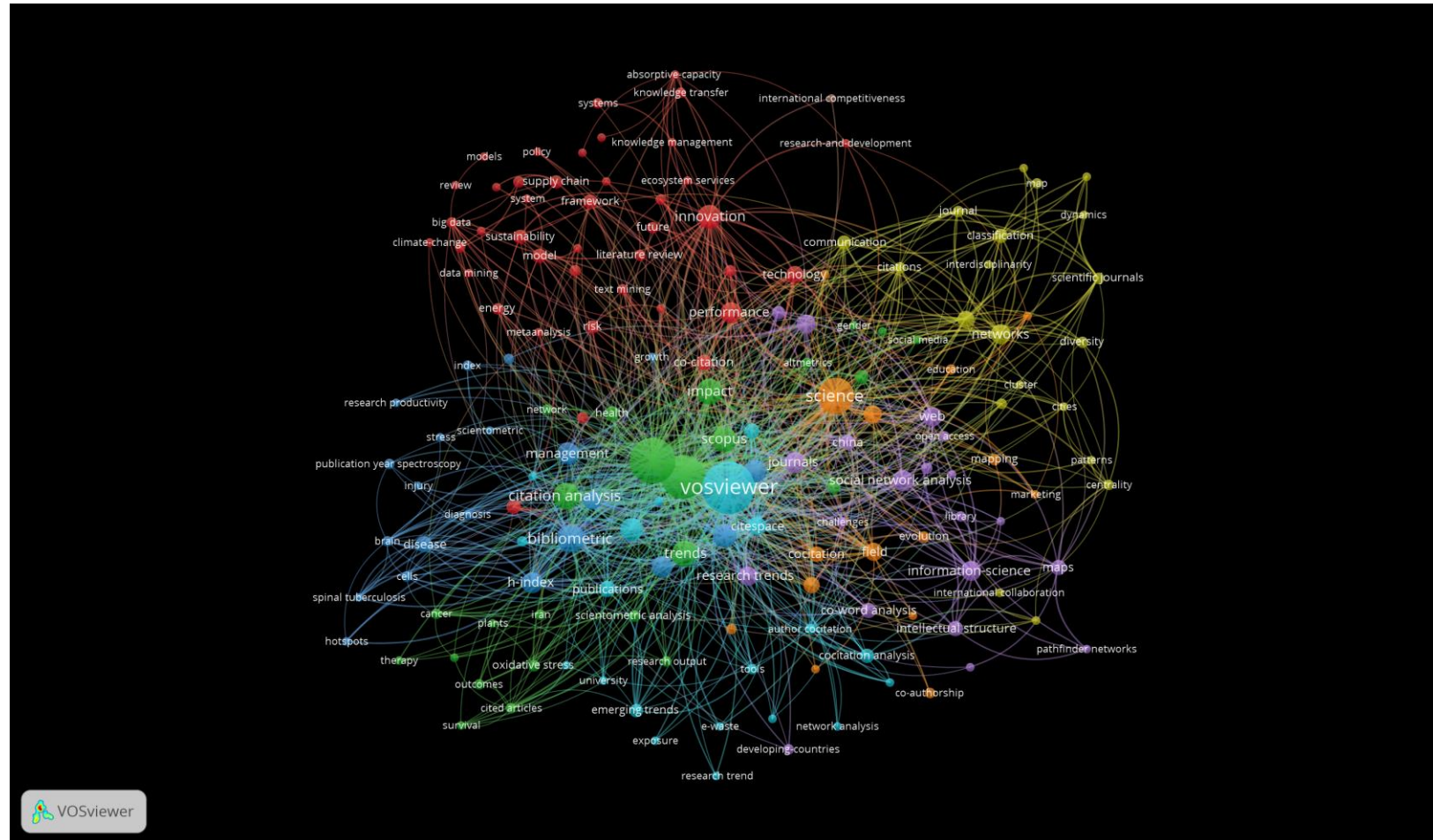
Although VOSviewer supports both file formats, it is recommended to use the tab-delimited format.

When asked which data elements to download, choose the Full Record and Cited References option.

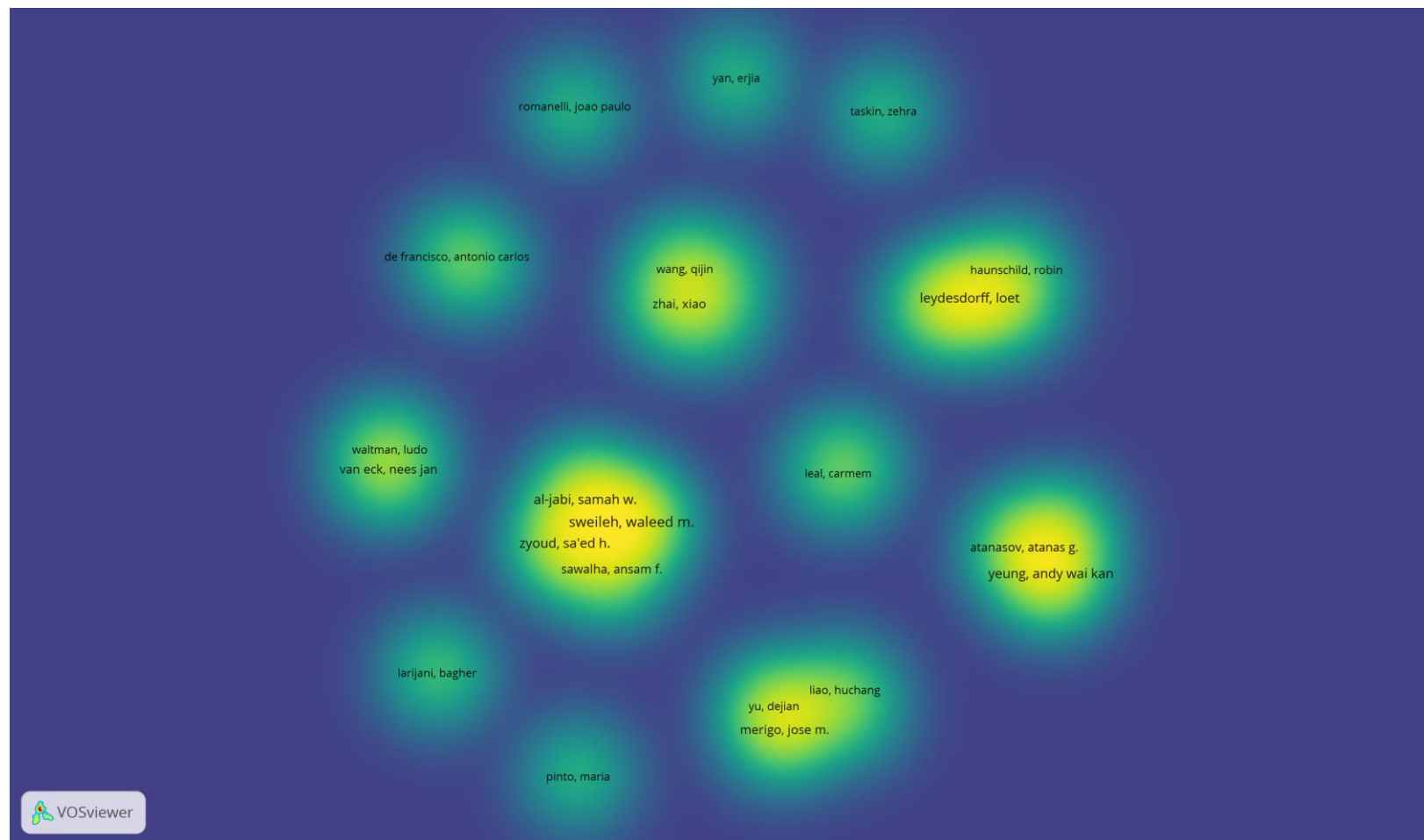


The screenshot shows the 'Export Records to File' dialog box. It has two radio buttons: 'All records on page' (selected) and 'Records from: 1 to 500'. Below the radio buttons is a note: 'No more than 500 records at a time.' Under 'Record Content:', there is a dropdown menu with 'Full Record and Cited References' selected. Under 'File Format:', there is a dropdown menu with 'Tab-delimited (Win, UTF-8)' selected.

Co-occurrences visualisation on keywords (wos)



Co-authorship / authors (wos)



From Scopus to VosViewer

To download (meta)data from Scopus, choose the CSV export option

Make sure that the data is downloaded in a CSV file and that all data elements are included

Export document settings ⓘ

You have chosen to export 256 documents

Select your method of export

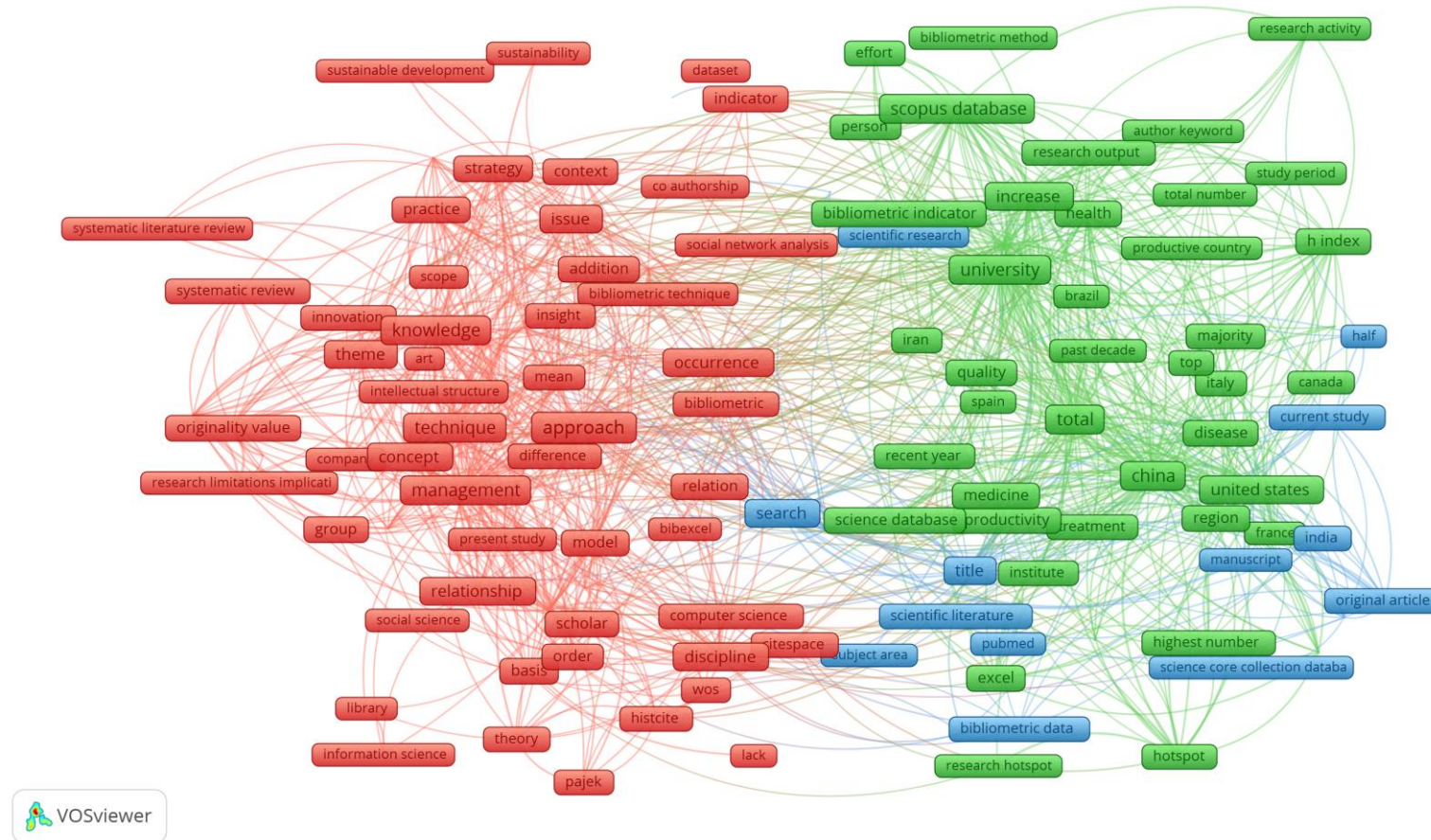
☐ MENDELEY ☐ RefWorks ☐ RIS Format ☒ CSV ☐ BibTeX ☐ Plain Text

EndNote, Reference Manager Excel ASCII in HTML

What information do you want to export?

<input checked="" type="checkbox"/> Citation information	<input checked="" type="checkbox"/> Bibliographical information	<input checked="" type="checkbox"/> Abstract & keywords	<input type="checkbox"/> Funding details	<input type="checkbox"/> Other information
<input checked="" type="checkbox"/> Author(s)	<input checked="" type="checkbox"/> Affiliations	<input checked="" type="checkbox"/> Abstract	<input type="checkbox"/> Number	<input type="checkbox"/> Tradenames & manufacturers
<input checked="" type="checkbox"/> Author(s) ID	<input checked="" type="checkbox"/> Serial identifiers (e.g. ISSN)	<input checked="" type="checkbox"/> Author keywords	<input type="checkbox"/> Acronym	<input type="checkbox"/> Accession numbers & chemicals
<input checked="" type="checkbox"/> Document title	<input checked="" type="checkbox"/> PubMed ID	<input checked="" type="checkbox"/> Index keywords	<input type="checkbox"/> Sponsor	<input type="checkbox"/> Conference information
<input checked="" type="checkbox"/> Year	<input checked="" type="checkbox"/> Publisher		<input type="checkbox"/> Funding text	<input checked="" type="checkbox"/> Include references
<input checked="" type="checkbox"/> EID	<input checked="" type="checkbox"/> Editor(s)			
<input checked="" type="checkbox"/> Source title	<input checked="" type="checkbox"/> Language of original document			
<input checked="" type="checkbox"/> volume, issue, pages	<input checked="" type="checkbox"/> Correspondence address			
<input checked="" type="checkbox"/> Citation count	<input checked="" type="checkbox"/> Abbreviated source title			
<input checked="" type="checkbox"/> Source & document type				
<input checked="" type="checkbox"/> Publication Stage				
<input checked="" type="checkbox"/> DOI				
<input checked="" type="checkbox"/> Access Type				

Map based on text clusters... (scopus search)



Supplementary literature and tutorials

- A Tutorial for VosViewer by Clement Levallois
<https://seinecle.github.io/vosviewer-tutorials/generated-pdf/importing-en.pdf>
- The official VosViewer Manual
https://www.vosviewer.com/documentation/Manual_VOSviewer_1.6.13.pdf
- Cases that uses VosViewer: <http://aida.tudelft.nl/toolbox/aida-booklet>
- Book Chapter: <https://www.vosviewer.com/getting-started#vosviewer-book-chapter>
- Curating data with OpenRefine to visualize them in VOSviewer
<https://bit.ly/2H9l31z>
- <https://seinecle.github.io/vosviewer-tutorials/generated-slides/importing-en.html>

Now time for hands-on and workshop

