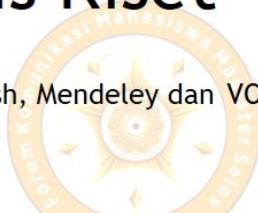


Penggunaan *Bibliometric* dalam Analisis Riset

-Penggunaan Publish or Perish, Mendeley dan VOSviewer-



Ira Setyaningsih, ST., M.Sc

Apa itu Bibliometrik??

→satu set metode matematika dan statistik yang digunakan untuk menganalisis dan mengukur publikasi (yaitu, artikel, buku, dan bab buku, antara lain) (Garfield, 1955)

→metode matematika dan statistika untuk mempelajari dan mengidentifikasi pola-pola dalam penggunaan literatur/publikasi dan jasa perpustakaan sebagai bahan analisis untuk mengetahui perkembangan dari literatur khusus, terutama kepengarangan, publikasi, dan penggunaannya (Reitz, 2014 dalam Tupan dan Rachmawati, 2017)

→Untuk mendeteksi profil publikasi pada topik dan untuk menentukan tren dalam suatu disiplin (Albort-Morant, 2017)

Software (Fahimnia, 2015)

BibExcel

- Olle Persson,
1990
- Database
terlengkap

Hist Cite • Database Web of Science

Publish or Perish (PoP)

- Harzing
- Database Google Scholar (awalnya)
- Saat ini Scopus, Crossref, WoS

Software (Ellegaard & Wallin, 2015)

- Gephi - open source(Bastian *et al.* 2009)
- HistCite (Garfield 2009)
- Publish or Perish (Harzing 2010)
- Scholarometer (Kaur *et al.* 2012)

Outline Riset

PoP

Publish or
Perish
Screening
Data

Mendeley

Spesifikasi
data

VOSViewer

Mapping
Data



Publish or Perish (PoP)

-Screening & Metric data-

Database PoP

Free:

- Google Scholar - maksimal 1000 data
- CrossRef - maksimal 200 data
- External Data
- Google Profile
- Microsoft Academic
- Ada yang tidak tercover, jika faktanya data yang ada melebihi angka tersebut



→Solusi :

- Persempit tahun pencarian
- Persempit kata kunci - hanya di judul
- Persempit kata kunci dengan menambahkan tanda “....”
- Persempit publikasi - Journal atau spesifik nama jurnal

Berbayar/Berlangganan

Scopus, Microsoft Academic dan Web of Science



<https://harzing.com/resources/publish-or-perish>

A screenshot of a web browser window showing the Harzing.com website. The URL in the address bar is <https://harzing.com/resources/publish-or-perish>. The page title is "Publish or Perish".

The main content area displays the "Publish or Perish" software interface, showing a list of publications and citation counts. The sidebar on the left contains links for "Subtopics" such as "Publish or Perish in the news", "Windows", "OS X", "GNU/Linux", "FAQ", "License Agreement", "Tutorial", "Development", and "Manual". The sidebar also lists "Related topics" like "Academic publishing resources", "Journal Quality List", "Publish or Perish", and "Academic software".

The right sidebar features a "Featured blog posts" section with links to various articles, a "Random blog post" link, and a thumbnail for "The Publish or Perish Tutorial". Below that is a "Recent blog posts" section.

The bottom of the screen shows a taskbar with icons for various applications, including a clock showing 20:57 on 07/09/2018.

Harzing's Publish or Perish 6.34.6288.6798

No query selected

About the available data sources

Select an existing query to inspect or modify it, or click one of these buttons to create a new query.

Crossref* Microsoft Academic***
Google Scholar* Scopus***
Google Profile* Web of Science*** * External subscription required
* Free data source Import External Data... About importing external data

Metrics Help

Cites	Per year	Rank	Authors	Title	Year	Publication	Publisher

Results

Copy to Clipboard Save as File...

Publication years:
Citation years:
Papers:
Citations:
Cites/year:
Cites/paper:
Cites/author:
Papers/author:
Authors/paper:
h-index:
g-index:
h₁,norm:
h₁,annual:
*Count:

Results

Copy to Clipboard Save as File...

Metrics

Publication years:
Citation years:
Papers:
Citations:
Cites/year:
Cites/paper:
Cites/author:
Papers/author:
Authors/paper:
h-index:
g-index:
h₁,norm:
h₁,annual:
*Count:

Results

Copy to Clipboard Save as File...

3:59
12/09/2018

Harzing's Publish or Perish 6.40.6326.6879

File Edit Query View Help

My queries
Saved queries
Trash

Query	Source	Papers	Cites	Cites/y...	h	g	h _{l,no...}	h _{l,ann...}	*C...	Query date	Cache date	Last...
? bibliometric	G Google Sc...	30	15674	319.88	30	30	30	0.61	28	19/11/2018	n/a	35

Google Scholar query

Authors: Years: 0 - 0

Publication/Journal: ISSN:

All of the words: Title words: bibliometric

Any of the words:

None of the words:

The phrase:

Metrics **Help**

	Cites	Per year	Rank	Authors
Publication years: 1969-2015	1613	38.40*	1	DS Price
Citation years: 49 (1969-2018)	1128	125.33*	3	N van Eck, L
Papers: 30	904	64.57*	6	AR Ramos-R
Citations: 15674	898	25.66	2	K Subramany
Cites/year: 319.88	853	65.62*	7	FGA De Bakk
Cites/paper: 52.27	811	62.38*	4	AJF Van Raar
Cites/author: 10468.50	670	55.83*	5	AJF Van Raar
Papers/author: 18.42	668	55.67*	8	AJ Nederhof
Authors/paper: 2.10	517	22.48*	11	H Moed, R D
h-index: 30	499	29.35*	13	Y Ding, GG C
g-index: 30	495	30.94*	10	W Glänzel, H
h _l ,norm: 0.61	495	15.00*	12	HF Moed, WJM B...
h _l ,annual: 0.61	490	23.33*	15	Y Okubo
"Count": 28	466	33.29*	9	O Persson, W Glän...
Results	443	20.14*	14	A van Raan
<input type="button" value="Copy to Clipboard"/>	378	34.36*	21	CC Chao, JM Yan...
<input type="button" value="Save as File..."/>				Determining technology trends and forecasts of RFID by a historical review and bibliometric analysis from 19...

Query in Progress

Please wait while the query is being processed.

Querying bibliometric [Google Scholar]

30 out of maximum 1000 results so far; sending next request...

Estimated time remaining: 1:28

Current request:

Overall progress:

Query rates: 12/6/3 rpm | 23/10m | 61/h | 61/4h | 537 total

Year	Publication	Publ
1976	Journal of the American s...	Wile...
2009	Scientometrics	akad
2004	Strategic management ...	Wile...
1983	Journal of information Sci...	journ
2005	Business & ...	jourr
2005	Scientometrics	Sprin
2006	scientometrics	Sprin
2006	Scientometrics	akad
1995	Scientometrics	akad
2001	Information processing &...	Elsev
2002	Scientometrics	akad
1985	Research policy	acad
1997		oecd
2004	Scientometrics	akad
1996	Scientometrics	akad
2007	Technovation	Elsev

Harzing's Publish or Perish 6.40.6326.6879

File Edit Query View Help

My queries
Saved queries
Trash

Query	Source	Papers	Cites	Cites/y...	h	g	hl,no...	hl,ann...	*C...	Query date	Cache date	Last...
journal, bibliometric from 2017...	G Google Sc...	160	1187	1187.00	17	26	9	9.00	40	19/11/2018	n/a	12...
bibliometric	G Google Sc...	220	39983	815.98	117	195	88	1.80	125	19/11/2018	19/11/2018	1223

Google Scholar query

Authors: journal

Publication/Journal: journal

All of the words:

Any of the words:

None of the words:

The phrase:

Metrics Help

Publication years: 2017-2018
Citation years: 1 (2017-2018)
Papers: 160
Citations: 1187
Cites/year: 1187.00
Cites/paper: 7.42
Cites/author: 480.09
Papers/author: 79.38
Authors/paper: 2.83
h-index: 17
g-index: 26
hl,norm: 9
hl,annual: 9.00
"Count": 40

Results

Copy to Clipboard
Save as File...

How to search with Google Scholar

Years: 2017 - 2018
ISSN:
Lookup
Clear All
Revert
Copy
New

Query in Progress

Please wait while the query is being processed.

Querying journal, bibliometric from 2017 to 2018 [Google Scholar]

160 out of maximum 660 results so far; limiting the request rate...
Estimated time remaining: 8:20

Current request:

Overall progress:

Query rates: 4/48 rpm | 38/10m | 96/h | 96/4h | 572 total

Year Publication Publisher

2017 Malaysian Journal of Libra... ajba.um.edu

2017 International Journal of F... Springer

2017 Journal of Intelligent & ... content.io

2017 Malaysian Journal of Libra... jice.um.edu

2017 Journal of Urban Technolog... Taylor & F

2017 European Journal of ... Elsevier

2017 Journal of Business ... emeraldin

2017 Journal of ... jcmr-onlinr

2017 Journal of cleaner produc... Elsevier

2017 Journal of Innovation & ... Elsevier

2017 International Journal ... Wiley Onli

2017 International Journal of ... Taylor & F

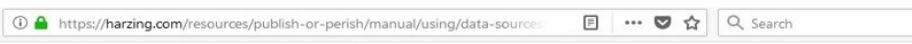
2017 International Journal of ... Elsevier

2017 ...Journal of Library Scienc... researchgate

2017 Journal of Cleaner Produc... Elsevier

2017 Journal of cleaner ... Elsevier

Thirty Years of the International Journal of Intelligent Systems: A Bibliometric Review
Literature review on the 'Smart Factory' concept using bibliometric tools
Collaboration in BIM-based construction networks: A bibliometric-qualitative literature review
Analysis of Bibliometric term in Scopus
Corporate social responsibility for supply chain management: A literature review and bibliometric analysis
A bibliometric review: Energy consumption and greenhouse gas emissions in the residential sector



Home > Resources > Publish or Perish > Publish or Perish 6/7 Manual > Using Publish or Perish > Data sources > Scopus

Scopus

David Adams - Thu 5 Oct 2017 09:59 (updated Sat 11 Aug 2018 15:15)

The **Scopus query** pane in Publish or Perish allows you to perform a Scopus query and analyse its results; it contains a structured version of the parameters accepted by Scopus. Publish or Perish uses these parameters to perform a Scopus query, which is then analyzed and converted to a number of statistics. The results are available on-screen and can also be copied to the Windows clipboard (for pasting in other applications) or saved to a text file (for future reference or further analysis).

Scopus API key

You will need to request a Scopus API key before you can run Scopus queries. For detailed instructions, see [Scopus API key](#).

How to perform a Scopus search

To perform a Scopus search:

1. Enter the relevant parameters in the various fields (see below for an explanation of each parameter);
2. Click **Lookup** or press the **Enter** key.

The program will now contact Scopus to obtain the citations, process the list, and calculate the citation metrics, which are then displayed in the results list. The full list of results is also available for inspection or modifications and can be exported in a variety of formats.

Scopus API key

David Adams - Thu 5 Oct 2017 10:02 (updated Thu 19 Apr 2018 18:16)

The **Scopus API key** dialog box appears when you click the **Request key** button the the **Preferences: Scopus** dialog box, or automatically when you perform a **Scopus query** without an API key.

The dialog box directs you to the [Elsevier Developers web site](#) to obtain a (free) API key from Elsevier, then lets you enter the API key for Publish or Perish to use. Publish or Perish then presents this API key to the [Scopus](#) server each time it performs a query.

The dialog box contains the following fields:

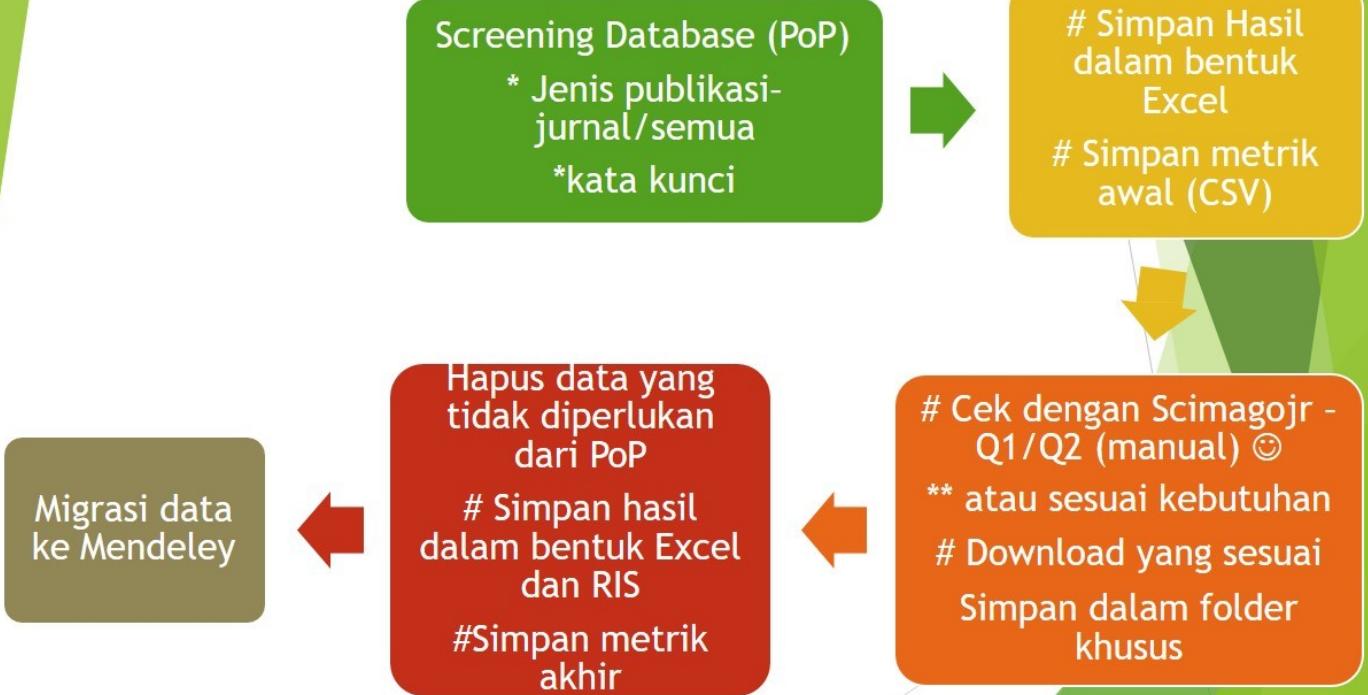
Field name	Description
(main text field)	Instructions on obtaining a Scopus API key. Please follow these instructions to register for a subscription key, then copy and paste the resulting key into the API key field below.
API key	Paste the API key that you received from Elsevier in this field so Publish or Perish can use it during Scopus queries . If you previously entered a subscription key, it will be shown here.
OK	Click this button to enter the API key for use by Publish or Perish, then close the dialog box.
Cancel	Click this button to dismiss the dialog box without updating Publish or Perish's copy of the API key.

Copyright © 2018 David Adams. All rights reserved. Page last modified on Thu 19 Apr 2018 18:16

2.2 CITATION METRICS

Publish or Perish calculates the following citation metrics.

- Total number of papers
- Total number of citations
- Years active
- Average number of citations per year
- Average number of citations per paper
- Average number of citations per author
- Average number of papers per author
- Average number of authors per paper
- Hirsch's h-index and related parameters, shown as h-index and Hirsch $a=y.yy$, $m=z.zz$ in the output. [a and m are shown below the fold]
- Egghe's g-index, shown as g-index in the output
- The contemporary h-index, shown as hc-index and ac= $y.yy$ in the output
- Three variations of the individual h-index, shown as hl-index, hl,norm, and hm-index in the output
- The age-weighted citation rate and related metrics
- Zhang's e-index.



Migrasi data ke Mendeley
Buat folder khusus
Pindahkan data ke folder ini



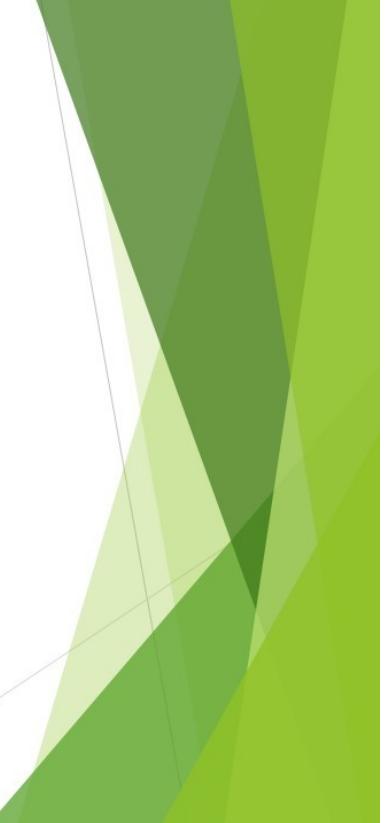
Buka artikel satu per satu, baca, buat catatan di ‘note’,
Saring sesuai kebutuhan dengan kata kunci
-- misal lokasi riset : AS, Eropa, Jepang, China, Indonesia
data kuantitatif siap diolah



Peneliti
#TEMA - judul dan abstrak



Mapping data
peneliti
tema
VOSViewer
(Bentuk data RIS)



VOSViewer

-Visualisasi -- Mapping Data-

Software untuk Visualisasi (Van Eck dan Waltman, 2014)

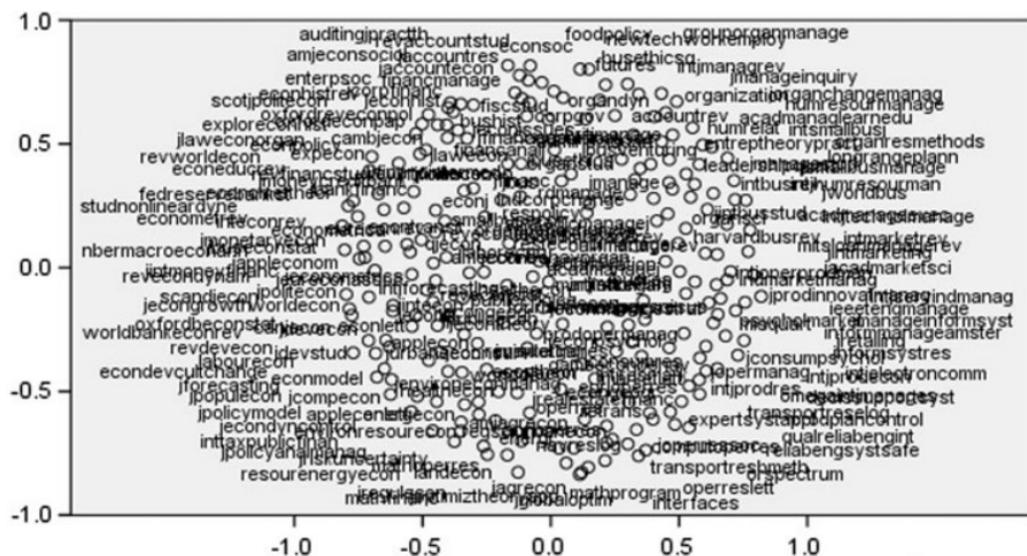
CitNetExplorer	http://www.citnetexplorer.nl
CiteSpace	http://cluster.cis.drexel.edu/~cchen/citespace/
Gephi	https://gephi.org
HistCite	http://www.histcite.com
Pajek	http://pajek.imfm.si
Sci ²	https://sci2.cns.iu.edu
VOSviewer	http://www.vosviewer.com

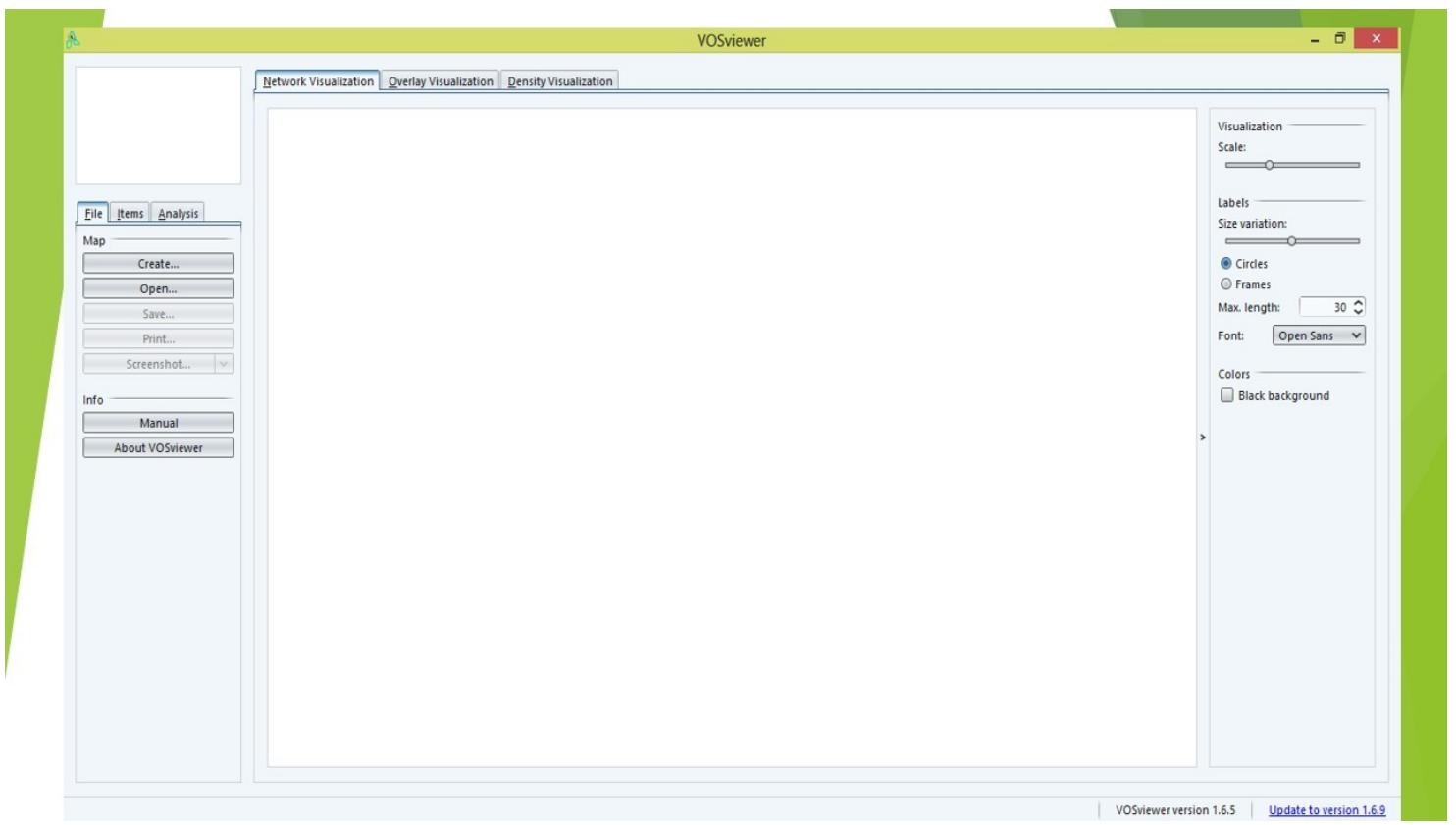
VOSViewer

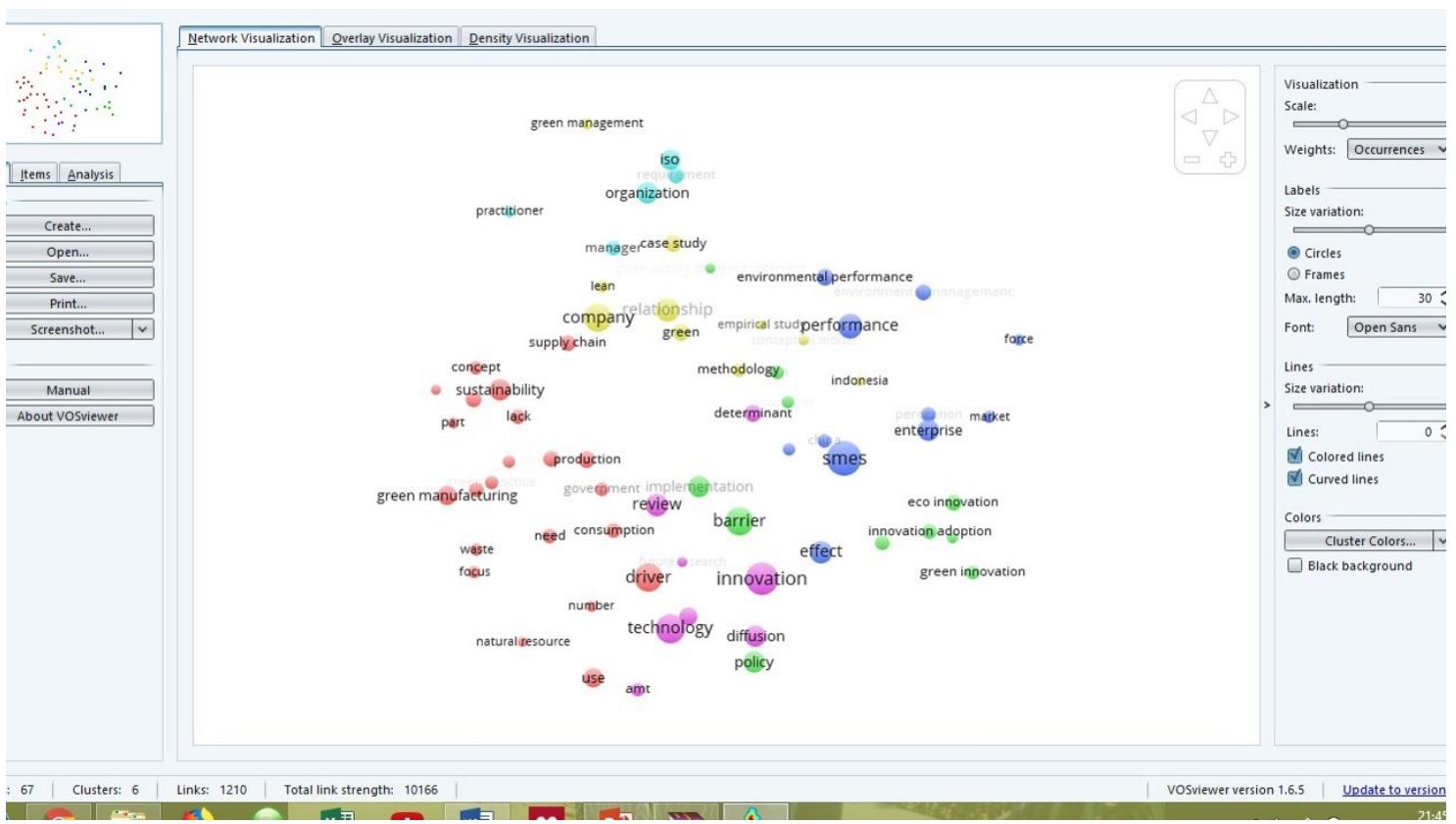
(Van Eck dan Waltman, 2010)

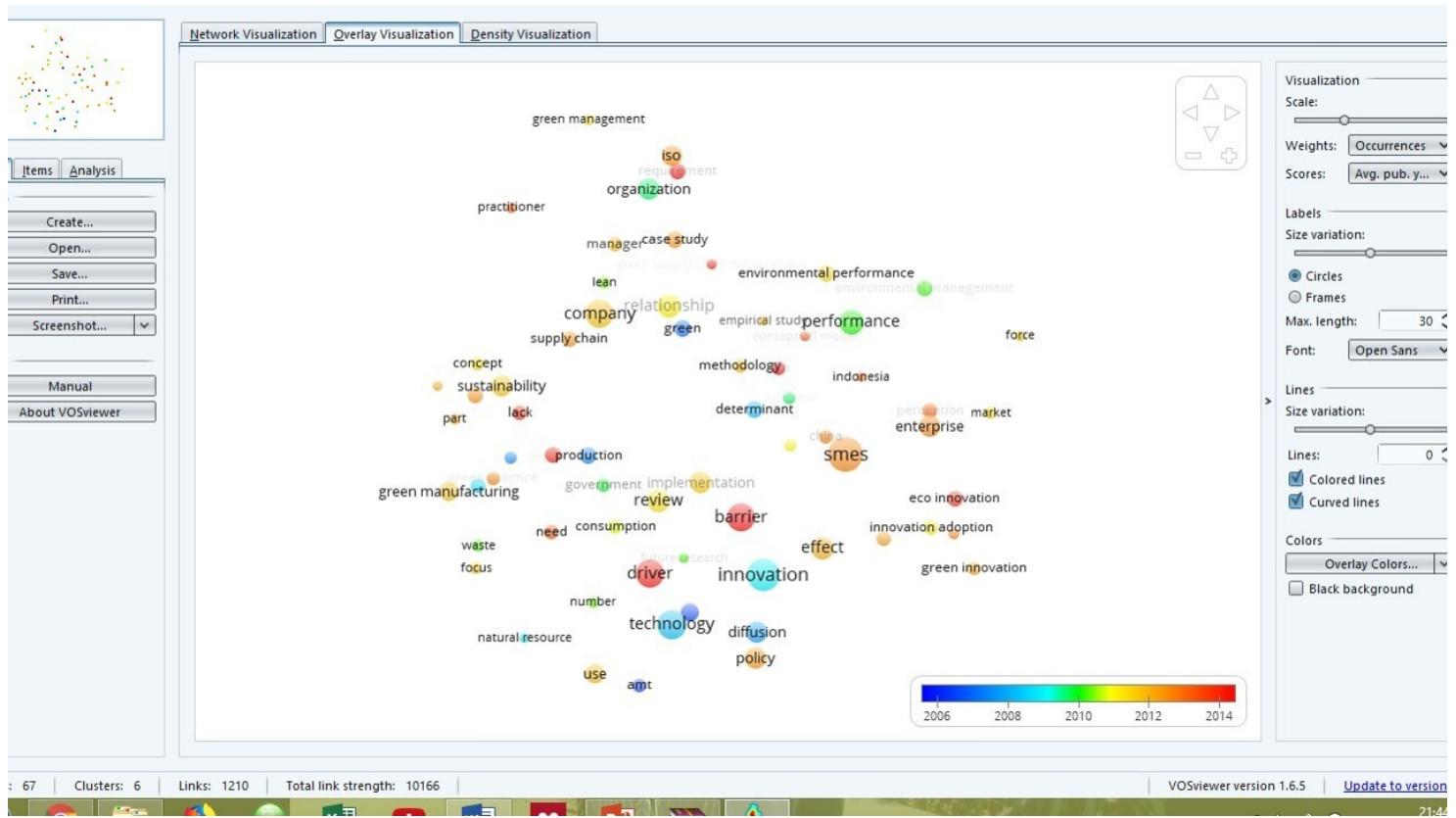
- VOSviewer adalah program untuk menyusun dan menampilkan peta *bibliometric*.
- VOS -- *visualization of similarities*
- Gratis, dapat didonlot di www.vosviewer.com.
- SPSS dan Pajek - overlapping label (Van Eck dan Waltman, 2010)

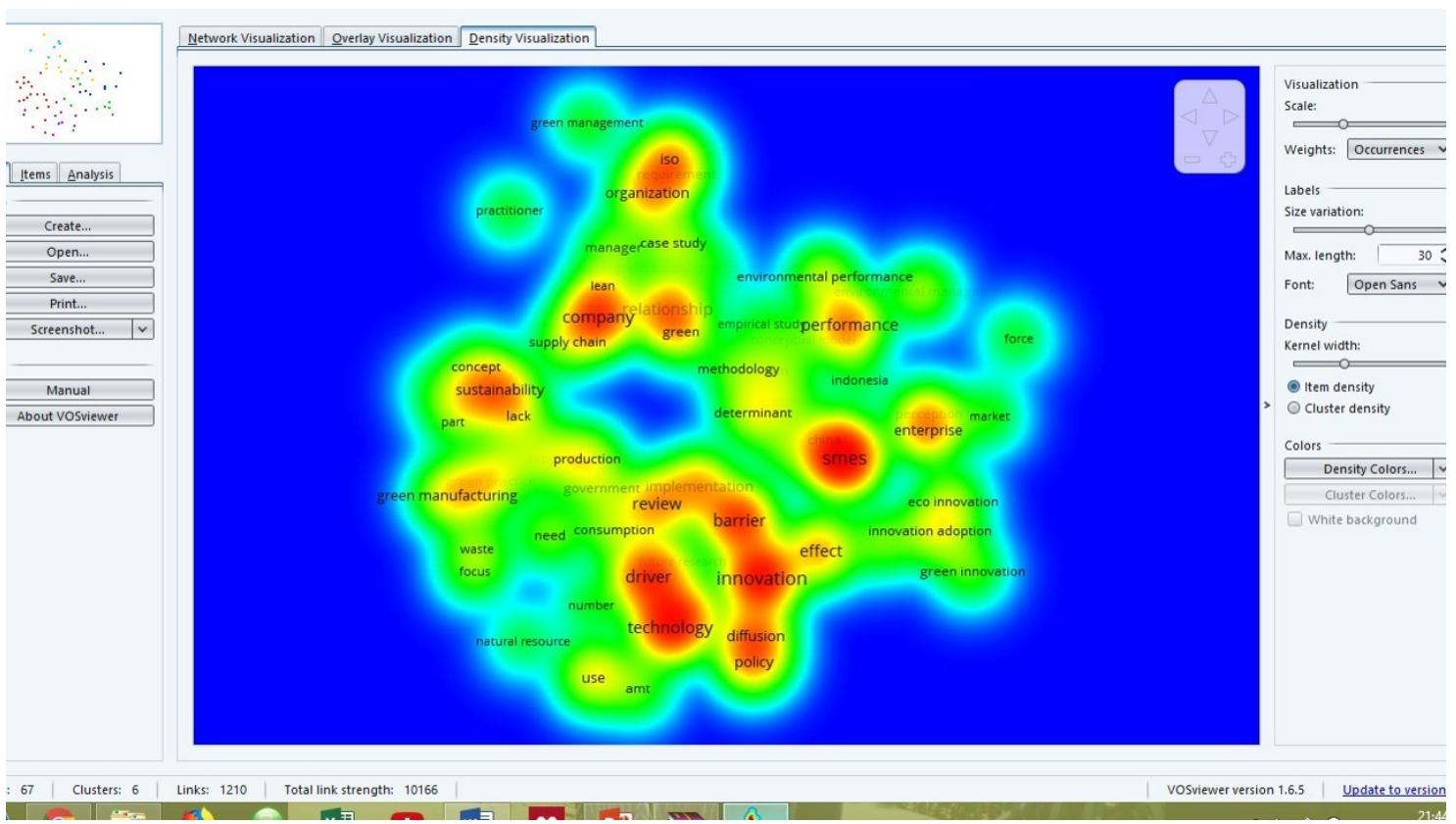
SPSS (Van Eck dan Waltman, 2010)











Bibliometric analysis of the term ‘green manufacturing’ (Setyaningsih, *et al.*, 2018)

→ Mengadopsi metode analisis bibliometrik dari Fahimnia *et al.* (2015)

1. Mendefinisikan kata kunci pencarian
2. Hasil pencarian awal
3. Hasil pencarian perbaikan,
4. Kompilasi statistik data awal
5. Analisis data

1. Mendefinisikan kata kunci pencarian

- ✓ Menggunakan software PoP dengan Google Scholar database
- ✓ Mengatur kondisi input ‘jurnal’, ‘title words only’, dan tahun ‘0-0’.
- ✓ Mengesampingkan buku, bab, majalah dan publikasi yang lain
- ✓ Mendapatkan 374 artikel dalam kurun waktu 1830 sampai 2017 (188 tahun).

2. Hasil pencarian awal

- ❑ Jurnal tertua tahun 1830
- ❑ Terdapat beberapa artikel yang tidak sesuai “green country”, “green tea” dll



3. Hasil Pencarian Perbaikan

Search screening	Number of articles
Not relevant (green tea, green gold)	18
Not in English (Indonesia, Malaysia)	2
Unidentified/citation link only/rejected website	9
Double	5
Less than four pages	3
Editorial/book review	2
Q3/Q4/none from Scimagojr list	244
Non-business topics	15
Q1/Q2	76
Total	374

4. Kompilasi statistik data awal

- Buang data tidak terpakai di PoP
- Simpan data hasil akhir pencarian dalam bentuk RIS
- Download semua artikel - jika tidak memungkinkan cukup abstrak dan judul
- Simpan dalam folder khusus di Mendeley
- Buat analisis statistik data

Perbandingan Metrik

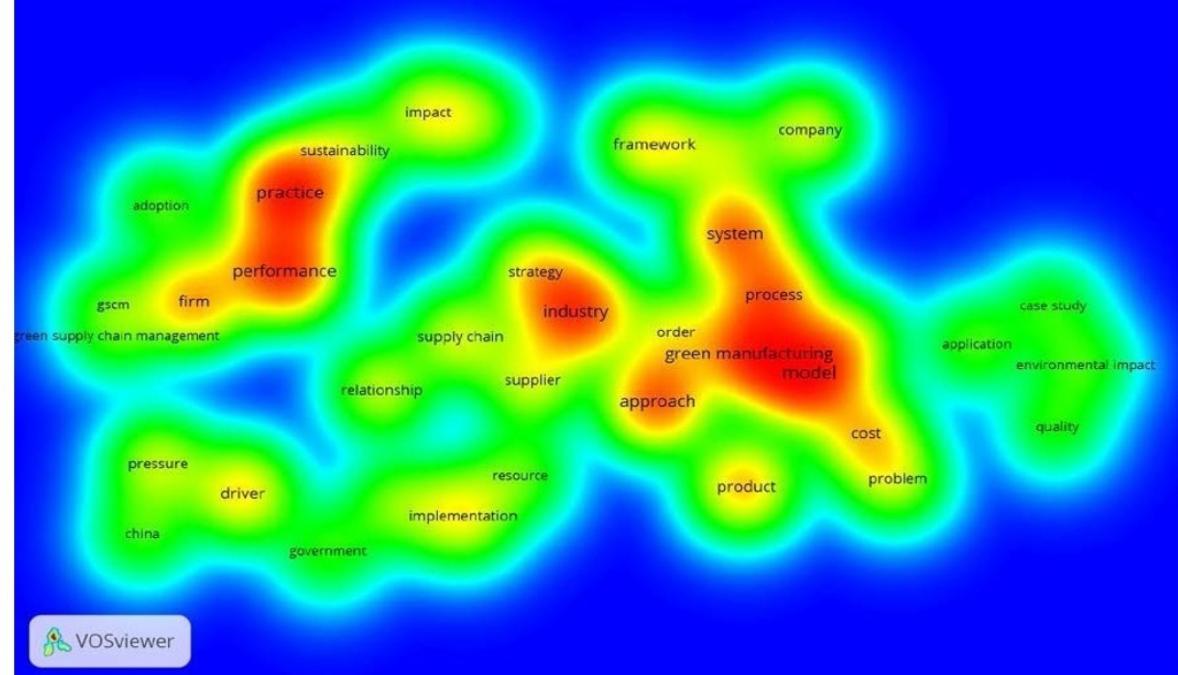
<i>Metrics data</i>	<i>Initial search</i>	<i>Refinement search</i>
Query	Journal, green manufacturing	Journal, green manufacturing from 1998 to 2017
Source	Google Scholar	Google Scholar
Papers	374	76
Citations	5,593	3,714
Years	(1830–2017) 188 years	(1998–2017) 20 years
Cites_Year	29.91	195.47
Cites_Paper	14.95	48.87

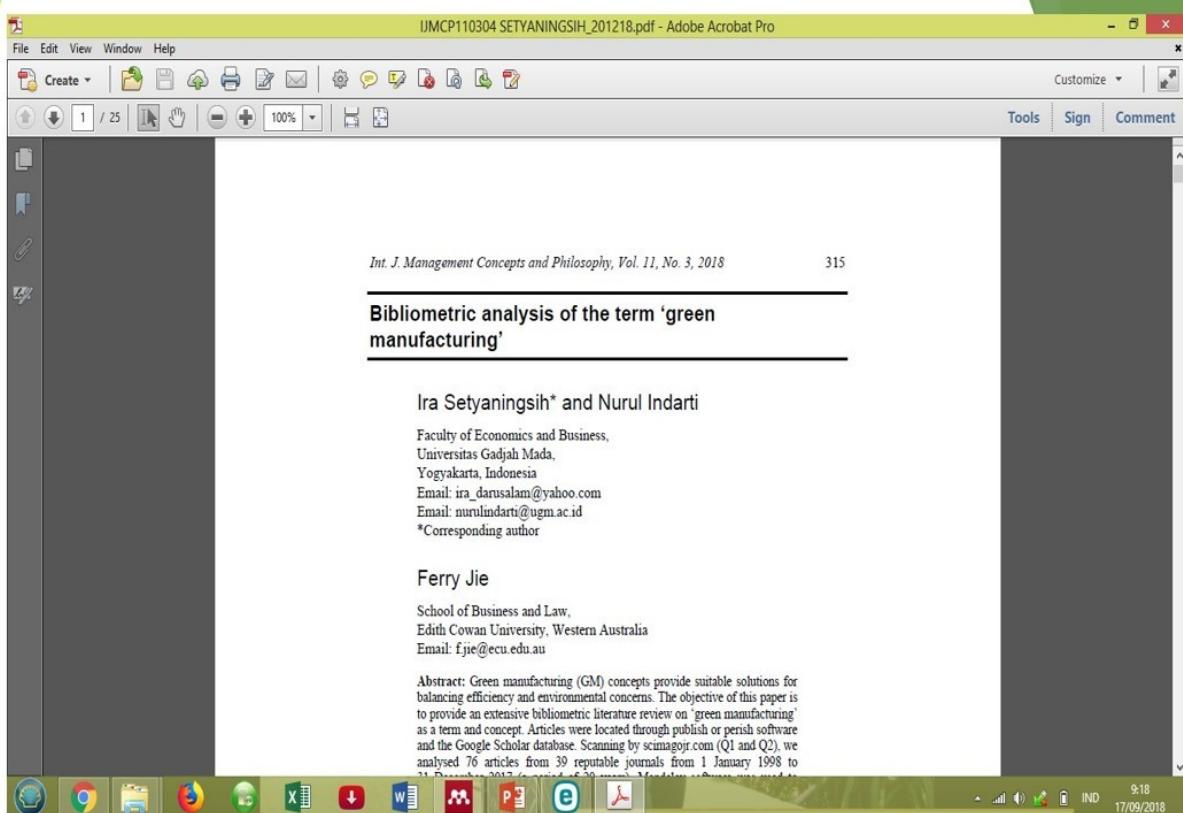
5. Analisis Data

- Analisis Bibliometrik
- Mapping Data



No.	Citations	Per year	Authors	Title	Year	Publication	Publisher
1	1507	115.92	Zhu and Sarkis	Relationships between operational practices and performance among early adopters of green supply chain management practices in Chinese manufacturing enterprises	2004	<i>Journal of Operations Management</i>	Elsevier
2.	209	11	Azzzone and Noci	Identifying effective PMs for the deployment of 'green' manufacturing strategies	1998	<i>International Journal of Operations & Production Management</i>	emeraldinsight.com
3	201	28.71	Shang et al.	A taxonomy of green supply chain management capability among electronics-related manufacturing firms in Taiwan	2010	<i>Journal of Environmental Management</i>	Elsevier
4	195	32.5	Zhang	Green QFD-II: a life cycle approach for environmentally conscious manufacturing by integrating LCA and LCC into QFD matrices	1999	<i>International Journal of Production Research</i>	Taylor & Francis
5	195	10.83	Deif	A system model for green manufacturing	2011	<i>Journal of Cleaner Production</i>	Elsevier
6	146	9.73	Madu et al.	A hierachic metric approach for integration of green issues in manufacturing: a paper recycling application	2002	<i>Journal of Environmental Management</i>	Elsevier
7	139	15.44	Chung and Wee	Green-component life-cycle value on design and reverse manufacturing in semi-closed supply chain	2008	<i>International Journal of Production Economics</i>	Elsevier
8	137	9.13	Tan et al.	A decision-making framework model of cutting fluid selection for green manufacturing and a case study	2002	<i>Journal of Materials Processing Technology</i>	Elsevier
9	125	25	Wong et al.	Green operations and the moderating role of environmental management capability of suppliers on manufacturing firm performance	2012	<i>International Journal of Production Economics</i>	Elsevier
10	119	14.88	Hong et al.	Implementation of strategic green orientation in supply chain: an empirical study of manufacturing firms	2009	<i>European Journal of Innovation Management</i>	emeraldinsight.com
11	67	33.5	Govindan et al.	Analyzing the drivers of green manufacturing with fuzzy approach	2015	<i>Journal of Cleaner Production</i>	Elsevier
12	64	21.33	Mitra and Datta	Adoption of green supply chain management practices and their impact on performance: an exploratory study of Indian manufacturing firms	2014	<i>International Journal of Production Research</i>	Taylor & Francis



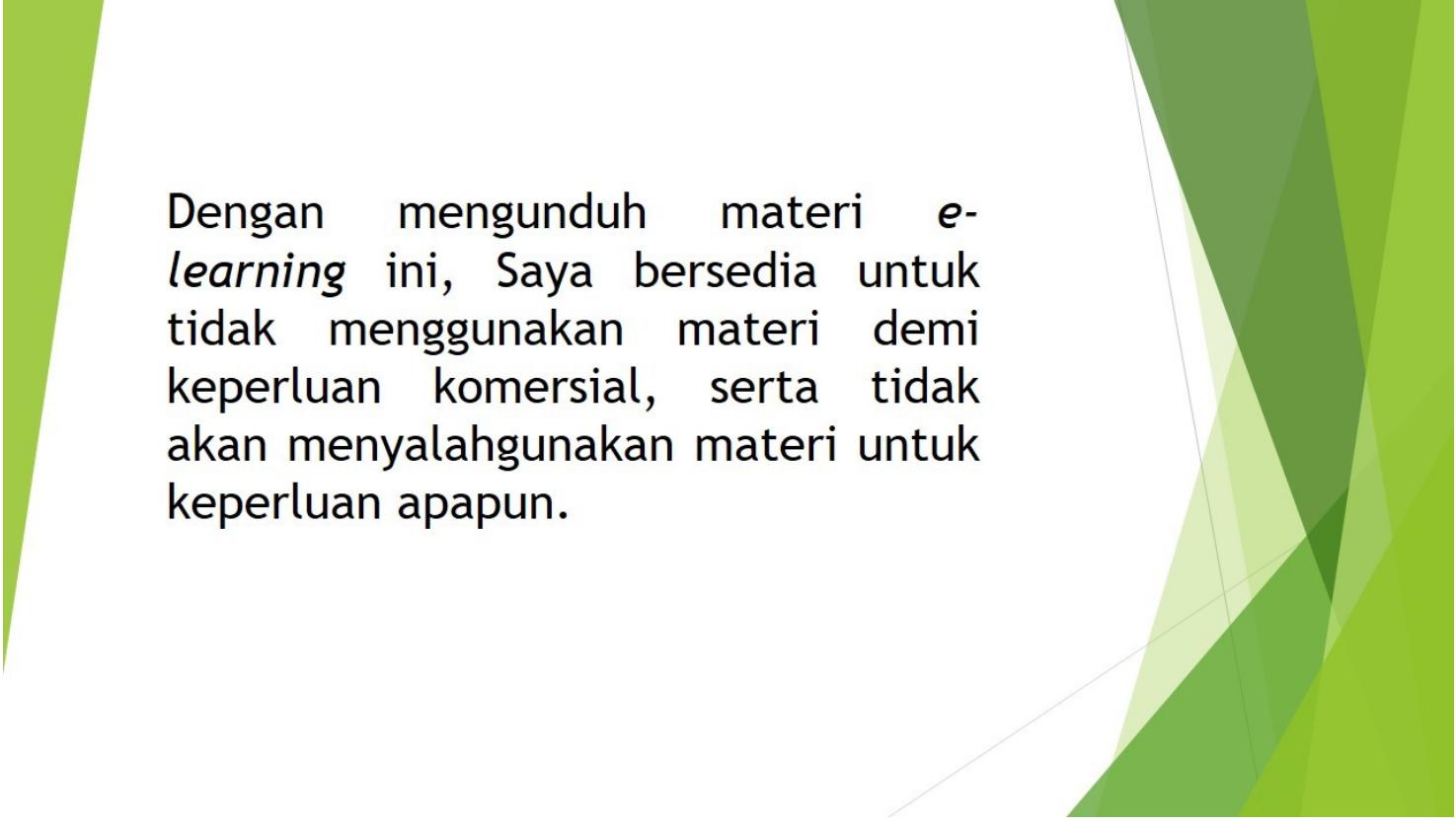


Paper tentang Bibliometrik

Judul	Penulis	Tujuan	Jurnal	Scimagoj R	Database	Tool/s
A Bibliometric Analysis of 30 Years of Research and Theory on Corporate Social Responsibility and Corporate Social Performance	De Bakker <i>et al.</i> (2005)	Menganalisis tiga pandangan pada literatur kinerja sosial perusahaan	Business & Society	Q2	Web of Science	UCINET network dan software Automap
Bibliometric analysis of absorptive capacity	Apriliyanti & Alon (2017)	Mengidentifikasi aliran riset <i>absorptive capacity</i> selama 5 tahun	International Business Review	Q1	Web of Science	HistCite dan VOSviewer
A bibliometric study of service innovation research: Based on complex network analysis	Zhu & Guan (2013)	Menganalisis riset ilmiah di bidang inovasi layanan, dan temukan fokus penelitiannya.	Scientometrics	Q1	Web of Science	Pajek
Green supply chain management: A review and bibliometric analysis	Fahimnia <i>et al.</i> (2015)	Pemetaan sistematis yang menggambarkan evolusi publikasi, bidang penelitian saat ini dan arah potensial penelitian masa depan.	International Journal of Production Economics	Q1	Scopus	Bibexcel dan Pajek
A bibliometric view on the use of contingency theory in project management research	Hanisch & Wald (2012)	mengidentifikasi penulis yang mendominasi, dan fokus dalam teori kontingensi serta jenis proyek	Project Management Journal	Q1 / Q2	Jurnal spesifik	Tidak dijelaskan
A bibliometric analysis of social entrepreneurship		Klasifikasi Jurnal dan Penulis	Journal of Business Research	Q1	Web of Science	Journal Citation Reports



Semoga Bermanfaat



Dengan mengunduh materi *e-learning* ini, Saya bersedia untuk tidak menggunakan materi demi keperluan komersial, serta tidak akan menyalahgunakan materi untuk keperluan apapun.