Conducting a literature search

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Definition: Literature review

“A literature review is a text of a scholarly paper, which includes the current knowledge including substantive findings, as well as theoretical and methodological contributions to a particular topic. Literature reviews are secondary sources, and do not report new or original experimental work.”

-Wikipedia, accessed on 23 March 2017
A good literature review

• Comprehensive
• Fair in treatment of authors – do not presume that you know all authors within the field
• Critical analysis
• Topical – not dated
• Not confined to internet resources
• Contextualised
Research Process Cycle

1. **Specifying a Purpose for Research:** Identifying the purpose statement, Narrowing the purpose statement to research questions or hypothesis
2. **Reviewing the literature:** Locating resources, Selecting resources, Summarizing resources.
3. **Identifying a Research Problem:** Specifying a problem, Justifying it, Suggesting the need to study it for audiences
4. **Analyzing and Interpreting data:** Breaking down the data, Representing the data, Explaining the data
5. **Reporting and Evaluating Research:** Deciding on audiences, Structuring the report, Writing the report sensitivity
Contents:

- Library overview
- How & where to find information
  - SAGE
  - Scopus
- Interlending
- Endnote
Why the library web interface?

- One simple search interface.
- Locate books, articles, journals, videos
- Specialized databases can be accessed, such as ScienceDirect, EBSCO, etc.
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Motivational quote

Always do your best. What you plant now, you will harvest later. - Og Mandino

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This Research Guide provides tips and tools for postgraduate students to complete their research.

Additional sources:

- Hatfield Research Commons
- Groenkloof Research Commons
- Information specialists

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- Training schedule for postgraduate students

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Welcome to the Chemical Engineering subject guide.

This guide will provide students, researchers and staff with access to subject and information resources.
### Videos
- Searching 101
- Evaluating websites tutorial

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- 3rd & 4th year presentation
- Water utilization presentation
- Postgraduate presentation
Assignment

What is the effect of sulphur on the lubricity of diesel fuel?
Where to start ...
But how?

- analyse **T**opic
- **U**nderstand concepts
- determine **K**eywords
- do the **S**earch
Assignment

What is the effect of sulphur on the lubricity of diesel fuel?
What is the effect of sulphur on the lubricity of diesel fuel?
Where to search

• Encyclopaedias and reference works
• Handbooks
• Research articles
• Internet
Search University of Pretoria Libraries and beyond.

diesel fuels
1. **Dual-fuel diesel engines**
   by G.A. Kajim
   *eBook 2015*
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   This book offers an integrated and balanced discussion of the different types of gaseous fuels that can be used within dual fuel diesel engines. It presents a comprehensive and well-integrated... Read More
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2. **Alcoholic fuels**
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   *Print book 2006*
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   "Scientists and engineers have made significant advances over the last two decades to achieve feasible, cost-efficient processes for the large-scale production of alternative, environment... Read More
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3. **Pounders marine diesel engines and gas turbines**
   by D.F. Woodward
   *eBook 2009*
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   Since its first appearance in 1950, Pounder's Marine Diesel Engines has served seagoing engineers, students of the Certificates of Competency examinations and the marine engineering indu... Read More
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3. An imprecise fuzzy risk approach for water quality management of a river system.

by Rehana S, Affiliation: Mujumdar PP
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Source: Journal of environmental management 2009 Aug; 90(11): 3653-64
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sulphur AND lubricity AND "biodiesel fuel"
sulphur AND lubricity AND "biodiesel fuel"

4.5.22.1 Biodiesel Fuel
From Significance of Tests for Petroleum Products (8th Edition); (MN11-8th) (2010)

...Test Method for Sulfur in Petroleum Products (Lamp Method) D1298 Test Method for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method D1319 Test Method... More

24.4.11.1 Biodiesel Fuel/Lubricity Additives

...Bernie Y. Tao 624 emissions. In addition to improving the lubricating effect of diesel fuel at low additive levels (1%), methyl esters are also effective diesel fuels, and reduce sulfur oxides, particulate emissions, nitrogen... More

14.4 Performance Characteristics for Biodiesel
From Biodiesel Science and Technology - From Soil to Oil (2010)

...characteristics for biodiesel Fuel properties important for potential diesel applications include: lubricity, cetane number (CN), density, viscosity, heating value, sulphur, flash point, cloud point, distillation... More
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If the title is very general, like ‘Research methodology’, also add the author
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   - Held by: University of Pretoria Libraries
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Biodiesel fuel from rapeseed oil as prepared in supercritical methanol
S Saka, D Kusdiana - Fuel, 2001 - Elsevier
Transesterification reaction of rapeseed oil in supercritical methanol was investigated without using any catalyst. An experiment has been carried out in the batch-type reaction vessel preheated at 350 and 400 °C and at a pressure of 45–65MPa, and with a molar ... Cited by 906 Related articles All 21 versions Web of Science: 456 Cite Save

Biodiesel fuels from vegetable oils via catalytic and non-catalytic supercritical alcohol transesterifications and other methods: a survey
A Demirbaş - Energy conversion and Management, 2003 - Elsevier
Vegetable oil fuels have not been acceptable because they were more expensive than petroleum fuels. With recent increases in petroleum prices and uncertainties concerning petroleum availability, there is renewed interest in vegetable oil fuels for Diesel engines. ... Cited by 887 Related articles All 8 versions Web of Science: 436 Cite Save

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M Mittelbach, C Remschmidt - 2004 - Martin Mittelbach
Cited by 501 Related articles Cite Save More

Biodiesel fuel production with solid superacid catalysis in fixed bed reactor under atmospheric pressure
S Furuta, H Matsuhashi, K Arata - Catalysis communications, 2004 - Elsevier
Solid superacid catalysts of sulfated tin and zirconium oxides and tungstated zirconia are prepared and evaluated in the tranesterification of soybean oil with methanol at 200–300°C and the esterification of n-octaneic acid with methanol at 175–200°C. Tungstated ... Cited by 493 Related articles All 3 versions Web of Science: 269 Cite Save
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Document search

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E.g., "heart attack" AND stress

AND

Search sulphur

AND

Search lubricity
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<th>Authors</th>
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<th>Journal</th>
</tr>
</thead>
<tbody>
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<td>Preparation and Evaluation of Lubricity Additives for Low-Sulfur Diesel Fuel</td>
<td>Sun, L.; Li, M.; Ma, C.; Li, P.; Li, J.</td>
<td>2016</td>
<td>Energy and Fuels</td>
</tr>
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<td>Effect of ethanol on performance and durability of a diesel common rail high pressure fuel pump</td>
<td>Mickevičius, T.; Slavinskas, S.; Kroivaitis, R.</td>
<td>2016</td>
<td>Transport</td>
</tr>
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<td>Production of Cold-Flow Qualily Biodiesel from High-Addity On-Edible Oils—Esterification and Transesterification of Macauba (Acrocomia aculeata) Oil Using Various Alcohols</td>
<td>Silva, L.N.; Cardoso, C.C.; Pasa, V.M.D.</td>
<td>2016</td>
<td>Bioenergy Research</td>
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Tip: Boolean operators

diesel AND fuel

“diesel fuel”
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