



**Let's blast the topics !!**

**Department of Earth Resources Engineering**

**Let's discuss about your topics..**

# Approaching the title of the research

What is on your hand....

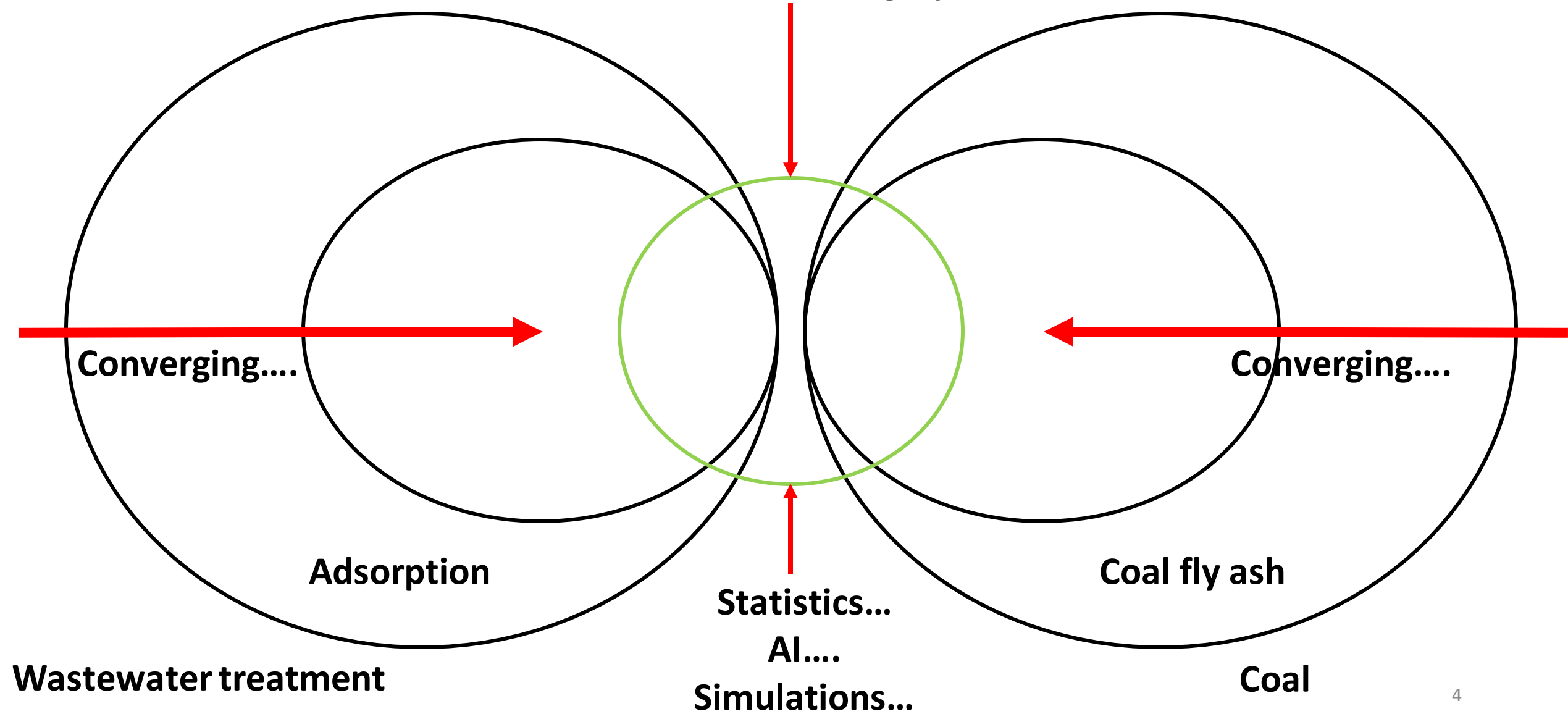
What is wastewater treatment is? And why are we focusing on that?

**Wastewater treatment using fly ash**

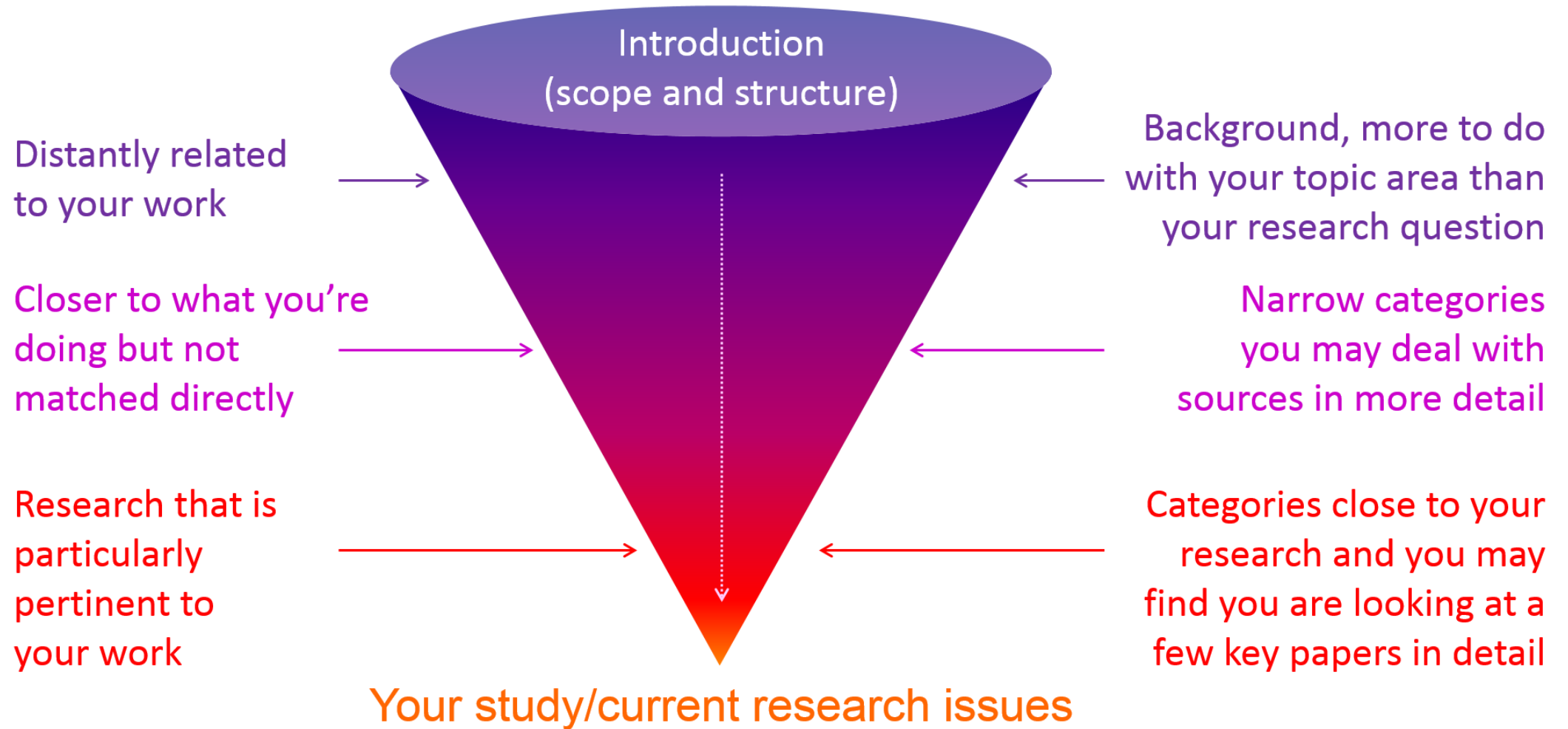
Wastewater and how it is related to our down what is fly ash? And what really “fly ash” is?

# Approaching the title of the research cont.

Wastewater treatment using fly ash



# Approaching the title of the research cont.





**SHOULD I WAKE HIM UP??**



# Keywords

Still, what is on our hand is....

**Wastewater treatment** using fly ash



**What are your keywords (one long topic please)?**

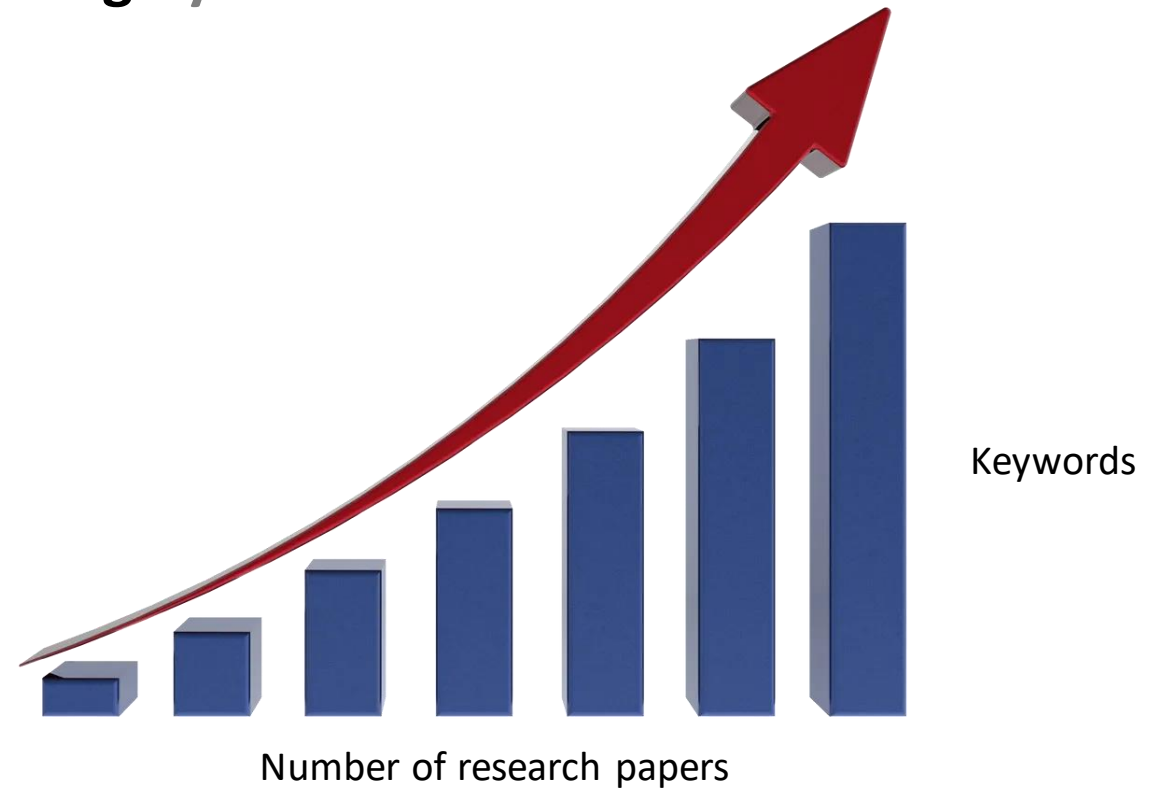
Using keywords to search will always retrieve more results than phrases or sentences.

# Keywords cont.

Still, what is on our hand is....

**Wastewater treatment** using fly ash

Will keywords be the same always?





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# Keywords and search engine

**Wastewater treatment** & fly ash



# Hunt for research articles



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☒ Articles ☐ Case law

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JJ de Felipe, J Vives\_Costa, M Bascompte, M Niubó, L Sanmiquel  
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## Review articles

☐ include patents☒ include citations

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### Possible applications of coal fly ash in wastewater treatment

F Mushtaq, M Zahid, IA Bhatti, S Nasir... - Journal of environmental .... 2019 - Elsevier

... oxide, titania, etc.) make coal **fly ash** amenable material for potential application ... **wastewater treatment**. Few reports have summarized the coal **fly ash** utilization in **wastewater treatment** ...

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## Fly ash adsorbents for multi-cation wastewater treatment

M Visa, L Isac, A Duta - Applied Surface Science, 2012 - Elsevier

Class "F" fly ash (FA), collected from the Central Heat and Power (CHP) Plant Brasov (Romania), with oxides composition  $\text{SiO}_2/\text{Al}_2\text{O}_3$  over 2.4 proved good adsorbent properties. ...

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## Synthesis and characterization of new zeolite materials obtained from fly ash for heavy metals removal in advanced wastewater treatment

M Visa - Powder Technology, 2016 - Elsevier

... **treatment** is now largely applied for **wastewater treatment** using solid wastes resulted as by-products from coal combustion, among which **fly ash** ... is the conversion of **fly ash** into zeolites [...]

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## Hydrothermally modified fly ash for heavy metals and dyes removal in advanced wastewater treatment

M Visa, AM Chelaru - Applied Surface Science, 2014 - Elsevier

... **Fly ash** resulted from coal burning is a waste that can be used in **wastewater treatment** for ... A new material was obtained from modified **fly ash** with NaOH and ...

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## Synthesis of zeolite Na-P1 under mild conditions using Brazilian coal fly ash and its application in wastewater treatment

AM Cardoso, A Paprocki, LS Ferret, CMN Azevedo... - Fuel, 2015 - Elsevier


... Zeolites may be easily obtained from coal **fly ash** by ... is normally produced by hydrothermal **treatment**, this zeolite has ... under mild conditions using Brazilian coal **fly ash**. Zeolite Na-P1 ...

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### Utilization of cationic polymer-modified fly ash for dye wastewater treatment

J Zhou, K Xia, X Liu, L Fang, H Du, X Zhang - Clean Technologies and ..., 2021 - Springer

... **fly ash** adsorbent was prepared by immobilizing with poly-epichlorohydrin-dimethylamine for treating ... immobilized onto **fly ash**, and this immobilization could change the Zeta potential of ...

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Outline

Highlights



Journal of Environmental Management

Volume 240, 15 June 2019, Pages 27-46



Recommended articles



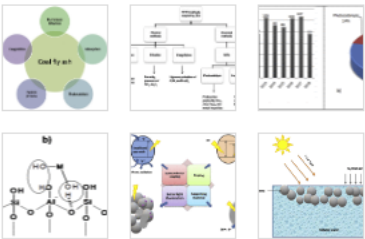
Wastewater remediation using coal fly ash nano...

Journal of Environmental Management 240 (2019) 27–46

Review

# Possible applications of coal fly ash in wastewater treatment

Farwa Mushtaq <sup>a</sup>, Muhammad Zahid <sup>a</sup> , Ijaz Ahmad Bhatti <sup>a</sup>, Saqib Nasir <sup>b</sup>, Tajamal Hussain <sup>c</sup>



treatment.

- Adsorption of heavy metal ions and dyes by coal fly ash saves the environment.
- Fly ash-based coagulants and membrane filters are effective in wastewater treatment.
- Coal fly ash can be adapted in photocatalysis as catalytic support or as a catalyst.

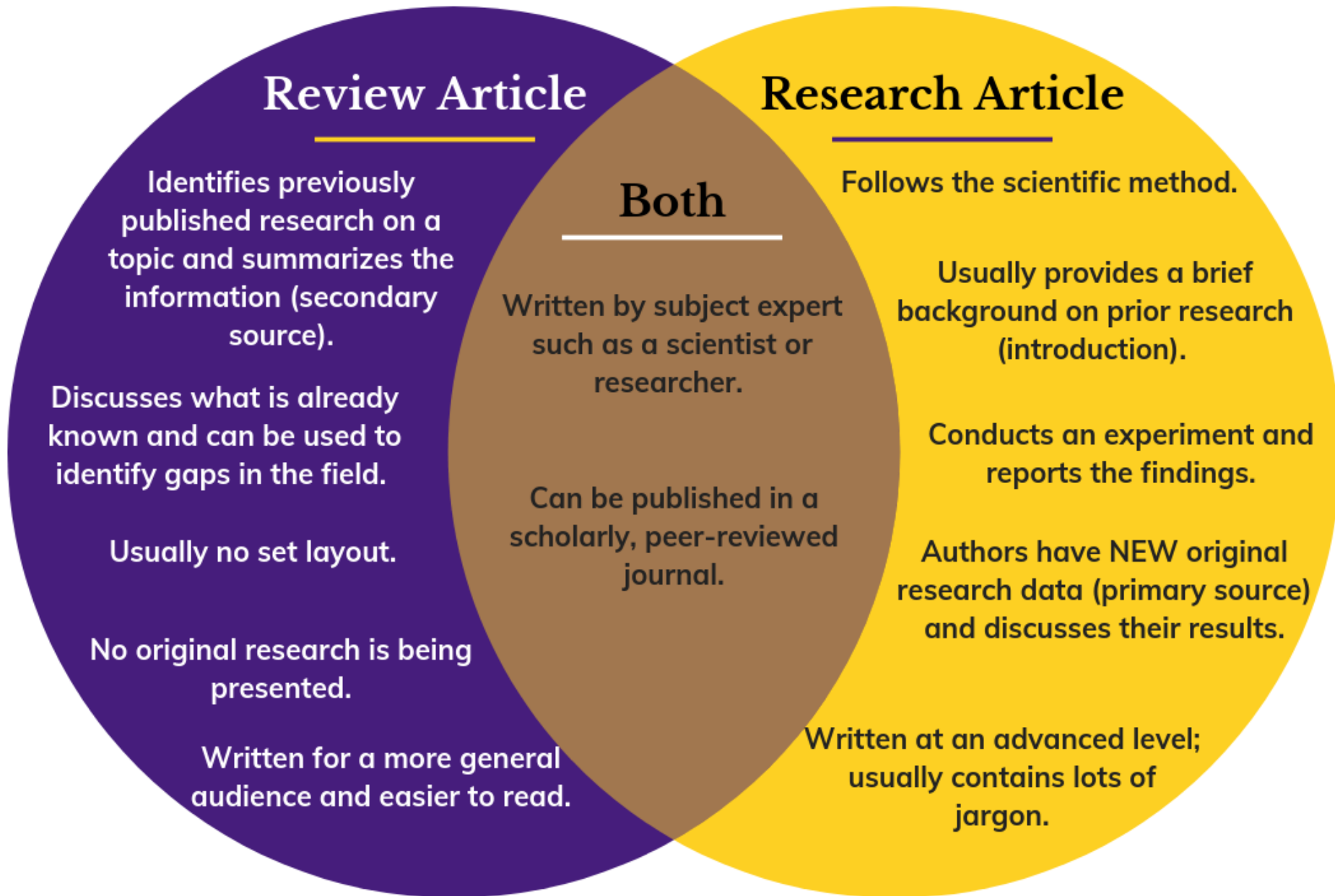
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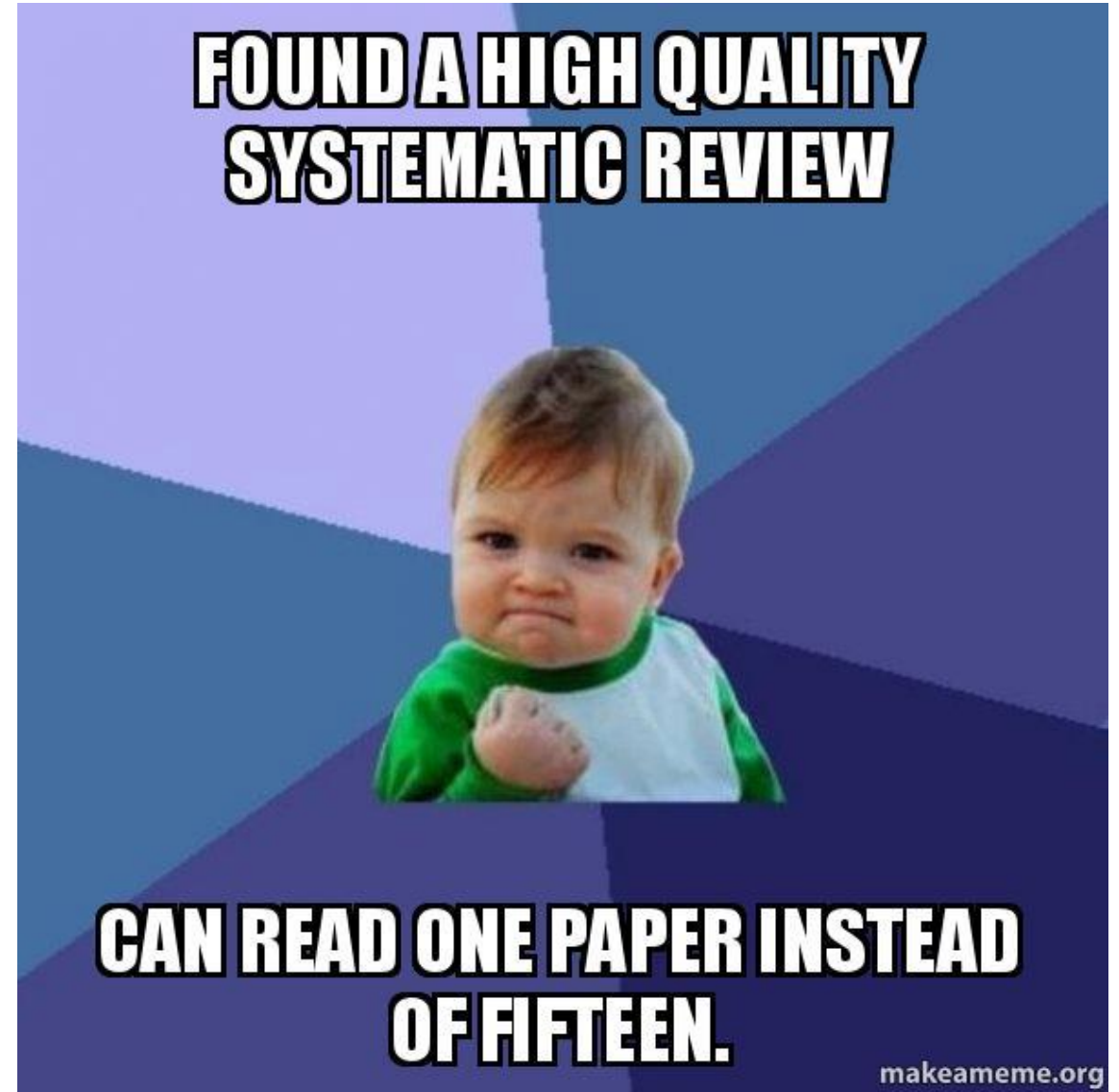
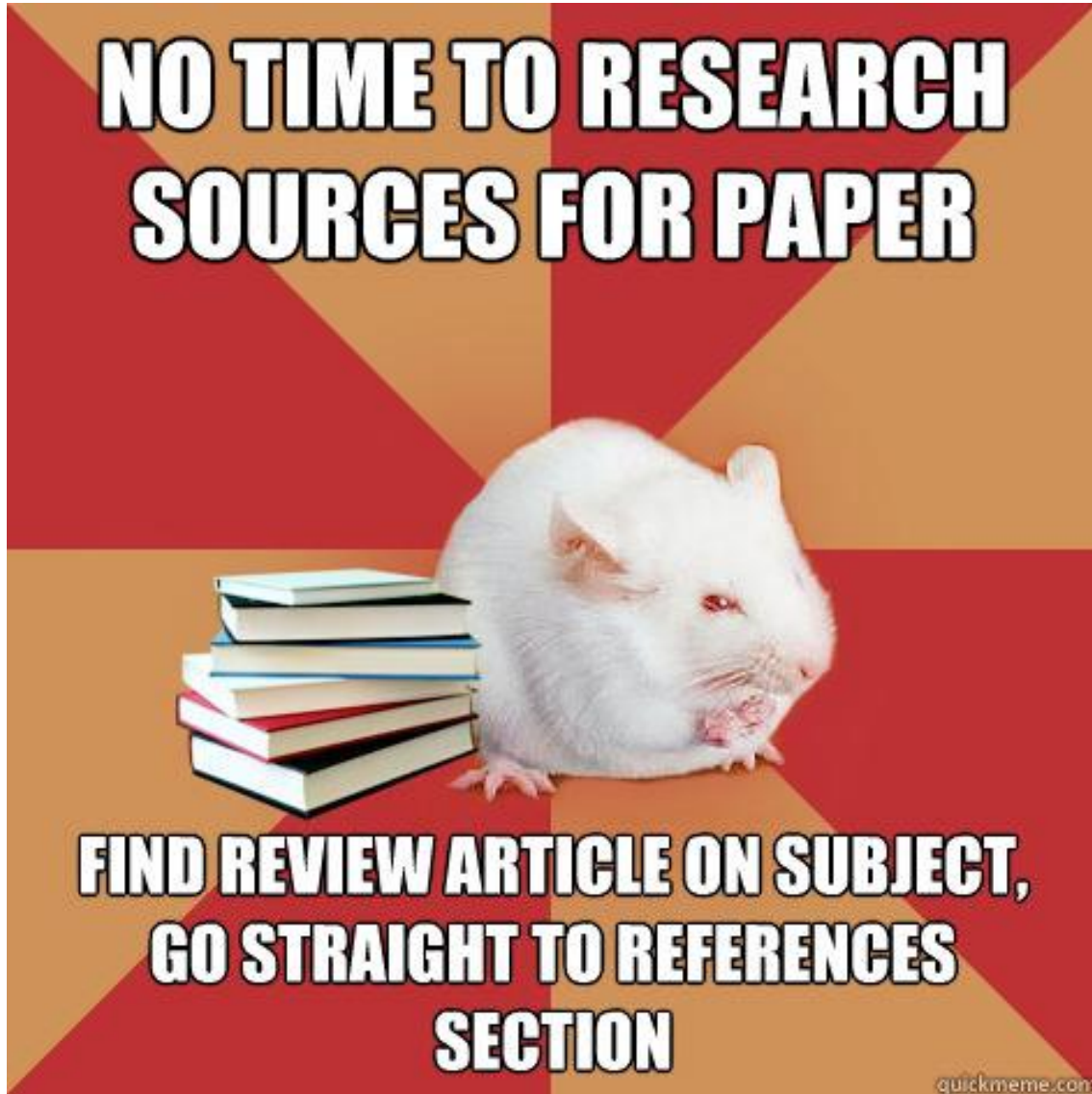
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# What is a review article?





## What is a review article? Cont.



# Other types of articles you will come across

- **Case reports – usually of a single case**
- **Technical notes - describe a specific technique or procedure**
- **Pictorial essay – teaching article with images**
- **Commentary – short article with author's personal opinions**
- **Editorial – often short review or critique of original articles**
- **Letter to the Editor – short & on subject of interest to readers**

# Hunt for research articles cont.

Review

## Possible applications of coal fly ash in wastewater treatment

Farwa Mushtaq <sup>a</sup>, Muhammad Zahid <sup>a</sup>  , Ijaz Ahmad Bhatti <sup>a</sup>, Saqib Nasir <sup>b</sup>, Tajamal Hussain <sup>c</sup>

**How do you identify the reliability of the article?**

- 1. Should be peer reviewed**
- 2. Journal and its credibility**

# Hunt for research articles cont.



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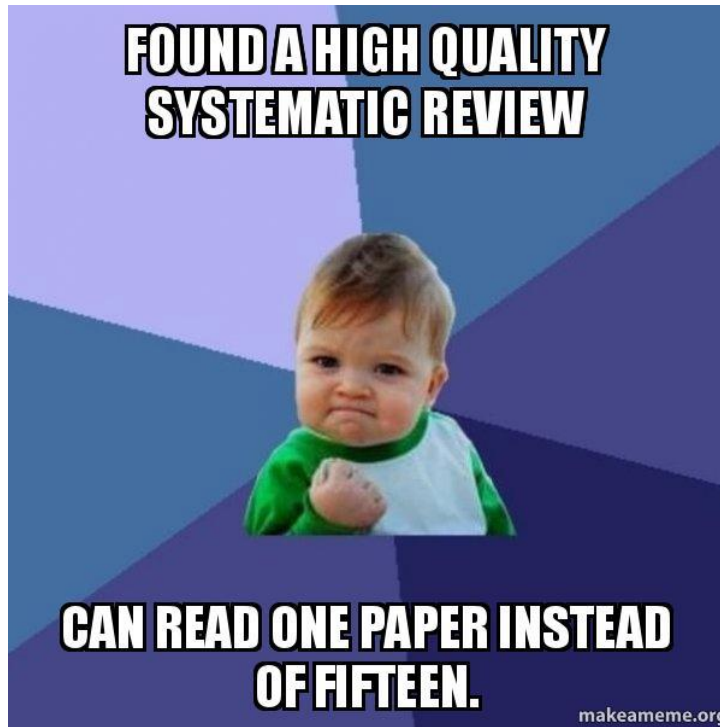
## Possible applications of coal fly ash in wastewater treatment

Farwa Mushtaq <sup>a</sup>, Muhammad Zahid <sup>a</sup>  , Ijaz Ahmad Bhatti <sup>a</sup>, Saqib Nasir <sup>b</sup>, Tajamal Hussain <sup>c</sup>

**How do you identify the reliability of the article?**

- 1. Should be peer reviewed**
- 2. Journal and its credibility**
- 3. More than anything, you need to **read** to classify it 😊**

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Journal of Environmental Management  
Volume 240, 15 June 2019, Pages 27-46

Review

Possible applications of coal fly ash in wastewater treatment

on for wastewater t...  
er treatment (WWT)

Farwa Mushtaq <sup>a</sup>, Muhammad Zahid <sup>a</sup>  , Ijaz Ahmad Bhatti <sup>a</sup>, Saqib Nasir <sup>b</sup>, Tajamal Hussain <sup>c</sup>



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Albert Einstein, 1905.



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Review

### Possible applications of coal fly ash in wastewater treatment

Farwa Mushtaq <sup>a</sup>, Muhammad Zahid <sup>a</sup>  , Ijaz Ahmad Bhatti <sup>a</sup>, Saqib Nasir <sup>b</sup>, Tajamal Hussain <sup>c</sup>

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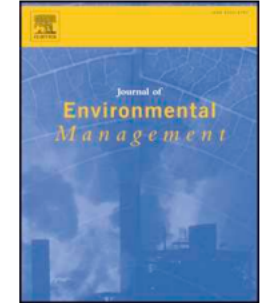
Journal of Environmental Management 240 (2019) 27–46



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Review

## Possible applications of coal fly ash in wastewater treatment

Farwa Mushtaq<sup>a</sup>, Muhammad Zahid<sup>a,\*</sup>, Ijaz Ahmad Bhatti<sup>a</sup>, Saqib Nasir<sup>b</sup>, Tajamal Hussain<sup>c</sup>


<sup>a</sup> Department of Chemistry, University of Agriculture, Faisalabad, 38040 Pakistan

<sup>b</sup> Pakistan Science Foundation, 1-Constitution Avenue G-5/2, Islamabad, Pakistan


<sup>c</sup> Institute of Chemistry, University of the Punjab, Lahore, Pakistan








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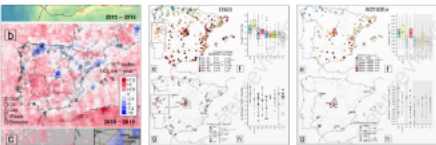
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Literature Review Article

## Possible applications of coal fly ash in wastewater treatment

June 2019 · [Journal of Environmental Management](#) 240:27-46  
DOI: [10.1016/j.jenvman.2019.03.054](#)  
Project: [Fly Ash Management: Effective recycling for novel applications](#)

Farwa Mushtaq · Muhammad Zahid · Ijaz Ahmad Bhatti · [Show all 5 authors](#) · Tajamal Hussain

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Advanced search

Filters

The screenshot shows the Google Scholar interface. A red arrow points from the text 'Advanced search' to the hamburger menu icon in the top left of the search bar. Another red arrow points from the text 'Filters' to the left-hand filter sidebar. The search bar contains the text 'wastewater treatment and fly ash'. Below the search bar, the results are displayed. The first result is titled 'Possible applications of coal fly ash in wastewater treatment' by F Mushtaq, M Zahid, IA Bhatti, S Nasir... from the Journal of environmental ... (2019 - Elsevier). The second result is titled 'Fly ash adsorbents for multi-cation wastewater treatment' by M Visa, L Isac, A Duta from Applied Surface Science (2012 - Elsevier). The third result is titled 'Synthesis and characterization of new zeolite materials obtained from fly ash for heavy metals removal in advanced wastewater treatment' by M Visa from Powder Technology (2016 - Elsevier). The filter sidebar on the left includes options for 'Any time' (Since 2022, Since 2021, Since 2018, Custom range...), 'Sort by relevance' (Sort by date), 'Any type' (Review articles), and checkboxes for 'include patents' and 'include citations' (checked). There is also a 'Create alert' button at the bottom of the sidebar.

scholar.google.com/scholar?hl=en&as\_sdt=0%2C5&q=wastewater+treatment+and+fly+ash&oq=

Google Scholar wastewater treatment and fly ash

Articles About 104,000 results (0.03 sec)

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☐ include patents  
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Possible applications of coal **fly ash** in **wastewater treatment**  
F Mushtaq, M Zahid, IA Bhatti, S Nasir... - Journal of environmental ..., 2019 - Elsevier  
... oxide, titania, etc.) make coal **fly ash** amenable material for potential application ... **wastewater treatment**. Few reports have summarized the coal **fly ash** utilization in **wastewater treatment** ...  
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Class "F" **fly ash** (FA), collected from the Central Heat and Power (CHP) Plant Brasov (Romania), with oxides composition SiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> over 2.4 proved good adsorbent properties, ...  
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Synthesis and characterization of new zeolite materials obtained from **fly ash** for heavy metals removal in advanced **wastewater treatment**  
M Visa - Powder Technology, 2016 - Elsevier  
... **treatment** is now largely applied for **wastewater treatment** using solid wastes resulted as by-products from coal combustion, among which **fly ash** ... is the conversion of **fly ash** into zeolites [...]  
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wastewater treatment and fly ash

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with **at least one** of the words

**without** the words

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☒ anywhere in the article

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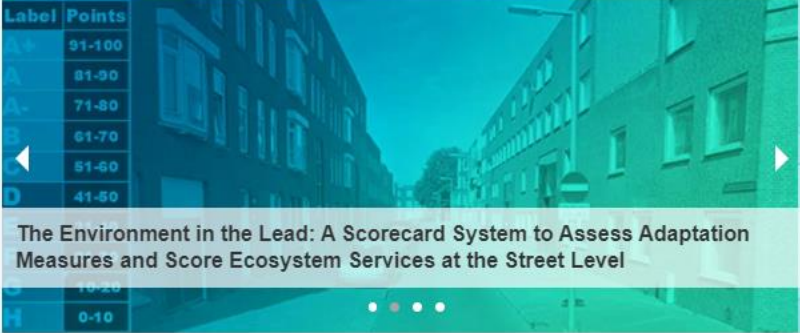
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The Environment in the Lead: A Scorecard System to Assess Adaptation Measures and Score Ecosystem Services at the Street Level

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[Submitted on 14 Oct 2022]

**Towards Transformer-based Homogenization of Satellite Imagery for Landsat-8 and Sentinel-2**

Venkatesh Thirugnana Sambandham, Konstantin Kirchheim, Sayan Mukhopadhyaya, Frank Ortmeier

Landsat-8 (NASA) and Sentinel-2 (ESA) are two prominent multi-spectral imaging satellite projects that provide publicly available data. The multi-spectral imaging sensors of the satellites capture images of the earth's surface in the visible and infrared region of the electromagnetic spectrum. Since the majority of the earth's surface is constantly covered with clouds, which are not transparent at these wavelengths, many images do not provide much information. To increase the temporal availability of cloud-free images of a certain area, one can combine the observations from multiple sources. However, the sensors of satellites might differ in their properties, making the images incompatible. This work provides a first glance at the possibility of using a transformer-based model to reduce the spectral and spatial differences between observations from both satellite projects. We compare the results to a model based on a fully convolutional UNet architecture. Somewhat surprisingly, we find that, while deep models outperform classical approaches, the UNet significantly outperforms the transformer in our experiments.

Subjects: Computer Vision and Pattern Recognition (cs.CV); Machine Learning (cs.LG); Image and Video Processing (eess.IV)

Cite as: arXiv:2210.07654 [cs.CV]  
(or arXiv:2210.07654v1 [cs.CV] for this version)  
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Journal reference: ESST2022: Transformers Workshop for Environmental Science

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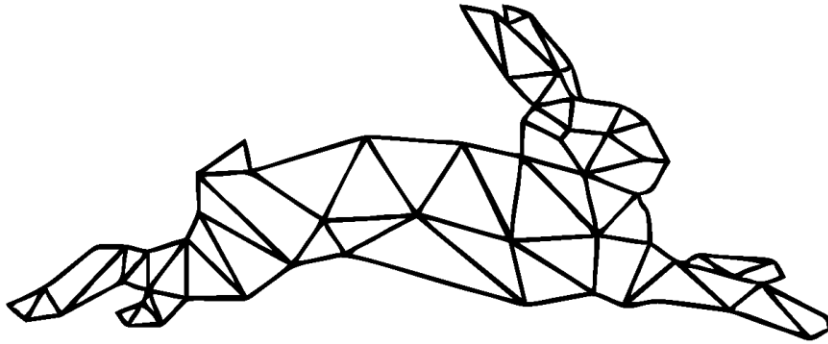
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## Research Rabbit

The screenshot displays the Research Rabbit web application interface, which is organized into several panels:

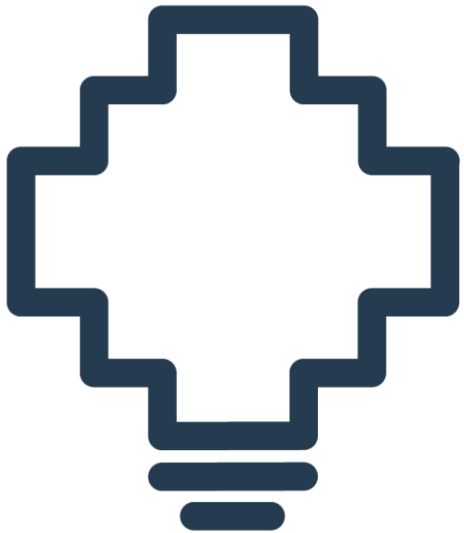
- Left Panel:** Contains navigation options such as "New Collection", "New Category", and "Connect to Zotero". It also shows a list of collections, including "Uncategorized" and "Shared with Me".
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- Collection Panel:** Displays a collection titled "Untitled Collection" with a list of papers. One paper is highlighted: "Possible applications of coal fly ash in wastewater treatment." by Farwa Mushtaq and Tajamal Hussain, published in 2019 in the Journal of Environmental Management.
- Details Panel:** Provides a detailed view of the selected paper, including its title, authors, journal, and a full abstract. The abstract discusses the management of coal fly ash as a particulate byproduct of coal burning and its potential applications in wastewater treatment.
- Right Panel:** Offers options to "Remove from" the collection, "Add to Other Collection", and "Explore Papers". It also includes a section for "Explore People" with "These Authors" and "Suggested Authors", and a section for "Export Papers" with options for BibTeX, RIS, and CSV.

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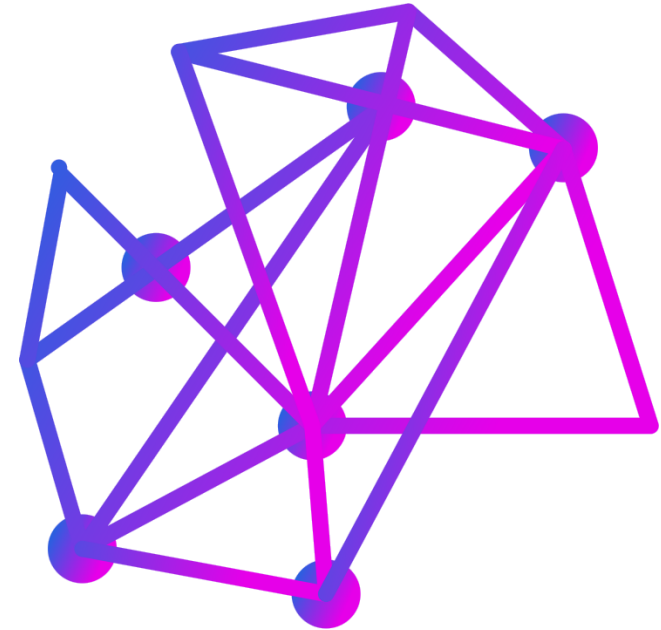


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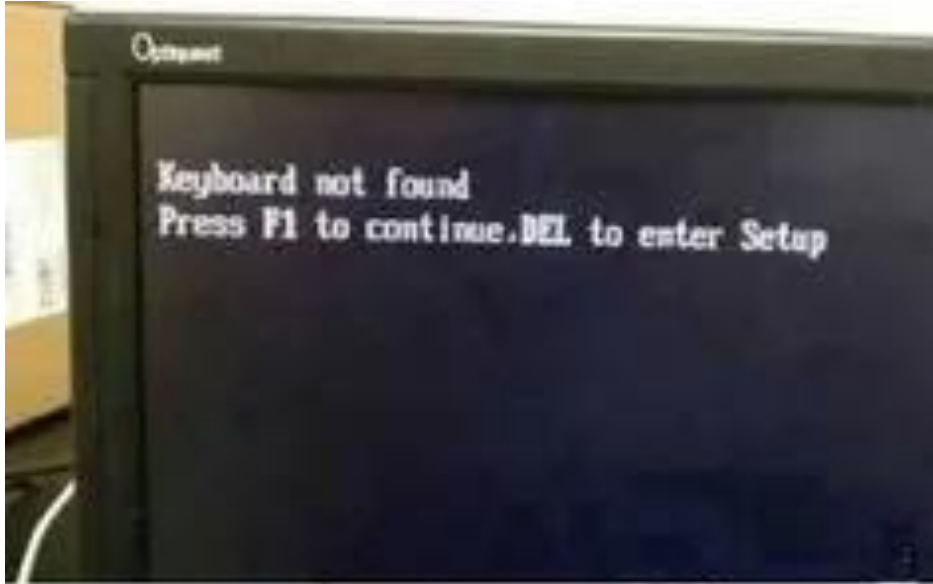


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 **ELSEVIER**

**Journal of Environmental Management**

journal homepage: [www.elsevier.com/locate/jenvman](http://www.elsevier.com/locate/jenvman)



Review

Possible applications of coal fly ash in wastewater treatment

Farwa Mushtaq<sup>a</sup>, Muhammad Zahid<sup>a,\*</sup>, Ijaz Ahmad Bhatti<sup>a</sup>, Saqib Nasir<sup>b</sup>, Tajamal Hussain<sup>c</sup>

<sup>a</sup> Department of Chemistry, University of Agriculture, Faisalabad, 38040 Pakistan  
<sup>b</sup> Pakistan Science Foundation, 1-Constitution Avenue G-5/2, Islamabad, Pakistan  
<sup>c</sup> Institute of Chemistry, University of the Punjab, Lahore, Pakistan



File name: 10.1016@j.jenvman.2019.03.054.pdf

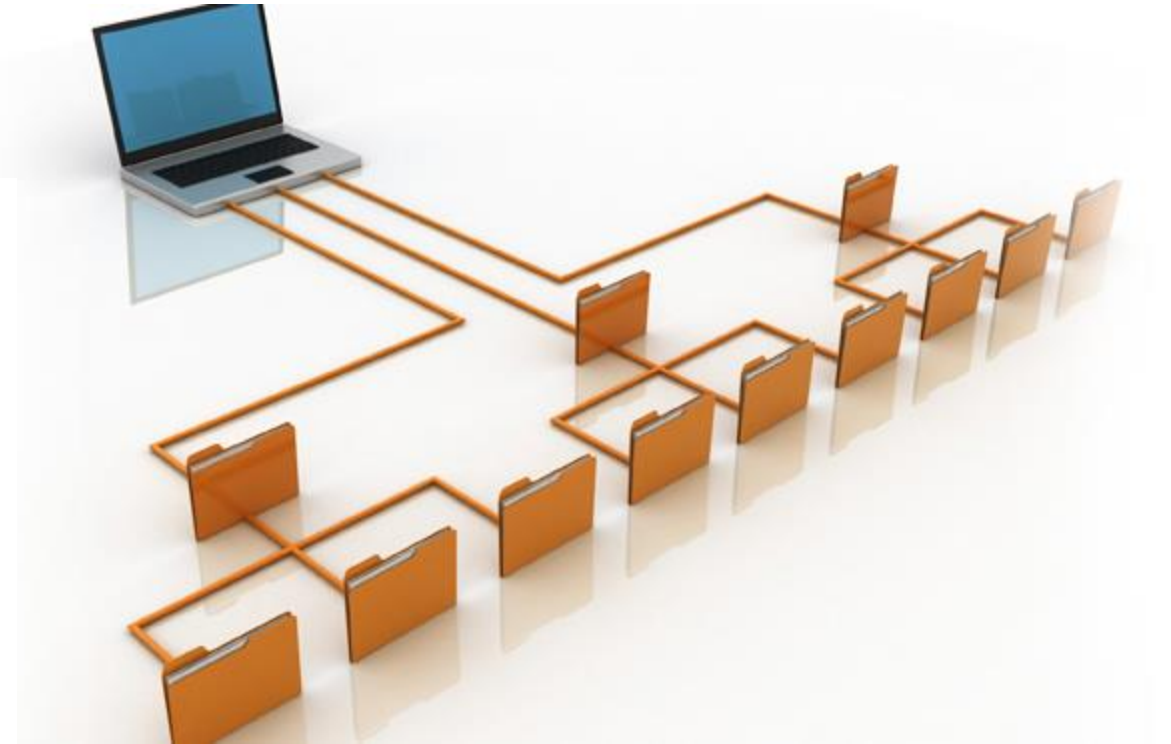
Save as type: All Files (\*.\*)

**Mushtaq2019**

First author's <sup>Year of publication</sup>

# Storing and managing research articles cont.

**Always classify your folders  
and give sensible names**



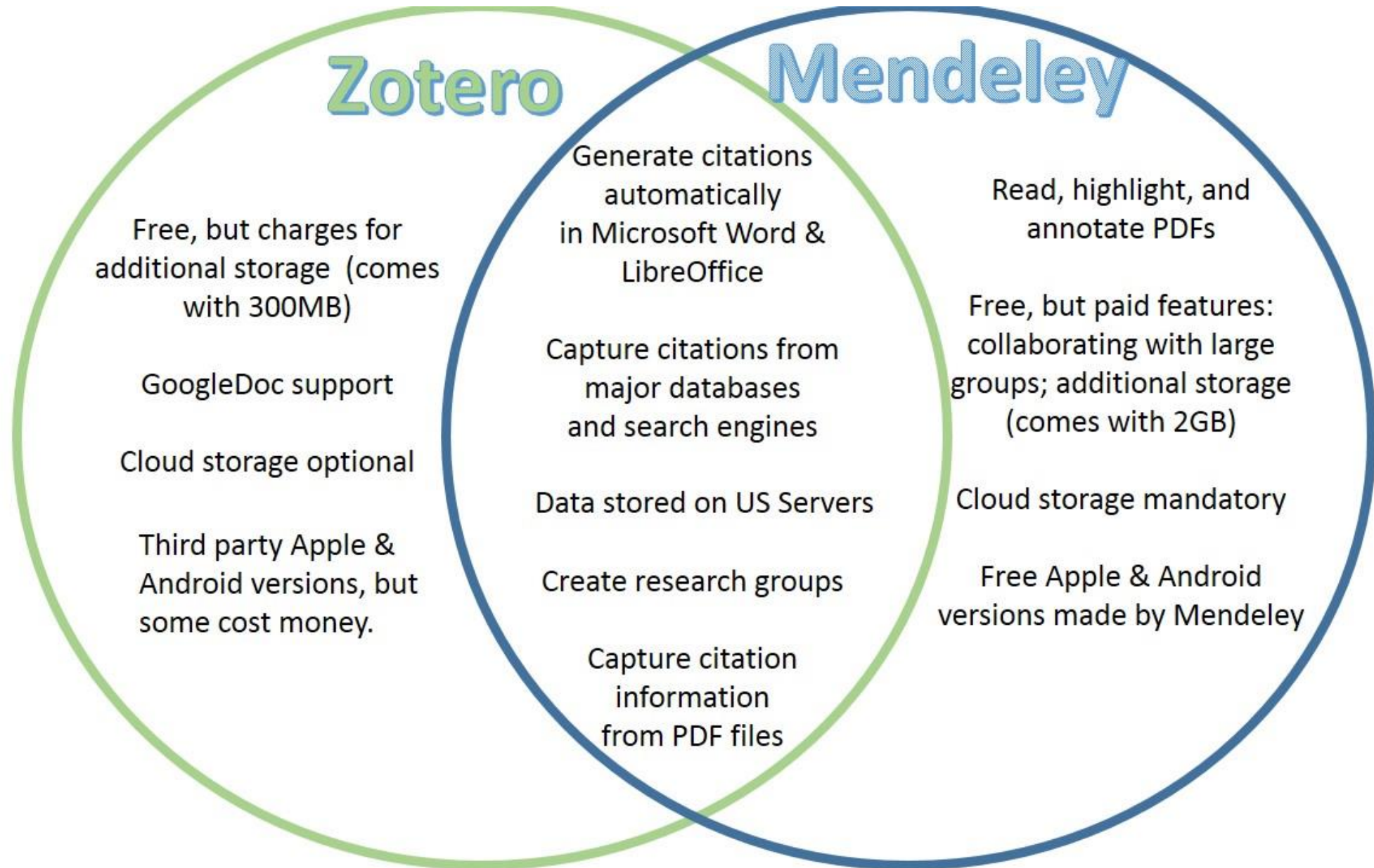
# Storing and managing research articles cont.

## Reference managers





# Storing and managing research articles cont.

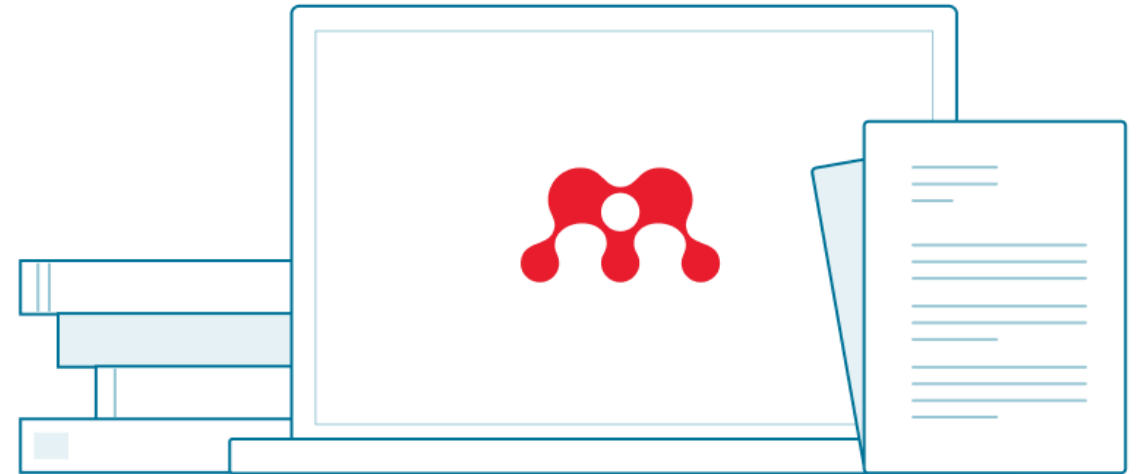


# Storing and managing research articles cont.



**Mendeley desktop**

<https://mendeley-desktop.updatestar.com/en>



**Mendeley reference manager**

## Storing and managing research articles cont.



zotero

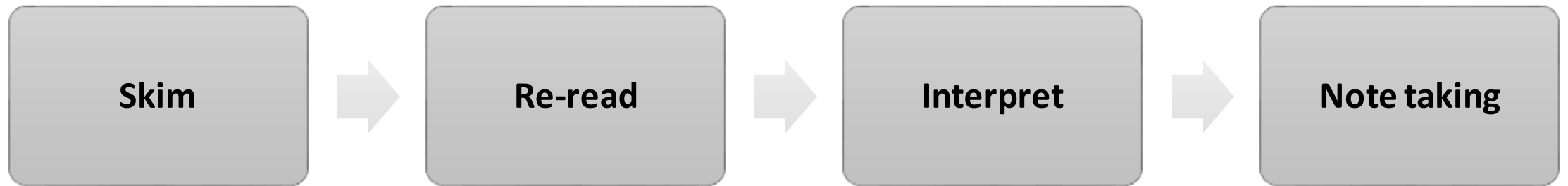


Are you expecting a meme?

# Chapter 03 : Processing

No, Life won't offer you with everything you need

# Reading and annotating the research articles



# Reading and annotating the research articles



# Reading and annotating the research articles

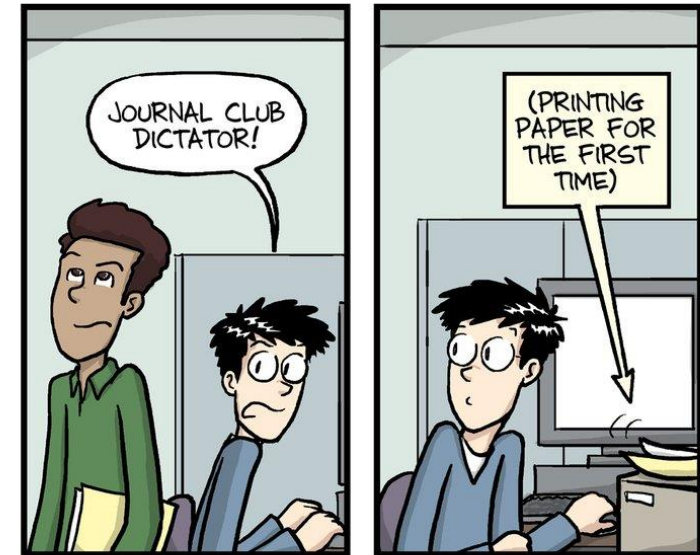
**Literature notes**

**Permanent notes**

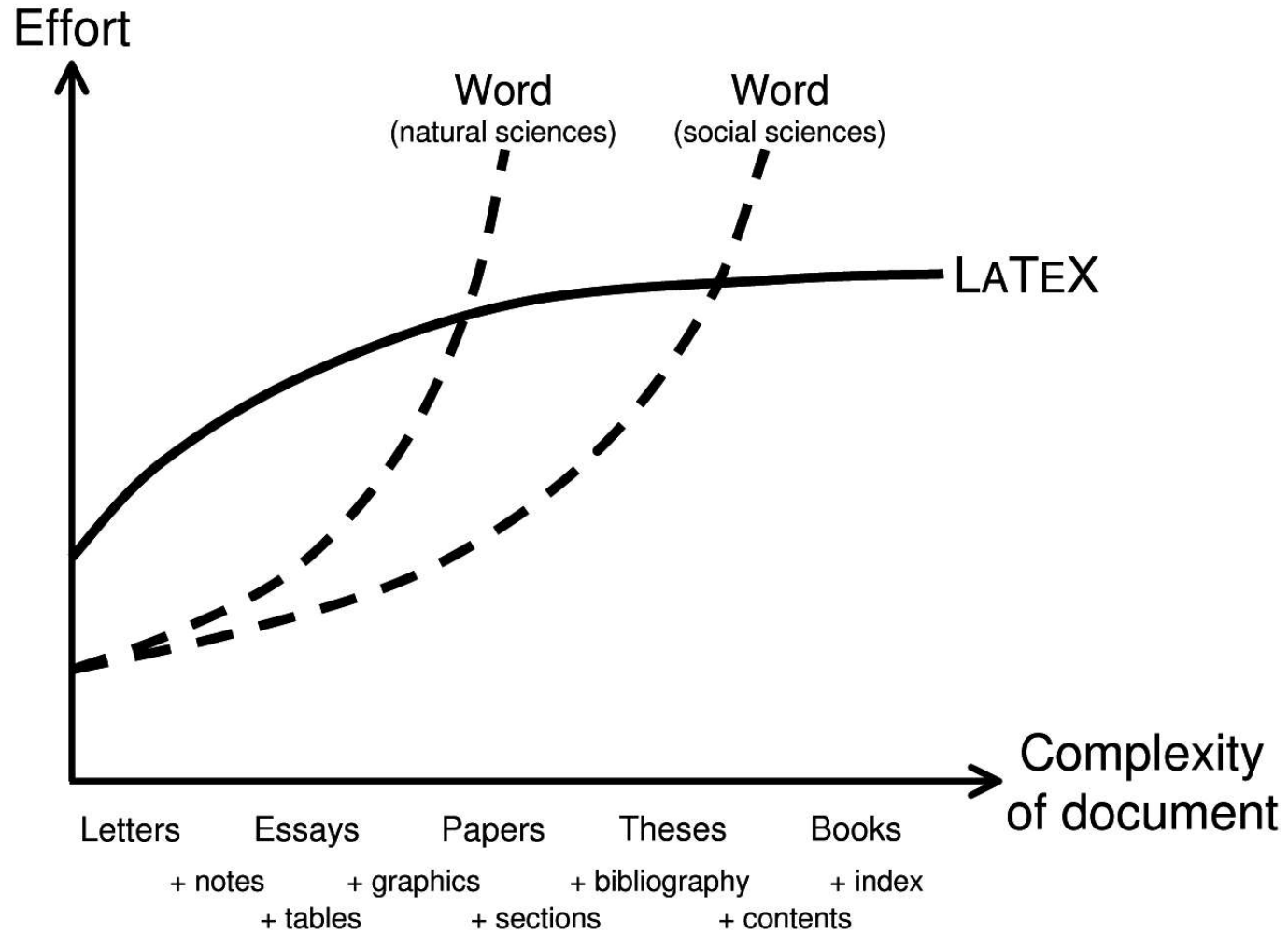
**Some additional facts...**

# Group works

- Shared folder
- Track of reading records
- Weekly meeting
- Journal club



# Learn Latex





# Learn Linux



Linux

# Learn to code



*“Stay hungry.  
Stay foolish.”*

*The Whole Earth Catalogs*

