



How do we help researchers?



Literature Review Process

1. Define the research question
2. Determine inclusion/exclusion criteria
3. Choose databases and conduct the search
4. Review your results
5. Synthesize the information gathered
6. Analyze the information gathered
7. Write the literature review

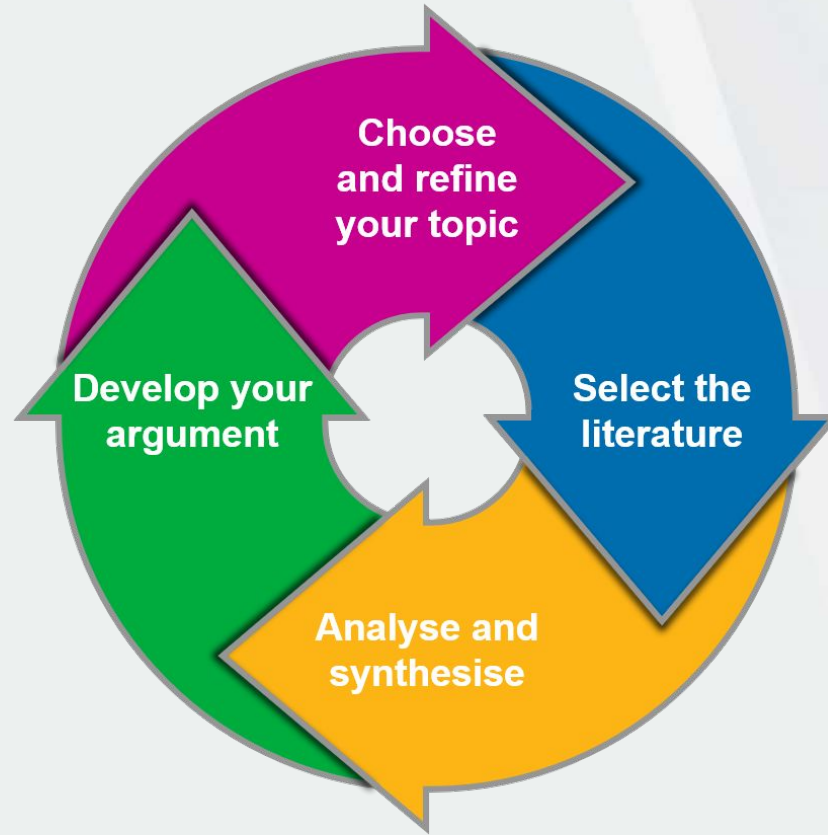


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Litmaps can help here!





Use Cases

- **Start exploring a field**
- **Find research gaps**
- **Visualize connections**



Start Exploring a Field

Get a “birds-eye view” of a new topic, by seeing the most important articles and how they connect.

This is great for: PhD and Masters Level

Features in Demonstration:

- Search
 - Algorithms
 - Filters
- Visualization
 - Litmap Explanation
 - Relevance

Quick Search...

Create Litmap

Tags

- seed-map-Malik2020-undertest
- New Tag
- Peroxiredoxin 1
- Keyword test
- New Zotero Tag
- Sorting Algorithms
- Hardware utilization
- Feature-based Sorting
- Sorting Networks
- Enhancing Hybrid Sorts
- Predictive Modelling
- Adaptive Sorting Techniques
- Optimise Parallel Sorting
- Optimise Sorting Algorithm

Recent

All Articles

Support

What's New

peroxiredoxin (2)

Deep Reinforcement Learning

Zhang, 2021

seed-map-Malik2020-undertest

sorting algorithms

peroxiredoxin

Quick Search

Start exploring related articles on a new Litmap.

Search Import My Library Custom

peroxiredoxin

Search

Rhee, 2016 99 65 ⇨ 280

Overview on Peroxiredoxin

Molecules and Cells

Neumann, 2009 99 79 ⇨ 227

Peroxiredoxin 1 and its role in cell signaling

Cell cycle

Fujii, 2002 99 63 ⇨ 380

Advances in our understanding of peroxiredoxin, a multifunctional, mammalian redox protein

Redox report : communications in free radical research

Wood, 2003 99 39 ⇨ 1.3k

Peroxiredoxin Evolution and the Regulation of Hydrogen Peroxide Signaling

Science

Karpus, 2015 99 77 ⇨ 110

A primer on peroxiredoxin biochemistry.

Free Radical Biology and Medicine

< 1 - 10 of 77,400 >

Rhee, 2016

99 65 ⇨ 280

Overview on Peroxiredoxin

Molecules and Cells

S. Rhee

10.14348/MOLCELLS.2016.2368

Peroxiredoxins (Prxs) are a very large and highly conserved family of peroxidases that reduce peroxides, with a conserved cysteine residue, designated the "peroxidatic" Cys (CP) serving as the site of oxidation by peroxides (Hall et al., 2011; Rhee et al., 2012). Peroxides oxidize the CP-SH to cysteine sulfenic acid (CP-SOH), which then reacts with another cysteine residue, named the "resolving" Cys (CR) to form a disulfide that is subsequently reduced by an appropriate electron donor to complete a catalytic cycle. This overview summarizes the status of studies on Prxs and relates the following 10 minireviews.

1 Selected ✓

Explore Related Articles

Quick Search...

Explore

Top Shared Citations & References

All Time

None



Create Litmap

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- Recent
- All Articles

Support
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Upgrade to Litmaps Pro

Recommended Articles

Click More Like This for results you're interested in.

Update Results

Satoh, 2019 99 44 ⇄ 21

Circatidal gene expression in the mangrove cricket *Apteronomobius asahinai*.
Scientific Reports

Tag

More Like This

Gao, 2017 99 44 ⇄ 22

Enhanced fermentative performance under stresses of multiple lignocellulose-derived inhibitors by overexpression of a typical α -Cys peroxiredoxin from *Kluyveromyces marxianus*.
Biotechnology for Biofuels

Tag

More Like This

Jonak, 2023 99 80 ⇄ 0

Analysis of ageing-dependent thiol oxidation reveals early oxidation of proteins involved in core proteostasis functions
bioRxiv

Tag

More Like This

Aragão, 2022 99 78 ⇄ 1

DNA Damage and Proteomic Profile Changes in Rat Salivary Glands After Chronic Exposure to Inorganic Mercury
Biological Trace Element Research

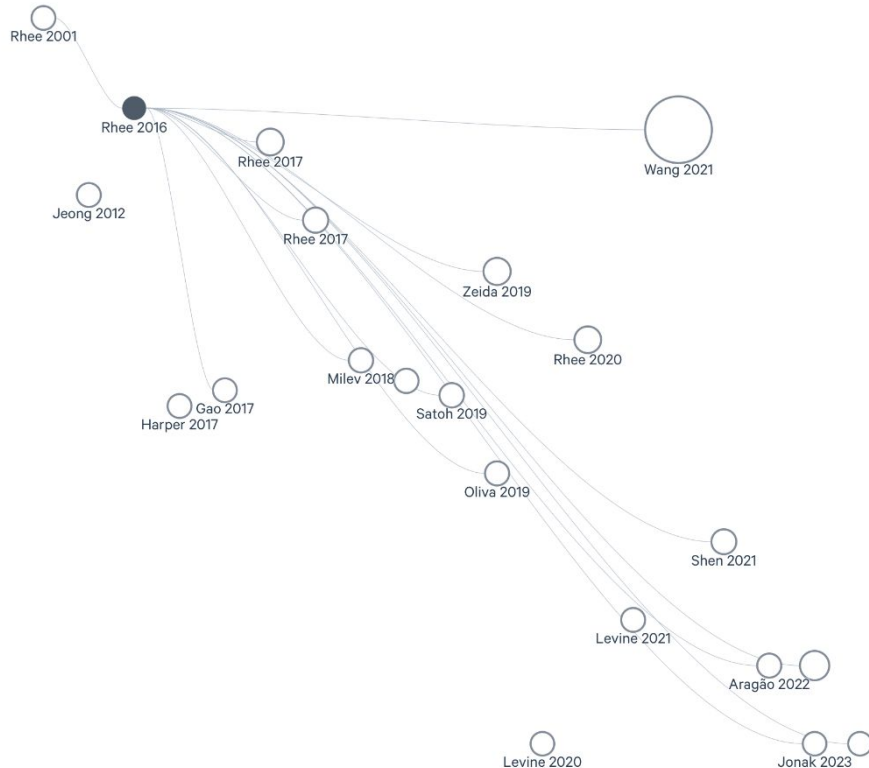
Tag

More Like This

Oliva, 2019 99 63 ⇄ 10

Nuclear magnetic resonance affects the circadian clock and

View Recommendations: Standard

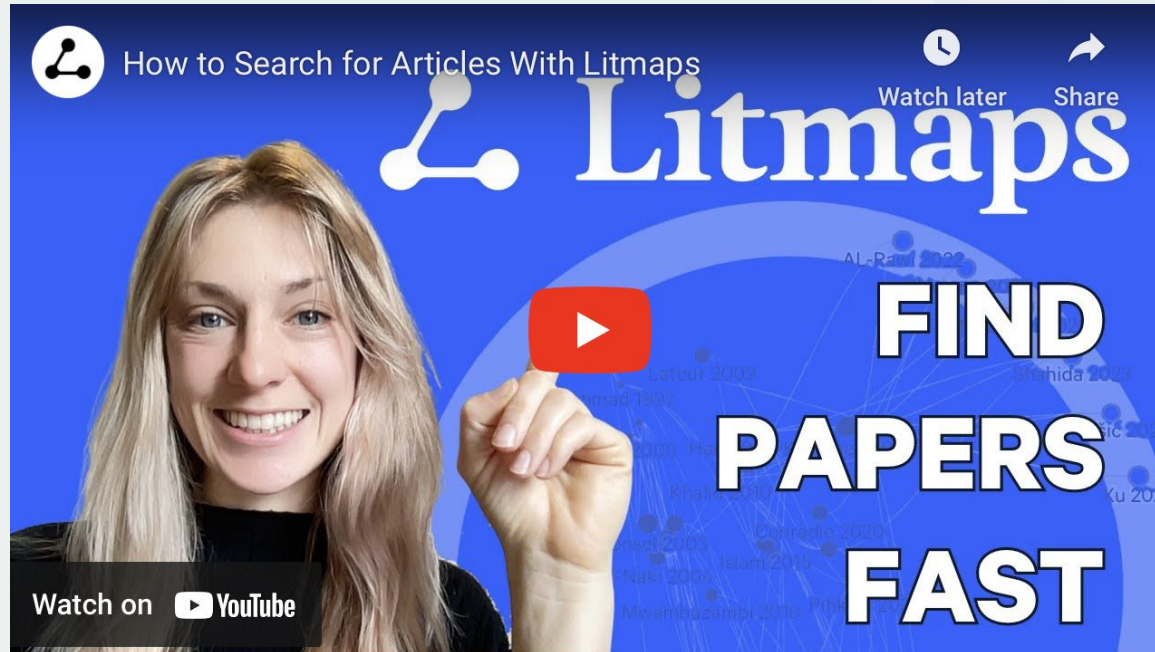


- MOMENTUM
- CITE COUNT
- DATE





Start Exploring a Field



<https://docs.litmaps.com/en/articles/9092911-search-for-articles-in-litmaps>



Find Research Gaps

Researchers want to contribute to novel areas to push their field forward.

This is great for: All Researchers

Features in Demonstration:

- Search
 - Combine advanced techniques
- Evaluation
 - Map layouts

Quick Search...

/ Explore

Top Shared Citations & References

All Time

dodecameric rings



Create Litmap

Tags



- Peroxiredoxin self-assembly
- seed-map-Malik2020-undertest
- New Tag
- Peroxiredoxin 1
- Keyword test
- New Zotero Tag
- Sorting Algorithms
- Hardware utilization
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Recommended Articles

Click [More Like This](#) for results you're interested in.[Update Results](#)

Yewdall, 2018 99 33 ⇄ 21 ⋮

Quaternary structure influences the peroxidase activity of peroxiredoxin 3.
Biochemical and Biophysical Research Communications

Tag

[More Like This](#)

Yewdall, 2016 99 55 ⇄ 38 ⋮

Structures of Human Peroxiredoxin 3 Suggest Self-Chaperoning Assembly that Maintains Catalytic State.
Structure

Tag

[More Like This](#)

Cao, 2007 99 44 ⇄ 75 ⋮

Reconstitution of the mitochondrial PrxIII antioxidant defence pathway: general properties and factors affecting PrxIII activity and oligomeric state.
Journal of Molecular Biology

Tag

[More Like This](#)

Cao, 2015 99 30 ⇄ 14 ⋮

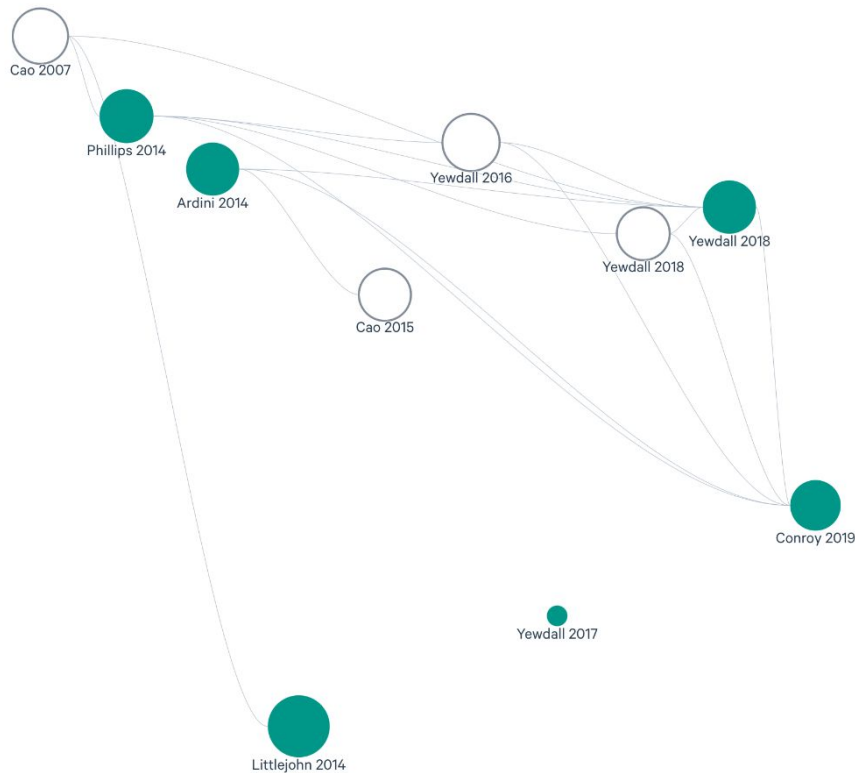
Improved Catenated Structures of Bovine Peroxiredoxin III F190L Reveal Details of Ring-Ring Interactions and a Novel Conformational State
PLoS ONE

Tag

[More Like This](#)

< 1 - 4 of 4 >

View Recommendations: Standard



REF COUNT

↑ CITE COUNT

→ DATE





Finding Research Gaps

The video thumbnail features a woman with long blonde hair pointing at a network diagram. The diagram consists of nodes and connecting lines, with nodes labeled with author names and years. The text 'FIND RESEARCH GAPS' is prominently displayed in large blue letters, with 'Litmaps' in black below it. The video title 'Find Research Gaps with Litmaps' is at the top, and 'Watch on YouTube' is at the bottom left.

Find Research Gaps with Litmaps

FIND RESEARCH GAPS

Litmaps

Watch on YouTube

Network Diagram Labels:

- Zoroastrianism
- Foltz 2008
- Scanes 2018
- Yachkaschi 2012
- Sayem 2021
- al-Naki 2004
- Haq 2020
- Al-Jayyousi 2011
- Swain 2020
- Birkler 2023
- Rappaport 2023
- Bhagwat 2011
- Ecotheology
- Buc
- s 2017

<https://docs.litmaps.com/en/articles/9092883-find-research-gaps-with-litmaps>



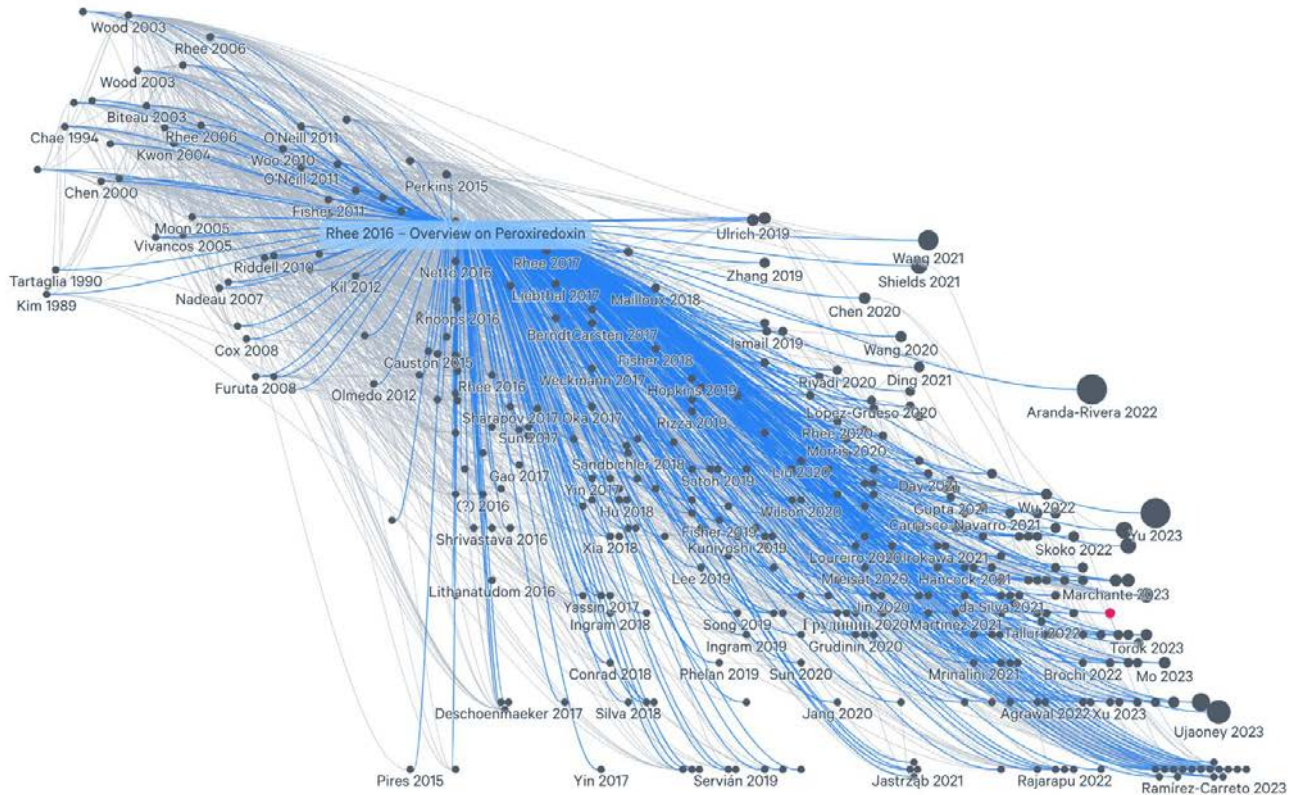
Visualize Connections

Visual literature maps help form connections and enhance understanding

Great for: Students and Professional Staff

Features in Demonstration:

- Specific map modes
 - Map layouts
 - Axes
- Design mode



- 🕒 MOMENTUM
- ↑ CITE COUNT
- DATE





Visualize Connections

Change the layout to find papers faster

LAYOUT SETTINGS

- Ref Count
- Cite Count
- Momentum

Legend:

- CITE COUNT
- REF COUNT
- DATE

Litmaps

<https://docs.litmaps.com/en/articles/9181490-understand-research-faster-visually>



Litmaps & Your Institution

We want to support your staff and students to use the latest technology like Litmaps to advance their work

- **Pedagogical – a great tool to teach undergraduate students how research works**
- **Enhancing graduate student success – kick starting their projects and teams, and taking the pain out of writing up their thesis**
- **Communicate impact – researches can demonstrate their work and impact**



How does Litmaps compare to other tools?

- **Algorithmic choice**
- **Visualization to help researchers see the bigger picture**
- **Large corpus of publication metadata to search across**
- **Enables librarians to teach others to understand the literature**



Roadmap

- **Login**
 - SSO via university accounts via OpenAthens
 - IP based authentication via EZProxy
- **Full Text Access**
 - Libkey from Third Iron
- **Reference Manager Sync + Import**
 - Endnote
 - Mendeley
- **Journal Filters**



Human + AI



Thank you!

How to contact me:

During VALA 2024:

- Look out for me or a Litmaps shirt

After VALA 2024:

- Email: axton@litmaps.com



<https://www.litmaps.com/about/for-institutions>