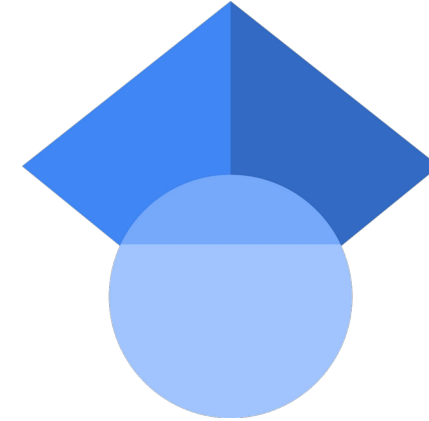


A scientist's view on Open Science

Doing Research on a topic

How to find a reference?

- Do you know a colleague who did it?
- What does your library provide?
- Which results do search engines provide?
 - Google Scholar <https://scholar.google.de>
 - Scopus <https://www.scopus.com/>
 - Statista <https://de.statista.com/>



Scopus

Doing Research on a topic

How to access the reference?

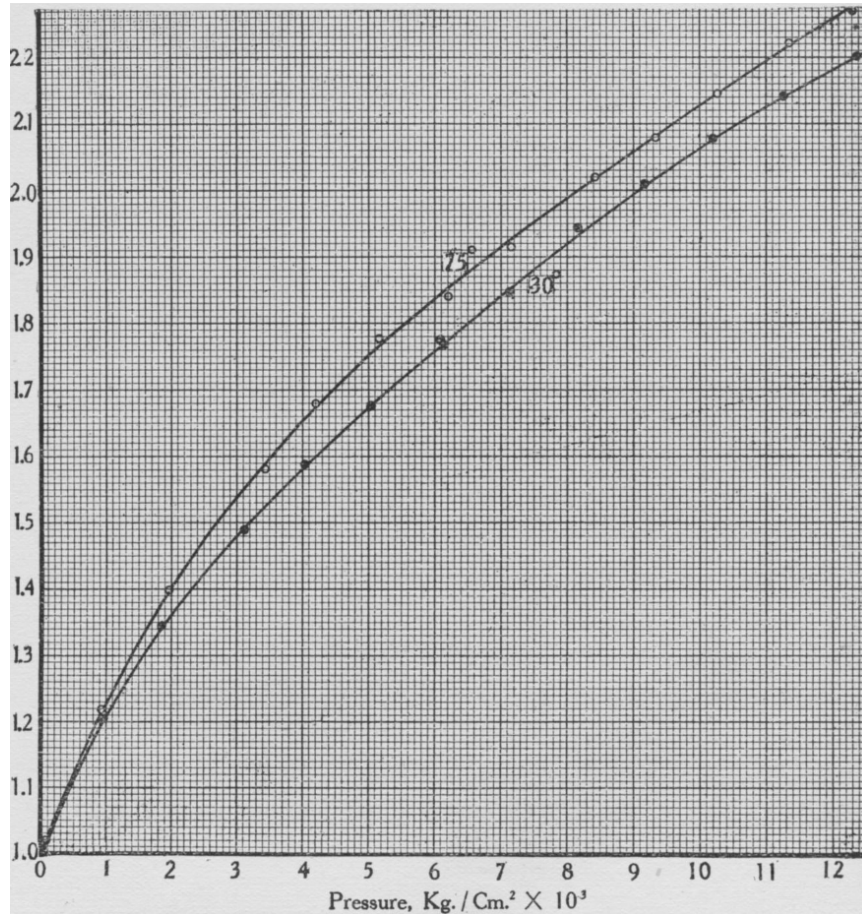
- Hope for Open Access!!
- Pay the fee (university or in private)
- Join the peer community ResearchGate
 - Many saved manuscripts
 - Others available on request
 - <https://www.researchgate.net/>
- Use fully open access databases:
 - Refseek <https://www.refseek.com>
 - Science.gov <https://www.science.gov>
 - Pdfdrive <https://www.pdfdrive.com>
 - BASE <https://www.base-search.net>



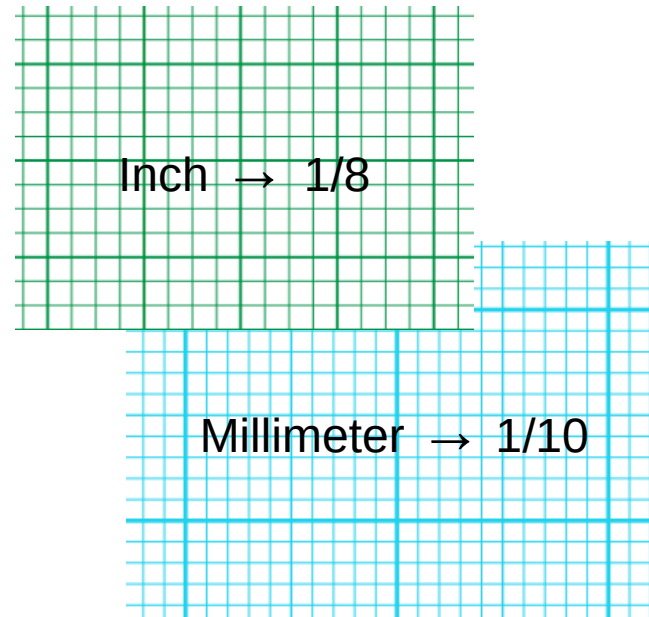
PDF DRIVE

ResearchGate

How to get the data out of a graphic?

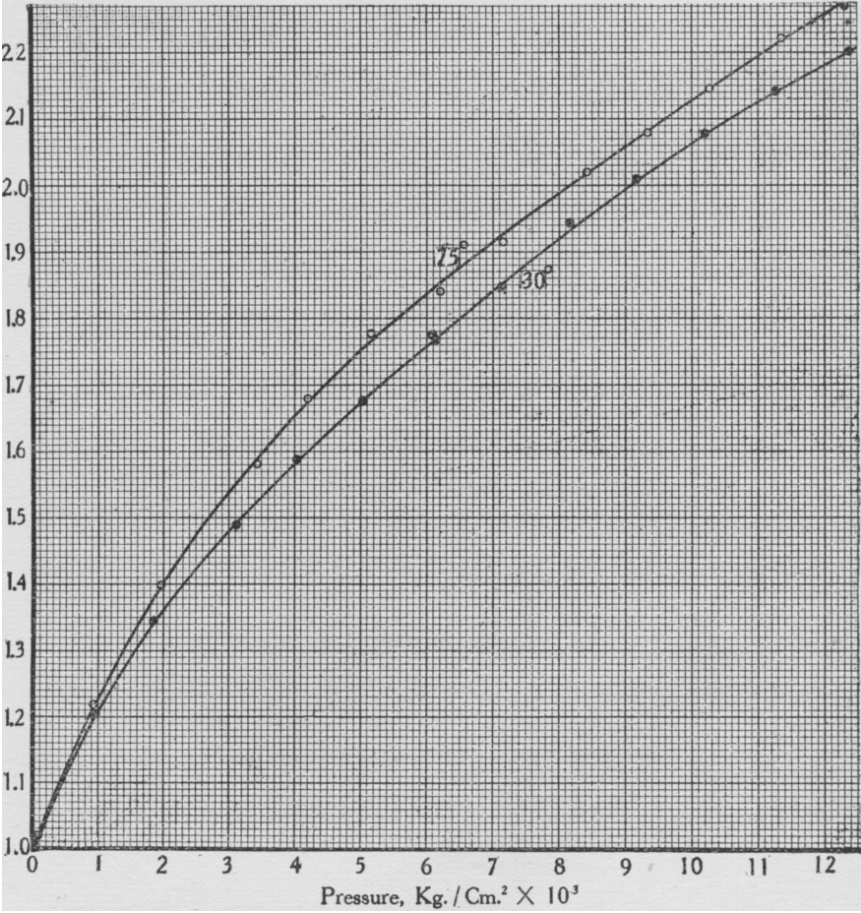


- Easy case: millimeter paper used
- Danger! There is also inch paper!

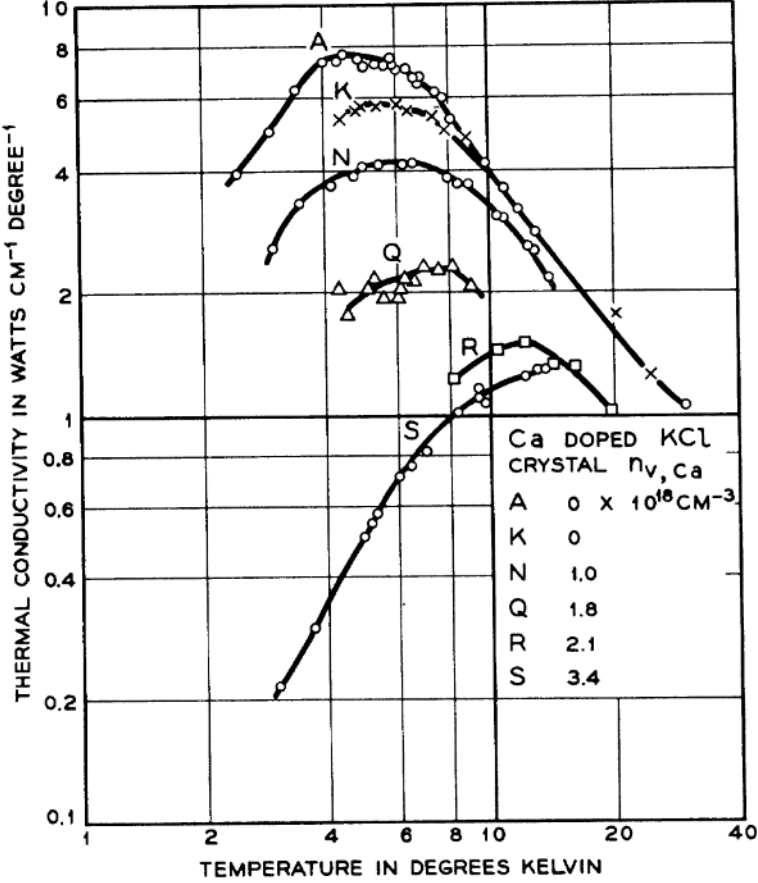
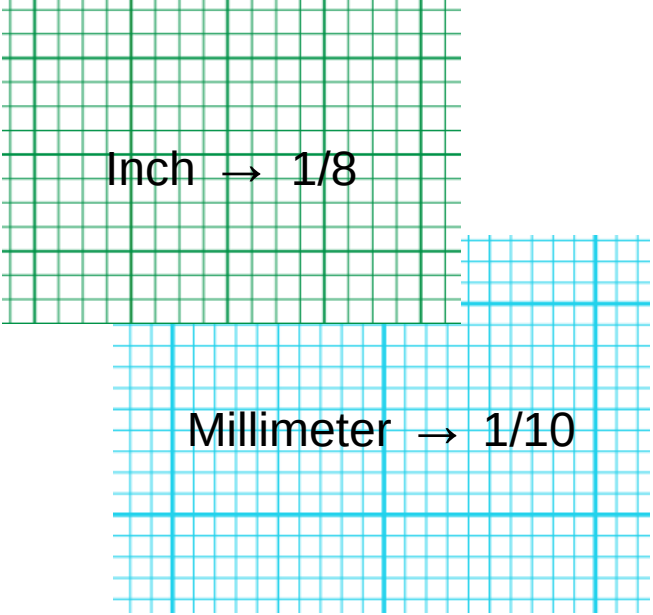


P. W. Bridgman: *The thermal conductivity of liquids under pressure*,
Proceedings of the American Academy of Arts and Sciences,
59(7) 141 (1923)

How to get the data out of a graphic?



- Easy case: millimeter paper used
- Danger! There is also inch paper!
- What if there is no grid?
- What if the scale is logarithmic?



P. Carruthers: *Theory of thermal conductivity of solids at low temperatures*,
 Reviews of Modern Physics, 33(1) 92 (1961)

P. W. Bridgman: *The thermal conductivity of liquids under pressure*,
 Proceedings of the American Academy of Arts and Sciences,
 59(7) 141 (1923)

How to get data out of a graphic?

webplotdigitizer

There is a service! (open access)

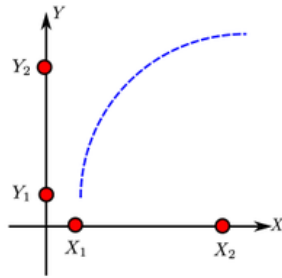
webplotdigitizer

<https://automeris.io/wpd/>

Select Axes Type

2D XY Axes

- Bar Chart
- Polar Diagram
- Ternary Diagram
- Map (Scale Bar)
- Image
- Circular Chart Recorder



Click four known points on the axes in the order shown in red.
Two on the X axis (X1, X2) and two on the Y axis (Y1, Y2).

1 Calibrate axes

Calibrate Cancel

2 Mark data points

Acquired Data

Dataset: Default Dataset

Variables: X, Y

```
0.06934812760055487, 0.04395927252192511
0.9153952843273232, 0.436658545845122
1.9417475728155338, 0.7989476636262871
3.3980582524271847, 1.1581309010296337
4.160887656033288, 1.3555756085369741
5.1317614424410545, 1.5500975834037625
6.185852981969487, 1.6785261185843443
7.142857142857144, 1.8235409707211632
8.418862690707352, 2.0370683389072566
9.334257975034674, 2.154607214876175
10.263522884882109, 2.285889802295833
11.359223300970875, 2.433541218733724
12.33009708737864, 2.5345281179471426
```

Sort

Sort by: Raw

Order: Ascending

Format

Number Formatting:

Digits: 5 Ignore

Column Separator: ,

Format

Copy to Clipboard Download .CSV Graph in Plotly* Close

*Plotly is a secure data analysis and graphing site with data sharing and access controls.

Visit <http://plot.ly> for details.

3 Get dataset

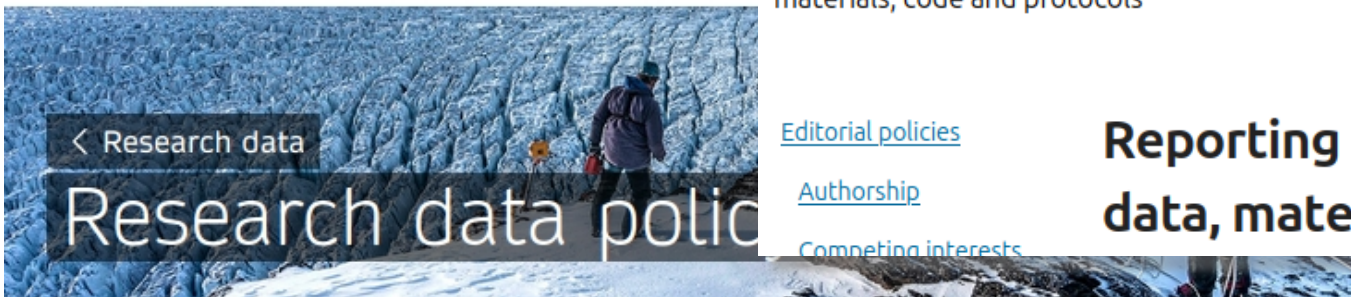
How to get data out of a graphic?

The future is now...

Changing policies: “data availability statement”

- Link between a paper’s results and the supporting evidence
- Science, Nature, Elsevier, ScienceDirect, Springer, ...

SPRINGER NATURE



Research

Data availability statements

nature portfolio

[nature](#) > [nature portfolio](#) > [editorial policies](#) > reporting standards and availability of data, materials, code and protocols

[Editorial policies](#)

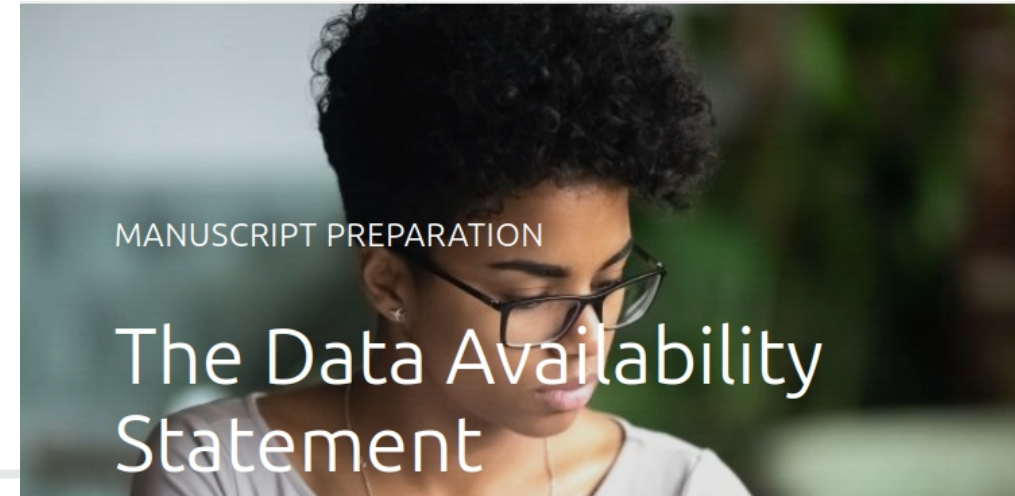
[Authorship](#)

[Competing interests](#)

Reporting standards and availability of data, materials, code and protocols

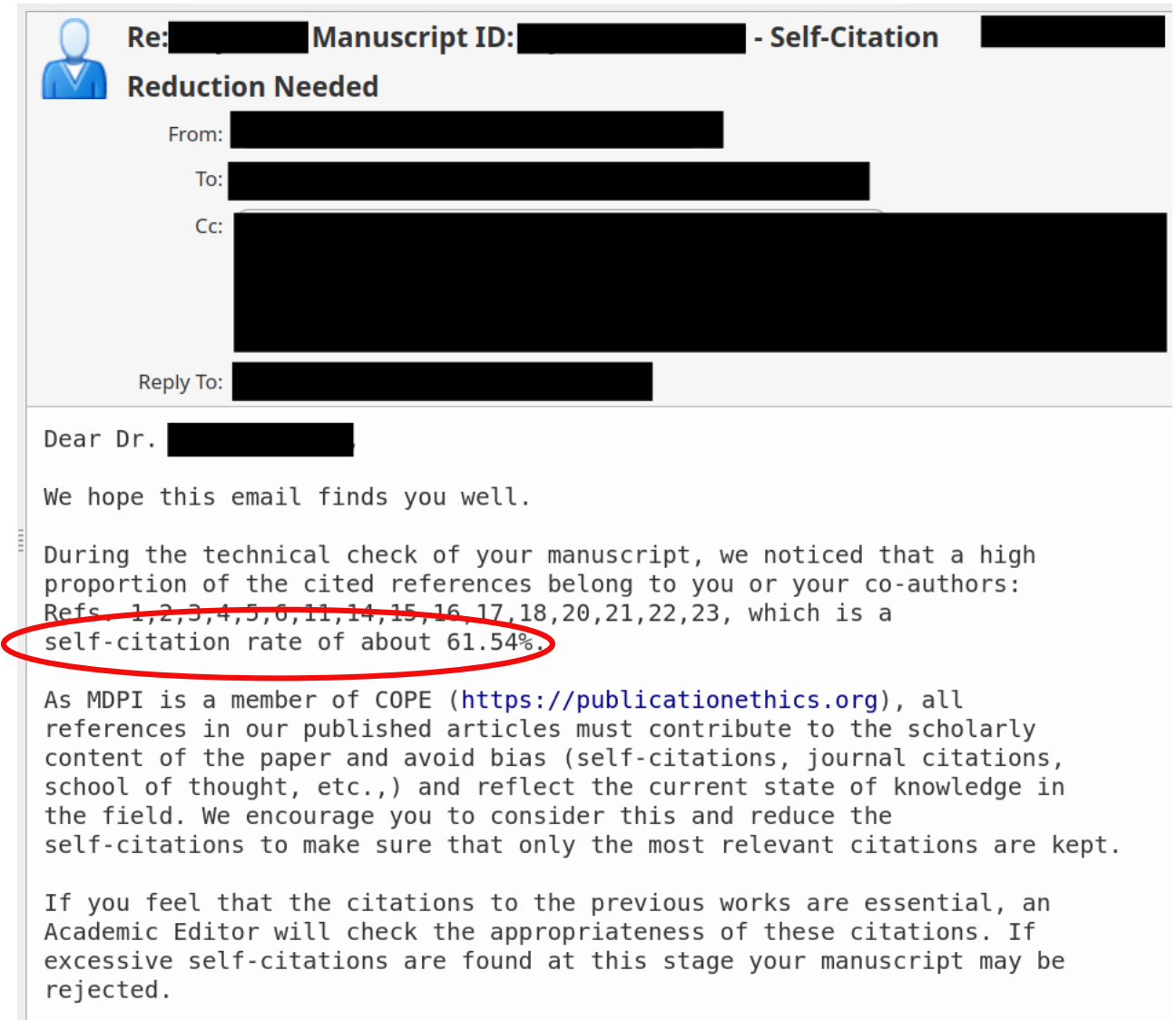


Author Services



Self-Citations

- Indicator for relevance and quality of paper/author:
 - impact on follow-up research
 - measured by citations
- Trick: increase citations by citing your own working-group
- “any citation not justified by honest scientific reasons is a seriously unethical misconduct”
[<https://akjournals.com/page/244>]
- “median percentage of self-citations is 12.7%”
[<https://doi.org/10.1371/journal.pbio.3000384>]



The screenshot shows an email interface with a header and a main body. The header includes a profile icon, a subject line, and a title. The main body contains a salutation, a greeting, a paragraph of text with a red circle around a specific sentence, and a longer paragraph of text.

Re: [REDACTED] Manuscript ID: [REDACTED] - Self-Citation [REDACTED]
Reduction Needed

From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Reply To: [REDACTED]

Dear Dr. [REDACTED]

We hope this email finds you well.

During the technical check of your manuscript, we noticed that a high proportion of the cited references belong to you or your co-authors: Refs. 1,2,3,4,5,6,11,14,15,16,17,18,20,21,22,23, which is a self-citation rate of about 61.54%.

As MDPI is a member of COPE (<https://publicationethics.org>), all references in our published articles must contribute to the scholarly content of the paper and avoid bias (self-citations, journal citations, school of thought, etc.,) and reflect the current state of knowledge in the field. We encourage you to consider this and reduce the self-citations to make sure that only the most relevant citations are kept.

If you feel that the citations to the previous works are essential, an Academic Editor will check the appropriateness of these citations. If excessive self-citations are found at this stage your manuscript may be rejected.

What to do with 'suspicious' publications?

Data availability

No data was used for the research described in the article.



Journal of Molecular Structure

Volume 1304, 15 May 2024, 137647

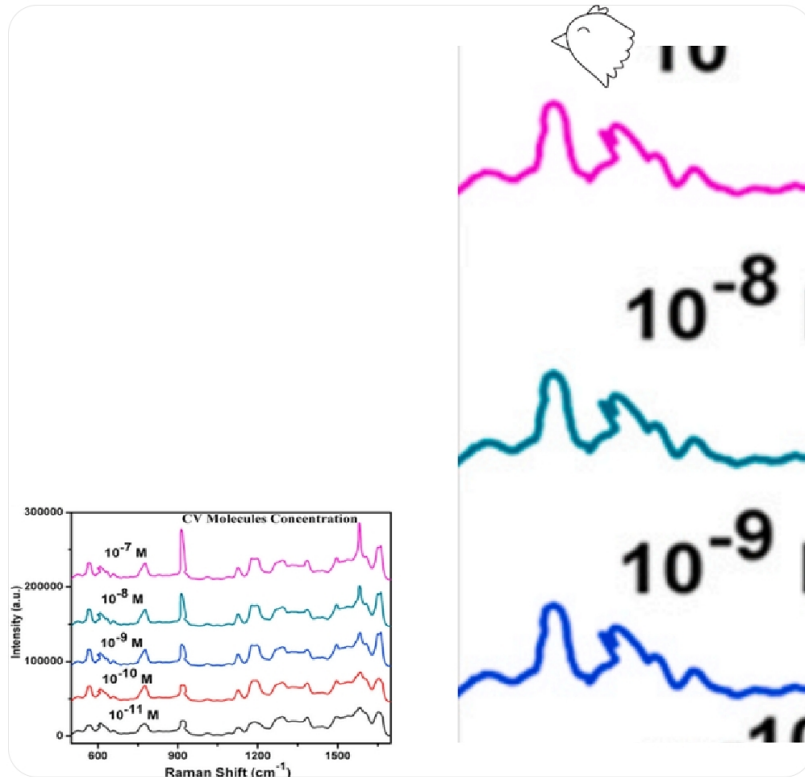


Exploring the untapped potential of marine
sponge compounds as anticancer agents
against ER α of breast cancer

What to do with 'suspicious' publications?



Mu Yang, Ph.D. @mumumouse2 · 23. Juni :
This Raman shift is what..... chicken Ramen?
doi.org/10.1016/j.cera...



18 21 156 22,2K

Public, well-founded criticism

- PubPeer: online platform for post-publication peer review

<https://pubpeer.com/static/about>

What to do with 'suspicious' publications?



Mu Yang, Ph.D.
@mumumouse2

Folgen

Update on J Mol Liquids review length. There is another layer of issue: The lab is based in southern India. But all these papers only listed funding from one of two universities in Saudi Arabia: King Khalid and King Saud.

Post übersetzen

Journal of Molecular Liquids review length
Studies are from the same group

Funding	Year	Received-To-Revised (days)	Received-To-Accepted (days)	DOI
KKU	2021	20	25	10.1016/j.molliq.2021.117719
KKU	2021	17	23	10.1016/j.molliq.2021.117304
KKU	2021	19	25	10.1016/j.molliq.2021.117271
KKU	2021	19	24	10.1016/j.molliq.2021.116335
KKU	2022	15	18	10.1016/j.molliq.2022.119166
KKU	2022	21	22	10.1016/j.molliq.2022.118756
KKU	2022	16	20	10.1016/j.molliq.2022.120533
KKU	2023	21	31	10.1016/j.molliq.2023.121709
King Saud	2023	16	23	10.1016/j.molliq.2023.123465
King Saud	2023	12	17	10.1016/j.molliq.2023.123105
King Saud	2023	19	29	10.1016/j.molliq.2023.122552
KKU	2023	18	27	10.1016/j.molliq.2023.121313
KKU	2023	22	25	10.1016/j.molliq.2023.122937

15:53 · 13 Juli 24 · 10,2K Mal angezeigt

Public, well-founded criticism

- Pubpeer: online platform for post-publication peer review
<https://pubpeer.com/static/about>
- Success story:
 - A papermill network was uncovered!
 - 90 papers in 2023, 27 in same journal
 - 36 in 2024 already
 - Submission to acceptance: average 3 weeks

What to do with 'suspicious' publications?



Folgen

Finally! One Elsevier journal woke up!
Bioresource Technology is kicking ass.
Their former EIC, Ashok Pandey, a big time
[#fraud](#), [#papermill](#) author and corrupt
editor from [@CSIR_IITR](#) is losing papers en
mass! At least 10 retractions! This is how it
should be done!

Post übersetzen



0:12 · 13 Juli 24 · 257K Mal angezeigt

Public, well-founded criticism

- Pubpeer: online platform for post-publication peer review

<https://pubpeer.com/static/about>

- Success story:
 - A papermill network was uncovered!
 - 90 papers in 2023, 27 in same journal
 - 36 in 2024 already
 - Submission to acceptance: average 3 weeks