Peer Review

Trends & Issues

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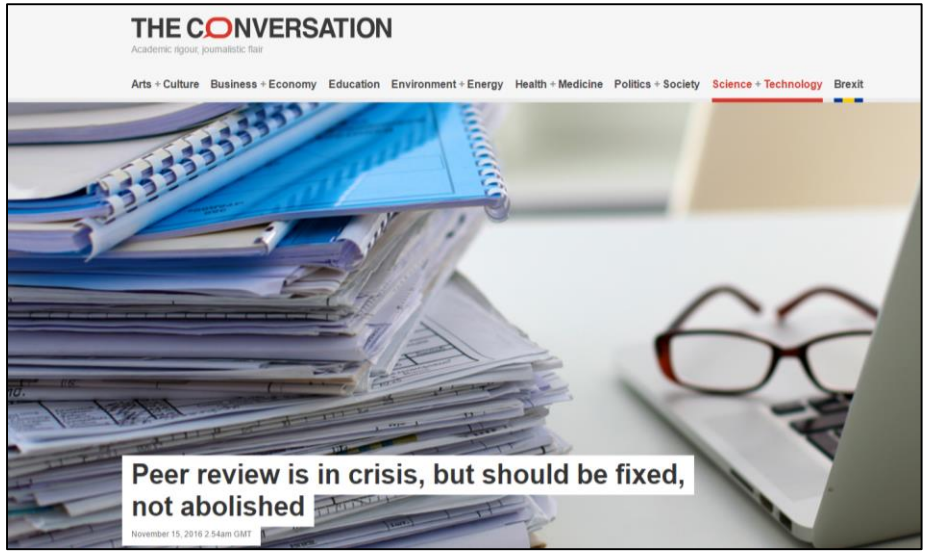
Agenda

1. **Challenges of Peer Review**
2. **Increasing Complexity of Research Integrity Issues**
3. **Calls for Experimentation**

Challenges of peer review

It is highly valued BUT

1. Large (increasing) **burden** on reviewers' & Editors' time
2. Potential for **bias** and **process opaque** (**'black box'**) – *selection, response, quality of review upon which decisions made*
3. **Wasteful** across research system
4. Largely **unrecognized**
5. **Fit for purpose** for today's science?
6. ***Increasing research integrity challenges …***



https://ideasonfire.net/crisis-standards-of-peer-review/

Increasing complexity of research integrity issues

- Paper Mills (and fake authorship)
- Image manipulation
- Data manipulation
- Generative AI
- Duplicate submissions
- Reproducibility crisis
- Duplicate peer review

Calls for Experimentation

- Tailoring & selection precision
- Diversity
- Training & mentoring
- Cross-publisher sharing /portability
- Recognition, credit & reward for reviewers
- Technology to improve effectiveness & make it easier to do
- *Transparency*

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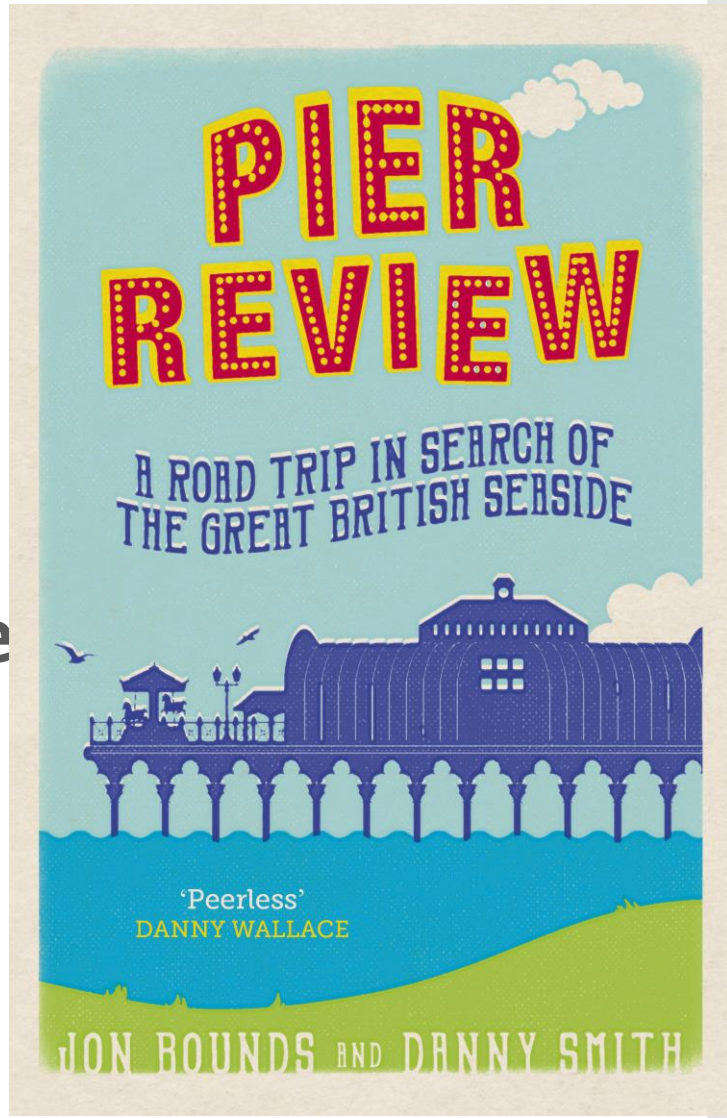
Source: Digital Science (2016) What might peer review look like in 2030? https://www.digital-science.com/blog/news/the-future-of-peer-review-new-report-by-biomed-central-and-digital-science-spotonreport/

Peer Review
Agenda #2

1. Introduction
2. Oldenburg Principles
3. The Pillars of Peer Revie
4. Q&A



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Where It All Begun

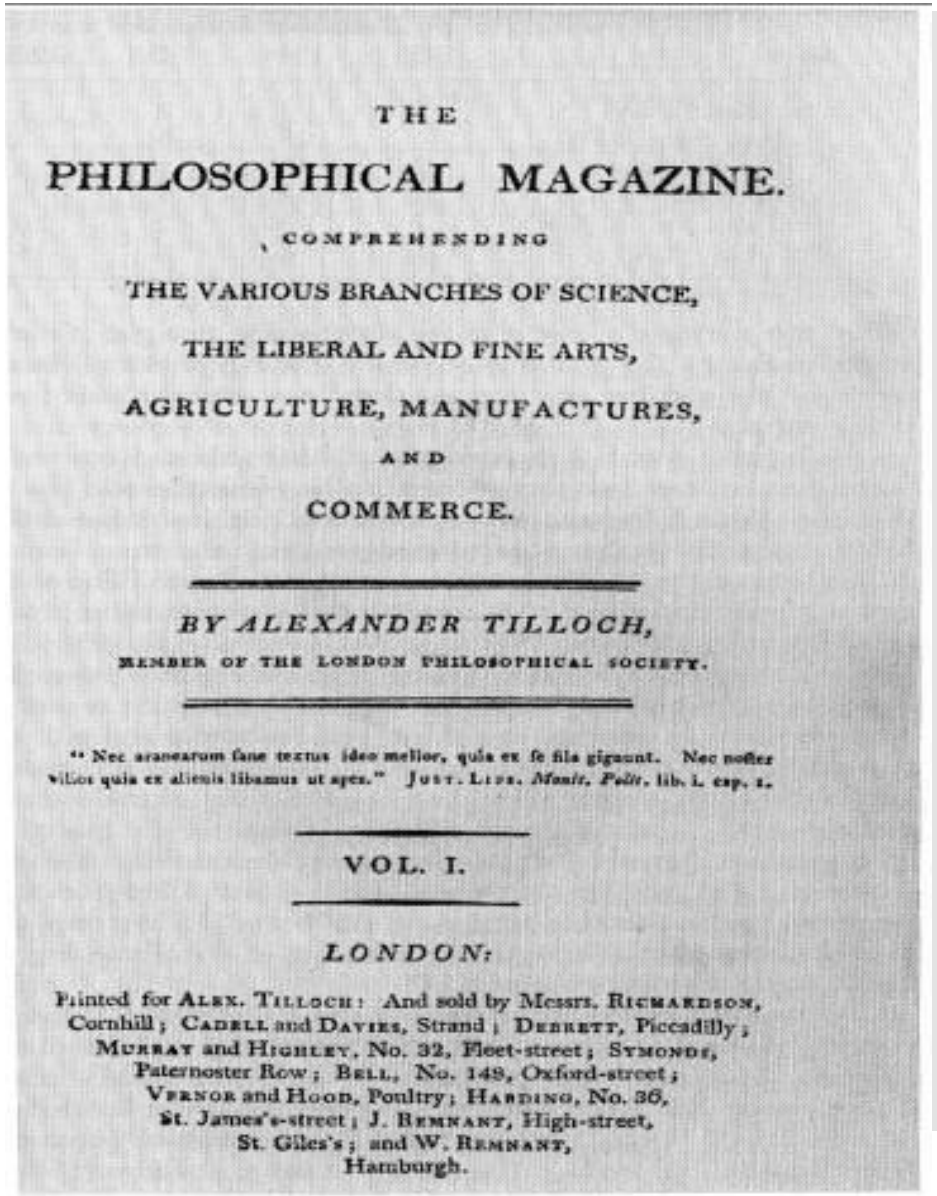
The Oldenburg Principles - 1665

Registration

Evaluation & Certification

Dissemination

Archiving



THE

PHILOSOPHICAL MAGAZINE.

COMPREHENDING

THE VARIOUS BRANCHES OF SCIENCE,

THE LIBERAL AND FINE ARTS,

AGRICULTURE, MANUFACTURES,

AND

COMMERCE.

BY ALEXANDER TILLOCH,

MEMBER OF THE LONDON PHILOSOPHICAL SOCIETY.

" Nec aranearum sane textus ideo melior, quia ex se fila gignunt. Nec noster vilior quia ex alienis libamus ut apes." JUST. LIPS. *Manit. Polit.* lib. i. cap. 1.

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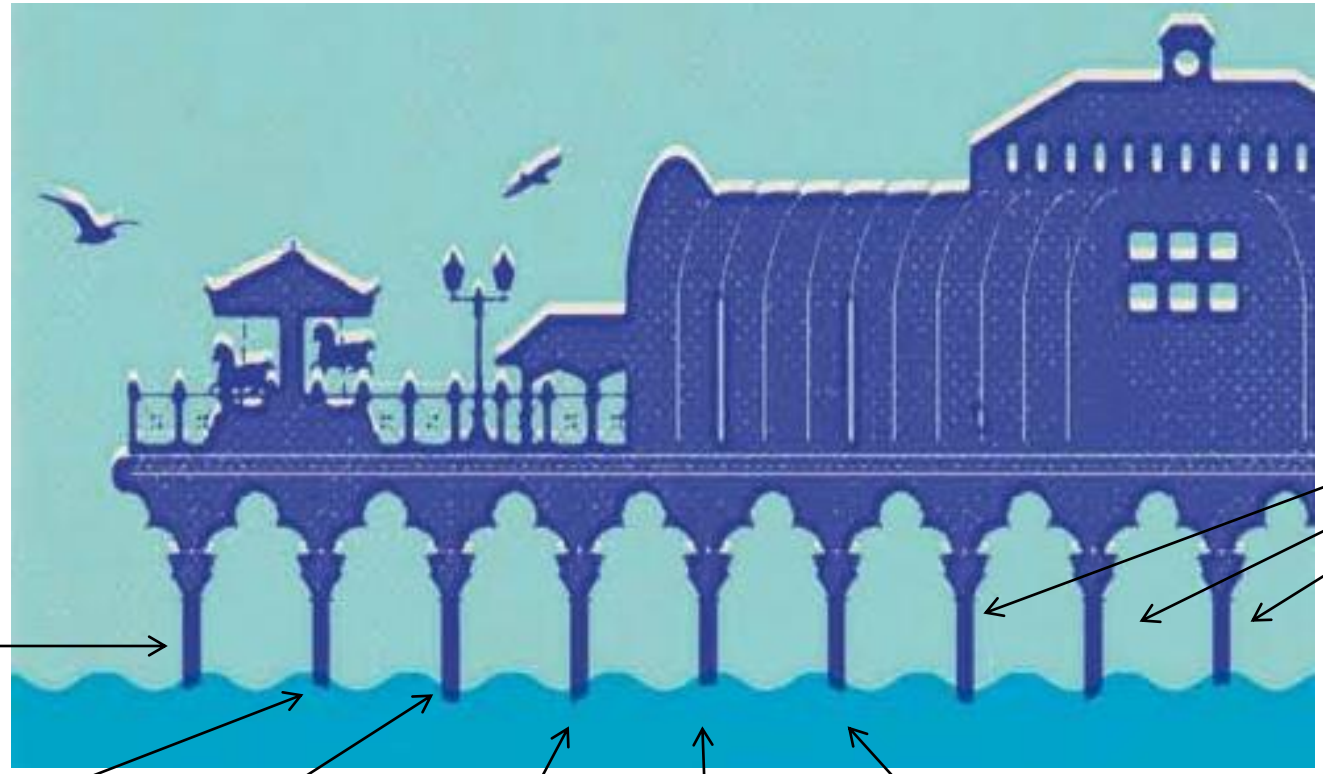
The Pillars of Peer Review

1. Expertise
2. Objectivity and Impartiality
3. Confidentiality
4. Constructive Feedback
5. Timeliness
6. Ethical Conduct



We need more Pillars

Expertise

Objectivity

Confidentiality

Constructive Feedback

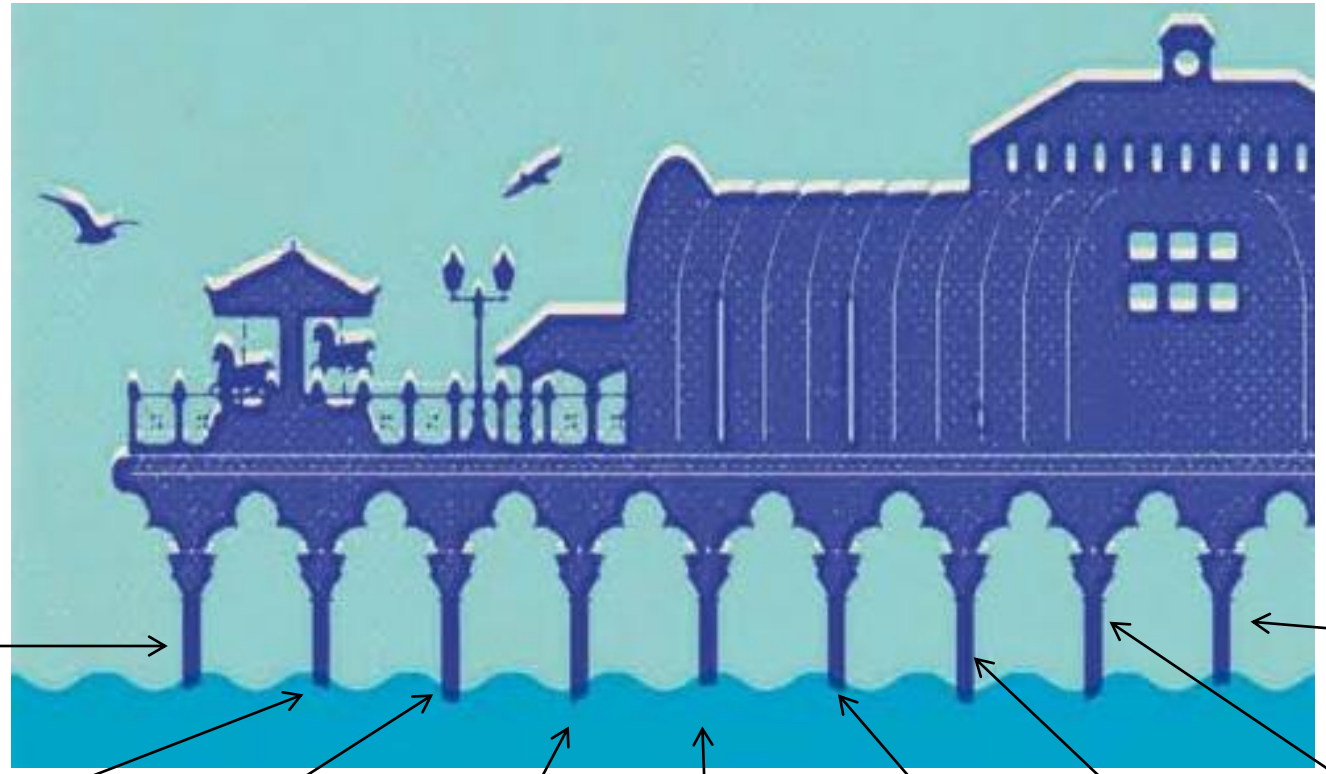
Timeliness

Ethical Conduct

New Pillars

1. Diversity
2. Training & Mentoring
3. Recognition - Credit - Reward
4. Transparency ???
5. AI ???

Pillars Supporting Academia



Expertise

Objectivity

Confidentiality

Constructive Feedback

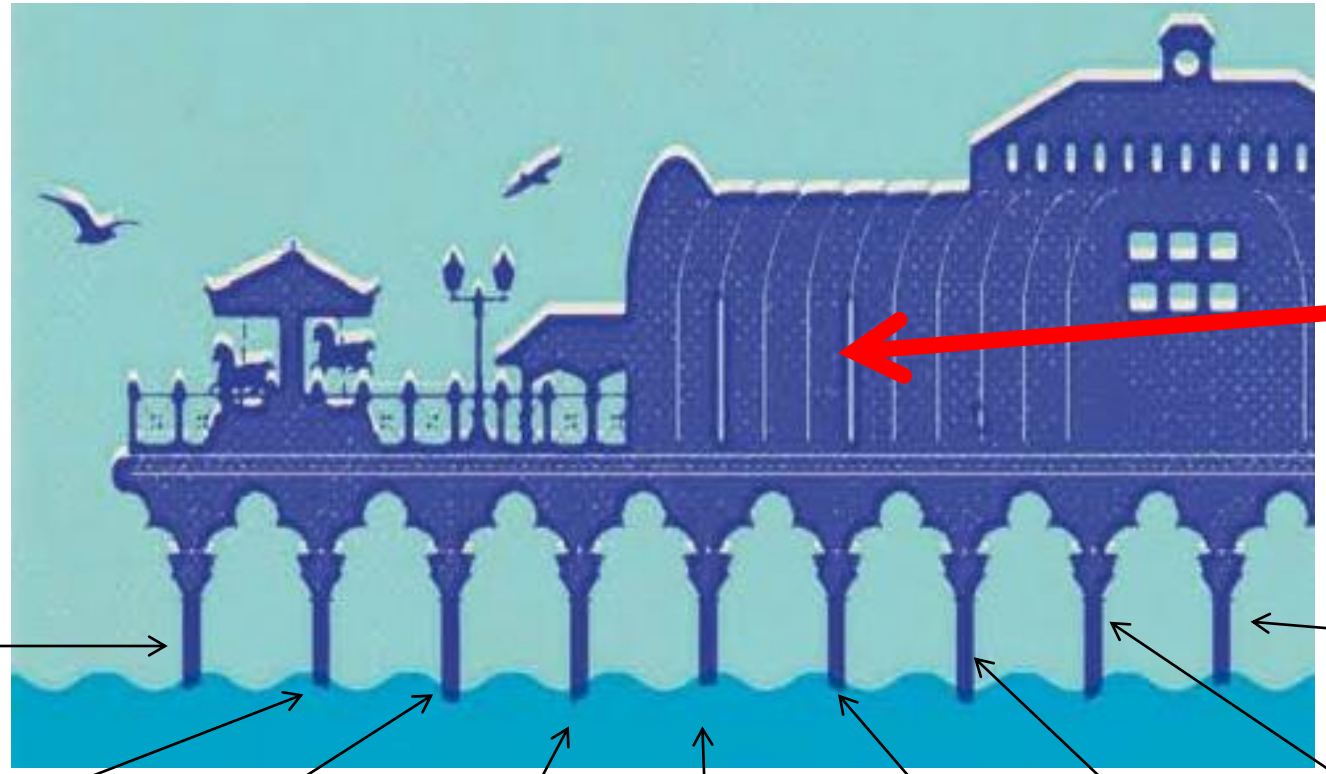
Timeliness

Ethical Conduct

Recognition

Training

Diversity



Where is the Transparency?

Expertise

Objectivity

Confidentiality

Constructive Feedback

Timeliness

Ethical Conduct

Diversity

Training

Recognition

Transparency

Special Issues

Predatory Publishing

Rubbish & Pollution

Merry-Go-Round

Lamp of Learning

Summary

State of peer review 2024 - IOP Publishing

1. **Peer review ripe for reinvention and in the context of Open Science/Research**
2. **Peer review is part of the scholarly record: *how can we make reviews work best for science?***
3. **Growing research integrity issues support the case for more transparency throughout the publishing process… and in academia generally.**
4. **Research Assessment needs a large scale peer review.**

Peer Review

Trends & Issues Q&A

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