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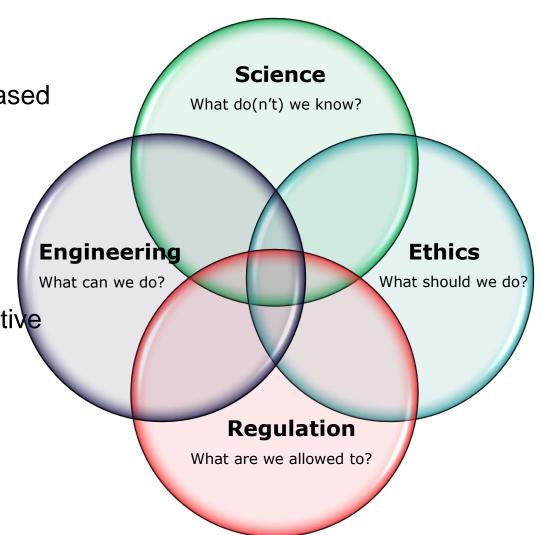
Publishing, OA and Plan S



Background

 Focus on providing decision support based on engineering enabling regulation

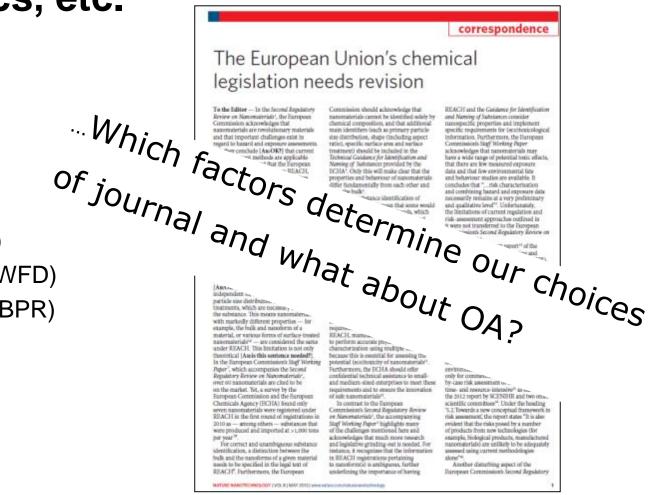
- Based on an analysis of:
 - Scientific data
 - Engineering tools
 - Environmental principles and Legislative needs





Nanomaterials, Plastics, etc.

- Applied engineering tools e.g.
 - Risk assessment
 - Life cycle assessment
- Regulation e.g.
 - EU chemical regulation (REACH)
 - EU Water Framework Directive (WFD)
 - EU Biocidal Product Regulation (BPR)
- Principles e.g.
 - The precautionary principle
 - The necessity principle



Hansen 2013. Nature Nanotechnology 8, 305-306.



1. Scope of the journal

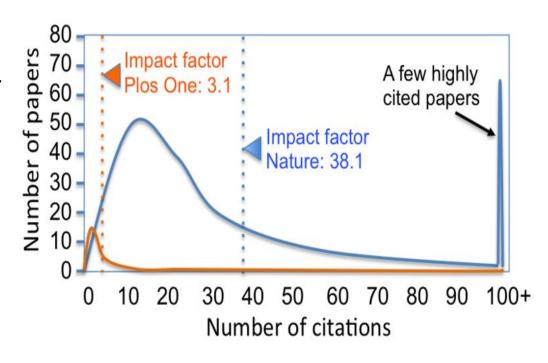
- Does the article fit into the journal's scope?
- Is the journal open to articles that do not follow a classic structure, e.g. IMRAD?
- Is the journal open to articles that come with political recommendations?
- Has the journal published similar articles before?
- Do we cite articles from the journal in our work?





2. Impact factor of the journal

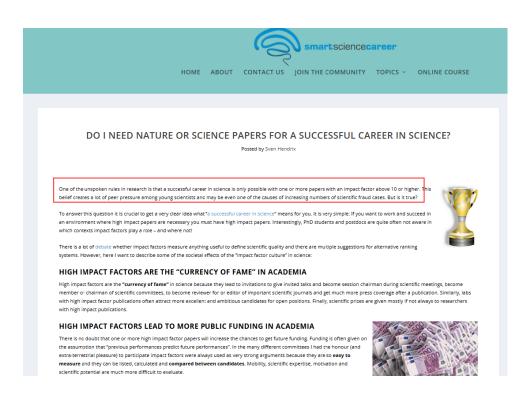
- Annual average number of citations per article
- Believed to be a good proxy for journal quality
- The higher the better
- High impact factor = "Currency of fame"



https://commons.wikimedia.org/wiki/File:Journal_impact_factor_Nature_Plos_One.png



Nature + Science = Succesfuld akademisk karriere



https://smartsciencecareer.com/do-i-need-nature-papers/

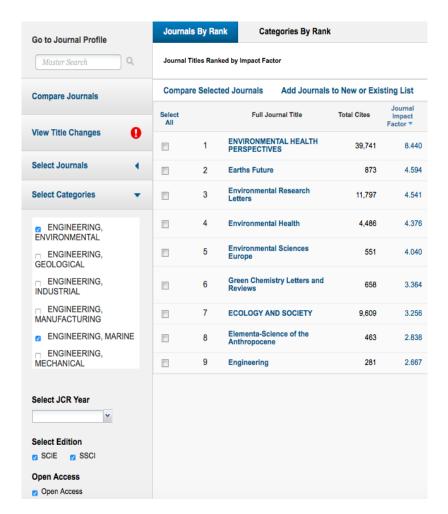
- "One of the unspoken rules in research is that a successful career in science is only possible with one or more papers with an impact factor above 10 or higher"
- Sven Hendrix
 - Neuroanatomy professor
 - Founder of smartsciencecareer

So how many > 10 impact factor OA journals are there?



InCites Journal Citation Reports

- In general
 - -239 out of 12298 with IF > 10
 - -18 out of 1289 OA journals with IF > 10
- My field of research
 - -4 out of 422 with IF > 10
 - -0 out of 27 OA journals with IF > 10





3. Journal recognized by peers?





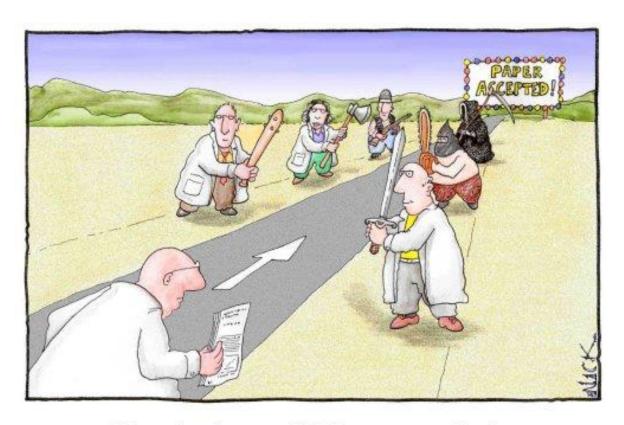
4. ...and it is read by the "right people"





5. Quality of the reviews

- Are the reviewers and their reviews of high quality?
- How long have they had and how much time have they spent on it
- Constructive criticism or just denigration of our work?
- How much, for example, 3 sentences compared to 10 pages?



Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'



6. Editors og Associate Editors

- Is it someone you look up to?
- Would you like them to notice your research?
- The dialogue with the editor and associate editors Is there a reasonable approach to the reviewers' position and our subsequent revisions

 Do editors and associate editors provide constructive feedback?





7. Journals' handling of articles

- Do "author guidelines" make sense?
- Easy to follow author guidelines?
- Easy to submit the article?

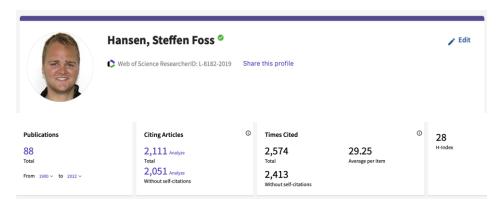


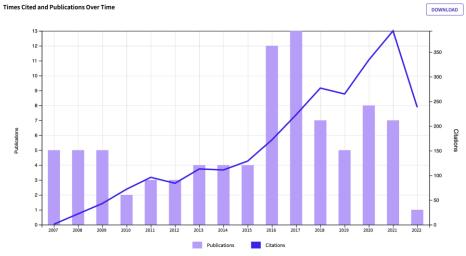
- Is the article "pre-screened" for formalities by the journal? Do you have to pay to have your article published?
- How long should you expect it to take before you get the reviews?
- How long should you expect the article to be published online?



8. What are we evaluated on?

- Number of publications
- Number of ISI publications
- Number of citations
- H index
- Number of first- (and possibly single-) authorships
- Invited presentations at international established conferences
- Patents
- Honors and awards





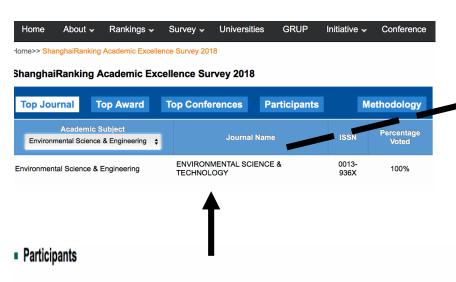


9. What is DTU evaluated on?

	Nordic Region** Europe World			
Leiden Ranking Citation impact indicator (top 10% publications.) <i>All sciences</i>	1	41	110	
Leiden Ranking Collaborative publications with Industry Indicator	4	7	15	
Reuters Top 100 World's Most Innovative Universities	1	14	65	
Academic Ranking of World Universities (ShanghaiRanking) Engineering/Technology	1	6	33	
QS World University Rankings	6	43	116	
* as per 19 April 2018 ** The Nordic region consists of Denmark, Sweden, Norway, Finland, and Iceland				



9. What is DTU evaluated on?



By May 2018, we have surveyed more than 3500 professors from top 100 universities in the world. They are from different subject fields and many of them are the chairs and heads of the faculties or departments they are at.

Criteria

A journal is considered as a Top Journal if:

- 1. It has more than one vote in one subject. AND
- 2. It has 50% or more votes in one subject OR It is the top voted Journal in one subject.



308.2

283.0

278.9

66

92.5

66.5



ACADEMIC

University of Wisconsin - Madison

University of California, Berkeley

Technical University of Denmark



My personal attitude toward Plan S

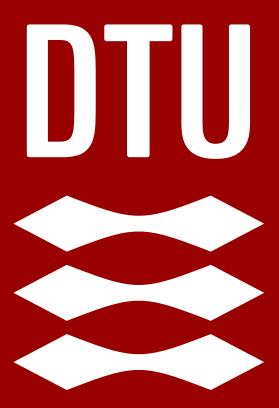
- OA has not been a parameter until now in the selection of a journal
- ...But can easily be
- Seems reasonable with OA requirements



• ... and perhaps there is currently a slight lack of OA journals with a high impact factor within all disciplines



Thank you for your attention!



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