

# Open Science und Akzeptanz in der Klimaforschung

*Michal Kucera (mkucera@marum.de)*



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2022 Theme

## Open For Climate Justice

This year's theme seeks to encourage connection and collaboration among the climate movement and the international



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# Open Science und **Akzeptanz** (in) der (Klima-)Forschung (Impakt, Bedeutung, Glaubwürdigkeit, Rolle)

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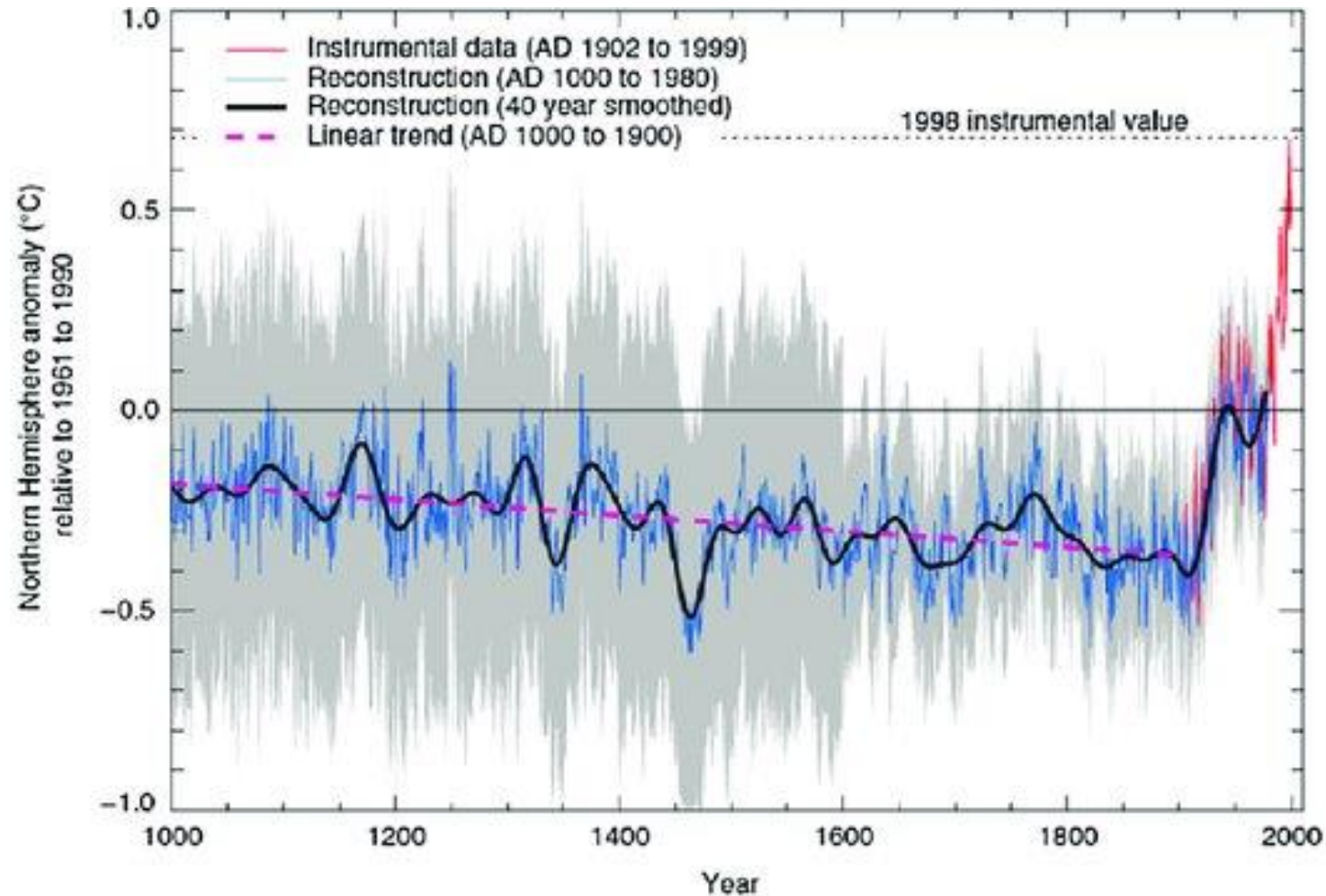


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# Das Anthropozän

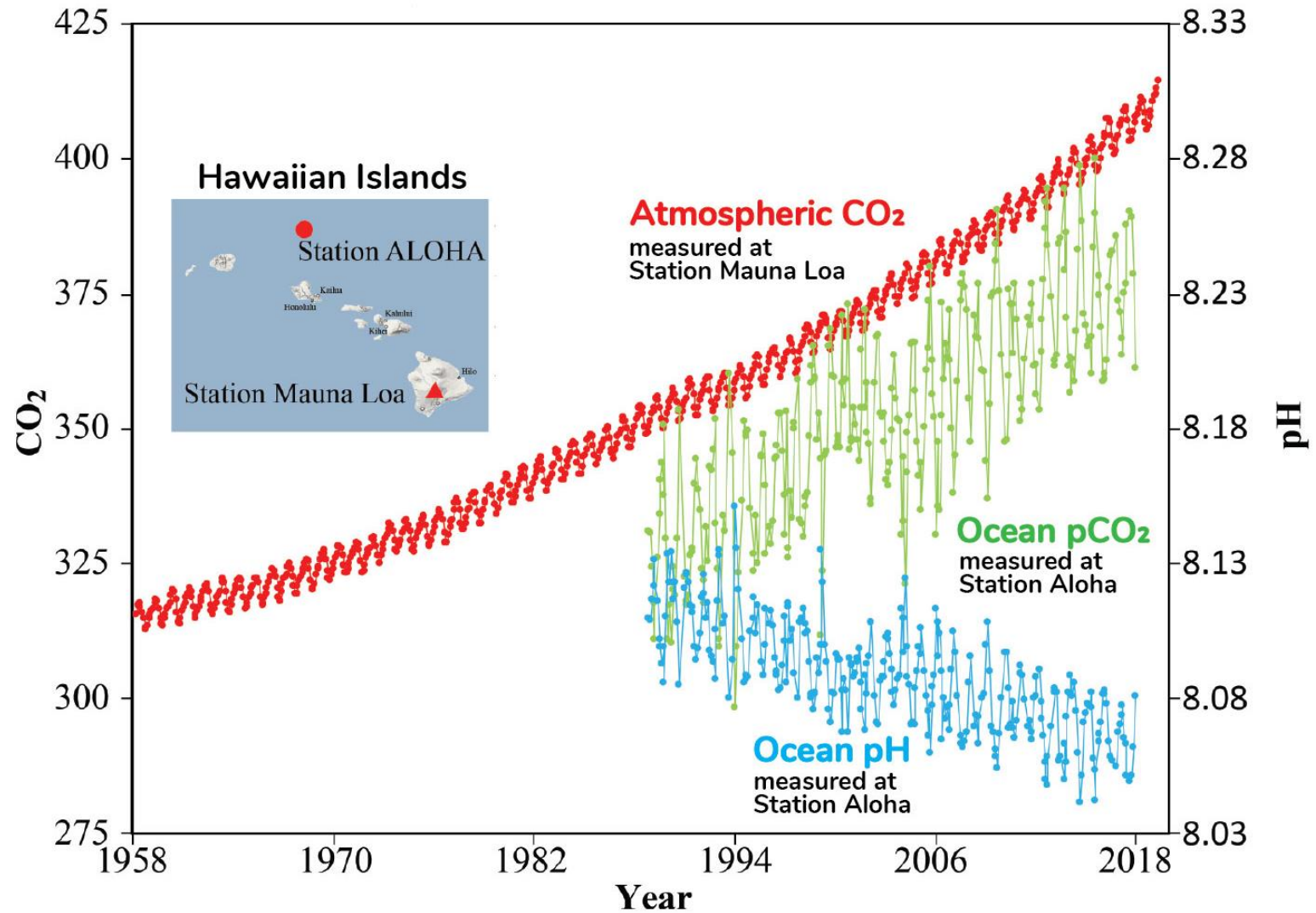


# Das Anthropozän: globale Erwärmung



The 'Hockey Stick' global temperature trend for the last millennium graph from IPCC3 (2001), adapted from Mann, Bradley and Hughes (1999).

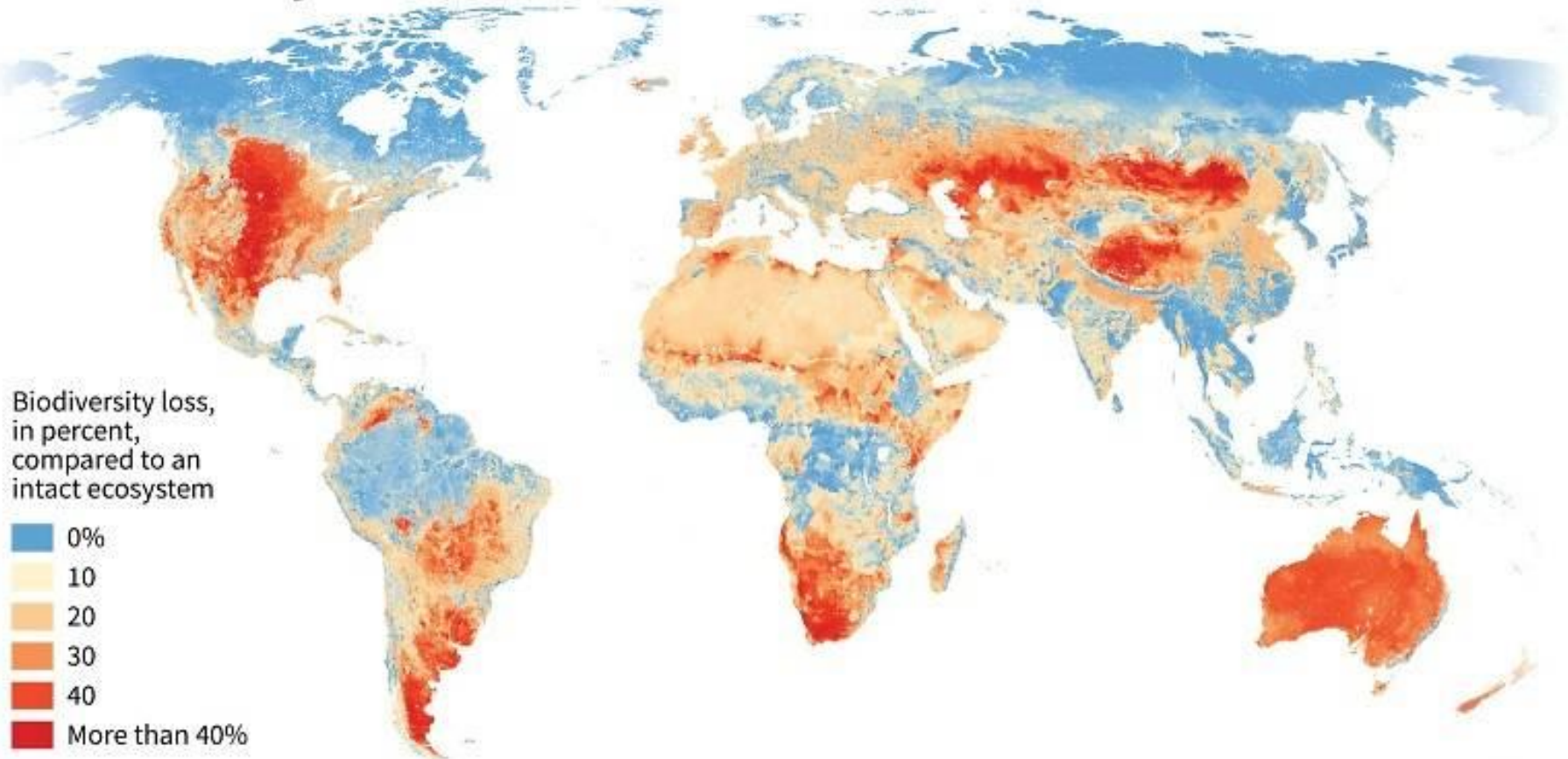
# Das Anthropozän: Ozeanversauerung



UGC@Berkeley adapted from NOAA data

# Das Anthropozän: Verlust der Artenvielfalt

## Biodiversity loss

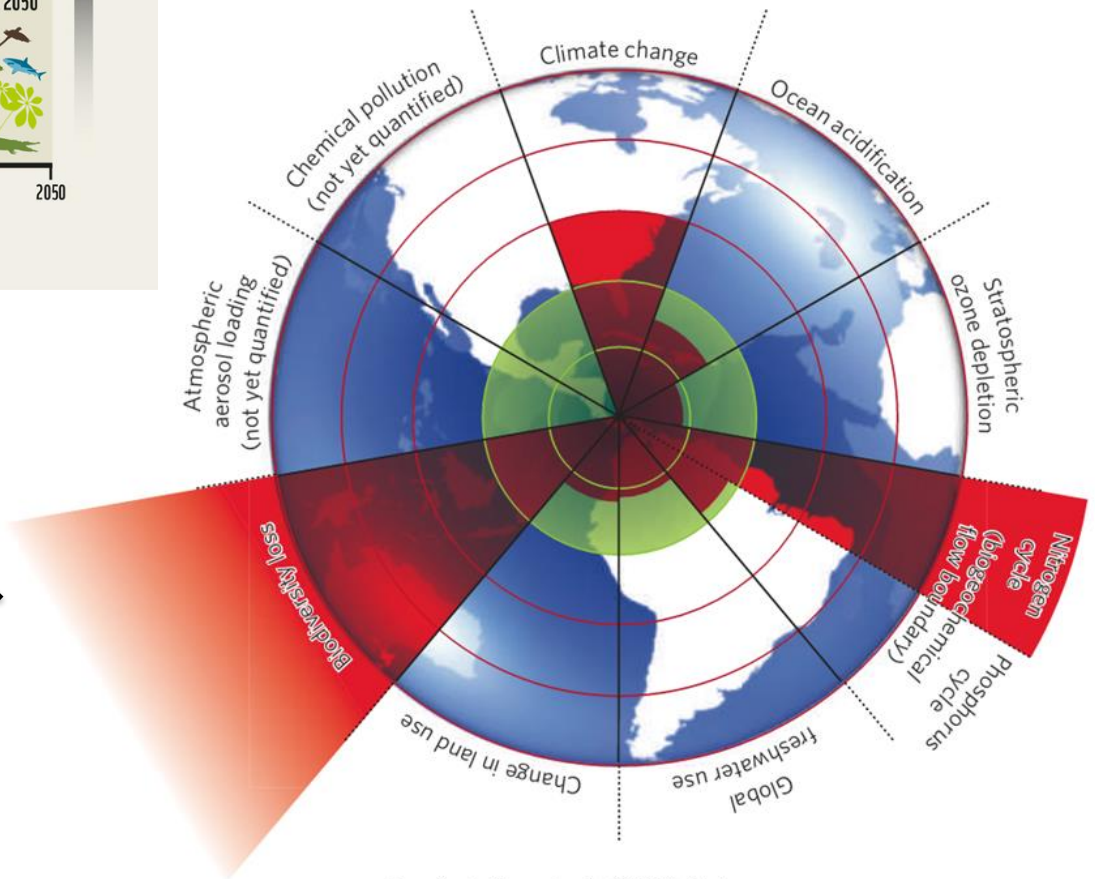
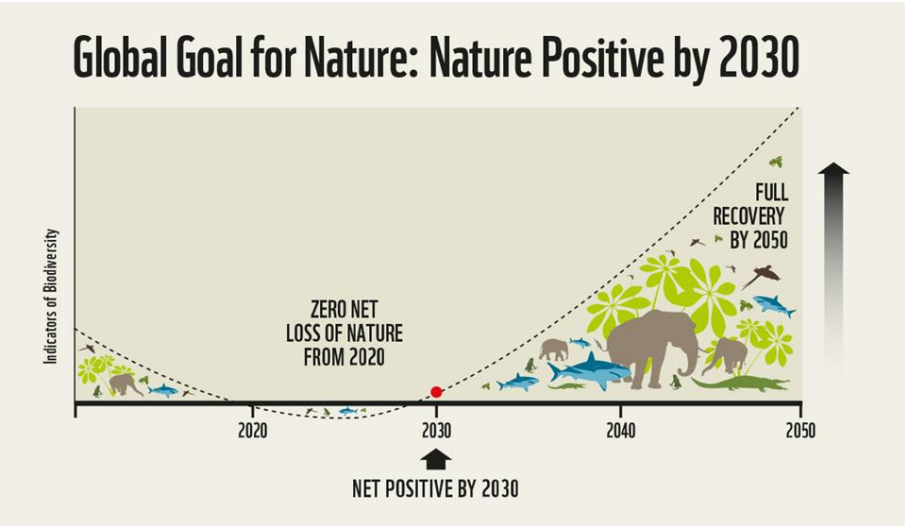


Source: National History Museum Data Portal. Data from 2016

© AFP

One million species risk extinction due to humans (IPBES: April, 2019)

# Das Anthropozän: Bewertung und Handlung



Rockström et al. 2009 Nature



# Open for Climate Justice

- Klimagerechtigkeit: weder die Ursachen noch die Folgen der Klimakrise sind gleichmäßig oder gerecht verteilt.
- Dies beeinträchtigt die Fähigkeit, Wissen über die Klimakrise zu produzieren, zu verbreiten und zu nutzen.
- **Offenheit kann Wege zu einem gerechteren Wissensaustausch schaffen.**

## Geophysical Research Letters\*

 Free Access

### Northern hemisphere temperatures during the past millennium: Inferences, uncertainties, and limitations

Michael E. Mann, Raymond S. Bradley, Malcolm K. Hughes

First published: 15 March 1999 | <https://doi.org/10.1029/1999GL900070> | Citations: 1,193

Published: © 1999, American Geophysical Union  
Geophysical Research Letters, Vol. 26, No. 6, p.759-762

#### General Information:

- [NOAA Paleoclimatology Site](#)
- [Univ. of Massachusetts Press Release and Press Kit](#)
- [GRI Highlights](#)
- [Science \*Nota Bene\* piece](#)
- [Abstract of Article](#)

#### Graphics:

- [Hemispheric Temperature Reconstruction in GIF \(low res\) or pdf or postscript](#)

#### Article:

- [Manuscript and Figures in postscript or pdf format](#)

#### Data:

- [Reconstruction \(AD 1000-1980\) and Associated Error bars](#)
- [Instrumental series \(1902-1998\)](#)
- [Individual Proxy Records](#)

November 05 2021

# All the research that's fit to print: Open access and the news media

Teresa Schultz  

 Check for updates

> Author and Article Information

*Quantitative Science Studies* (2021) 2 (3): 828–844.

[https://doi.org/10.1162/qss\\_a\\_00139](https://doi.org/10.1162/qss_a_00139) **Article history** 

Looking at **all articles** published 2010 - 2018 in journals across all four quartiles of the Journal Impact Factor using data obtained through Altmetric.com and Web of Science.

- News media mentions OA articles more than paywalled articles.
- Gold, green and hybrid OA articles all had a positive correlation with the number of news mentions received.

# Enhancing Climate Change Research With Open Science



Travis C. Tai<sup>1\*</sup> and

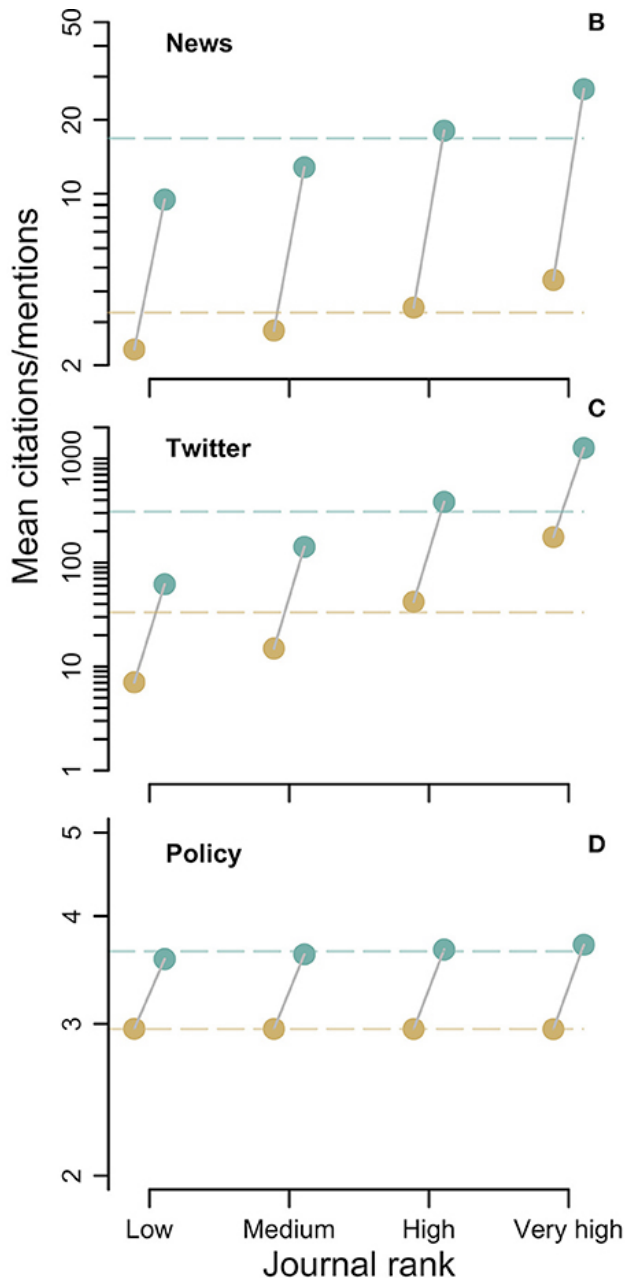


James P. W. Robinson<sup>2</sup>

Communication and media influence of **closed** and **open** access **climate change studies** published between 2007 and 2016.

Points are predicted mean number of news mentions (**B**), twitter mentions (**C**), and policy mentions (**D**) in four journal ranking categories, controlling for effects of publication year and journal on citations/mentions. Dashed lines are mean citations/mentions controlling for journal rank, publication year and journal name.

Tai and Robinson, 2018



# News media attention in Climate Action: latent topics and open access

[Tahereh Dehdarirad](#)  & [Kalle Karlsson](#)

[Scientometrics](#) **126**, 8109–8128 (2021) | [Cite this article](#)

- In this study we investigated whether open access could assist the broader dissemination of scientific research in **Climate Action (SDG13)** via news outlets.
- Across all subjects, open access papers in Climate Action had a **news count advantage (8.8%)** in comparison to non-open access papers.

# Searching for „climate justice“ on Google Scholar

## From environmental to **climate justice**: **climate** change and the discourse of environmental **justice**

[D Schlosberg](#), [LB Collins](#) - ... [Interdisciplinary Reviews: Climate ...](#), 2014 - [Wiley Online Library](#)

... **justice** on the development of the discourse of **climate justice**. We begin with a history of environmental **justice**, ... '**justice**' in its title. Next, while it is commonly thought that environmental ...

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 Full Access

## No **climate justice** without gender **justice**: an overview of the issues

[G Terry](#) - [Gender & Development](#), 2009 - [Taylor & Francis](#)

... new, and no single **climate** event can be definitely attributed to **climate** change, but we are ... more frequent and more intense as a result of **climate** change. A recent article confirmed that ...

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 Full access

## [HTML] Achieving a **climate justice** pathway to 1.5 C

[M Robinson](#), [T Shine](#) - [Nature Climate Change](#), 2018 - [nature.com](#)

... **Climate justice** is a concept that views **climate** change and efforts to combat it as having ethical implications and considers how these relate to wider **justice** concerns 1 . **Climate justice** ...

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## **Climate justice**

[SM Gardiner](#) - ... [Oxford handbook of climate change and society](#), 2011 - [books.google.com](#)

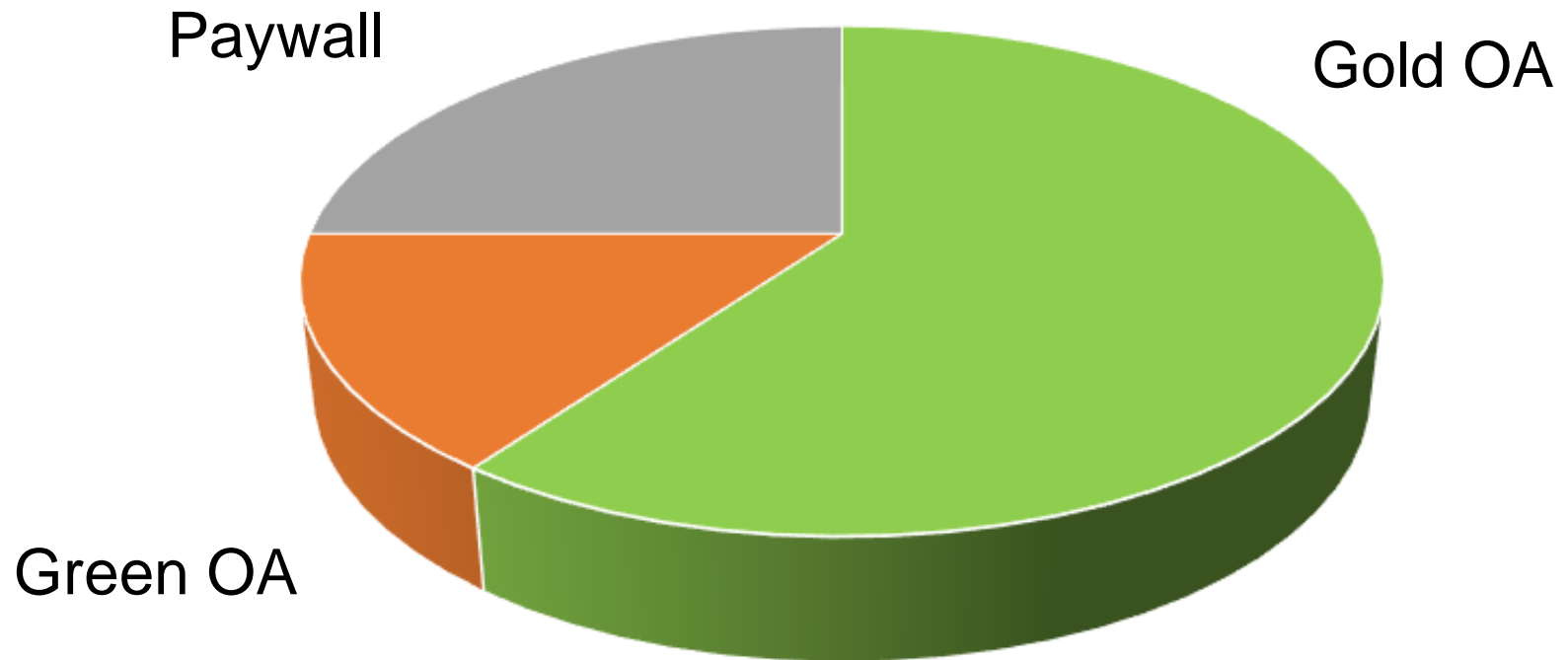
... about the relevance of **justice** concerns the intersection of **climate justice** with more general issues of **justice** and ethics. For one thing, it seems clear that ultimately **climate** must be seen ...

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# Searching for „climate justice“ on Google Scholar

Status of the first 20 articles listed



## Public access is not equal access

SUDIP PARIKH, SHIRLEY M. MALCOM, AND BILL MORAN [Authors Info & Affiliations](#)

SCIENCE • 9 Sep 2022 • Vol 377, Issue 6613 • p. 1361 • [DOI: 10.1126/science.ade8028](https://doi.org/10.1126/science.ade8028)

Gold Open Access trägt zu **einem gleichberechtigten Zugang zur Wissenschaft** bei, kann aber **nicht gewährleisten**, dass alle die gleichen Möglichkeiten haben, ihre **Meinung im wissenschaftlichen Diskurs zu veröffentlichen**.