Publication ethics, research integrity, and climbing mountains

Chris Graf, October 2023 chris.graf@springernature.com



# What's your mountain?





Pera

SS48

••

÷

Pozza di Fassa

Vigo di Fassa

SS48

Soraga di Fassa

SS241













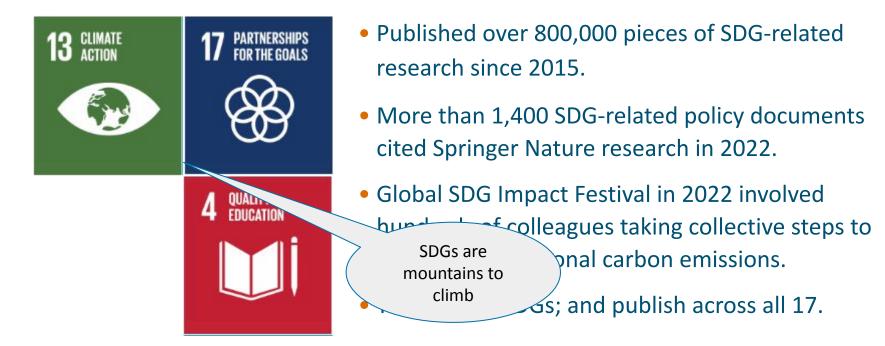


# What's your mountain?

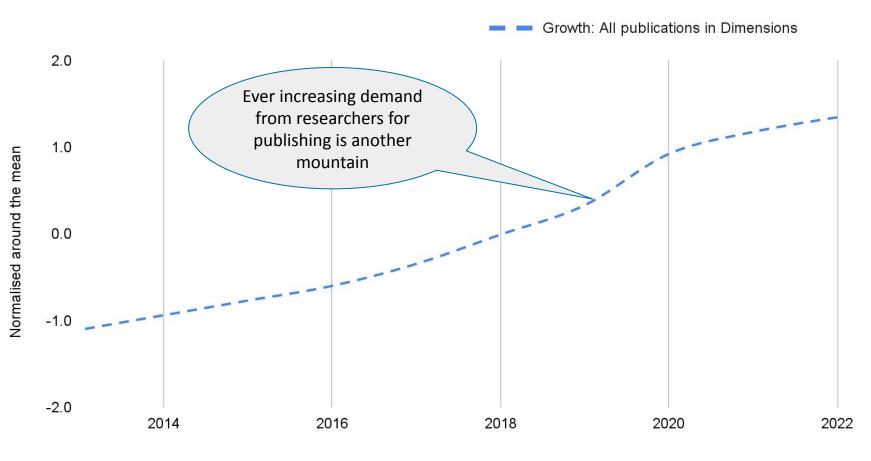


#### **PUBLISHING: ADVANCING DISCOVERY**

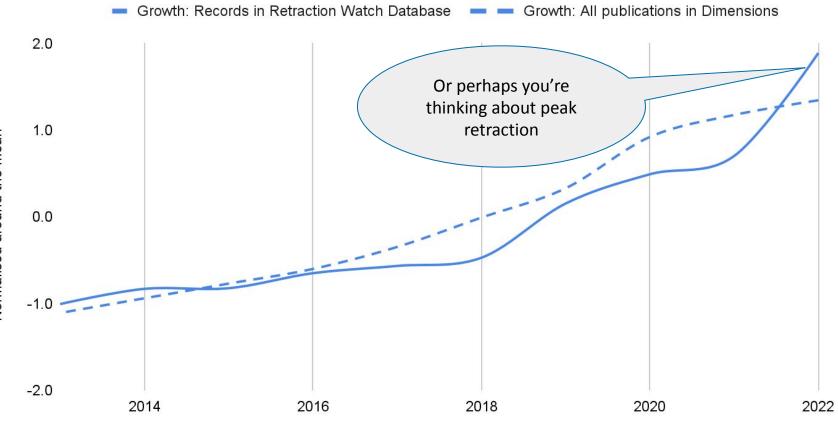
Open access (OA) publishing extends the reach of the research we publish to address the world's urgent challenges



Sustainability at Springer Nature



**SPRINGER NATURE** 



**SPRINGER NATURE** 

Publications in Dimensions, 2022 7,000,000

> For context, growth rate in retractions is steep but here are overall numbers from 2022

Records in Retraction Watch Database, 2022 6000

# Found your mountain?



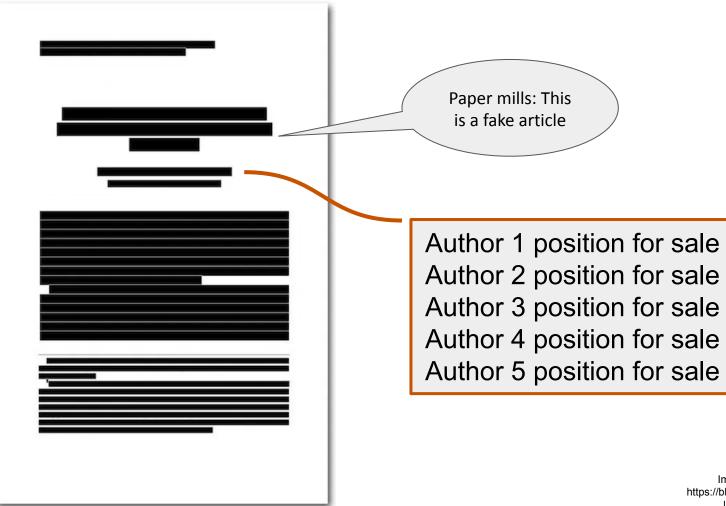
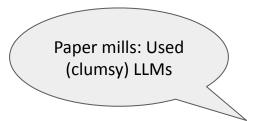


Image Fenner, M. CC-BY at https://blog.datacite.org/referencelists-and-tables-of-content/



The characteristics of rainfall in coastal areas and the intelligent library book push system oriented to the Internet of Things NEWS 31 May 2023

## Al intensifies fight against 'paper mills' that churn out fake research

Text- and image-generating tools present a new hurdle for eff

number of fake papers making their way into the academ'

Layal Liverpool



Paper mills: LLMs are only getting better

where the growing

A shared challenge needs a shared solution







The UNITED2ACT SUMMIT is a virtual gathering of international stakeholders working collaboratively to address the collective challenge of paper mills in scholarly publishing.



#### **140+ members**

Academic publishers focused on science, technology, medicine, social sciences, and humanities



#### 66% of articles

Our members collectively publish 66% of all journal articles



#### **20** countries

STM spans the globe — made up of publishers of all shapes and sizes

## **About STM**

STM is the standard bearer for the academic publishing industry, working with our members to advance trusted research worldwide. We are committed to ensuring that the great discoveries of our time are communicated with pinpoint accuracy, clarity and integrity. We champion innovation across academic research, stimulating the development of new technologies and guidance on universar standards.

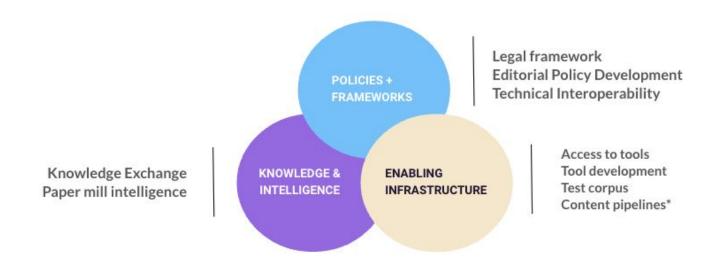


Advancing trusted research

## **STM Integrity Hub**

"To equip the scholarly communication community with data, intelligence, and technology to protect research integrity"





The Integrity Hub is organized in Working Groups, Task Forces, and a Governance Board

# **Do The Right Thing**

**Courtesy of Retraction Watch** 

When one of the involved parties does something admirable All-time Retraction Watch Database, 46,000

> Maybe we can do something to 'turn up the volume' on Do The Right Thing stories

All-time 'Do The Right Things' 141 Earlier this month. we reported on how Susanne Stoll, a graduate student in the Department of Experimental Psychology at the **University College** London, discovered an error that toppled a highlycited 2014 article — and which might affect hundreds of other papers in the field of perception.



https://retractionw atch.com/2020/12 /23/i-thought-i-ha d-messed-up-myexperiment-how-a -grad-student-disc overed-an-error-t hat-might-affect-h undreds-of-paper

S

### Nobel winner retracts paper from Science

A Caltech researcher who shared the 2018 Nobel Prize in Chemistry has retracted a 2019 paper after being unable to replicate the results.

Frances Arnold, who won half of the 2018 prize for her work on the evolution of enzymes, tweeted the news earlier today:



Frances Arnold

https://retractionw atch.com/2020/01 /02/nobel-winner-r etracts-paper-fro m-science/

She did the right thing

Nicola Smith, credit Karl Welsch, Welsch Photogra

n September 2019 Nicola Smith, a molecular phan cologist in Australia, faced a brutal decision. She'd realized at she'd made a mistake — or rather, failed to catch a mistake — her group's research before the crippling error was published — in two academic articles which were the culmination of years of work. And she could either tell the world, or pretend it never happened.

https://retractionw atch.com/2021/01 /12/the-most-horri fic-time-of-my-car eer/

## Thank you!

