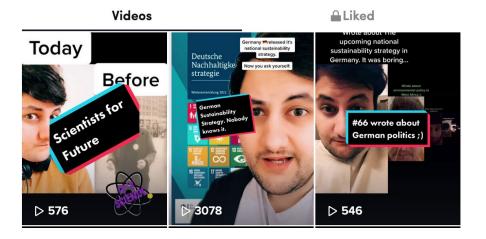
The wonderful world of science communication on TikTok

Dr. Robert Lepenies
Helmholtz Centre for Environmental
Research (UFZ)
Member of Global Young Academy (EC)

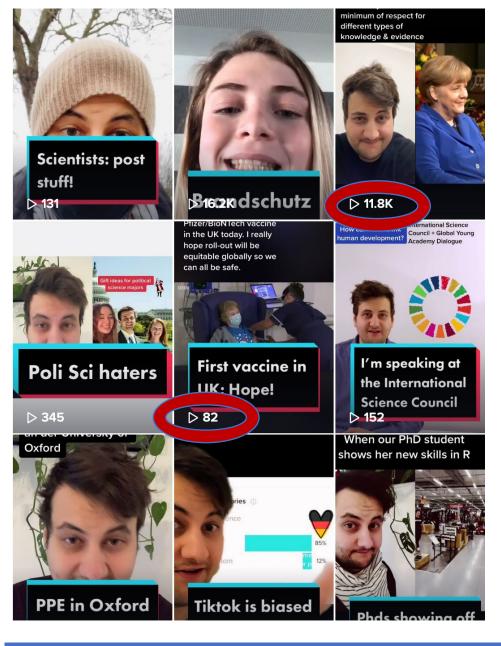




Science communication on TikTok is powerful because of:

reach, tools, interaction, authenticity, diversity

Start experimenting!



A mysterious and powerful algorithm

More than 1 billion active users

Waking up to 100k views without any followers (higher organic reach than any other platform)

How is spending time on this short-form video platform useful for us scientists (& science organizations)?

Powerful video editing app, creative Al filters, huge music library for every mobile phone

Watch and scroll for hours

Connected Papers @ConnectedPapers · Mar 12

Replying to @ConnectedPapers

On Sunday, a Tik Tok video about us went viral, quickly gaining over 1M views and over 1000 supportive comments. This came out of nowhere nobody on our team even uses TikTok. Apparently, a huge audience of researchers is hanging there. Check it: [2/12] tiktok.com/@oxpat/video/6...

Anyone can produce engaging content within seconds

> New modes of communication

reach, TOOLS, interaction, authenticity, diversity

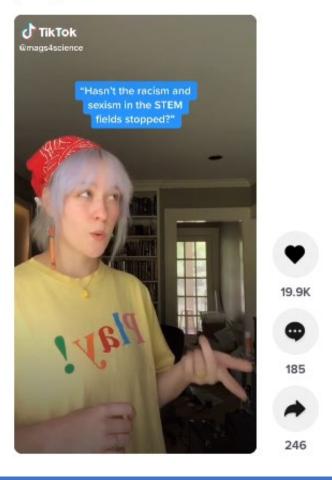


mags4science Maggie 6 % · 2020-6-27

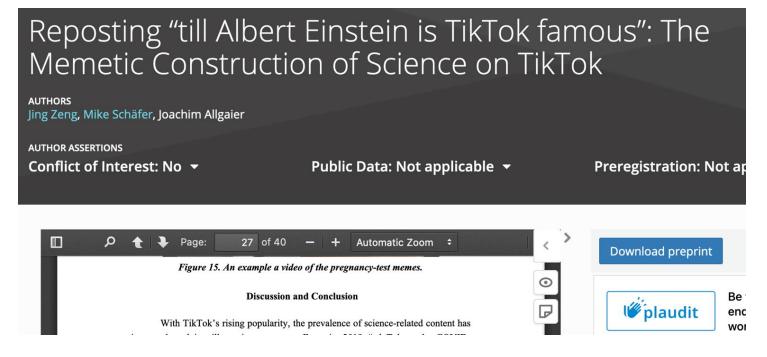


To ignore the disparities would be irresponsible. #f #womeninstem #education #foryoupage

original sound - Evanormous



What mode of science communication on TikTok?



- 1. Mostly STEM, experimental settings
- "excessively uncritical attitude" towards science

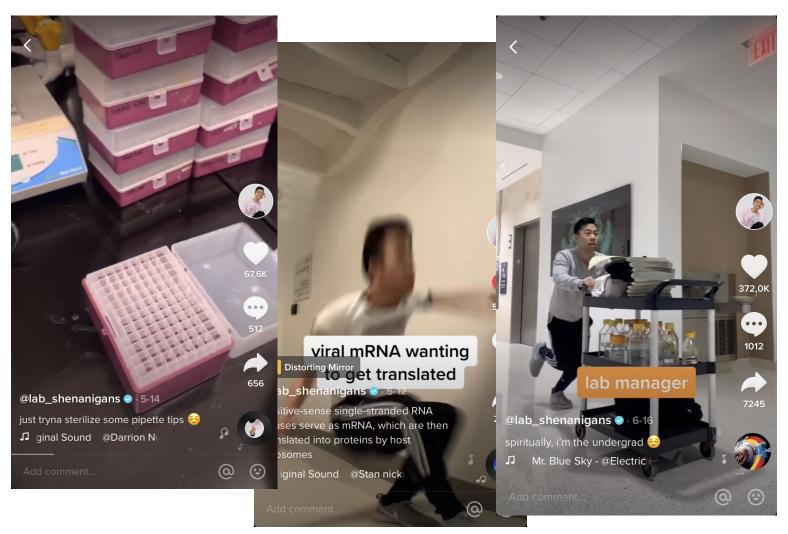
BUT a more

Egalitarian public engagement model (easier to personally interact with scientists than any other platform).

Huge potential to show science-in-the-making (Shapin 1992)?

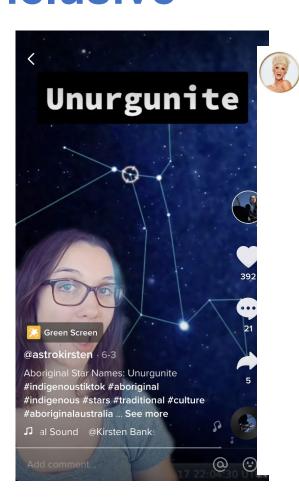
Building trust in science: Showing the process, not just the outcome of science.

reach, tools, <u>INTERACTION</u>, authenticity, diversity

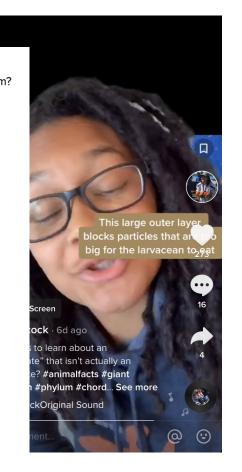


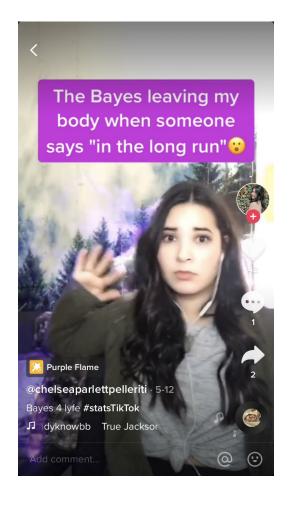


ScienceTikTok as welcoming & inclusive

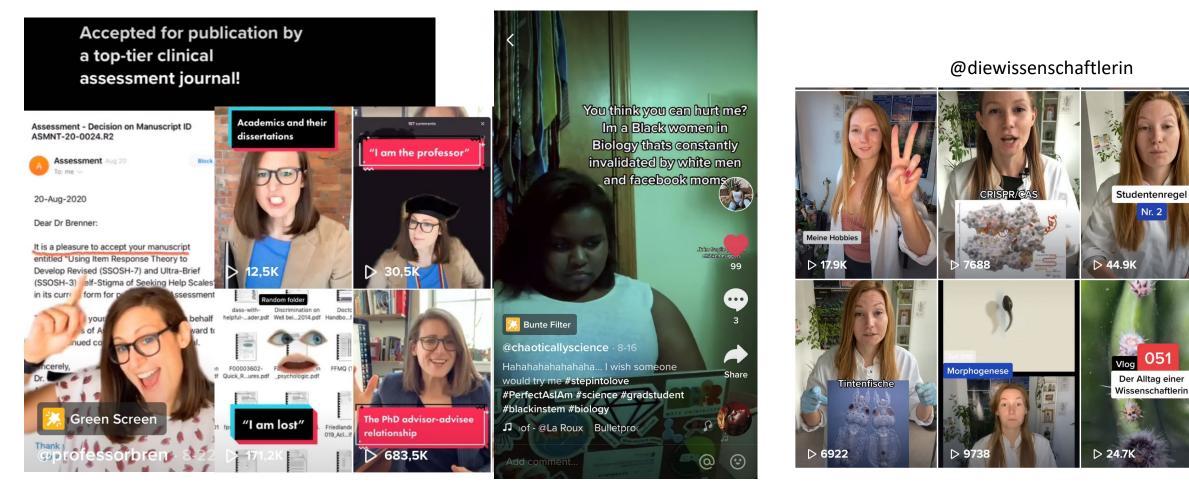


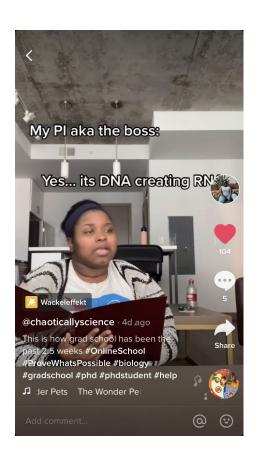






ScienceTikTok as welcoming & inclusive, stressing societal impact





Authenticity and experimentation above everything: Many low-threshold forms of engagement possible through reactions, filters, sounds.



Limitations:

- Not *directly* useful for research purposes or networking (unlike twitter & LinkedIn)
- Data Privacy/ Ethical Issues/ Censorship/ Surveillance/ Geopolitical issues/not disability friendly/addictive...
- Poor moderation of comments: rampant racism, sexism
- 4. Regional bias of algorithm; Western bias of content

What about science organizations?

- Only very few successful organizations on TikTok (Washington Post; NPR...), not a single science organization (users expect entertainment, not top-down communication)
- 2. Can try to cross-post & repurpose content (low cost)
- 3. Encourage individual communicators to experiment but shield and protect them in case of backlash
- 4. Spend time *consuming content* to understand new forms of digital communication, and then apply insights elsewhere

TikTok is a chance to

1. Embrace Quantity more often in science communication (it's not a dirty word)

2. Engage in story sharing, not just story telling.

3. Learn that to improve #scicomm, we need to consume content first (and meet the future of science?)