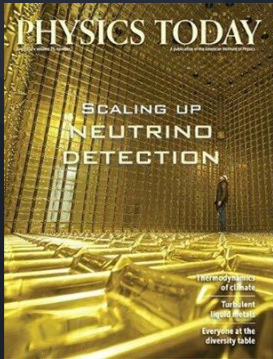


PHYSICS TODAY

SCIENCE JOURNALISM: INSTALLING CONFIDENCE INTO WRITING

Gizem Doğan
AIP Physics Today
Summer 2022 Science Writing Intern
Bowdoin College 2024
Physics | Government and Legal Studies



Why is science writing necessary?

- ❖ Easy-to-understand for demographic with different scientific backgrounds
- ❖ Compact and concise
- ❖ Reduced technical language
- ❖ Accurate story

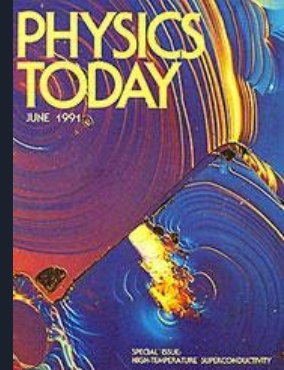
NOT OUR FORTE!





PROCESS OF WRITING

- ❖ Search for stories, updates, news
- ❖ Researching the topic
- ❖ Draft writing
- ❖ Interviewing researchers and experts
- ❖ Exchanging suggestions and
edits
- ❖ Confirming with researchers
- ❖ Copyediting and formatting



PUBLISHED!

PHYSICS TODAY

HOME BROWSE▼ INFO▼ RESOURCES▼ JOBS

DOI:10.1063/PT.6.1.20220728a

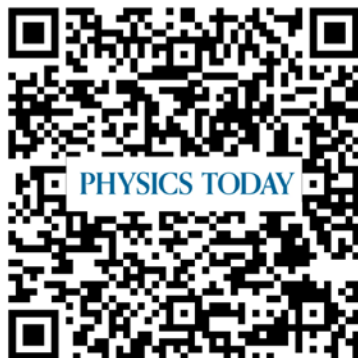
28 Jul 2022 in [Research & Technology](#)

Microcombs enhance silicon photonic chips

Once integrated, cost-efficient microcombs find applications ranging from data communication to quantum computing.

Gizem Doğan

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COMMENTS



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DOI:10.1063/PT.6.4.20220729a

29 Jul 2022 in [People & History](#)

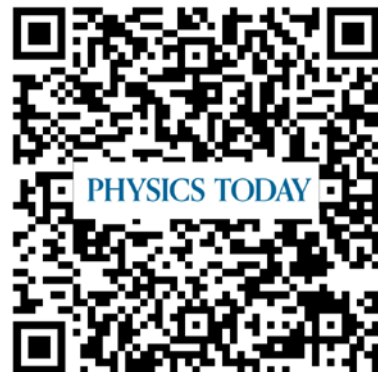
In last-minute shuffle, Switzerland hosts virtual International Physics Olympiad

The annual competition for high school students went online.

Gizem Doğan



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COMMENTS





SHED THE JARGON – INTRODUCE CAUSATION

Draft 1st: technical language that drags on

Dr. Wang and Dr. Bowers overcame these efficiency and complexity problems by using an **aluminum gallium arsenide on insulator (AlGaAsOI) micro-resonator** that is directly pumped by a **distributed feedback (DFB) on-chip laser** to generate a **dark-pulse microcomb**. They utilized this simple

Draft 8 + Copyediting: enough detail with jargon reduced to day-to-day diction

The scientists assembled an **aluminum gallium arsenide on insulator microresonator** that turned **continuous laser light** into a **coherent microcomb**, as illustrated above. Bright microcombs, whose teeth are whose temporal

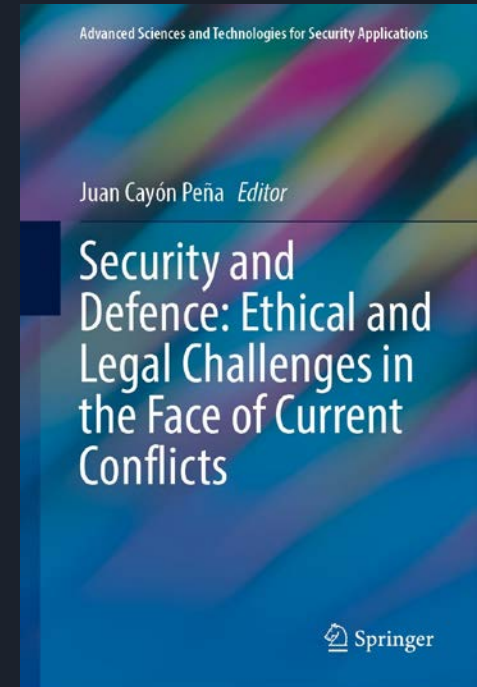
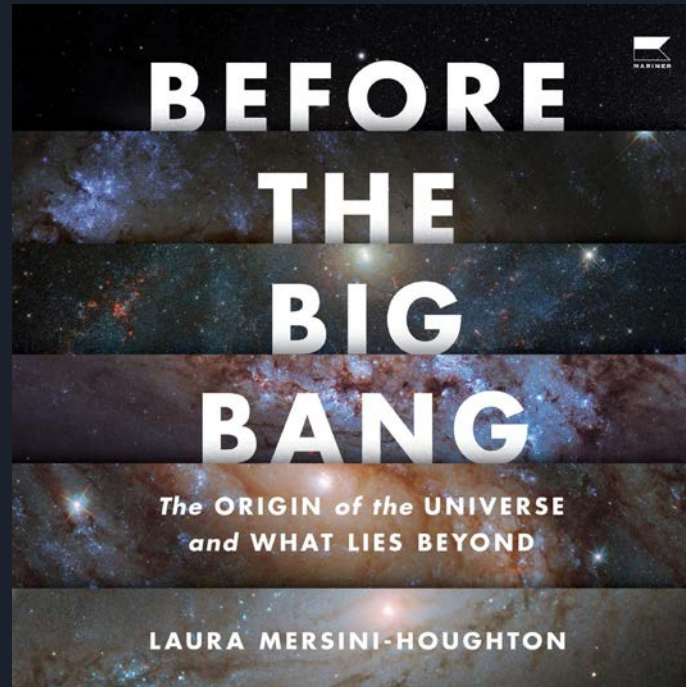
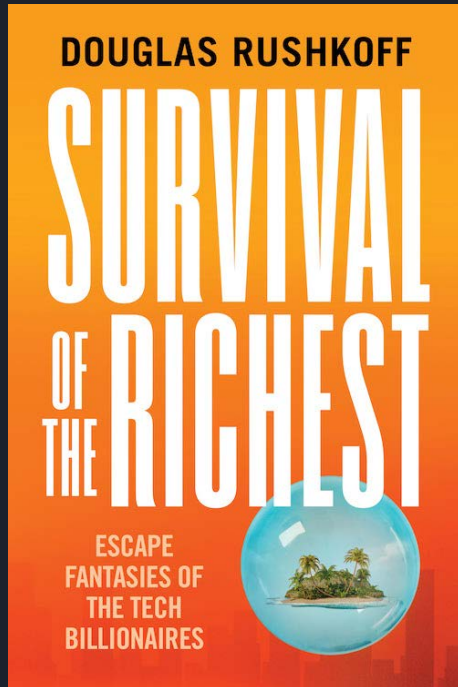
viable solution. Also known as “light rulers,” microcombs take light from a single laser and use microresonators to produce light at hundreds of wavelengths. Each frequency line transmits data, so a single chip-scale

THE IPHO 2022 STORY

- ❖ Host country change: Belarus to Switzerland
- ❖ Shift from shipment of lab equipments to simulation programs
- ❖ Meeting the US team
- ❖ Interviewing the US and Japanese teams' academic directors



BOOK CAPSULES



INTERVIEWS WITH RESEARCHERS

For a Physics Today Q&A, I interviewed Turkish physicists and engineer Professor Erkcan Özcan who is a CERN researcher and is known for his Youtube collaborations





Why is science communication important?

Responsibilities

- ❖ Research Funding
 - Congressional appropriations
 - Private enterprises
- ❖ Informing the taxpayer
- ❖ Accessible language for distinct demographics
- ❖ Public's decisions must be informed by science
- ❖ Raising equity and amplifying the voices of historically underrepresented groups



MANY THANKS TO...

Brad, Kayla, Mikayla, and **Andrew** for giving me the opportunity to be a part of *Physics Today*!

My mentors **Christine** and **Andrew** for supporting me through the internship!



ANY QUESTIONS?

Or comments?

