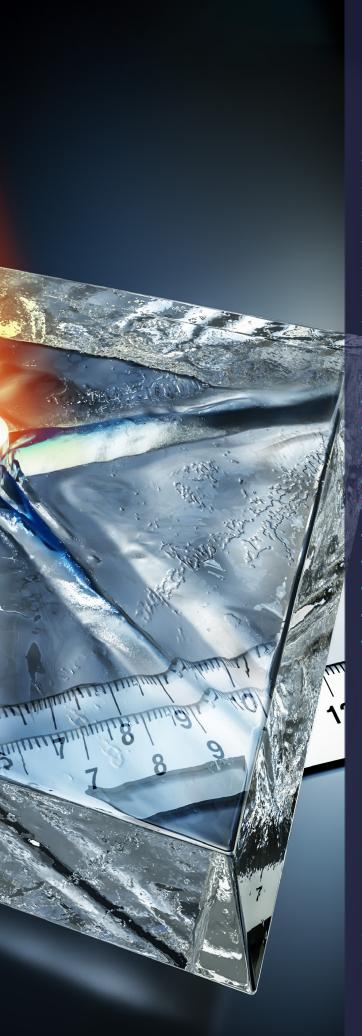
## Optics in 2021





## **SUMMARIES**

- 32 Silica fiber lasers and amplifiers that run cold
- 33 Low-quantum-defect fiber laser
- 34 High-resolution, digitally controlled multimode laser
- 35 Parallel random numbers with a laser diode
- 36 Fiber laser yields six-octave frequency comb
- 37 Speeding up dual-comb hyperspectral imaging
- 38 Broadband coded-aperture light-field imaging
- 39 Chirality mapping in microscopy format
- 40 Label-free thyroid cancer diagnosis in real time
- 41 Diffractive network for image classification
- 42 Deep learning probes nonlinear dynamics
- 43 Quantum advantage with light
- 44 Fiber quantum communications across 600 km
- 45 Chaos-based mid-infrared communication
- 46 Nanofibers for room-temperature quantum tech
- 47 Nanostructures boost light coupling to optical fibers
- 48 Nanoscale field samplers with attosecond resolution
- 49 Polaritonics on Viking sunstones
- 50 Seeing topology using leaky photonic lattices
- 51 Twisting Weyl nodes with light
- 52 Skyrmionic hopfions in light
- 53 Horocycles of light in a ferrocell
- 54 Tunable pin-like optical vortex beams
- 55 Resonance enhancement via levitating photonics
- 56 Metasurfaces embracing a phase change
- 57 Metaform optics
- 58 Full-color imaging with learned meta-optics
- 59 Ultrathin broadband reflective optical limiters
- 60 High-yield, wafer-scale fabrication of  $Si_3N_4$  PICs
- 61 Bendable optoelectronics with 2D perovskites