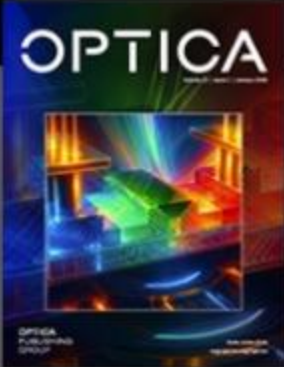


JOURNAL HOME
ABOUT
MEMORANDA
MINI-REVIEWS
ISSUES IN PROGRESS
CURRENT ISSUE
ALL ISSUES



About the cover

Optica

Prem Kumar, Editor-in-Chief
Editorial Board >

Search this Journal

Keyword / Author

Volume Issue Page

Q

SUBMIT A PAPER
SIGN UP FOR ALERTS

20 JANUARY 2026, VOLUME 13, ISSUE 1, PP. 1-179

17 ARTICLES

Actions

Sort: Topic Page Number

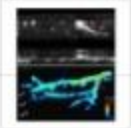
Reviews

- ☐
- 

Photonic integrated circuit optical parametric oscillators
Xiyuan Lu, Robert M. Gray, Jordan Stone, Selina Zhou, Nicolas Englebert, Alireza Marandi, and Kartik Srinivasan
Optica 13(1), 11-30 (2026) View: [HTML](#) | [PDF](#) | [Compressed PDF](#) [Suppl. Mat. (1)]
- ☐
- 

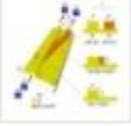
Optical atomic clocks: defining the future of time and frequency metrology
Tara M. Fortier, Andre N. Luiten, and Helen S. Margolis
Optica 13(1), 143-163 (2026) View: [HTML](#) | [PDF](#)

Research Articles

- ☐
- 

Single-scan adaptive optics-enabled quantitative optical coherence tomography angiography for absolute three-dimensional retinal blood flow mapping
Achyut J. Raghavendra, Osamah J. Saeedi, Daniel X. Hammer, and Zhuolin Liu
Optica 13(1), 125-134 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (2)]
- ☐
- 

Fidelity-preserving enhancement of ptychography with foundational text-to-image models
Ming Du, Volker Rose, Junjing Deng, Dileep Singh, Si Chen, and Mathew Cherukara
Optica 13(1), 45-56 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

High-fidelity ptychographic imaging of non-repeatable plasma dynamics
Cameron C. Clarke, Calvin Bavor, Bojana Ivanic, Claudia A. M. Schrama, Charles Durfee, Sarah Hinnegan, Giulia F. Mancini, Daniel E. Adams, and Jonathan Barolak
Optica 13(1), 74-82 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

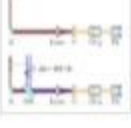
Thin-film lithium-niobate waveguide devices based on proton-exchange-induced anisotropy
Wei Jin and Kin Seng Chiang
Optica 13(1), 57-66 (2026) View: [HTML](#) | [PDF](#)
- ☐
- 

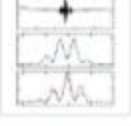
Versatile wavelength-selective PZT photonic chips
Chenlei Li, Tao Shu, Yueyang Zhang, Cunyu Shi, Wei Chen, Jianghao He, Fei Huang, Lijia Song, Zejie Yu, Ming Zhang, Yaocheng Shi, and Daoxin Dai
Optica 13(1), 83-92 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

On-chip input-hidden-layer-degenerate optical diffractive nonlinear neural network
Wenguang Xu, Bo Wu, Shiji Zhang, Hailong Zhou, Yilun Wang, Jianji Dong, and Xinliang Zhang
Optica 13(1), 172-179 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

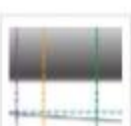
Observation of σ - π coupling and mode selection in optically trapped artificial polariton molecules
Krzysztof Sawicki, Valtýr Kári Danielsson, Dmitriy Dovzhenko, Pavlos G. Lagoudakis, Simone De Liberato, and Helgi Sigurdsson
Optica 13(1), 93-100 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

Generation and modulation of fully circularly polarized ultrabroadband THz radiation using two-color gas plasma techniques
Anna Martinez, Luc Bergé, Jonathan Houard, Angela Vella, and Domenico Paparo
Optica 13(1), 31-44 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

Real-time all-optical overlapping time-lens array through nonlinear interference
Manuel P. Fernández, Benjamin Crockett, Connor Rowe, Laureano A. Bulus-Rossini, Pablo A. Costanzo-Caso, and Jose Azaña
Optica 13(1), 109-118 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

Control and scaling of nonlinear emission for super-resolution microscopy
Kevin Murzyn, Tanya W. P. van Horen, and Peter M. Kraus
Optica 13(1), 164-171 (2026) View: [HTML](#) | [PDF](#)
- ☐
- 

Interferometric modal splitting enables broadband, dual-polarization on-chip spectroscopy
Karl Johnson, Vladimir Fedorov, Dmitrii Belogolovskii, Andrew Grieco, Noah A. Rubin, and Yeshaiahu Fainman
Optica 13(1), 1-10 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

100 GHz bandwidth ultra-thin germanium photodetectors with high responsivity on a 300 mm silicon photonics process
Xu Wang, Xiao Hu, Jinwen Song, Weihua Wang, Li Xu, Fengxin Yu, Chengkun Yang, Ting Xia, Xin Wang, Ruoyu Shen, Fenghe Yang, Haibin Zhao, Wei Chu, and Haiwen Cai
Optica 13(1), 67-73 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

Laser-stabilized ionizing transitions
Erika Cortese and Simone De Liberato
Optica 13(1), 101-108 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

Quantum correlation imaging via X-ray parametric down-conversion
Justin C. Goodrich, Ryan Mahon, Joseph Hanrahan, Dennis Bollweg, Monika Dziubelski, Raphael A. Abrahao, Sanjit Karmakar, Kazimierz J. Gofron, Thomas A. Caswell, Daniel Allan, Lonny Berman, Andrei Nomerotski, Andrei Fluerasu, Cinzia DaVià, and Sean McSweeney
Optica 13(1), 135-142 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1)]
- ☐
- 

PCA-based polynomial transmission filter design for spectral imaging
Oliver J. Burton, Tim Wilkinson, and Hannah J. Joyce
Optica 13(1), 119-124 (2026) View: [HTML](#) | [PDF](#) [Suppl. Mat. (1) | Public Reviewer Comments]

Previous Issue

Top

Publishing Home
Journals
Conferences
Preprints (Optica Open) [↗](#)
INFORMATION FOR
Authors
Reviewers
Librarians

OPEN ACCESS INFORMATION
Open Access Statement and Policy
Terms for Journal Article Reuse
OTHER RESOURCES
Optica Open [↗](#)
Optica Publishing Group Bookshelf
Optics ImageBank
Optics & Photonics News [↗](#)
Spotlight on Optics
Optica Home

ACCESSIBILITY INFORMATION
OPG Accessibility Statement
ABOUT
About Optica Publishing Group
About My Account
Sign up for Alerts
Contact Us
Send Us Feedback

My Favorites

Recent Pages

