

OPTICA (美国光学学会) 数据库使用指南

2024

内容讲解

1. OPTICA 光学期刊资源
2. OPTICA 会议录和电子图书
3. OPTICA 高效检索和热点追踪
4. OPTICA 作者投稿流程

美国光学学会 OPTICA (2021年由OSA更名)

- 美国光学学会 (OPTICA, 曾用名OSA) 成立于1916年, 是世界上最早出版物理学期刊的出版社之一, 目前已有24,000多名会员, 遍及183个国家, 包括光学和光子学领域的科学家、工程师、教育家、技术人员及商业领袖。
- 涉及光学和光子学, 物理学、生物学、医学、电气工程、通讯、天文学、气象学、材料科学、机械工程和计算领域。
- **OPTICA数据库网址: opg.optica.org**



OPTICA
PUBLISHING GROUP

据估计, 在过去五年中, 全球与光学和光子学相关的年收入增长了约24%, 目前已达5000亿美元。光学和光子学的影响力在不断的扩大, 在解决一些世界最棘手的问题方面也逐渐占据主导作用。

Optical
Communication
光通信

Equipment
光学设备

Imaging
光学成像

Optical Fiber
Communication
光纤通信

Analytical
techniques
分析方法

OPTICA 数据库涵盖主题

Optical Fibers
光纤

Semiconductor
Lasers
半导体激光

Light
Transmission
光传输

Optical systems
光学系统

Metrology
计量学

Bandwidth
带宽

Quantum
Electronics
量子电子学

OPTICA 光学期刊 27 种 (截止2023年)

17 种专业期刊和 10 种OA期刊, 超过 40 万篇文章

其中 17 种期刊被 SCIE 收录, 6 种期刊位于 JCR 一区

光学文献量的 32%, 被引用总量的 36%

OPTICA 会议录

主题会议录 Topical Meeting Conference 回溯至1981年

三大行业会议录系列 Major Meeting Series 回溯至1975年

光学前沿 FiO (Frontiers in Optics)

激光和光电会议 CLEO (Conference on Laser and Electro-Optics)

光纤通信会议 OFC (Optical Fiber Communication)

OPTICA 电子图书 14 本

LASERS (激光)

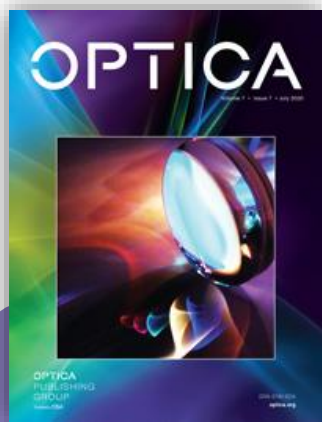
OSA Century of Optics (OSA 百年光学)

OPN Centennial Booklets (光学&光子学新闻一百周年纪念册) 等经典图书

OPTICA 光学影像图库

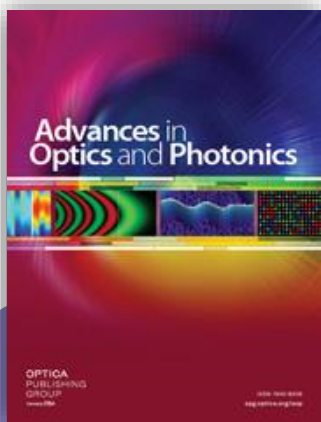
Optics ImageBank 包含从1917年至今的期刊插图, 超过120万幅, 可检索

OPTICA出版社的重要期刊



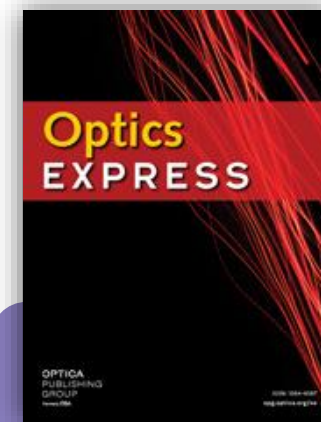
Optica
光学领域权威期刊
影响因子 IF = 10.4

期刊发表光学领域的高影响力的同行评审研究文章，是具有高度选择性的光学期刊



Advances in Optics and Photonics
影响因子 IF = 27.1

期刊发表光学和光子学领域的研究综述，影响因子在光学收录的100种期刊中排名第二



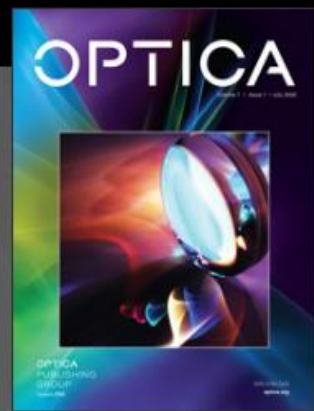
Optics Express
高被引量
影响因子 IF = 3.8

出版光学和光子学各方面的科学技术创新，是光学学科被引用量排名第一

Optica 期刊发表光学和光子学领域的高影响力的同行评审研究

出版卷期

最新研究热点



JOURNALS CONFERENCES PREPRINTS OTHER RESOURCES MY FAVORITES RECENT PAGES

Optica
Prem Kumar, Editor-in-Chief
Editorial Board >

Search this Journal

Keyword / Author
Volume Issue Page

期刊内的检索

SUBMIT A PAPER

期刊投稿

NEWEST ARTICLES

VIEW ALL

Quasi-steady-state air waveguide

High-performance, intelligent, on-chip speckle spectrometer...

Continuous wave multi-pass imaging flow cytometry

Ultrahigh-density 3D holographic projection by...

Imaging across multiple spatial scales with the...

Frequency stability of cryogenic silicon cavities with...

ABOUT THIS JOURNAL

2021 Impact Factor: 10.644
Google Scholar h5-index: 100
Time to Publication: 130 days

文献计量学指标

Impact Factor
10.644

H5-index
100

出版时间
130 天

JOURNAL NEWS

[VIEW ALL](#)

06 APR [Optica Research - Advance in technology paves the way to realistic 3D holograms for virtual reality and more](#)

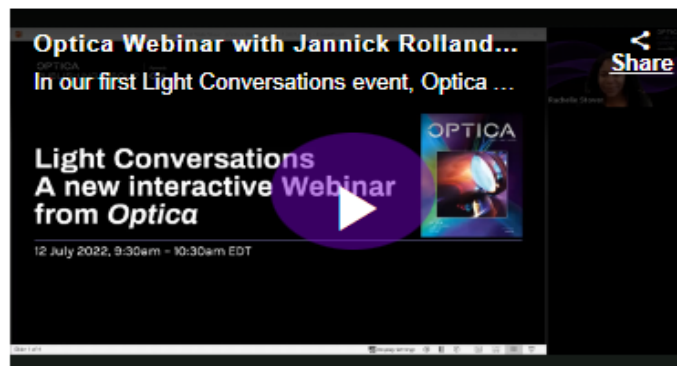
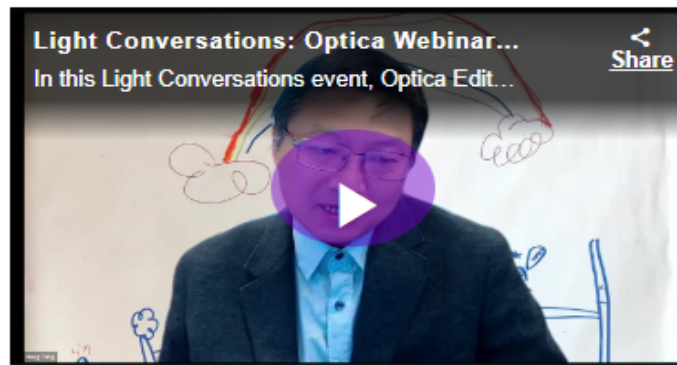
06 MAR 2023 [Optica Research - In the world's smallest ball game, scientists throw and catch single atoms using light](#)

06 FEB 2023 [Optica Research - Compact, non-mechanical 3D lidar system could make autonomous driving safer](#)

TODAY'S TOP DOWNLOADS

- 1 [Ultrahigh-density 3D holographic projection by scattering-assisted dynamic holography](#)
- 2 [Short pulses from a gain-switched quantum cascade laser](#)
- 3 [High-performance, intelligent, on-chip speckle spectrometer using 2D silicon photonic disordered scattering lattice](#)
- 4 [Demonstration of universal time-reversal for qubit processes](#)
- 5 [Seeded stimulated X-ray emission at 5.9 keV](#)

LIGHT CONVERSATIONS WEBINARS



Find Information For:

- Authors
- Reviewers
- Librarians

Topic Scope: A new open-access journal that focuses on the rapid dissemination of high-impact results in all areas of optics and photonics. Optica is a dedicated venue for authors to publish high-profile research in both fundamental and applied optics and photonics.

期刊新闻

下载排名

OPTICA 出版社举办的网络研讨会

[↑ Top](#)

• 提交说明

- 求职信和编辑评论
- 同行评审过程

[转移要求](#)

- 关键期刊指标
- 编辑委员会
- 职员
- 禁运政策

稿件提交说明

Optica Publishing Group 在其期刊组合中发表高质量的同行评审文章，服务于光学和光子学界的各个领域。

Optica是一份[开放获取](#)的在线期刊，致力于在整个光学和光子学领域快速传播具有高影响力的同行评审研究。Optica由 Optica Publishing Group 每月出版，为国际社会迅速访问的开创性研究提供了一个论坛，无论该研究是理论的还是实验的，是基础的还是应用的。

该杂志寻求对光学和更广泛的科学界有重大意义的文章。因此，论文接受的过程本质上是高度选择性的。

Optica的验收标准包括：

1. 意义、潜在影响、独创性、
2. 技术素质高，诚信科学严谨，
3. 可读性，对更广泛的光学和科学界的兴趣。

Optica出版原始研究信函（4页）、研究文章（6-8页）和小型评论（8-12页）。该杂志最近推出了备忘录（2页）；特别令人兴奋的突破和创新的简短公告。评论和回复也将发布。Optica将拒绝没有令人信服地为光学和光子学界带来广泛兴趣的新的和重要的结果的增量工作。

提交信息 ↑

是否适合Optica吗？[在这里阅读我们所有的期刊。](#)

邀请小型评论，但如果作者希望提交此类论文，可以联系主编 (optica@optica.org) 以建议一个潜在的主题。

有关准备和提交手稿的说明，请参阅[作者资源中心](#)。

提交

稿件收录标准

关于本刊

2021 年影响因子: 10.644

谷歌学术 h5 索引: 100

出版时间: 130天

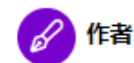
这是一本[开放获取](#)期刊

刊号: 2334-2536

频率: 一次快速发表文章; 月刊

[阅读有关该期刊的更多](#)

信息 查找信息:



作者



审稿人



图书管理员

主题范围: 一本新的开放获取专注于快速传播光学和光子学领域的高影响力成果。Optica是表基础和应用光学与光子学领域高调研究的专门场所。

关于 OPTICA 期刊

开放获取的光学
权威期刊

AOP 期刊发表光学和光子学领域的研究综述

JOURNALS CONFERENCES PREPRINTS OTHER RESOURCES MY FAVORITES RECENT PAGES

Advances in Optics and Photonics

Guifang Li, Editor-in-Chief
Editorial Board >

Search this Journal

Keyword / Author

Volume Issue Page

SUBMIT A PAPER
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ALL ISSUES SHOWING 15 VOLUMES

Vol. 15 (2023) ^

In progress: Issue 2, 30 June 2023, pp. 318-384
Issue 1, 31 March 2023, pp. 1-317

(2022) v

Vol. 13 (2021) v

Vol. 12 (2020) v

Vol. 11 (2019) v

TODAY'S TOP DOWNLOADS

- 1 Structured-light 3D surface imaging: a tutorial
- 2 Loss in hollow-core optical fibers: mechanisms, scaling rules, and limits
- 3 Light-sheet microscopy: a tutorial
- 4 Advances in Raman spectroscopy and imaging for biomedical research
- 5 Cylindrical vector beams: from

出版卷期

JOURNALS CONFERENCES PREPRINTS OTHER RESOURCES MY FAVORITES RECENT PAGES

JOURNAL HOME
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TUTORIALS
ISSUES IN PROGRESS
CURRENT ISSUE
ALL ISSUES



Advances in Optics and Photonics

Guifang Li, Editor-in-Chief
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ISSUES IN PROGRESS 1 ISSUE

Vol. 15, Iss. 2 -- June 30, 2023 • pp: 318-384

Sort: Issue Date Published Date

Vol. 15, Iss. 2 -- June 30, 2023 | Reviews

- Spectroscopy
-  Advances in Raman spectroscopy and imaging for biomedical research
Soumik Siddhanta, Andrey N. Kuzmin, Artem Pliss, Alexander S. Baev, Sunil K. Khare, Pramit K. Chowdhury, Ashok K. Ganguli, and Paras N. Prasad
Adv. Opt. Photon. 15(2), 318-384 (2023) View: [HTML](#) | [PDF](#)

研究综述
Vol.15, Iss.2
Spectroscopy



Chinese Optics Letters 由中国激光出版社(CLP) 出版, 在中国以外地区由 OPTICA 出版社发行

CHINESE OPTICS LETTERS

Zhizhan Xu, Editor
Years of publication:
2003 - Present
Impact Factor: 2.560

ISSN: 1671-7694
CODEN: COLHBT
h5 Index: 26

[Current Issue](#) | [All Issues](#)

Frequency: Monthly issues

Topic Scope: COL is one of the leading journals for optics in China. Published in English, it promotes the generation, application, and archiving of knowledge in optics and disseminates research worldwide. Its subject coverage includes fiber optics and optical communications, lasers and laser optics, nonlinear optics, image processing, instrumentation, measurement and metrology, integrated optics, materials, quantum optics, ultrafast optics, etc. COL is published by Chinese Laser Press and is available from CLP and Optica Publishing Group



Photonics Research 由OPTICA与中国激光出版社(CLP) 联合出版

PHOTONICS RESEARCH

Lan Yang, Editor
Years of publication:
2013 - Present
Impact Factor: 7.254

eISSN: 2327-9125
h5 Index: 57

[Current Issue](#) | [All Issues](#)

Frequency: Article-at-a-time publication; monthly issues

Topic Scope: The journal publishes fundamental and applied research progress in optics and photonics. Topics include, but are not limited to, lasers, LEDs and other light sources; fiber optics and optical communications; imaging, detectors and sensors; novel materials and engineered structures; optical data storage and displays; plasmonics; quantum optics; diffractive optics and guided optics; medical optics and biophotonics; ultraviolet and x-rays; terahertz technology. Photonics Research is a joint publishing effort of the Optica Publishing Group and Chinese Laser Press.

根据2023年度期刊引用报告JCR数据:

在SCI收录的100种光学领域核心期刊中, 6种Optica期刊的影响因子属于JCR Q1分区

OPTICS EXPRESS 的被引用量排名第一

Optica期刊的发文量占光学领域文献总量的32%, 被引用量占36%

期刊名称 (缩写)	Total Citations	2022 JIF	JIF Quartile	2022 JCI
ADV OPT PHOTONICS	3,995	27.1	Q1	3.46
OPTICA	17,580	10.4	Q1	3.05
J OPT COMMUN NETW	3,575	5.0	Q1	1.25
OPT EXPRESS	141,373	3.8	Q2	1.19
BIOMED OPT EXPRESS	14,699	3.4	Q2	0.98
OPT LETT	76,873	3.6	Q2	1.16
OPT MATER EXPRESS	9,428	2.8	Q2	0.76
J OPT SOC AM A	14,447	1.9	Q3	0.65
J OPT SOC AM B	14,764	1.9	Q3	0.64
APPL OPTICS	53,706	1.9	Q3	0.59
J LIGHTWAVE TECHNOL	34,051	4.7	Q1	1.27
PHOTON RES	9,609	7.6	Q1	2.14
CHIN OPT LETT	3,914	3.5	Q2	0.87

Conference Papers and Videos
主题会议录
行业会议录系列

最新的会议录
视频高亮

The screenshot shows the OPTICA website interface. At the top left is the logo 'OPTICA PUBLISHING GROUP Formerly OSA'. On the top right, there are links for 'LOGIN OR CREATE ACCOUNT' and 'PRISM SUBMISSION', a search bar for 'Search All Publications', and an 'Options' dropdown. Below the header is a navigation menu with 'JOURNALS', 'CONFERENCES', 'PREPRINTS', 'OTHER RESOURCES', 'MY FAVORITES', and 'RECENT PAGES'. The main content area features a 'CONFERENCE PAPERS AND VIDEOS FROM' section with a large image of a conference. A central overlay menu provides options to 'FIND CONFERENCES' (By Year, By Name), 'FEATURED' (Optical Fiber Communication (OFC), Conference on Lasers and Electro-Optics (CLEO), Frontiers in Optics (FIO)), and 'NEWLY PUBLISHED' (Advanced Solid State Lasers, Applications of Lasers for Sensing and Free Space Communications, Laser Applications Conference, Frontiers in Optics, Laser Science). Below this is a 'RECENT VIDEO HIGHLIGHTS' section with a row of video thumbnails and their titles: Tu6B.3 - Efficient Plasmonic Nanostructuring with Laser Annealing by Utilizing an Industrial Pulsed Fiber Laser Source; JW6A.1 - Distributed Bandpass Filtering in a 40- μm core LMA fiber; JW3B.10 - Hardness and Young's Modulus Measurements of the Nonlinear Optical Crystals BaGa₂GeS₆ and BaGa₂GeSe₆; JTu6A.18 - Out-of-plane beam displacements of radio waves due to ionosphere; JW6A.4 - Time-Frequency analysis of laser-produced underwater acoustic signals interaction across the water-air...; and JTu Rin Trit [02].

FIND CONFERENCE

By Year

By Conference

Learn About: [Paper PDFs](#) [Poster PDFs](#) [Video Presentations](#)

2022

2021

2020

2019

2018

2017

2016

2015

2014

2013

2012

2011

2010

2009

2008

2007

200

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2022 Conference

Acronym ↕

Location

Dates

Image Acquisition and Display: Technology, Perception and Applications

3D

Vancouver, British Columbia, Canada

11-15 July

Videos

Advanced Industrial Optics: Spectroscopy, Imaging and Metrology

AIO

Dublin, Ireland

25-27 July

Advanced Industrial Spectroscopy

AIS

Vancouver, British Columbia, Canada

11-15 July

Videos

Advanced Optics and Applications

AO

Vancouver, British Columbia, Canada

11-15 July

Videos

Advanced Solid State Lasers

ASSL

Barcelona, Spain

11-15 December

106 Videos

Bragg Gratings, Photosensitivity and Poling in Glass Waveguides and Materials

BGPP

Maastricht, Limburg, Netherlands

24-28 July

83 Videos

Optics and the Brain

BRAIN

Fort Lauderdale, Florida, United States

24-27 April

88 Videos

Conference on Lasers and Electro-Optics/Pacific Rim

CLEO/PR

Sapporo, Japan

31 August-5 September

CLEO: Applications and Technology

CLEO:A&T

San Jose, California, United States

15-20 May

446 Videos

Find Conference
By Year
By Conference
主题会议录
行业会议录系列

Optica Publishing Group > Bookshelf

Optica Publishing Group Bookshelf

Archival eBooks to be hosted here in early 2022. [Download](#) the title list of archival eBooks.

电子图书目录
共 14 本

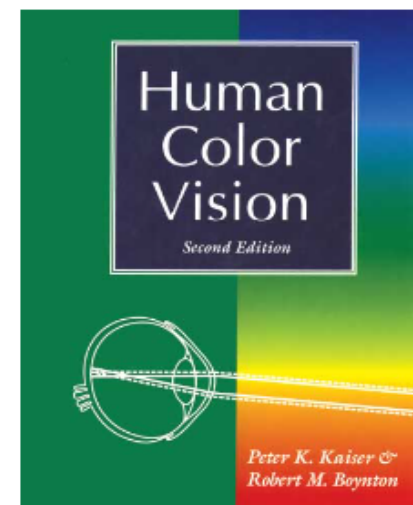
- [Human Color Vision](#)
- [Introduction to Surface Roughness and Scattering](#)
- [Lasers](#)
- [Legal Lens Anthology](#)
- [OPN centennial booklets](#)
- [Optical Engineers Desk Reference](#)
- [Optics and Optical Instruments—Optical Coatings](#)
- [Optics and Optical Instruments—Preparation of drawing for optical systems](#)
- [Optics Cooke Book](#)
- [Optics Demonstration with the Overhead Projector](#)
- [Optics Spectroscopy Undergrad Lab Resource Book](#)
- [OSA Century of Optics](#)
- [The Science of Color](#)
- [Tutorials in Optics](#)

Human Color Vision

By Peter K. Kaiser and Robert M. Boynton

Through the application of scientific method for about four hundred years, substantial progress has been made toward an understanding of how human beings are able to appreciate and gauge the colors of things. Before that, such understanding had been wholly lacking. The principal aim of this book is to put forth some of our current concepts about the nature of such color perception. With the general reader as well as the formal student in mind, I have tried to build each chapter from fundamentals without assuming any special back-ground beyond that furnished by some lower-division study of general science and mathematics. *Copyright 1996*

[More Details](#)



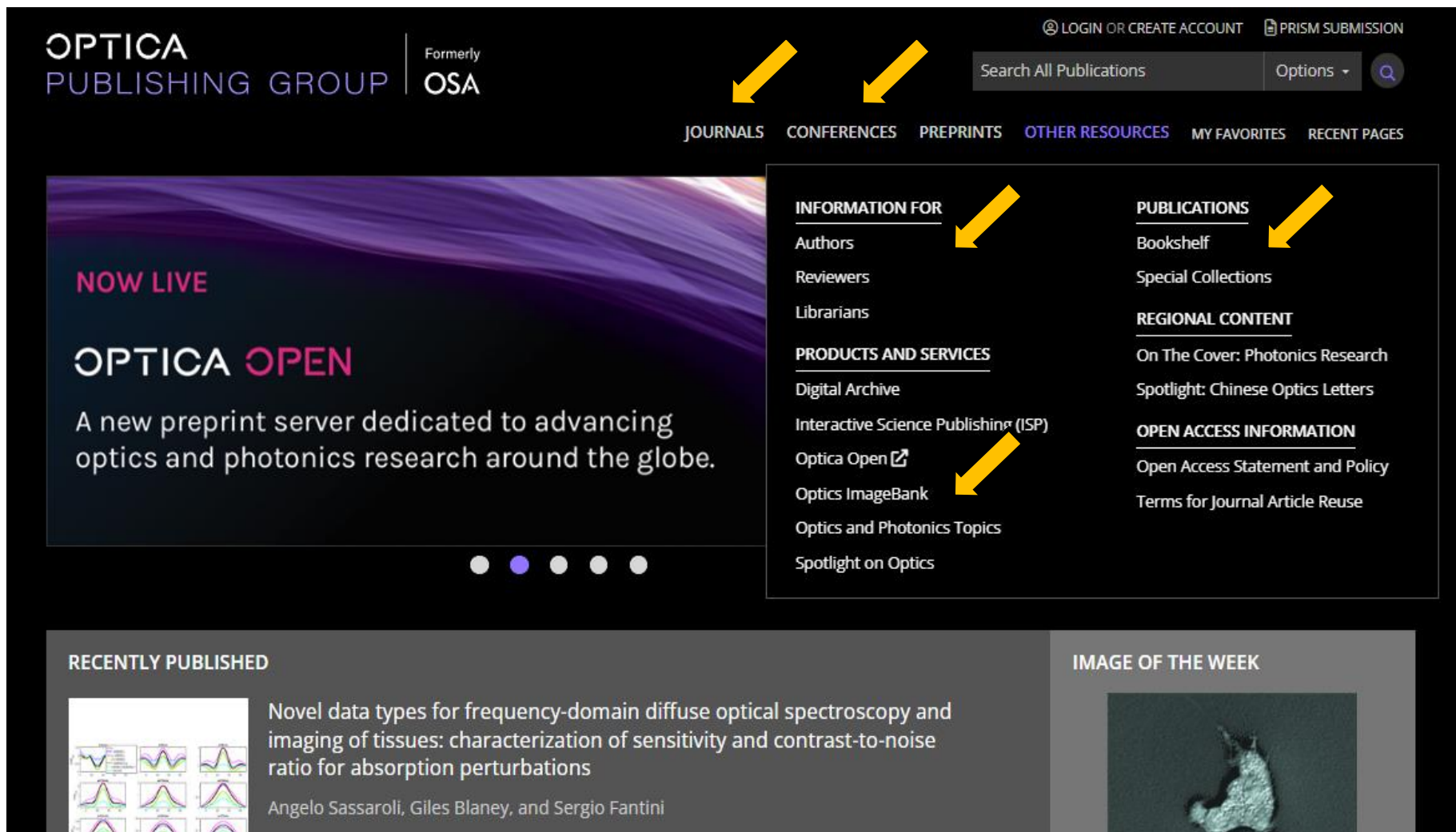
OPTICS
IMAGEBANK
光学影像图库

The screenshot displays the OPTICA Publishing Group website. At the top, the logo 'OPTICA Formerly OSA' is visible on the left, and 'LOGIN OR CREATE ACCOUNT' and 'Search All Publications' are on the right. A navigation menu includes 'JOURNALS', 'CONFERENCES', 'PREPRINTS', 'OTHER RESOURCES', and 'MY FAVORITES'. The main content area is titled 'OPTICS IMAGEBANK' and contains the text: 'The Optics ImageBank is regularly updated and has more than 1 million images that you can easily search and browse using our updated search engine feature. Access the Optics ImageBank today!'. Below this text is a row of five scientific images: a color-coded square pattern, a purple and orange star-like pattern, a blue and white biological cell structure with a '440nm' label and a '10 μm' scale bar, a colorful circular interference pattern, and a purple and blue starburst pattern.

图库检索

(3) OPTICA 高效检索和热点追踪

OPTICA 数据库网址 opg.optica.org



The screenshot shows the OPTICA Publishing Group website homepage. At the top left, the logo reads "OPTICA PUBLISHING GROUP Formerly OSA". On the top right, there are links for "LOGIN OR CREATE ACCOUNT" and "PRISM SUBMISSION", along with a search bar labeled "Search All Publications" and an "Options" dropdown. A navigation menu below the search bar includes "JOURNALS", "CONFERENCES", "PREPRINTS", "OTHER RESOURCES", "MY FAVORITES", and "RECENT PAGES".

The main content area features a large banner for "NOW LIVE OPTICA OPEN" with the text: "A new preprint server dedicated to advancing optics and photonics research around the globe." Below this banner are five circular indicators, with the second one highlighted in purple.

A central menu is highlighted with a white background and contains the following sections:

- INFORMATION FOR**
 - Authors
 - Reviewers
 - Librarians
- PRODUCTS AND SERVICES**
 - Digital Archive
 - Interactive Science Publishing (ISP)
 - Optica Open
 - Optics ImageBank
 - Optics and Photonics Topics
 - Spotlight on Optics
- PUBLICATIONS**
 - Bookshelf
 - Special Collections
- REGIONAL CONTENT**
 - On The Cover: Photonics Research
 - Spotlight: Chinese Optics Letters
- OPEN ACCESS INFORMATION**
 - Open Access Statement and Policy
 - Terms for Journal Article Reuse

At the bottom of the page, there are two sections: "RECENTLY PUBLISHED" and "IMAGE OF THE WEEK".

RECENTLY PUBLISHED: A thumbnail image shows several plots. The text reads: "Novel data types for frequency-domain diffuse optical spectroscopy and imaging of tissues: characterization of sensitivity and contrast-to-noise ratio for absorption perturbations" by Angelo Sassaroli, Giles Blaney, and Sergio Fantini.

IMAGE OF THE WEEK: A thumbnail image shows a microscopic view of a biological structure.

(3) OPTICA 高效检索和热点追踪

OPTICA PUBLISHING GROUP | Formerly OSA

LOGIN OR CREATE ACCOUNT | PRISM SUBMISSION

Search All Publications | Options

JOURNALS | CONFERENCES | PREPRINTS | OTHER RESOURCES | MY FAVORITES | RECENT PAGES

Optica Publishing Group > Search Results

SEARCH RESULTS | 0 total results | Save Search | Filters:

Search Source: Articles Images

Search All Publications | Options

Actions | Sort by: Relevance | View: + - | Results per page: 10 | Page: < >

Retrieving results...

Actions | Sort by: Relevance | View: + - | Results per page: 10 | Page: < >

↑ Top

Search Results
- Articles 检索文章
- Images 检索图库

检索关键词:

EUV lithography 极紫外光刻 (Extreme Ultraviolet Lithography)

DUV lithography 深紫外光刻 (Deep Ultraviolet Lithography)

研究背景:

当前的 DUV 光刻技术, 可用于制造7nm-130nm制程的芯片。

随着先进制程向5nm及以下制程进化, EUV 是未来光刻技术和先进制程的核心。

应用领域:

半导体行业 DUV光刻技术 EUV光刻技术 先进光刻技术和先进制程

(3) OPTICA 高效检索和热点追踪

Optica Publishing Group > Search Results

SEARCH RESULTS

323 results (filtered) of 323 total results [Save Search](#)

Filters: EUV lithography

Search Source: Articles Images

Search: EUV lithography

Filter the Results List

Actions Sort by: Relevance View: Results per page: 10 Page: 1 of 33

PUBLICATIONS

- All
- Journals (8)
- Conferences (37)
- Industry Reports (0)

Journals

Conferences

YEARS PUBLISHED

- All
- 2023 (3)
- 2022 (8)
- 2021 (12)

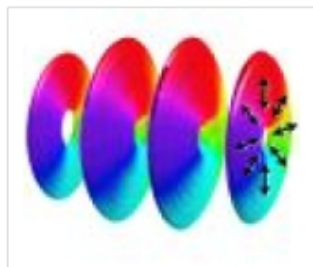
- Discussion of Mask Alignment Accuracy for EUV Lithography
Saito, Yasuyuki
1994 Extreme Ultraviolet Lithography, Paper# RMM.227 [View: PDF](#)
- R&D Activities of EUV Lithography at NewSUBARU, and Possibility of Beyond EUV
Watanabe, Takeo; Harada, Tetsuo; Yamakawa, Shinji
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Extreme ultraviolet vector beams driven by infrared lasers

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Abstract

Vector beams, beams with a non-uniform state of polarization, have become an indispensable tool in many areas of science and technology. Harnessing topological light properties paves the way to control and manipulate light-matter interactions at different levels, from the quantum to macroscopic physics. Here we generate tabletop extreme ultraviolet (EUV) vector beams driven by high-order harmonic generation (HHG). Our experimental and theoretical results demonstrate that HHG imprints the polarization state of the fundamental (infrared) beam, ranging from radial to azimuthal, into the higher frequency radiation. Our numerical simulations also demonstrate that the generated high-order harmonic beams can be synthesized into attosecond vector beams in the EUV/soft x-ray regime. Our proposal overcomes the state-of-the-art-limitations for the generation of vector beams far from the visible domain and could be applied in fields such as diffractive imaging, EUV lithography, or ultrafast control of magnetic properties.

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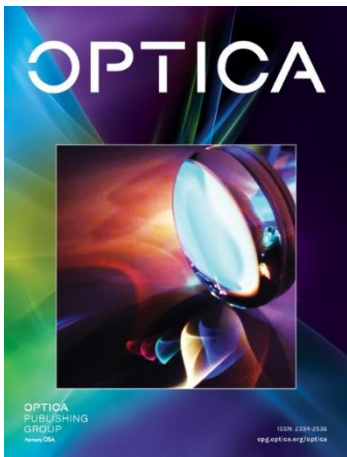
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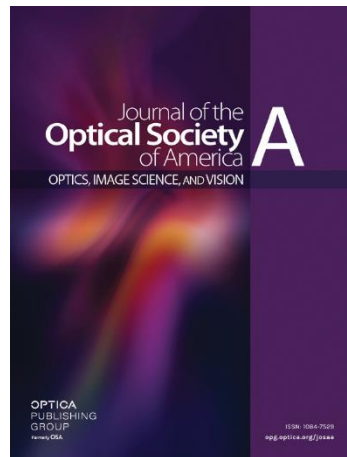
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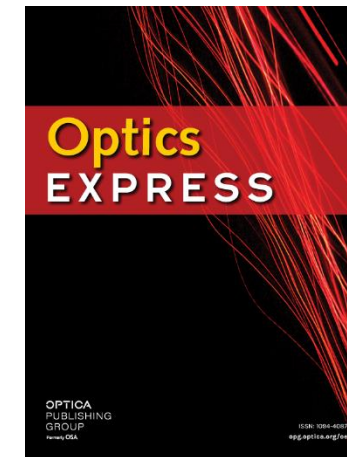
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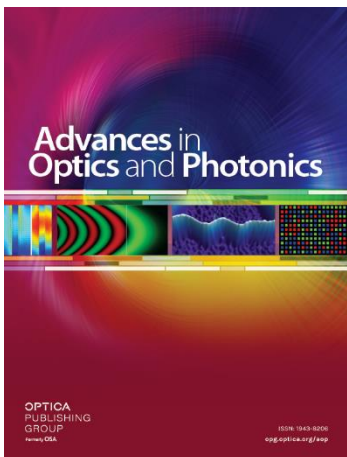
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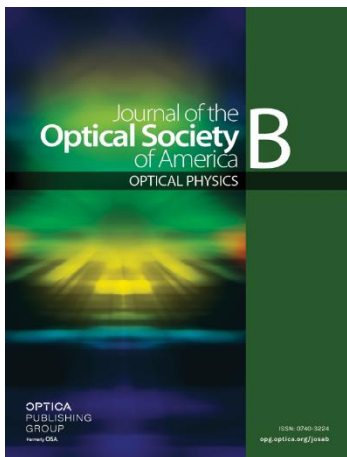
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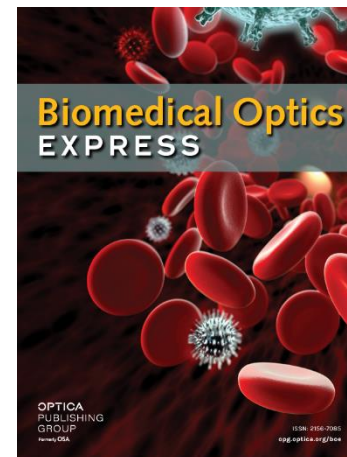
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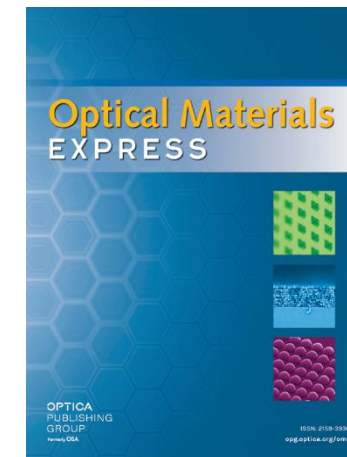
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