

OPTICA (OSA) 数据库使用指南

iGroup中国·长煦信息技术咨询（上海）有限公司

目录

数据库介绍

学会、数据库内容及品质

数据库使用

平台简介、功能演示

美国光学学会Optica：2021年更名！

- 美国光学学会（原名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23,000名会员，遍及177个国家，包括光学和光子学领域的科学家、工程师、教育家、技术人员及企业领导者。
- 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。
- 自2021年9月20日起，成立于105年前的美国光学学会有了一个新名字：Optica，这反映了该学会成立100多年来，在全球光学科学和技术领域内发生的巨大变化！

The logo for Optica Publishing Group features a stylized white 'V' shape above a black rectangular box. Inside the box, the word 'OPTICA' is written in white, and 'PUBLISHING GROUP' is written in purple below it.

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。

- OPTICA数据库收录了世界上最多的关于光学和光子学的同行评审文章，超过420,000篇。
- 虽然网站的外观有了改变，但所有的订阅和开放获取的出版物将一如既往，延续OSA在传播和编录归档高质量研究成果上的承诺。
- 只有一个例外：Optica的Gold OA期刊OSA Continuum将在2022年更名为Optics Continuum，并公布新的ISSN。



美国光学学会Optica: 2022新增内容

■ 视频库

2022 年预计收录视频文件数量约6000个。

RECENT VIDEO HIGHLIGHTS



					
W7E.3 - Demonstration of 100Gbit/s Real-Time Ultra High Definition Video Transmission Over Free Space Optical... [14:13] OFC	W7F.6 - 800Gb/s-FR4 specification and interoperability analysis [11:56] OFC	W7E.3 - Feasibility of Transmitting 270 Gbit/s with PAM-8 in O-band CWDM4 with IM/DD System [12:04] OFC	W7C.4 - Experimental demonstration of phase-sensitive OTDR with adaptive probe-pulse modulation [11:56] OFC	W7C.1 - Spatio-temporal Oversampling-Downsampling Technique for High SNR Fiber Distributed Acoustic Sensing [11:56] OFC	W7 Sha Hig Col [11:56] OFC

■ 电子图书

2022 年计划新增12 本光学及光子学领域的电子图书。

**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

Optical Fibers
光纤

**Semiconductor
Lasers**
半导体激光

**Light
Transmission**
光传输

Optica 数据库涵盖主题

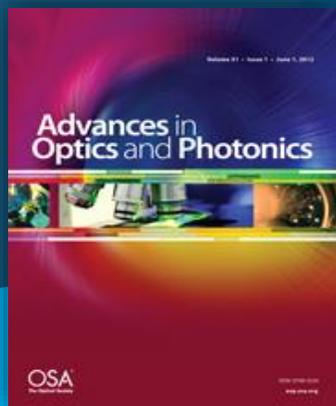
Optical systems
光学系统

Metrology
计量学

Bandwidth
带宽

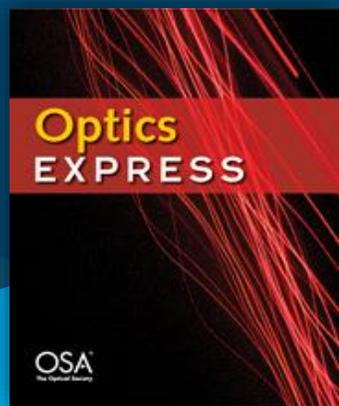
**Quantum
Electronics**
量子电子学

美国光学学会Optica：期刊



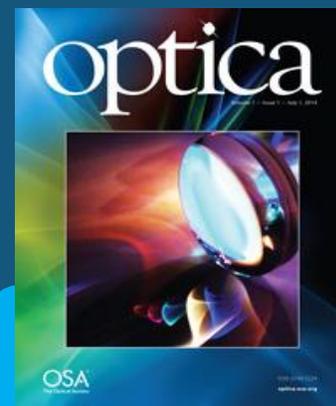
■ *Advances in Optics and Photonics* – 高影响因子

内容涉及光学和光子学的进展，其 IF 在光学收录的 99 种期刊中排名第 2



■ *Optics Express* – 高被引量

出版光学和光子学各方面的科学技术创新，是光学学科中引用量排名第 2



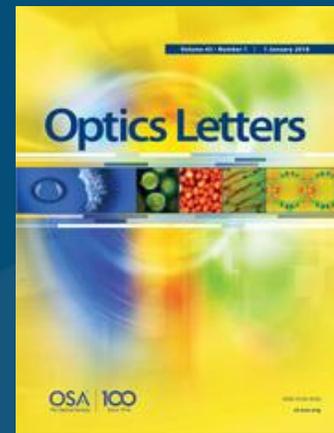
■ *Optica* - 光学领域权威期刊

致力于快速传播高品质的同行评审研究文章，为社会各界快速访问这些前沿研究提供了交流论坛，其影响因子在 SCI 收录的 90 多种光学类期刊中排名第 6



■ *Applied Optics*

发表深度的同行评议文章，内容涉及光学和光电应用中的设备、材料、系统和自然现象等的创新和实用。**适用于光学工程师。**



■ *Optics Letters*

快速发布各个领域最新的光学和光子学的研究，内容简短、原始。稿件的接收标准包括：对光学界有大的新闻价值和快速发表对其他研究有重要影响。

根据2020年度期刊引用报告 (JCR)数据,在SCI收录的90多种光学领域核心期刊中,有8种Optica期刊的影响因子属于Q1、有3种的被引量排名前5;而Optica期刊的发文量占光学领域总文献量的34%,被引量占39%。

Journal	期刊名称	IF	Rank by IF	Total Cites	Rank by JCI
AOP	光学和光子学研究进展	20.107	2	3,117	4
OPT	光学涉及	11.104	6	13,404	3
PR	光子学研究	7.080	11	5,328	6
JLT	光波技术期刊	4.142	17	26,555	14
BOEx	生物学光学快报	3.732	23	12,803	18
OL	光学快报	3.776	22	74,402	13
OpEx	光学快讯	3.894	20	129,224	14
JOCN	光通信和光网络期刊	3.984	19	3,407	9
OMEx	光学材料快报	3.442	29	8,443	29
JOSA B	美国光学会会刊 A	2.106	30	14,539	36
AO	应用光学	1.980	62	51,811	49
COL	中国光学快报	2.448	46	2,898	43
JOSA A	美国光学会刊 B	2.129	54	15,128	48
COPP	现代光学与光子学	0.66	91	176	94
JOT	光学技术期刊	0.422	97	752	105
JNIRS (光谱学)	近红外光谱学报	1.372	31	1,579	31
AS (光谱学)	应用光谱学	2.388	20	9,818	19

Q1期刊

美国光学学会Optica: 会议录



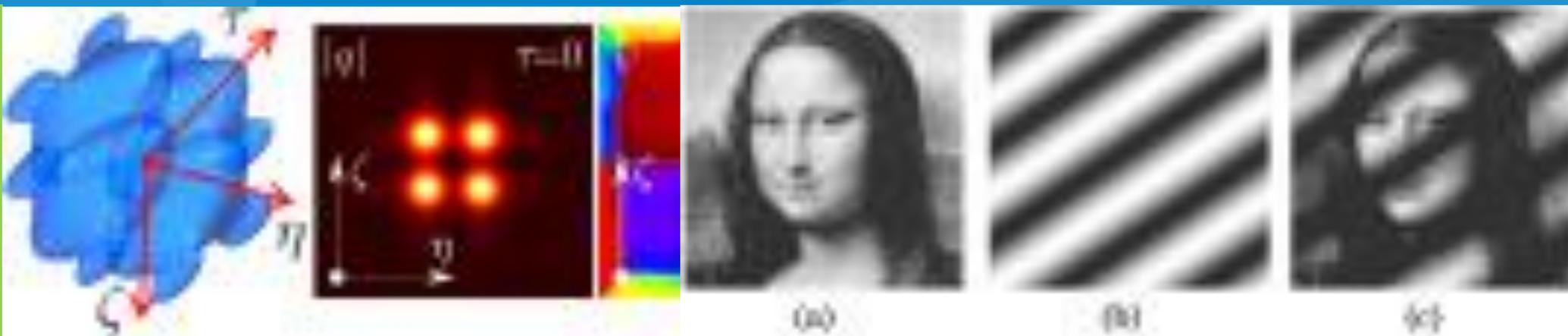
- *OSA Topical Meetings* 《主题会议录》
- *OSA Major Meetings Series* 《行业会议录系列》
- ← 反映了光学领域的最新进展和动态
- ← 收录了自1979年以来800多次会议产生的会议录、
工超过190,000 篇文章
- ← 汇集了光学和光子学领域的科学家、工程师、教育家、技术人员及商业领袖的文章

美国光学学会Optica: 其他产品

Optics Image Bank (光学影像图库)

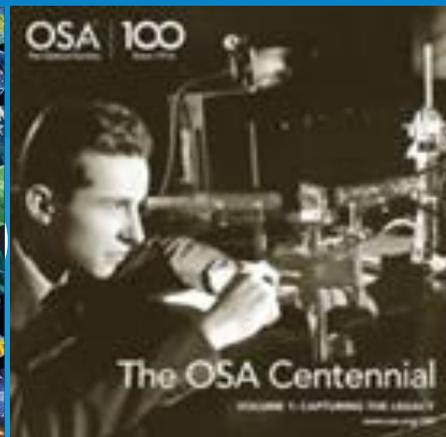
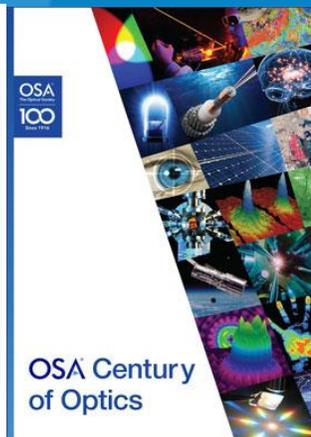


demo



美国光学学会Optica: 其他产品

Lasers, OSA Century of Optics, OPN Centennial eBooks



数据库使用

平台简介、功能演示

数据库使用：首页导航栏

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JOURNALS CONFERENCES OTHER RESOURCES MY FAVORITES RECENT PAGES

Optica Publishing Group > Bookshelf > Optics and Optical Instruments—Preparation of drawings for optical elements and systems: A User's Guide

Optics and Optical Instruments—Preparation of drawings for optical elements and systems: A User's Guide

Optica Standards Committee
eds. Ronald K. Kimmel and Robert E. Parks

We hope you appreciate this republication of *ISO 10110 Optics and Optical Instruments—Preparation of Drawings for Optical Elements and Systems: A User's Guide*, first published in 1995. This open-access republication gives you a feel for the ISO 10110 standard and an overview of its general scope and methodology. It is not intended to be used as a standard as it is hopelessly out of date. *Copyright 1995*

When you have convinced yourself of the usefulness of ISO 10110, go to www.iso.org or www.iso.org/iso/home/standards/standards_catalogue.htm for the ISO 10110 standard. Yes, we know it is pricey, but it is a cost of doing business in the optics industry. Ultimate

INFORMATION FOR

- Authors
- Reviewers
- Librarians

PRODUCTS AND SERVICES

- Digital Archive
- Interactive Science Publishing (ISP)
- Optics ImageBank
- Optics and Photonics Topics
- Spotlight on Optics

PUBLICATIONS

- Bookshelf
- Industry Reports
- 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

- 数据库导航栏的 Journals、Conference 以及 Other Resources 下面的 Optics ImageBank 和 Bookshelf 分别对应期刊、会议录（含讲演视频）、光学影像图库和电子书。

数据库使用：首页导航栏

OPTICA PUBLISHING GROUP | Formerly OSA

Optica Publishing Group > Special Collections

SPECIAL COLLECTIONS

Journal	Collection
Opt. Mater. Express	The Top Cited Articles in <i>Optical Materials Express</i>
Biomed. Opt. Express	The Top Cited Articles in <i>Biomedical Optics Express</i>
Optica Publishing Group	2021 Queen Elizabeth Engineering Prize Awardees
Optica Publishing Group	60 Years of Laser Innovation
Optica Publishing Group	International Women's Day 2019
Optica Publishing Group	2018 Nobel Prize Winners in Physics
Optica Publishing Group	2017 Nobel Prize Winners in Physics
Opt. Lett.	Celebrate 40 Years of <i>Optics Letters</i>
Opt. Express	Celebrate 20 Years of <i>Optics Express</i>
J. Lightwave Technol.	A Third of a Century

OPTICA PUBLISHING GROUP CONGRATULATES THE 2018 NOBEL PRIZE WINNERS

Arthur Ashkin



Gérard Mourou



Donna Strickland



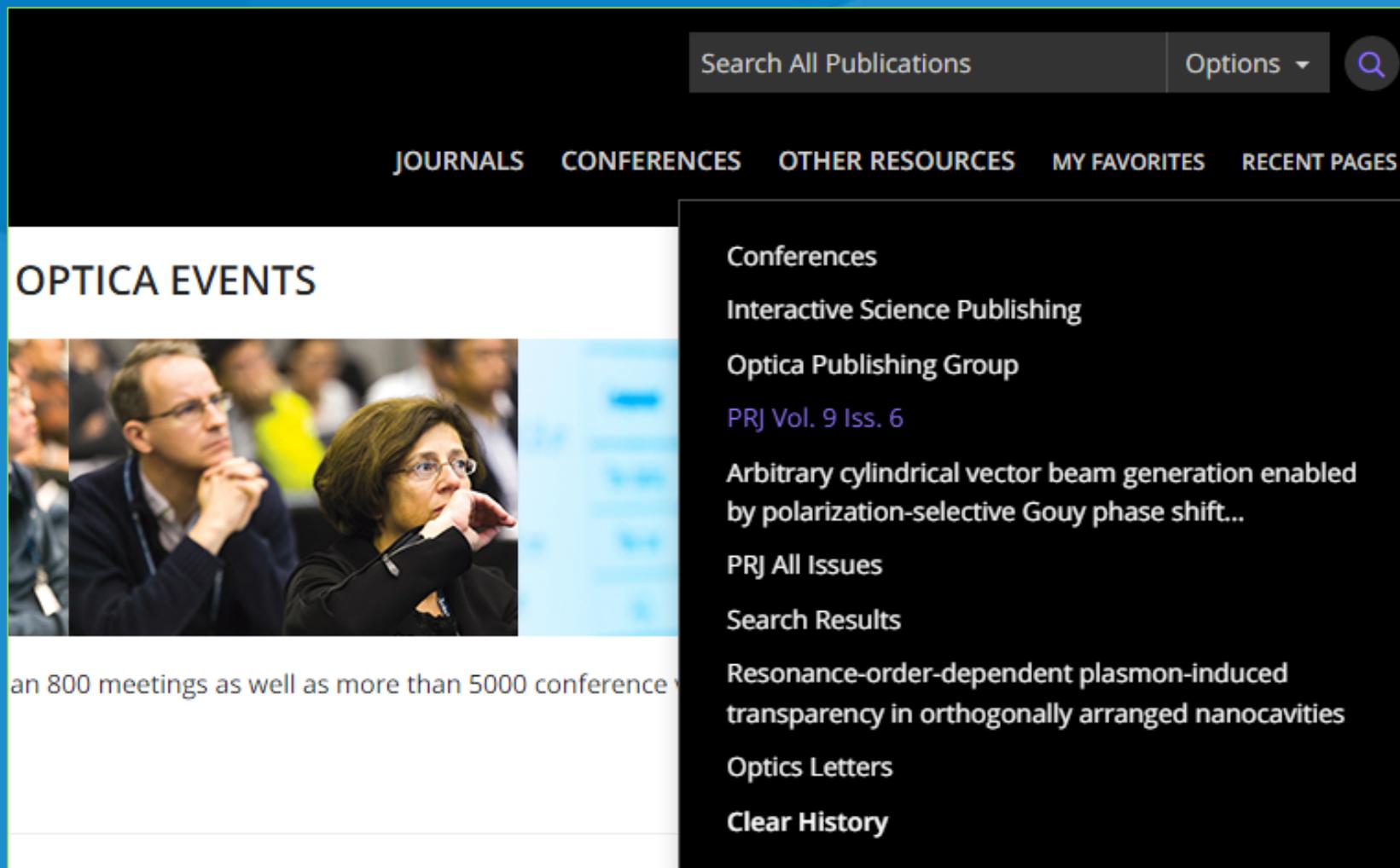
Optica Publishing Group congratulates [three optics pioneers](#) who share in the 2018 Nobel Prize in Physics for their "groundbreaking field of laser physics."

One half of the prize was awarded to Optica Honorary Member Arthur Ashkin of Bell Laboratories, USA, "for the optical tweezers and their application to biological systems," and the other half was shared by Optica Fellow Gérard Mourou of the École Polytechnique, France, and Optica OSA President Donna Strickland of the University of Waterloo, Canada, "for their method of generating high-intensity, ultra-short optical pulses."

- Other Resources 下面的 Special Collections 集合了部分期刊出版社整体建立的主题文集，包括获奖作者文章和高被引文章。

数据库使用：首页导航栏

- 导航栏最右的Recent Pages包含浏览器最近打开的数据库页面，如检索结果、全文页面、某一期期刊的目录。点击最下方Clear History可清除浏览历史。



The screenshot shows a website interface with a dark navigation bar. At the top right, there is a search bar labeled "Search All Publications" and an "Options" dropdown menu. Below the search bar, the navigation bar contains links for "JOURNALS", "CONFERENCES", "OTHER RESOURCES", "MY FAVORITES", and "RECENT PAGES". A dropdown menu is open under "RECENT PAGES", listing the following items: "Conferences", "Interactive Science Publishing", "Optica Publishing Group", "PRJ Vol. 9 Iss. 6", "Arbitrary cylindrical vector beam generation enabled by polarization-selective Gouy phase shift...", "PRJ All Issues", "Search Results", "Resonance-order-dependent plasmon-induced transparency in orthogonally arranged nanocavities", "Optics Letters", and "Clear History".

OPTICA EVENTS

an 800 meetings as well as more than 5000 conference

数据库使用：高级检索功能怎样检索会议录

- 在高级检索窗口选择Conference下拉菜单，选择需要参考的会议（可多选）；此后再设置关键词或发表年份，可提高检索效率。

SEARCH OPTIONS Close X

KEYWORDS Only if other resources available (images, video, datasets) Title and Abstract All text

AUTHORS Any: All:

SEARCH IN

Journals

Conferences 

Industry Reports

Vol.	Issue	Page
<input type="text" value="All"/>	<input type="text" value="All"/>	<input type="text" value="All"/>
Year	Paper #	
<input type="text" value="All"/>	<input type="text" value="All"/>	
Report Year		
<input type="text" value="All"/>		

PUBLICATION YEARS From To Enter only one date to search After ("From") or Before ("To")

Select proceedings as filters

Advanced Solid State Lasers - ASSL x
Advanced Solid-State Photonics - ASSP x

- Adaptive Optics: Methods, Analysis and Applications - AOPT
- Advances in Photorefractive Materials, Effects and Devices - APMED
- Asia-Pacific Optical Sensors Conference - APOS
- Advanced Spectroscopy and Applications - ASA
- Advanced Semiconductor Lasers and Their Applications - ASLA
- Advanced Solid State Lasers - ASSL
- Advanced Solid-State Photonics - ASSP
- Bragg Gratings, Photosensitivity, and Poling in Glass Waveguides - BGPP
- Bragg Gratings, Photosensitivity and Poling in Glass Waveguides and Materials - BGPPM
- Biomedical Topical Meeting - BIO

Select Proceedings

Cancel

数据库使用：会议录视频

Conferences > OFC > 2021 > W7C > W7C.1

Optical Fiber Communication Conference (OFC) 2021 OSA Technical Digest (Optical Society of America, 2021), paper W7C.1



Spatio-temporal Oversampling-Downsampling Technique for High SNR Fiber Distributed Acoustic Sensing

Hao Li, Cunzheng Fan, Tao Liu, Tao He, Junfeng Chen, Yixiang Sun, Zhijun Yan, Qizhen Sun

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PDF Article

Abstract

References (6)

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2. Technical meeting attendees
3. Optica members who wish to use one of their free downloads. Please download the article first. After downloading, please refresh this page.

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- 订购会议录的机构方可查看视频

数据库使用：检索结果排序

- 检索结果可按与检索词的相关度、发表时间以及文章被引量排序。展开文章标题右侧的加号查看摘要。

SEARCH RESULTS

432 results (filtered) of 632 total results [Save Search](#)

Filters: [Clear Facets](#)

ligo Options

ligo x 2022 x 2021 x 2020 x 2019 x
2018 x 2017 x 2016 x 2015 x 2014 x
2013 x 2012 x 2011 x 2010 x

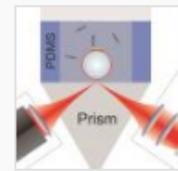
Filter the Results List Actions Sort by: Citation Count View: + - Results per page: 20 Page: 1 of 22

PUBLICATIONS

- All
- Journals (16)
- Conferences (34)
- Industry Reports (1)

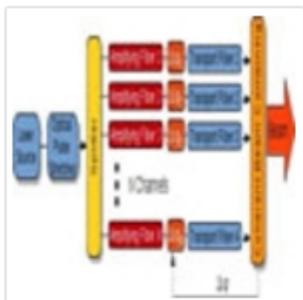
Journals

Conferences

- Whispering gallery mode sensors**
Foreman, Matthew R.; Swaim, Jon D.; Vollmer, Frank
2015 Advances in Optics and Photonics 7(2) 168-240 View: [HTML](#) | [PDF](#) [Cited by (528)]
 We present a comprehensive overview of sensor technology exploiting optical whispering gallery mode (WGM) resonances. After a short introduction we begin by detailing the fundamental principles and th...
...]. These values should be compared to the absolute position displacement sensitivities on the order of
- Squeezed light at 1550 nm with a quantum noise reduction of 12.3 dB**
Mehmet, Moritz; Ast, Stefan; Eberle, Tobias; Steinlechner, Sebastian; Vahlbruch, Henning; Schnabel, Roman

数据库使用：查看全文

Applied Optics Vol. 54, Issue 15, pp. 4640-4645 (2015) · <https://doi.org/10.1364/AO.54.004640>



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PDF Article

Abstract

Full Article

Figures (10)

Tables (1)

Equations (8)

References (15)

Cited By

Metrics

Design and properties of a coherent amplifying network laser

Rémi Soulard, Mark N. Quinn, and Gérard Mourou

Author Information

Find other works by these authors

Author Affiliations

Rémi Soulard,^{1,2} Mark N. Quinn,¹ and Gérard Mourou^{1,*}

¹IZEST, Ecole Polytechnique, 91128 Palaiseau, France

²IZEST, CEA-Saclay, DSM-IRAMIS-SPAM bât. 522 p. 148, 91191 Gif-Sur-Yvette, France

*Corresponding author: gerard.mourou@polytechnique.edu

The coherent amplifying network laser is based on an array of thousands of acousto-optic devices coherently combined to generate high peak-power pulses at a high repetition rate. In this paper, a massive network, new combination architectures are presented here. They are based on implementing a spherical array of amplifying fibers, thus removing the need for a lens from the initial scheme. These designs present an advantage in terms of scalability and a significant reduction of the temporal fluctuations compared to those of a conventional fiber power laser. Noise evolution with fiber number is calculated using a perturbative analysis of channel parameters (phase, signal intensity, beam profile).

© 2015 Optical Society of America

[Full Article](#) | [PDF Article](#)

$$n = \text{Tr} \left(\frac{NA_{\text{max}} d}{\dots} \right)$$

$$R = \frac{1}{N}$$

$$OS = \frac{1}{NA_{\text{max}}}$$

$$AS = \frac{L' / 2}{NA_{\text{fiber}}}$$

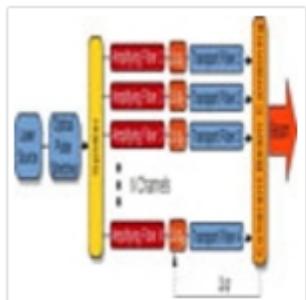
$$AS + OS = R.$$

$$\frac{1}{AS} + \frac{1}{OS} = \frac{1}{f'^2}$$

$$\frac{\delta \cdot OS}{\dots}$$

数据库使用：查看全文

Applied Optics Vol. 54, Issue 15, pp. 4640-4645 (2015) - <https://doi.org/10.1364/AO.54.004640>



Design and properties of a coherent amplifying network laser

Rémi Soulard, Mark N. Quinn, and Gérard Mourou

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[Figures \(10\)](#)

[Tables \(1\)](#)

[Equations \(8\)](#)

[References \(15\)](#)

[Cited By \(8\)](#)

[Metrics](#)

Equations (8)

Equations on this page are rendered with MathJax

Copy Citation Text

Rémi Soulard, Mark N. Quinn, and Gérard Mourou, "Design and properties of a coherent amplifying network laser," *Appl. Opt.* 54, 4640-4645 (2015)

Export Citation

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- Endnote (RIS)
- HTML
- Plain Text

More Like This

[Practical technique for improving all-fiber coherent combination of multistage high-power ytterbium...](#)

Shuoqin Wang, *et al.*
Appl. Opt. 54(11) 3150-3156 (2015)

[Coherent beam combining with an ultrafast multicore Yb-doped fiber amplifier](#)

Lourdes Patricia Ramirez, *et al.*
Opt. Express 23(5) 5406-5416 (2015)

[Investigation of phase effects of coherent beam combining for large-aperture ultrashort ultrahigh...](#)

Ze-xi Zhao, *et al.*
Appl. Opt. 54(33) 9939-9948 (2015)

Related Topics

- [Table of Contents Category Lasers and Laser Optics](#)
- [Optics & Photonics Topics](#)
 - Diode pumped lasers
 - Fiber lasers
 - High power lasers
 - Laser materials

数据库使用：交互式插图

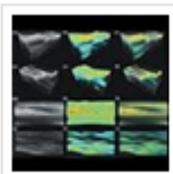
See the [ISP FAQs](#) for more information.

ISP Software

OSA ISP Software and the ISP MIDAS Database were developed by Optica in cooperation with [Kitware, Inc.](#),

- [Watch How to Read an OSA Article \(Flash | QuickTime\)](#)
- [Get the ISP Software](#)
- [Read ISP FAQs](#)

ISP General Submissions



March 23, 2011

Optics Express article by Kennedy et al.,

"[In vivo three-dimensional optical coherence elastography](#)".

ISP Special Issues



Issue 6. Digital Holography and 3D Imaging 2011

December 6, 2011: [Applied Optics ISP feature on Digital Holography](#) edited by Ting-Chung F
Toyohiko Yatagai (Utsunomiya University), Byoungcho Lee (Seoul National University), and H

- 越来越多的2D/3D交互式插图被用来阐释光学领域的研究数据。Optica期刊文章支持交互式插图软件。请至以下页面下载软件（免费）并查看视频教程。

<https://www.osapublishing.org/isp>

数据库使用：光学影像图库

- Imagebank小站 (imagebank.osa.org) 提供120多万张期刊插图。用户可以检索插图的说明文字并筛选来源期刊的名称、卷期号或年份。

<https://imagebank.osa.org>

The screenshot displays the search results page for 'lens' in the Optics ImageBank. The interface includes a search bar with the term 'lens' and a 'Caption' dropdown menu. The search results are displayed in a grid of six thumbnail images, each showing a different optical diagram or schematic. The search results section shows 'You searched (Caption): lens (clear)' and 'Results: 32402 Images'. The page navigation indicates '12 | 24 | 48 items per page'. On the left side, there is a sidebar with a list of journals and their corresponding image counts, and a date range filter set to '2000' to '2021'. A yellow arrow points to the 'ALL IMAGES' count of 1,244,521, and another yellow arrow points to the date range filter.

Journal	Count
Adv. Opt. Photon.	(4,786)
Applied Optics	(403,425)
Biomed. Opt. Express	(33,410)
J. Opt. Commun. Netw.	(17,417)
JOSA	(54,227)
JOSA A	(82,569)
JOSA B	(97,020)
Optica	(9,109)
Opt. Mater. Express	(24,059)
Optics Express	(350,226)
Optics Letters	(150,157)
OSA Continuum	(7,859)
Photonics Research	(10,257)

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Guifang Li, Editor-in-Chief
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