

# 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

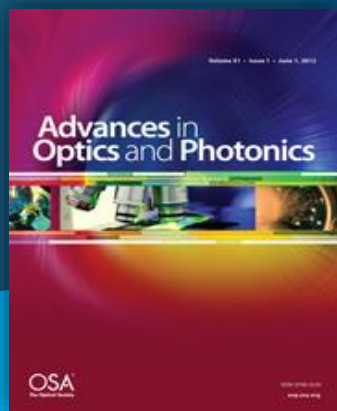
**Optical systems**  
光学系统

**Metrology**  
计量学

**Bandwidth**  
带宽

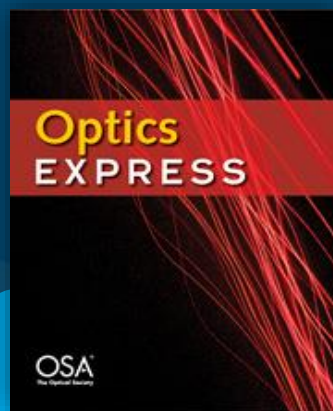
**Quantum  
Electronics**  
量子电子学

# 美国光学学会Optica：期刊



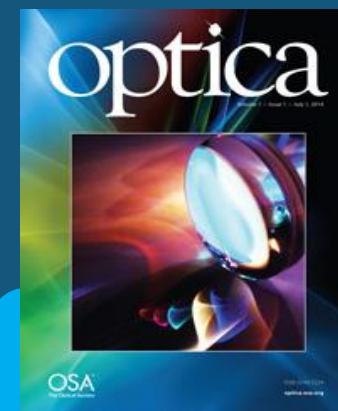
## ■ *Advances in Optics and Photonics* – 高影响因子

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



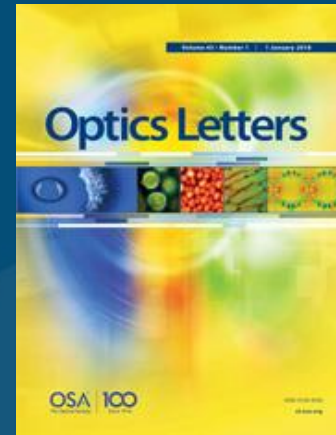
## ■ *Optica* - 光学领域权威期刊

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

Q1期刊

# 美国光学学会Optica: 会议录



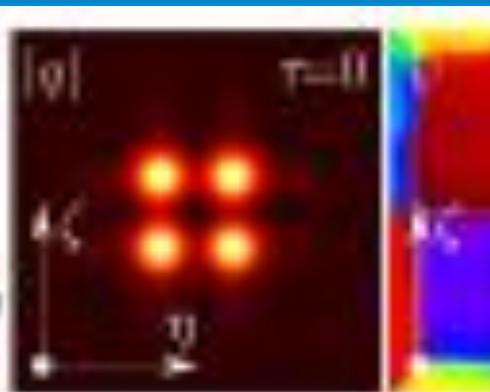
- *OSA Topical Meetings* 《主题会议录》
- *OSA Major Meetings Series* 《行业会议录系列》
- ← 反映了光学领域的最新进展和动态
- ← 收录了自1979年以来800多次会议产生的会议录、  
工超过190,000 篇文章
- ← 汇集了光学和光子学领域的科学家、工程师、教育家、  
技术人员及商业领袖的文章

# 美国光学学会Optica: 其他产品

## Optics Image Bank (光学影像图库)



demo



(a)



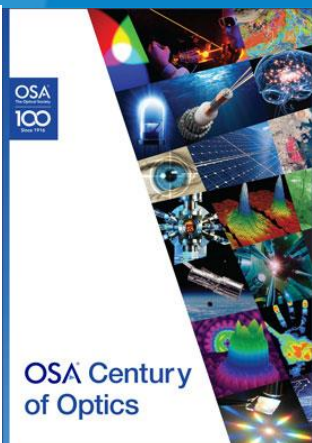
(b)



(c)

# 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



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

## OPTICA PUBLISHING GROUP CONGRATULATES THE 2018 NOBEL PRIZE WINNERS

Arthur Ashkin



G rard Mourou



Donna Strickland



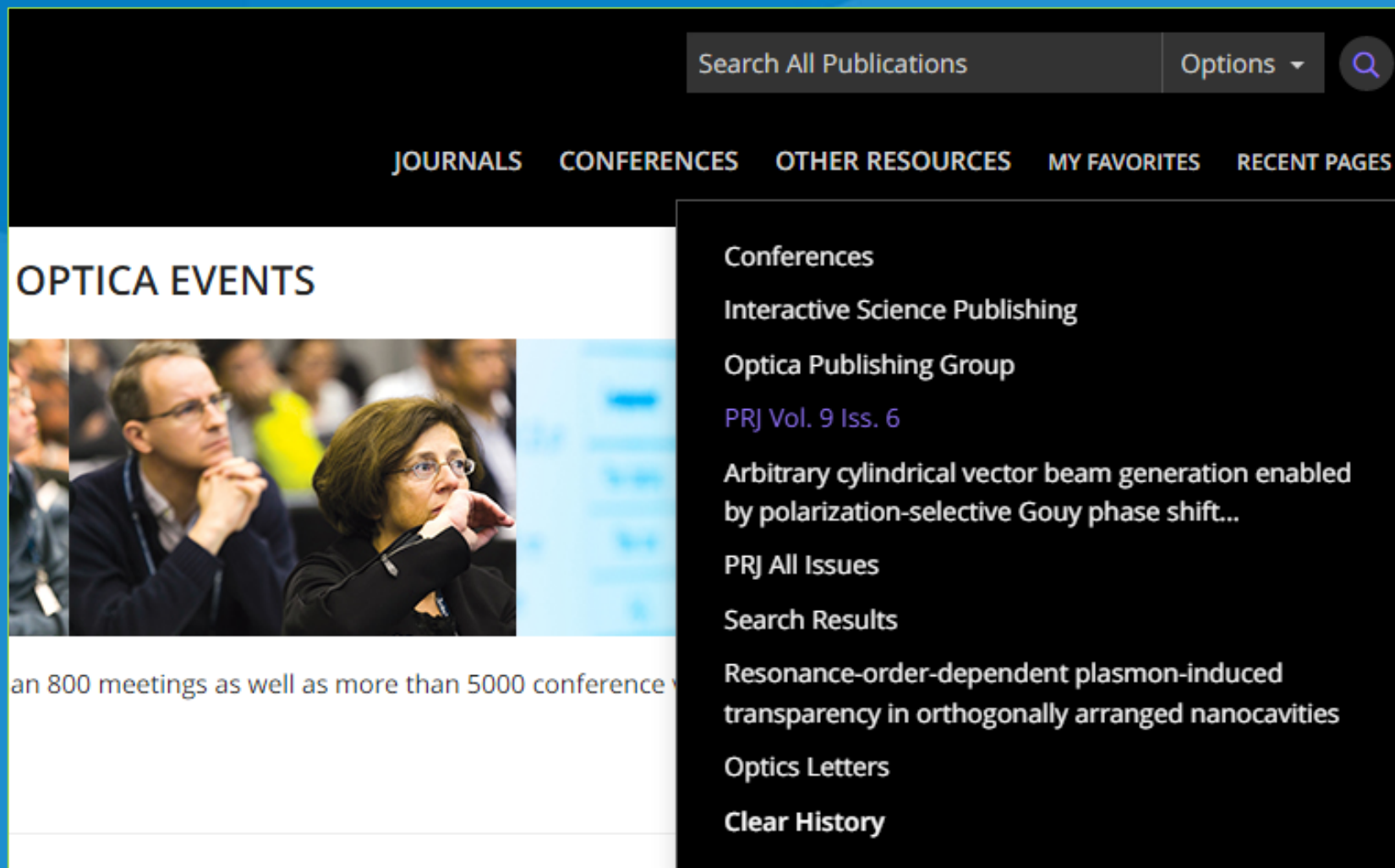
Optica Publishing Group congratulates [three optics pioneers](#) who share in the 2018 Nobel Prize in Physics for their "groundbreaking field of laser physics."

One half of the prize was awarded to Optica Honorary Member Arthur Ashkin of Bell Laboratories, USA, "for the optical tweezers a to biological systems," and the other half was shared by Optica Fellow G rard Mourou of the  cole Polytechnique, France, and Opt OSA President Donna Strickland of the University of Waterloo, Canada, "for their method of generating high-intensity, ultra-short c

- 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 navigation bar with a search box and a dropdown menu. The search box contains the text "Search All Publications" and "Options" with a search icon. The navigation bar includes links for "JOURNALS", "CONFERENCES", "OTHER RESOURCES", "MY FAVORITES", and "RECENT PAGES". The dropdown menu is open, showing a list of 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".

Search All Publications Options

JOURNALS CONFERENCES OTHER RESOURCES MY FAVORITES RECENT PAGES

OPTICA EVENTS

an 800 meetings as well as more than 5000 conference

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  
Clear History



# 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

[Author Information](#) [Find other works by these authors](#)

[Get PDF](#) [Email](#) [Share](#) [Get Citation](#) [Get Video](#) [Save article](#)

**PDF Article**

**Abstract**


**References (6)**

[Back to Top](#)

[Get Video](#)

### Presentation Video

Presentation video access is available to:

1. Optica Publishing Group subscribers 
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.

Contact your librarian or system administrator

- 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

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

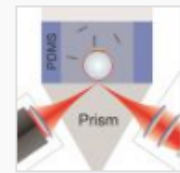
Filter the Results List  Actions Sort by: **Citation Count** View:   Results per page:  Page:   of 22

**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>



Not Accessible

Your library or personal account may give you access

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,<sup>1,2</sup> Mark N. Quinn,<sup>1</sup> and Gérard Mourou<sup>1,\*</sup>

<sup>1</sup>IZEST, Ecole Polytechnique, 91128 Palaiseau, France

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

\*Corresponding author: [gerard.mourou@polytechnique.edu](mailto: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 the channel parameters (phase, signal intensity, beam profile).

© 2015 Optical Society of America

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

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

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

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

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

$$AS + OS = R.$$

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

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

- Show Math As
- Math Settings
- Accessibility
- Language
- About MathJax
- MathJax Help

- Zoom Trigger
- Zoom Factor
- Math Renderer
  - HTML-CSS
  - Common HTML
  - Preview HTML
  - MathML
  - SVG
  - Plain Source
  - Fast Preview

# 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

[Author Information](#) [Find other works by these authors](#)

### Accessible

Full-text access provided by Tsinghua University



Get PDF



Email



Share



Get Citation



Citation alert



Save article

### PDF Article

[Back to Article](#)

[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

- BibTex
- 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

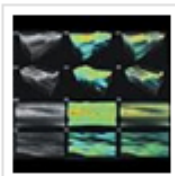
See the [ISP FAQs](#) for more information.

## 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 Ho

- 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](http://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' on the Optics ImageBank website. The interface includes a search bar with the term 'lens' entered, a list of journal titles with their respective image counts, and a date range filter set from 2000 to 2021. The search results are displayed in a grid of six thumbnail images, each showing a different optical diagram or schematic.

Optica Publishing Group > Optics ImageBank > Search

You searched (Caption): lens (clear)

Results: 32402 Images 12 | 24 | 48 items per page

Journal Title	Image Count
ALL IMAGES	1,244,521
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)

VOLUME ISSUE PAGE

DATE RANGE 915,062

2000 2021

## 数据库使用：避免过量下载


Optica has implemented a process that requires you to enter

o t s o g

Submit



请注意关注每本期刊的审稿信息！



PUBLISHING GROUP | OSA

JOURNALS | CONFERENCES | OTHER RESOURCES | MY FAVORITES

JOURNAL HOME  
**ABOUT**  
TUTORIALS  
ISSUES IN PROGRESS  
CURRENT ISSUE  
ALL ISSUES

**Advances in Optics and Photonics**

Guifang Li, Editor-in-Chief  
Editorial Board > Staff >

## Submission Information

Is my paper appropriate for *Advances in Optics and Photonics*? Read about all of [our journals](#)!

Any prospective author can submit a proposal by contacting the editor directly or by sending a proposal to the address [aopmss@optica.org](mailto:aopmss@optica.org). The proposal requirements can be found [here](#).

Please see the [Author Resource Center](#) for instructions to prepare and submit a manuscript.

Submit

## Key Journal Metrics

Impact Factor: 20.107\*

Immediacy Index: 3.867\*

Article Influence Score: 7.016\*

5-Year Impact Factor: 23.543\*

Median Time to Publication: 195 days ←

\*Source: 2021 Journal Citation Reports® (Clarivate, 2021).

For more information on Journal metrics, [click here](#).

## Editorial Board ↑ ←



Editor-in-Chief

Guifang Li,  
*University of Central Florida, USA*

## Advisory Editors

Thomas M. Baer, *Stanford University, USA*

Connie I. Chang-Hasnain, *University of California, Berkeley, USA*

# *Thank You*

如有问题，欢迎联系 [Info@igroup.com.cn](mailto:Info@igroup.com.cn)，或至  
<https://www.igroup.com.cn/osa> 查看数据库介绍。