

APS

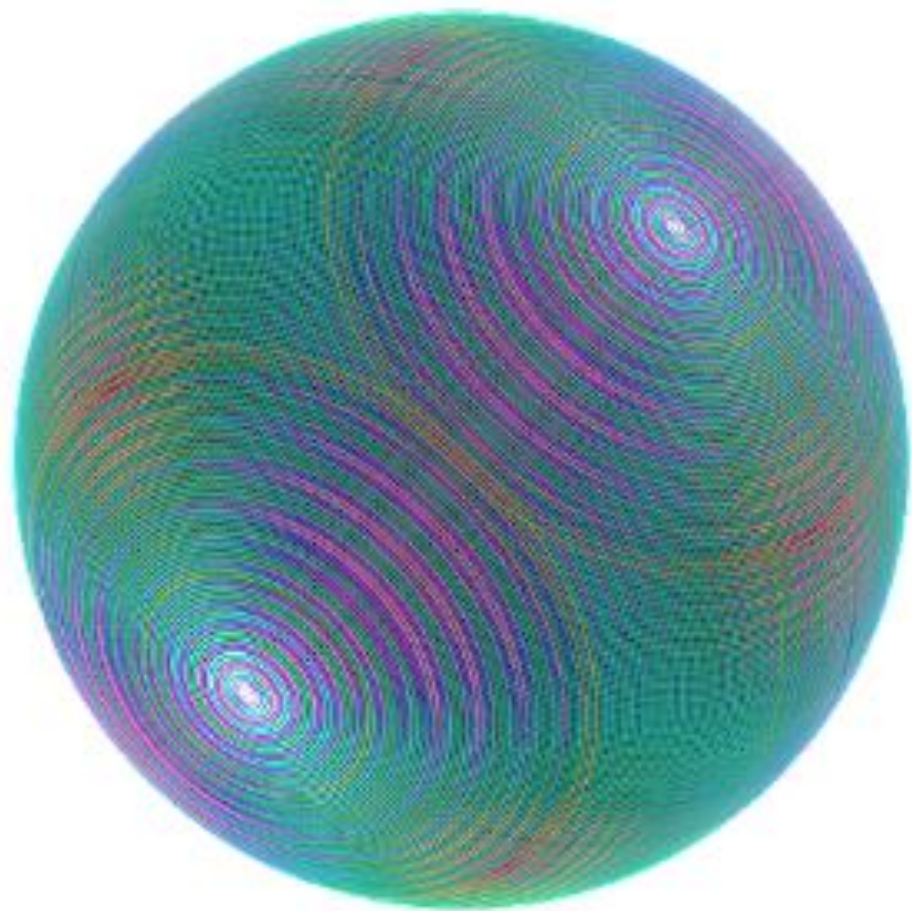
美国物理学会数据库 使用指南

2026



目录

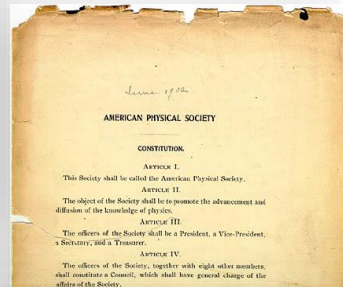
- 美国物理学会简介
- 经典和最新期刊出版物
- 数据库平台检索案例
- 期刊学术文章投稿概要



美国物理学会简介



1893年，康奈尔大学物理学教授爱德华·尼科尔斯（Edward Nichols）创立《物理评论》 *Physical Review* 期刊



1899年，36位物理学家聚集在哥伦比亚大学，成立了美国物理学会（American Physical Society）。克拉克大学物理学教授亚瑟·戈登·韦伯斯特（Arthur Gordon Webster）组织了第一次APS会议。



早期APS的主要活动是举办科学会议，每年举行四次。

>>>1959年的一次APS会议

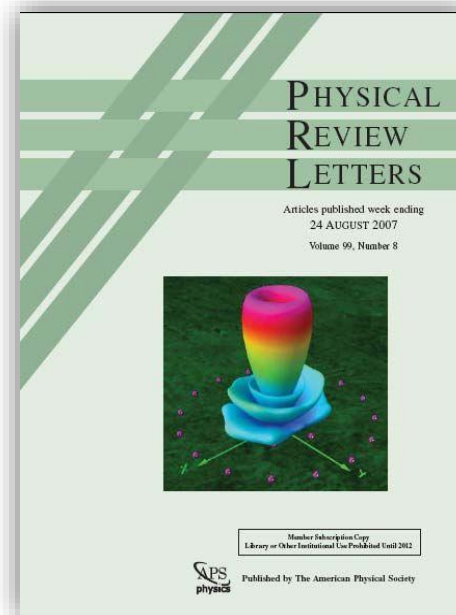
APS学会历史



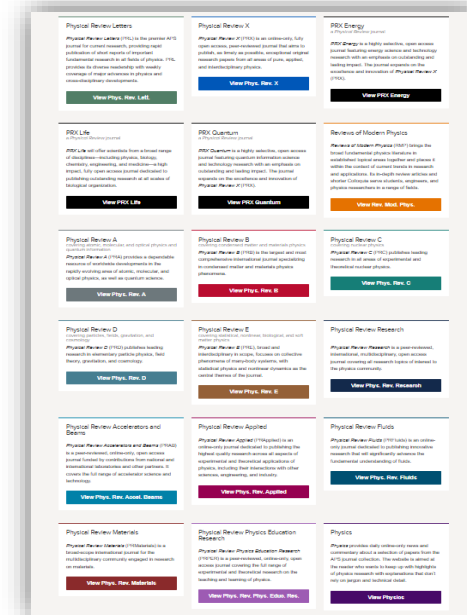
1913年，APS接管
《物理评论》期刊



1929年，APS出版
《现代物理评论》



1958年，APS出版
《物理评论快报》



目前，物理评论系列
期刊拓展至20种，以
及1种过刊，共21种
刊物。

APS会员社区



- 会员人数：55,000+
- 会员单元：50+
- 子领域分部
 - 天体物理、原子分子和光物理、化学物理、凝聚态物理等
- 主题小组
 - 凝聚态压缩、量子材料合成、物理教育研究等
- 兴趣论坛
 - 物理学史与哲学、国际物理学、物理学与社会等
- 区域分部
 - 东五大湖、大西洋、纽约州等

APS出版期刊



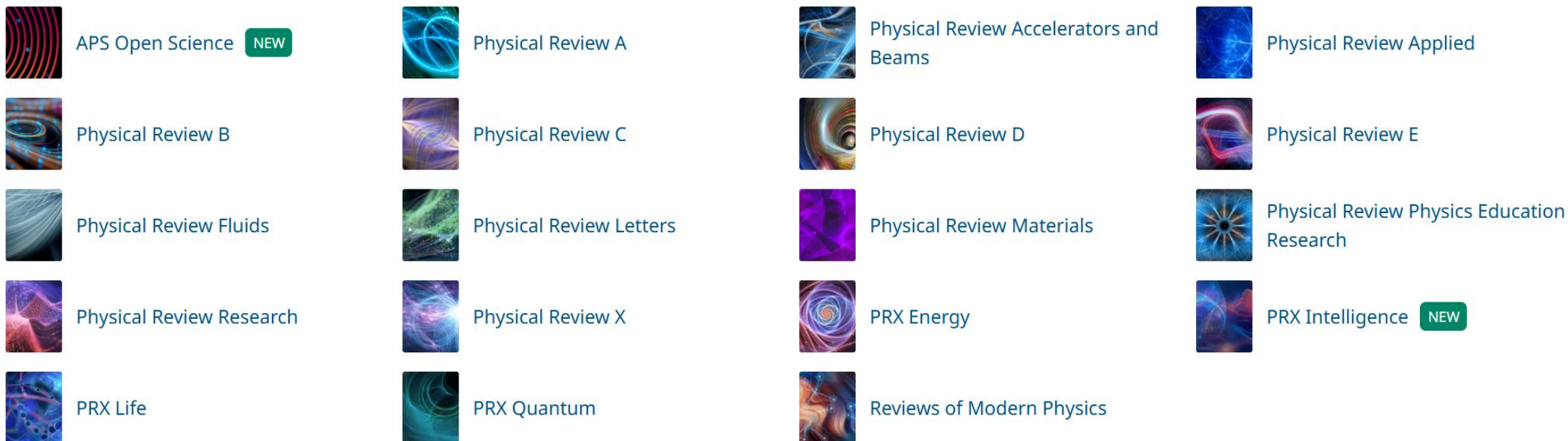
> APS Publication > Journals

BY THE NUMBERS Our impact	资源数量	期刊种数	SCI收录
	790K	21	14
年新增	收录年限	ESI收录	
20K+	1893-	14	

APS数据库收录学会出版的10种订阅期刊、1种过刊，以及10种免费出版物，最早可回溯至1893年。全库文献超过79万篇，每年更新约2万篇。

APS出版期刊

APS期刊中包含 19 种同行评审期刊，涵盖所有物理学领域。



物理综合、核物理、流体与等离子体、数学物理、原子、分子和光物理、粒子与场物理、凝聚态物理、应用物理、天文学与天体物理学、科学教育、光学

APS出版刊物品质



Pierre Agostini、Ferenc Krausz、Anne L'Huillier

2023 年诺贝尔物理学奖授予给三位“将产生阿秒光脉冲的实验方法用于研究物质的电子动力学”的物理学家。

均在APS期刊上发表过文章，其中一位为APS Fellow,并曾荣获APS杰出审稿人荣誉。

The Nobel Prize in Physics 2023



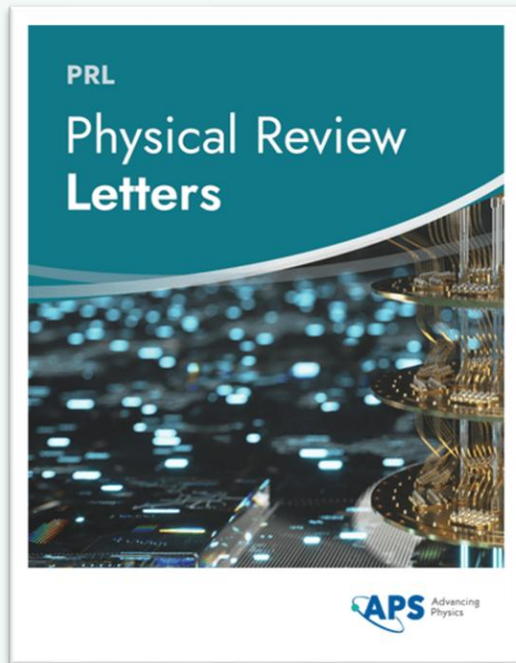
John J. Hopfield、Geoffrey E. Hinton

2024 年诺贝尔物理学奖授予给两位“利用人工神经网络实现机器学习的基础发现和发明”的物理学家。

约翰·霍普菲尔德为APS Fellow，2006年担任APS主席。

The Nobel Prize in Physics 2024

Physical Review Letters 《物理评论快报》



2024 IF: 9

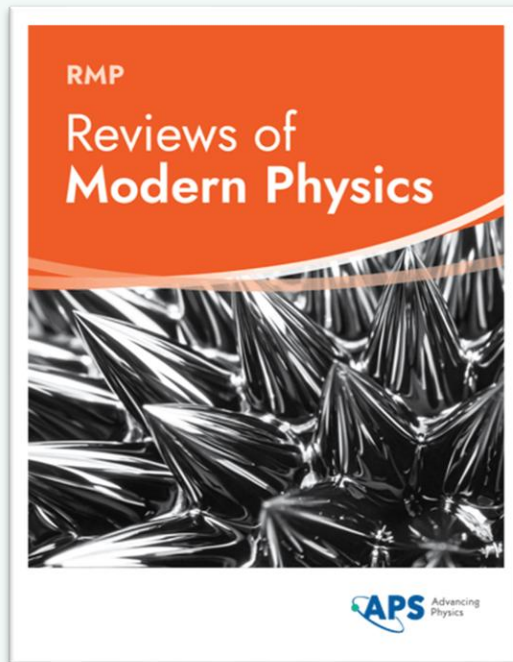
JCR分区: Q1

收录领域: 物理: 综合

被引次数: 518,699 (领域 top1)

关注要点: APS旗舰刊物, 涵盖物理学大类下所有子学科和交叉学科, 只发表物理学相关领域具有开创性的重要研究成果。

Reviews of Modern Physics 《现代物理学评论》



2024 IF: 44.8 (领域 top1)

JCR分区: Q1

收录领域: 物理: 综合

被引次数: 65,614 (领域第二,仅次于PRL)

关注要点: 涵盖物理全学科, 物理学界最权威的综述性评论期刊, 一般不接受自由投稿。

Physical Review A-E 《物理评论A辑》 - 《物理评论E辑》



前身: *Physical Review* - 《物理评论》

拆分时间: 1970—PR ABCD; 1993—PRE

SCI收录: Q1&Q2

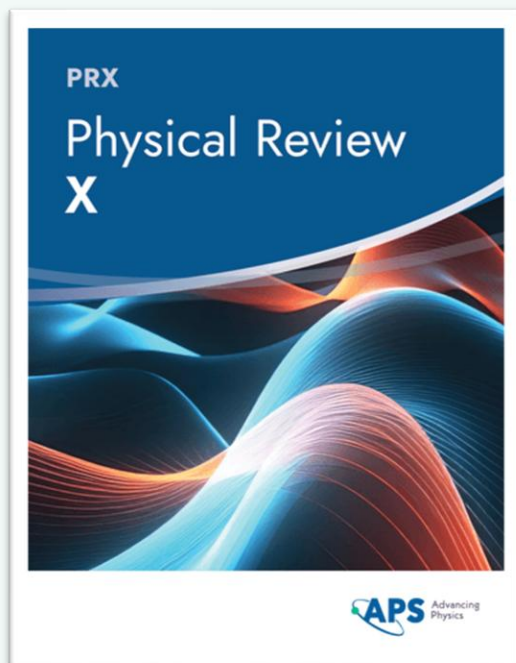
关注要点: 每本刊对应一个子领域。

PRA: 原子、分子和光物理; PRB: 凝聚态物理与材料物理

PRC: 核物理; PRD: 粒子与场物理、天体物理学

PRE: 统计、非线性和软体物理&跨学科期刊

Physical Review X 《物理评论X辑》



2024 IF: 15.7

JCR分区: Q1

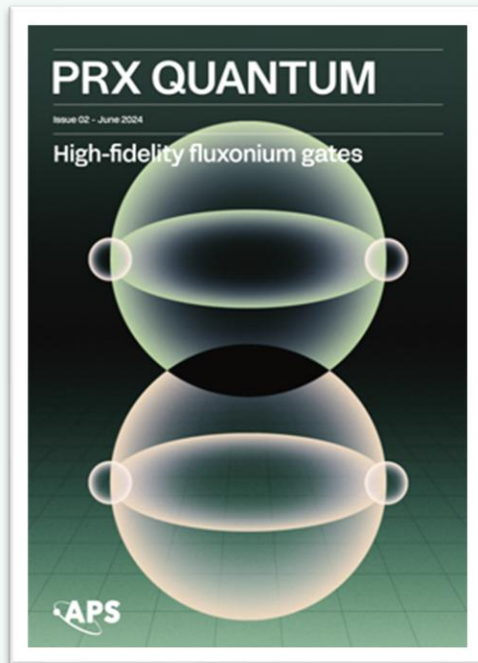
收录领域: 物理: 综合

关注要点:

涵盖物理全学科, 审稿标准与PRL齐平。

除快报外也发表长篇论文。

PRX Quantum 《物理评论X辑-量子》



创刊年：2020

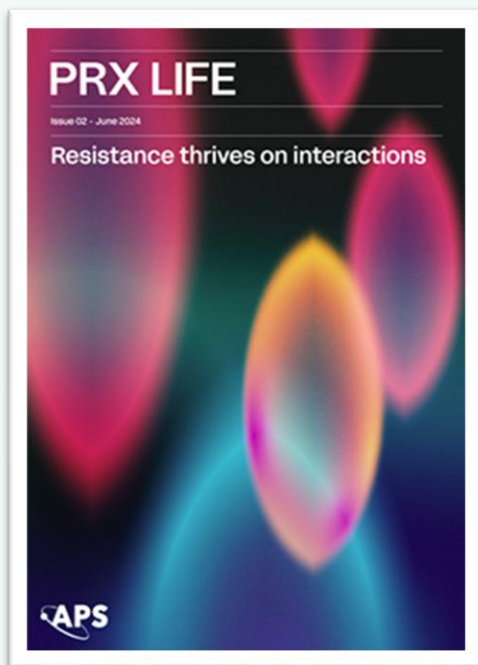
2024 IF：11

JCR分区：Q1

收录领域：应用物理；量子科技；物理：综合

关注要点：涵盖量子科学和技术研究的所有主题，包括物理、计算机科学、数学、化学、材料等不同学科的量子信息内容。

PRX Life 《物理评论X辑-生命》



创刊年：2023

更新频率：4期/年

创刊目的：发表物理学和生物学领域最重要的发现，
弥合物理科学和生命科学之间的鸿沟

关注要点：

- 首本聚焦生物物理学和定量生物学研究的跨学科期刊

PRX Intelligence 《物理评论X辑-智能》



开放投稿时间：2026年2月

创刊目的：联结以物理为导向的人工智能与机器学习研究群体，提供高质量的同行评审与出版服务体验。

收录范围：物理学及相关领域的理论、模拟与实验，涉及计算机科学、数学、工程学、材料科学、化学、生物学以及地球与环境科学等方向。

APS Open Science 《APS开放科学》

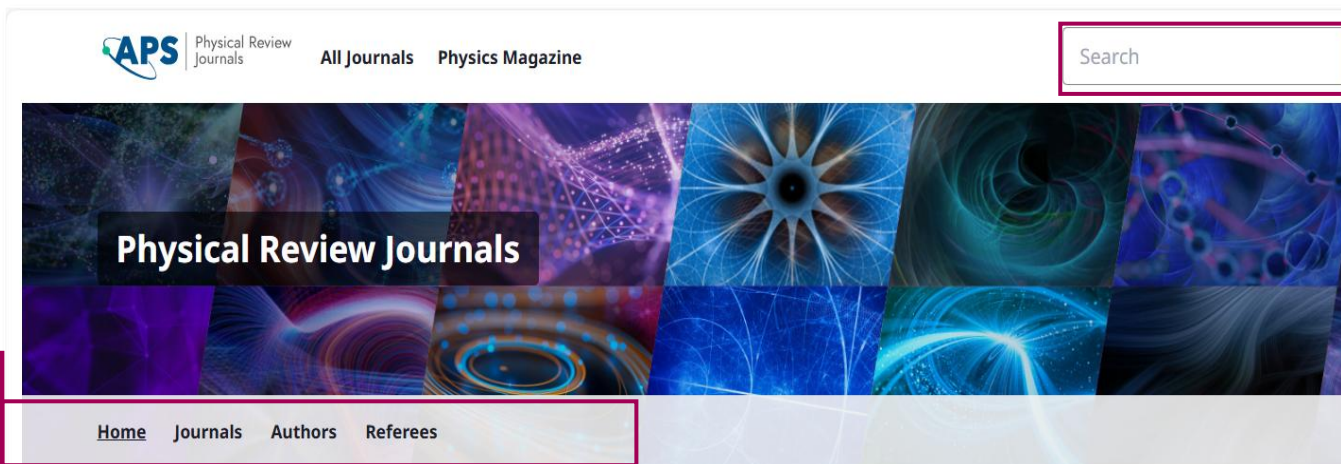


开放投稿时间：2026年2月

创刊目的：打造一个开放且值得信赖的发表平台，推动推动物理学研究在开放性、包容性与广泛参与度上的提升。

收录范围：物理学全领域及相关交叉学科的基础研究与应用研究文章、理论探讨与实验工作、方法创新与技术进展、数据与软件论文、重复性与验证性研究、阴性结果和零结果。

> [APS数据库主页](#) > 功能分区



APS Physical Review Journals All Journals Physics Magazine Search

Physical Review Journals

Home Journals Authors Referees

APS学会通知

APS招聘启事
- 主编 副主编 编辑

Announcements

Job Openings

[Physical Review Physics Education Research seeks a new Chief Editor](#)
July 23, 2024

The American Physical Society is conducting an international search for a new Chief Editor of *Physical Review Physics Education Research* (PRPER). A top ranked journal in its field, PRPER covers the full array of experimental and theoretical research relating to the teaching and learning of physics and astronomy. PRPER is also the only fully open access journal for physics education research.

[Physical Review A is looking for a new part-time Associate Editor](#)
July 22, 2024

Physical Review A (PRA) is looking for a new part-time Associate Editor with international scientific standing in the area of quantum science to join our editorial team and become part of the stimulating academic endeavor to bring high-quality papers to our readership.

[Three Associate Editor Positions](#)
June 18, 2024

Physical Review Letters seeks three dynamic and personable individuals with postdoctoral experience in quantum information science and technology, photonics, condensed matter physics, or materials science to join our close-knit team of editors running the world's leading physics journal.

Subm

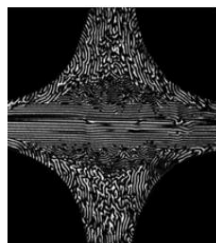
Beco

Email Alerts

Sign up to receive regular updates from *Physical Review Journals*.

首页|期刊|投稿人说明|审稿人说明

精选文章
封面文章
编辑推荐
新闻评论



PRL ON THE COVER

[Control of Chemical Waves by Fluid Stretching and Compression](#)

21 NOVEMBER, 2024

Reaction-diffusion pattern from an aqueous Belousov-Zhabotinsky-1,4-cyclohexanedione solution placed in a hyperbolic flow. Selected for an Editors' Suggestion.

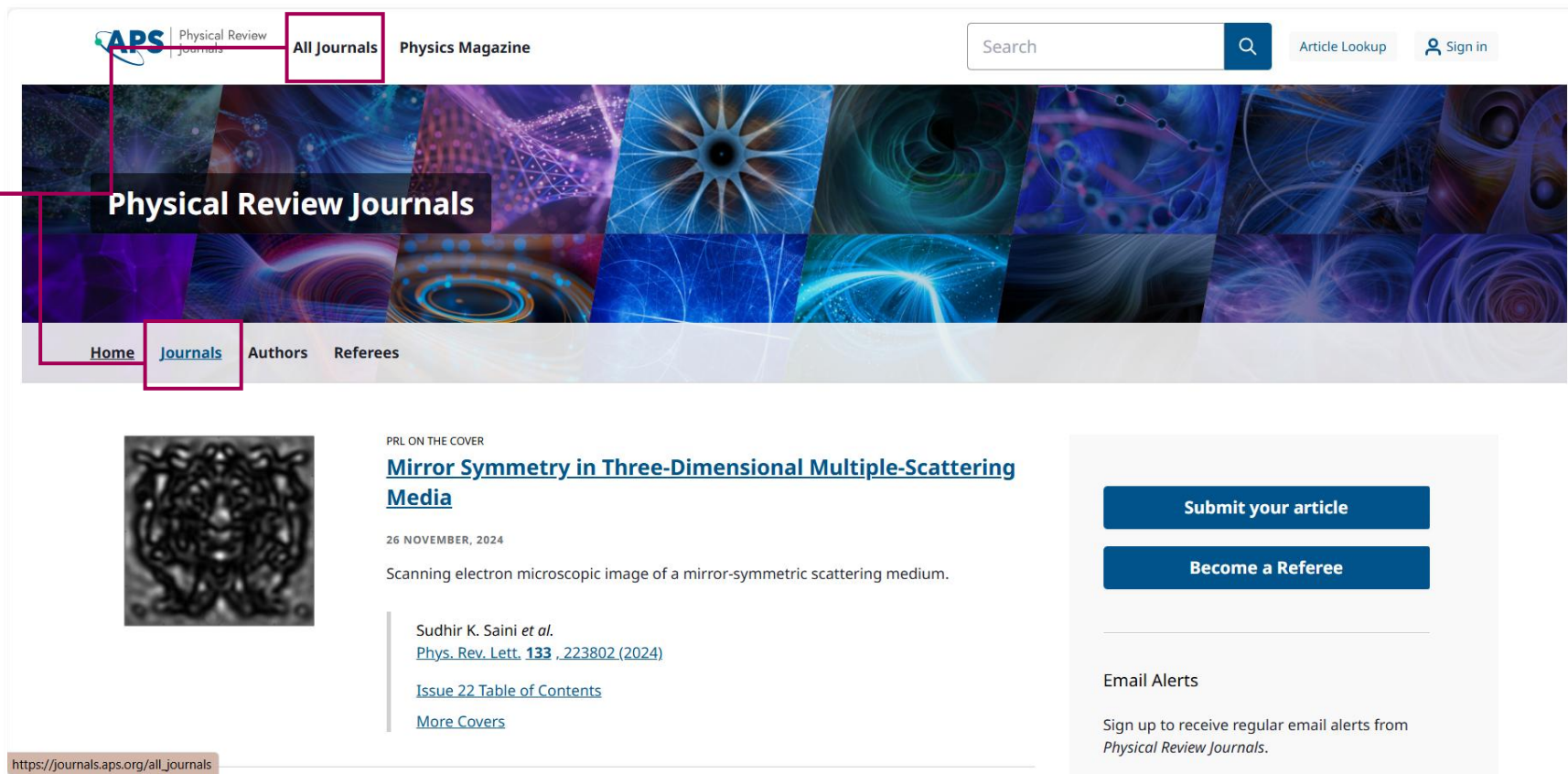
S. Izumoto *et al.*
[Phys. Rev. Lett. 133, 218001 \(2024\)](#)

[Issue 21 Table of Contents](#)

[More Covers](#)

> [APS数据库主页](#) > Journals

点击Journals
进入期刊主页



The screenshot shows the APS Journals website. At the top, there is a navigation bar with the APS logo, "Physical Review Journals", "All Journals", and "Physics Magazine". A search bar is on the right, along with "Article Lookup" and "Sign in" buttons. Below the navigation bar is a large banner image with the text "Physical Review Journals". Underneath the banner is a secondary navigation bar with "Home", "Journals", "Authors", and "Referees". The main content area features a featured article titled "Mirror Symmetry in Three-Dimensional Multiple-Scattering Media" by Sudhir K. Saini et al., published in Phys. Rev. Lett. 133, 223802 (2024). To the right of the article are two buttons: "Submit your article" and "Become a Referee". Below these buttons is an "Email Alerts" section with a sign-up link. At the bottom left, the URL "https://journals.aps.org/all_journals" is displayed.

APS Physical Review Journals All Journals Physics Magazine

Search Article Lookup Sign in

Physical Review Journals

Home Journals Authors Referees

PRL ON THE COVER

Mirror Symmetry in Three-Dimensional Multiple-Scattering Media

26 NOVEMBER, 2024

Scanning electron microscopic image of a mirror-symmetric scattering medium.

Sudhir K. Saini *et al.*
[Phys. Rev. Lett. 133, 223802 \(2024\)](#)

[Issue 22 Table of Contents](#)
[More Covers](#)

Submit your article

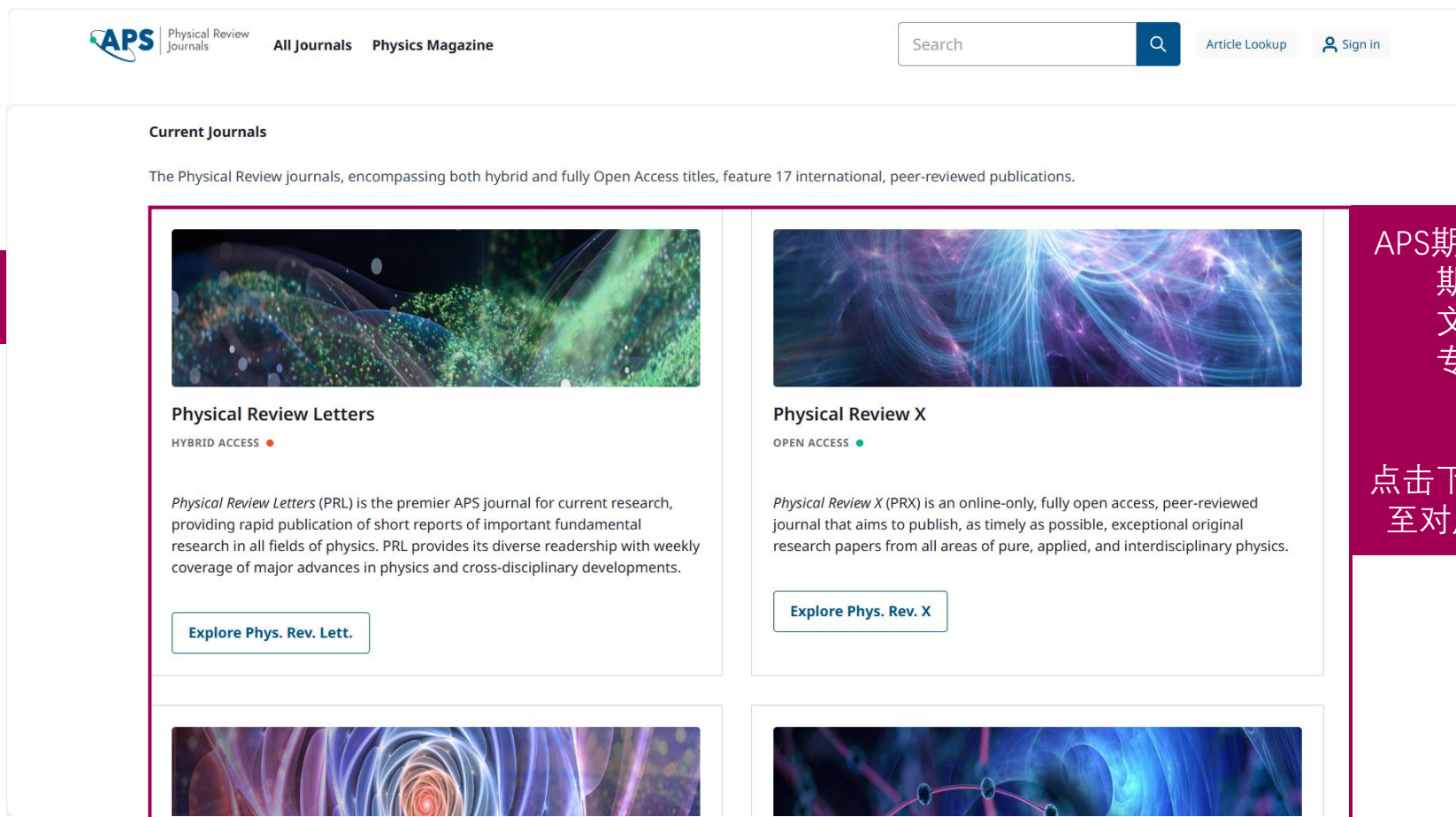
Become a Referee

Email Alerts

Sign up to receive regular email alerts from *Physical Review Journals*.

https://journals.aps.org/all_journals

> [APS数据库主页](#) > Journals



The screenshot shows the APS Journals homepage. At the top, there is a navigation bar with the APS logo, 'Physical Review Journals', 'All Journals', and 'Physics Magazine'. A search bar is on the right, along with 'Article Lookup' and 'Sign in' links. Below the navigation bar, the 'Current Journals' section is highlighted with a red border. It contains a sub-header 'Current Journals' and a paragraph: 'The Physical Review journals, encompassing both hybrid and fully Open Access titles, feature 17 international, peer-reviewed publications.' Below this, there are two main journal cards. The first card is for 'Physical Review Letters', featuring a green and blue abstract image. It includes the text 'Physical Review Letters', 'HYBRID ACCESS', and a paragraph describing it as the premier APS journal for current research. Below the text is a button labeled 'Explore Phys. Rev. Lett.'. The second card is for 'Physical Review X', featuring a blue and purple abstract image. It includes the text 'Physical Review X', 'OPEN ACCESS', and a paragraph describing it as an online-only, fully open access, peer-reviewed journal. Below the text is a button labeled 'Explore Phys. Rev. X'. At the bottom of the screenshot, there are two more journal cards partially visible, each with a different abstract image.

期刊快捷入口

APS期刊单独介绍
期刊类型
文章类型
专注领域

点击下方按钮跳转
至对应期刊主页

> [APS数据库主页](#) > 期刊主页

期刊趋势

Trending in PRL

Editorial: Whither
Robert Garisto at

期刊新闻

PRL Nobel Prize winning research



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The Physical Review journals are home to the most Nobel-winning physics papers in the world. Over 65% of the Nobel-Prize-winning research published in the last four decades are included in Physical Review journals. Read more about these papers in the [APS Newsroom](#).

The Nobel Prize winners from the previous thirteen years have been published in PRL.



Physical Review
Journals

All Journals

Physics Magazine

Search



Article Lookup

Sign in

Physical Review Letters

亮点文献|刚发表的文献|刚接收的稿件|专题合集|投稿指南|审稿指南|媒体

Highlights

Recent

Accepted

Collections

Authors

Referees

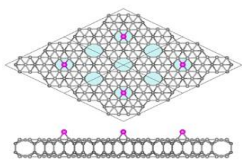
Press

About

Editorial Team

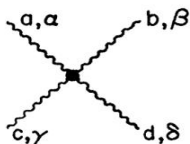
RSS

专题合集



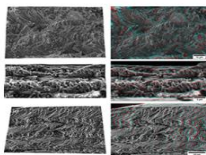
Subject Focus: Chemical Physics

The *Physical Review Journals* want to be a home for chemists. It is our aim to publish work on electrochemistry and energy science (batteries, supercapacitors, and photocatalysis), nanoparticles and nanotechnology, metrology for analytical chemistry, and quantum information science for computational chemistry.



50 Years of QCD

A new Collection by the *Physical Review* journals celebrates the 50th anniversary of the discovery of asymptotic freedom in quantum chromodynamics (QCD)—the theoretical basis for the strong force of nature that binds quarks and gluons into hadrons.



Subject Focus: Polymers and Soft Matter

Editors from *Physical Review Letters*, *Physical Review Applied*, and *Physical Review Materials* have gathered several recently published papers in soft matter and polymer research in an effort to illustrate the kind of papers these journals are looking for in this topic.

About Physical Review Letters

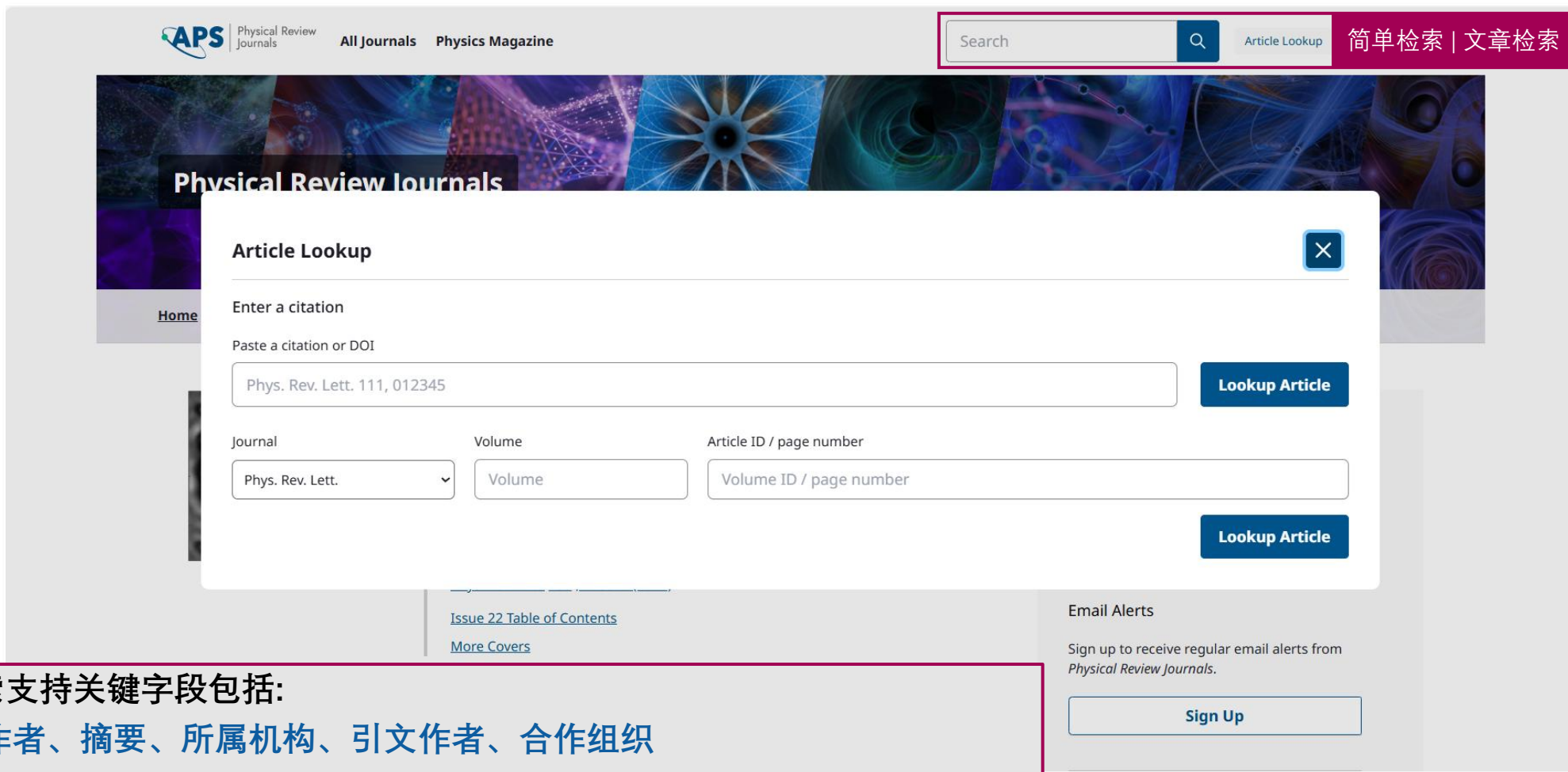
Physical Review Letters (PRL) is the premier APS journal for current research, providing rapid publication of short reports of important fundamental research in all fields of physics. PRL provides its diverse readership with weekly coverage of major advances in physics and cross-disciplinary developments.

Latest Issue

Vol. 133, Iss. 22 — 29 November 2015

[View Current Issue](#)

[View All Volumes and Issues](#)



The screenshot displays the APS Physical Review Journals website. At the top, there is a navigation bar with the APS logo, "Physical Review Journals", and links for "All Journals" and "Physics Magazine". A search bar is located in the top right corner, with the text "Search" and a magnifying glass icon. To the right of the search bar, there is a button labeled "Article Lookup" and a text label "简单检索 | 文章检索".

The main content area features a banner for "Physical Review Journals" with a background image of abstract scientific patterns. Below the banner, there is a "Home" link. A modal window titled "Article Lookup" is open, containing the following fields and buttons:

- Section: "Article Lookup" with a close button (X).
- Section: "Enter a citation" with a text input field containing "Phys. Rev. Lett. 111, 012345" and a "Lookup Article" button.
- Section: "Paste a citation or DOI" with a text input field.
- Section: "Journal" with a dropdown menu showing "Phys. Rev. Lett." and a "Volume" input field.
- Section: "Article ID / page number" with a text input field containing "Volume ID / page number" and a "Lookup Article" button.

At the bottom of the page, there are links for "Issue 22 Table of Contents" and "More Covers". On the right side, there is an "Email Alerts" section with the text "Sign up to receive regular email alerts from Physical Review Journals." and a "Sign Up" button.

- APS检索支持关键字段包括:
- 标题、作者、摘要、所属机构、引文作者、合作组织



SORT & FILTER

1-20 of 72,800 Results

排序逻辑

Sort By

Most Recent

显示篇数

Most Relevant

10 results

20 results

发表日期

50 results

Any time

Past Week

Past Month

Past Year

Custom Range

Category

Article Type

Journal

REVIEWS OF MODERN PHYSICS

[Chemical physics: Molecular clouds, clusters, and corrals](#)

Dudley Herschbach

Rev. Mod. Phys. **71**, S411 (1999) - Published 1 March, 1999

48 Citations

Show Abstract

PDF

PHYSICAL REVIEW B

[Chemical physics of superconductivity in layered yttrium carbide halides from first principles](#)

Ryosuke Akashi, Ryotaro Arita, Chao Zhang, K. Tanaka, and J. S. Tse

Phys. Rev. B **103**, 134517 (2021) - Published 29 April, 2021

Show Abstract

PDF

PHYSICAL REVIEW A

[Chemical physics without the Born-Oppenheimer approximation: The molecular](#)

APS检索示例-精炼选项

PhySH概念
(某项技术或研
究方向)

PhySH Concept ▾

- ALL (72,800)
- Phase transitions (6,143)
- Magnetism (5,374)
- Electronic structure (5,033)
- Transport phenomena (4,603)
- 3-dimensional systems (4,308)

PhySH学科
(物理学中的
某个子学科)

PhySH Discipline ▾

- ALL (72,800)
- Condensed Matter, Materials & Applied Physics (19,867)
- Atomic, Molecular & Optical (4,911)
- Statistical Physics & Thermodynamics (3,596)
- Particles & Fields (2,568)
- Nuclear Physics (2,372)

More ▾

文献分类

OA文章
编辑推荐
专题文章
里程碑文章

Category ▾

- ALL (72,800)
- Open Access (6,870)
- Editors' Suggestion (3,098)
- Featured in Physics (811)
- Milestone (16)

文献类型

Article Type ▾

- ALL (72,800)
- Article (56,392)
- Letter (10,561)
- Rapid Communication (3,037)
- Brief Report (1,222)
- Review (710)

More ▾

来源期刊

Journal ▾

- ALL (72,800)
- Phys. Rev. B (30,739)
- Phys. Rev. Lett. (9,540)
- Phys. Rev. E (8,026)
- Phys. Rev. A (7,634)
- Phys. Rev. D (5,236)
- Phys. Rev. C (3,045)
- Phys. Rev. Research (1,771)

More ▾

> APS数据库主页 > 期刊主页 > 文章页面

Highlights Recent Accepted Collections Authors Referees Press About Editorial Team RSS

Mirror Symmetry in Three-Dimensional Multiple-Scattering Media

Sudhir K. Saini¹, Evangelos Marakis^{1,2}, Kayleigh Start¹, Gerwin Osnabrugge¹, Ivo M. Vellekoop¹, and Pepijn W.H. Pinkse¹

Hide

¹MESA+ Institute for Nanotechnology, [University of Twente](#), The Netherlands
²Institute of Electronic Structure and Laser, [Foundation for Research and Technology-Hellas](#), Crete, Greece

Phys. Rev. Lett. **133**, 223802 – Published 26 November, 2024
DOI: <https://doi.org/10.1103/PhysRevLett.133.223802>

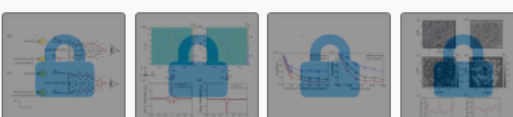
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Abstract

We investigate the effect of a mirror-symmetry plane in multiple-scattering media under plane-wave illumination along the symmetry plane. Designed and fabricated samples' optical transport properties are compared quantitatively with three-dimensional modeling. Strong polarization-dependent deviations of the bulk speckle-averaged intensity distribution at the symmetry plane are observed, showing either up to a factor 2 enhancement or complete suppression of the ensemble-averaged intensities. We derive analytical expressions for the ensemble-averaged intensity profiles near the symmetry plane. Apart from their interest to fundamental light propagation studies, applications of mirror-symmetric scattering media are envisioned in anticounterfeiting.



Physics Subject Headings (PhySH)

Light propagation in random media Nanophotonics Optical materials & elements Polarization of light

PhySH (物理主题词)

Outline Information **文章详情**

Phys. Rev. Lett. **133**, 223802
– Published 26 November, 2024
[Vol. 133, Iss. 22 – 29 November 2024](#)
Received 22 September 2023
Revised 25 July 2024
Accepted 16 September 2024

Export Citation 导出引用

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DOI: <https://doi.org/10.1103/PhysRevLett.133.223802>

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Mirror Symmetry in Three-Dimensional Multiple-Scattering Media
Crossref DOI link: <https://doi.org/10.1103/PhysRevLett.133.223802>
Published Online: 2024-11-26
Update policy: <https://doi.org/10.1103/crossmark-policy>

- Authors
 - Funding
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Outline Information **文章大纲**

Abstract
Article Text
Supplemental Material
References

Export citation
Choose format for download:
BibTeX
EndNote (RIS) **Download citation**

```
@article{PhysRevLett.133.223802,
  title = {Mirror Symmetry in Three-Dimensional Multiple-Scattering Media},
  author = {Saini, Sudhir K. and Marakis, Evangelos and Start, Kayleigh and Osnabrugge, Gerwin and Vellekoop, Ivo M. and Pinkse, Pepijn W. H.},
  journal = {Phys. Rev. Lett.},
  volume = {133},
  issue = {22},
  pages = {223802},
  numpages = {6},
  year = {2024},
  month = {Nov},
  publisher = {American Physical Society},
  doi = {https://doi.org/10.1103/PhysRevLett.133.223802}}
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8.1

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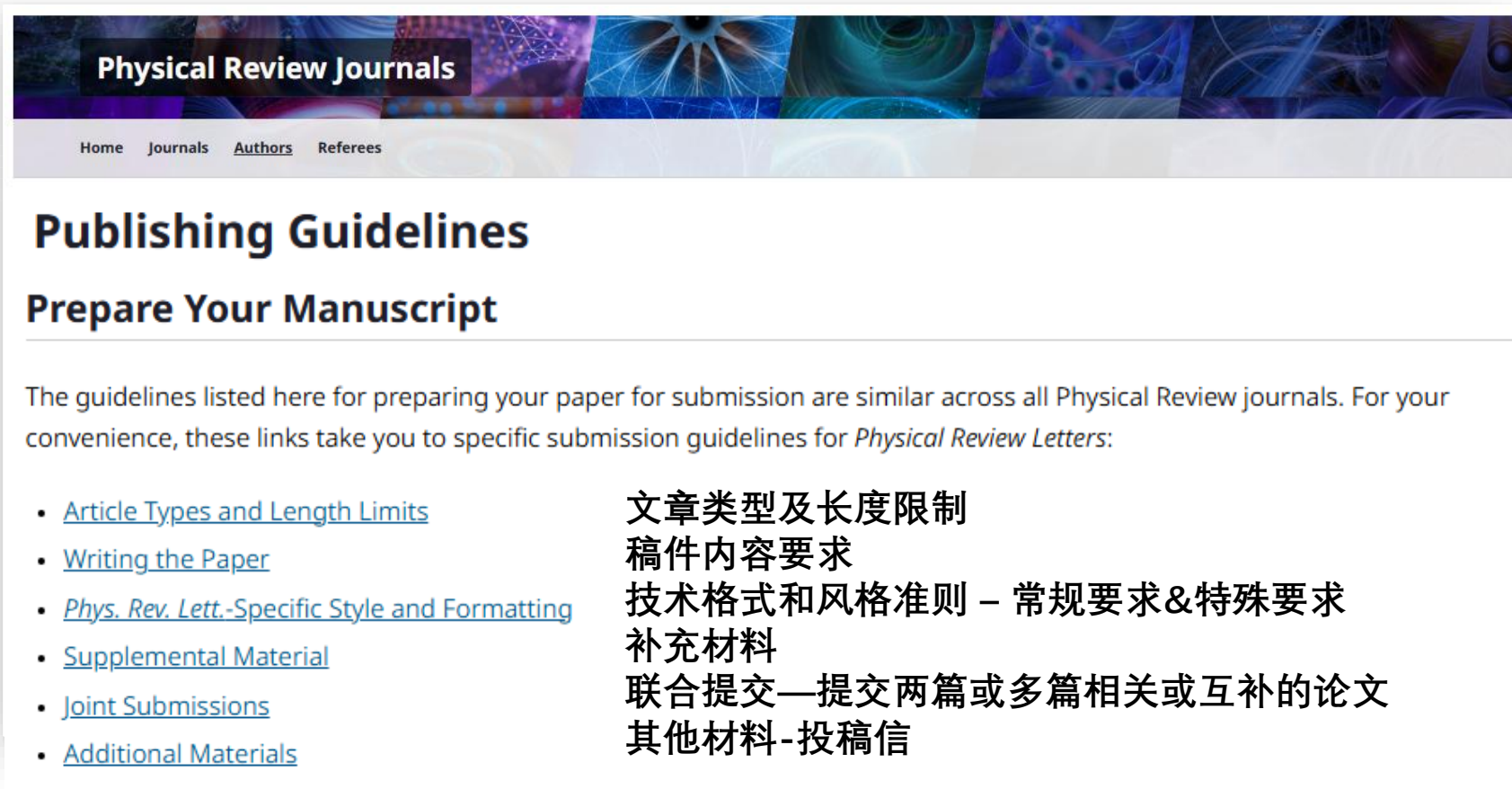
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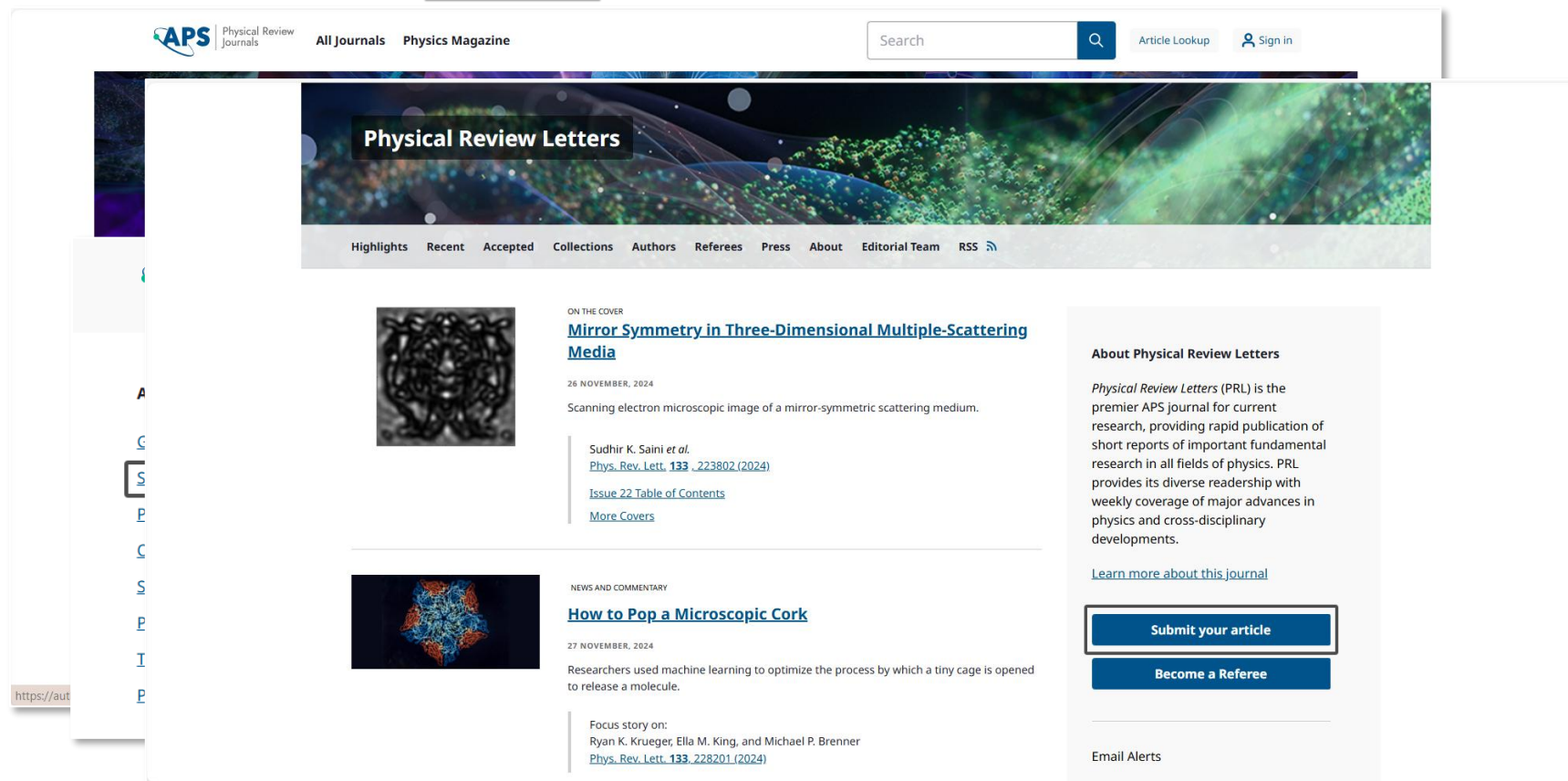
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