

APS

美国物理学会数据库

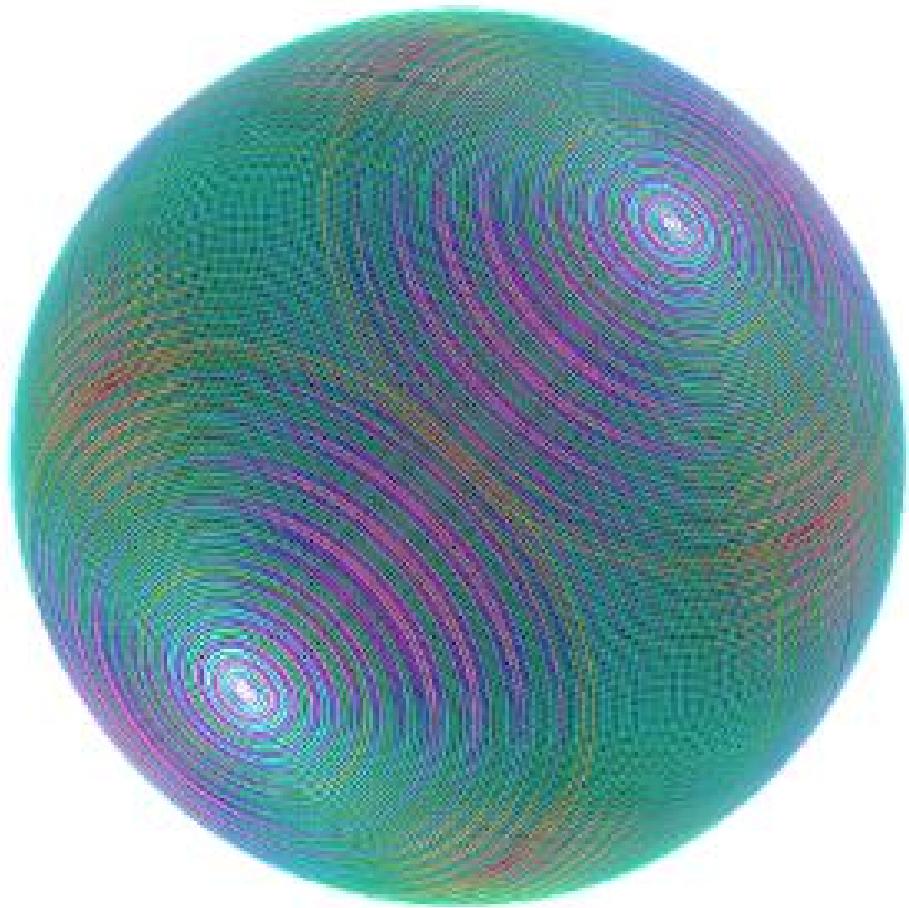
使用指南

2025



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



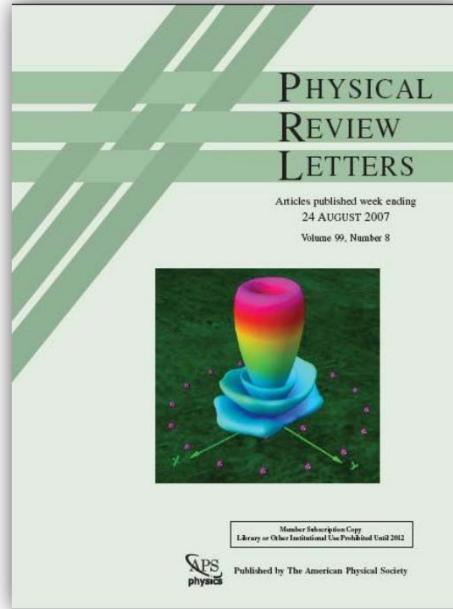
APS学会历史



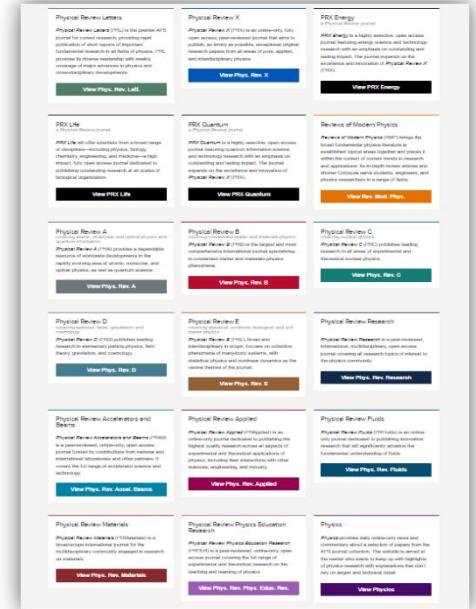
1913年，APS接管
《物理评论》期刊



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18种，以及1种过刊。

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出版刊期刊



> APS Publication > Journals

BY THE NUMBERS

Our impact

资源数量	期刊种数	SCI收录
760K+	19	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8种免费出版物，最早可回溯至1893年。全库文献超过76万篇，每年更新约2万篇。

APS出版刊期刊

APS期刊中包含17种同行评审期刊，涵盖所有物理学领域。



Physical Review Letters



Physical Review X



PRX Energy



PRX Life



PRX Quantum



Reviews of Modern Physics



Physical Review A



Physical Review B



Physical Review C



Physical Review D



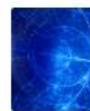
Physical Review E



Physical Review Research



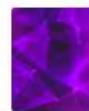
Physical Review Accelerators and Beams



Physical Review Applied



Physical Review Fluids



Physical Review Materials



Physical Review Physics Education Research

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



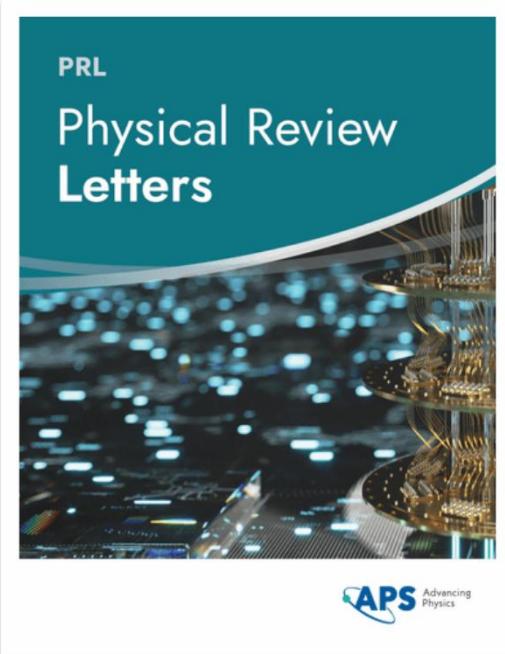
John J. Hopfield, Geoffrey E. Hinton

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》



2023 IF: 8.1

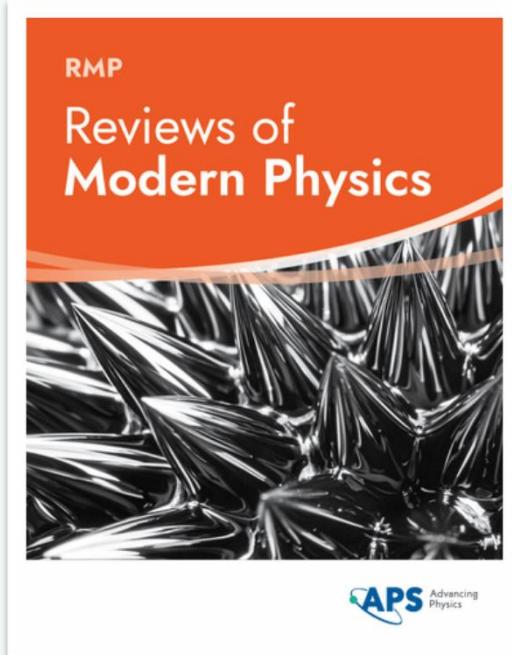
JCR分区: Q1

收录领域: 物理: 综合

被引次数: 492,874 (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》



2023 IF: 45.9 (领域 top1)

JCR分区: Q1

收录领域: 物理: 综合

被引次数: 57,818 (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

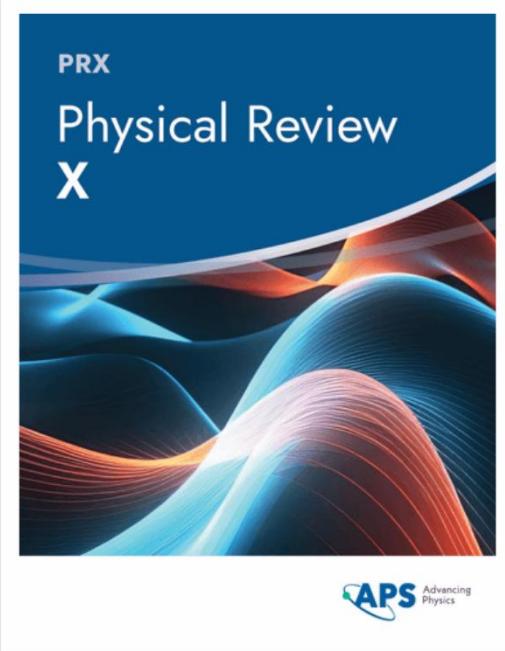
关注要点: 每本刊对应一个子领域。

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》



2023 IF: 11.6

JCR分区: Q1

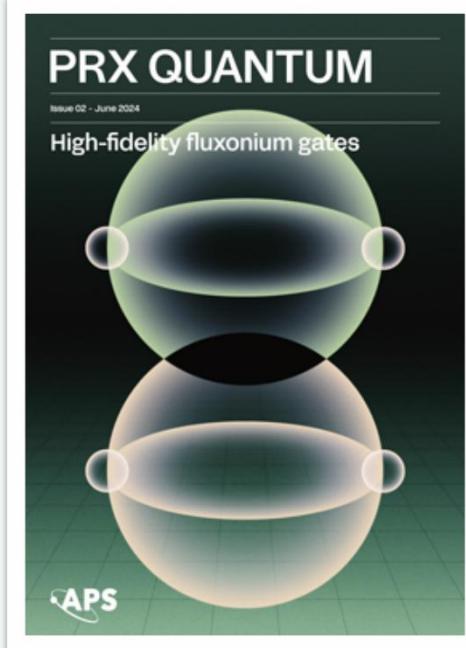
收录领域: 物理: 综合

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

2023 IF: 9.3 (量子科技领域 top1)

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

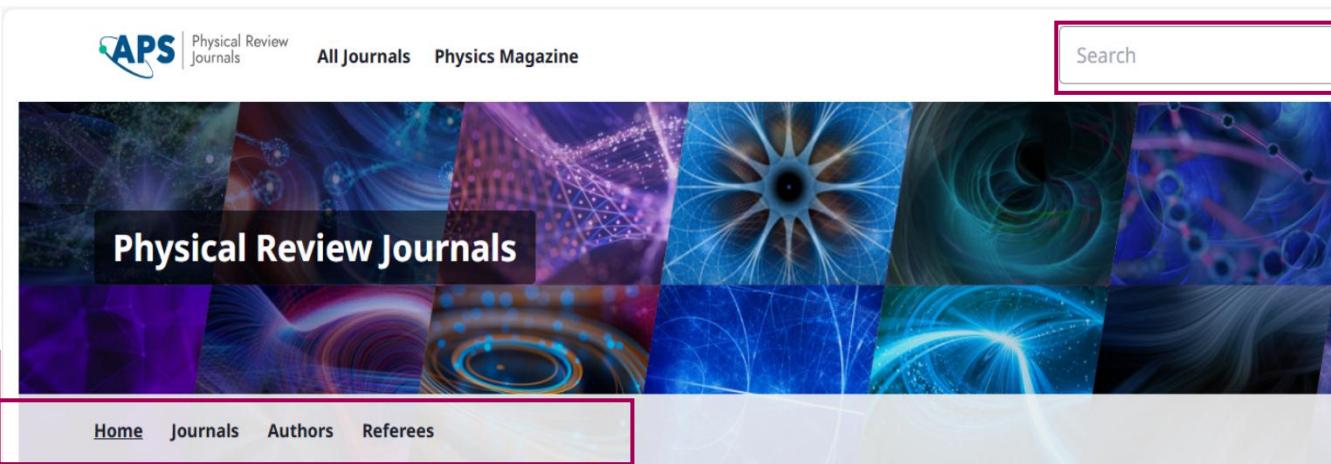
更新频率: 4期/年

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
- 文章处理费减免政策生效中, 截至24年12月31日

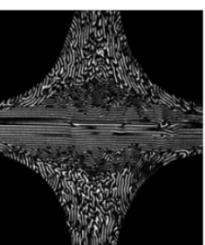
> [APS数据库主页](#) > 功能分区



APS Physical Review Journals All Journals Physics Magazine Search

Physical Review Journals

Home Journals Authors Referees



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学会通知

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.

> [APS数据库主页](#) > Journals

点击Journals
进入期刊主页

APS Physical Review Journals All Journals Physics Magazine

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

https://journals.aps.org/all_journals

Submit your article

Become a Referee

Email Alerts

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APS Physical Review Journals All Journals Physics Magazine Search Article Lookup Sign in

Current Journals

The Physical Review journals, encompassing both hybrid and fully Open Access titles, feature 17 international, peer-reviewed publications.

期刊快捷入口


Physical Review Letters
HYBRID ACCESS

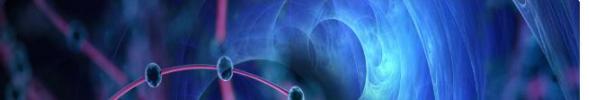
Physical Review Letters (PRL) is the premier APS journal for current research, providing rapid publication of short reports of important fundamental research in all fields of physics. PRL provides its diverse readership with weekly coverage of major advances in physics and cross-disciplinary developments.

[Explore Phys. Rev. Lett.](#)


Physical Review X
OPEN ACCESS

Physical Review X (PRX) is an online-only, fully open access, peer-reviewed journal that aims to publish, as timely as possible, exceptional original research papers from all areas of pure, applied, and interdisciplinary physics.

[Explore Phys. Rev. X](#)



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

汇聚全球资讯 助力学术科研

> [APS数据库主页](#) > 期刊主页

The screenshot shows the homepage of the Physical Review Letters website. At the top, there's a navigation bar with the APS logo, "Physical Review Journals", "All Journals", "Physics Magazine", a search bar, "Article Lookup", and a "Sign In" button. A marquee banner at the top right reads "期刊趋势" (Journal Trends) and "Trending in PRL". Below the banner, a section titled "期刊新闻" (Journal News) features a circular graphic with the text "PRL Nobel Prize winning research" and "PHYSICAL REVIEW LETTERS Nobel Prize winning research for 13 consecutive years". The main content area includes sections for "Subject Focus: Chemical Physics" (with a diagram of a molecular lattice), "50 Years of QCD" (with a Feynman diagram), and "Subject Focus: Polymers and Soft Matter" (with four small images of polymer structures). There are also links for "Highlights", "Recent", "Accepted", "Collections", "Authors", "Referees", "Press", "About", "Editorial Team", and "RSS". A red box highlights the "专题合集" (Special Collection) on the left.

••• APS平台检索-简单检索

The screenshot shows the APS Article Lookup page. At the top, there is a navigation bar with the APS logo, 'Physical Review Journals', 'All Journals', and 'Physics Magazine'. To the right of the navigation bar is a search bar with a magnifying glass icon and the text 'Search', followed by a 'Article Lookup' button. Below the search bar is a purple header bar with the text '简单检索 | 文章检索'. The main content area features a large banner with the text 'Physical Review Journals' and a decorative background of blue and purple fractal-like patterns. A central modal window titled 'Article Lookup' contains fields for 'Enter a citation' (with a sample value 'Phys. Rev. Lett. 111, 012345') and 'Paste a citation or DOI'. It also includes dropdown menus for 'Journal' (set to 'Phys. Rev. Lett.') and 'Volume', and input fields for 'Article ID / page number' and 'Volume ID / page number'. Two 'Lookup Article' buttons are present. At the bottom of the page, there are links for 'Issue 22 Table of Contents' and 'More Covers' on the left, and an 'Email Alerts' section with a 'Sign Up' button on the right.

- 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

All Journals Physics Magazine

Search

高级检索入口

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

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

检索结果

汇聚全球资讯 助力学术科研

●●● 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)

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 ▾

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 ▾

●●● APS文章页面

> 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

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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>

文献发表历史

DOI

Export Citation

Show metrics

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)

文章详情

Outline Information

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

Reuse & Permissions

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

Check for updates

查看更新

CrossMark

Document is current

Any future updates will be listed below

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
License Information

Crossref

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Outline Information

文章大纲

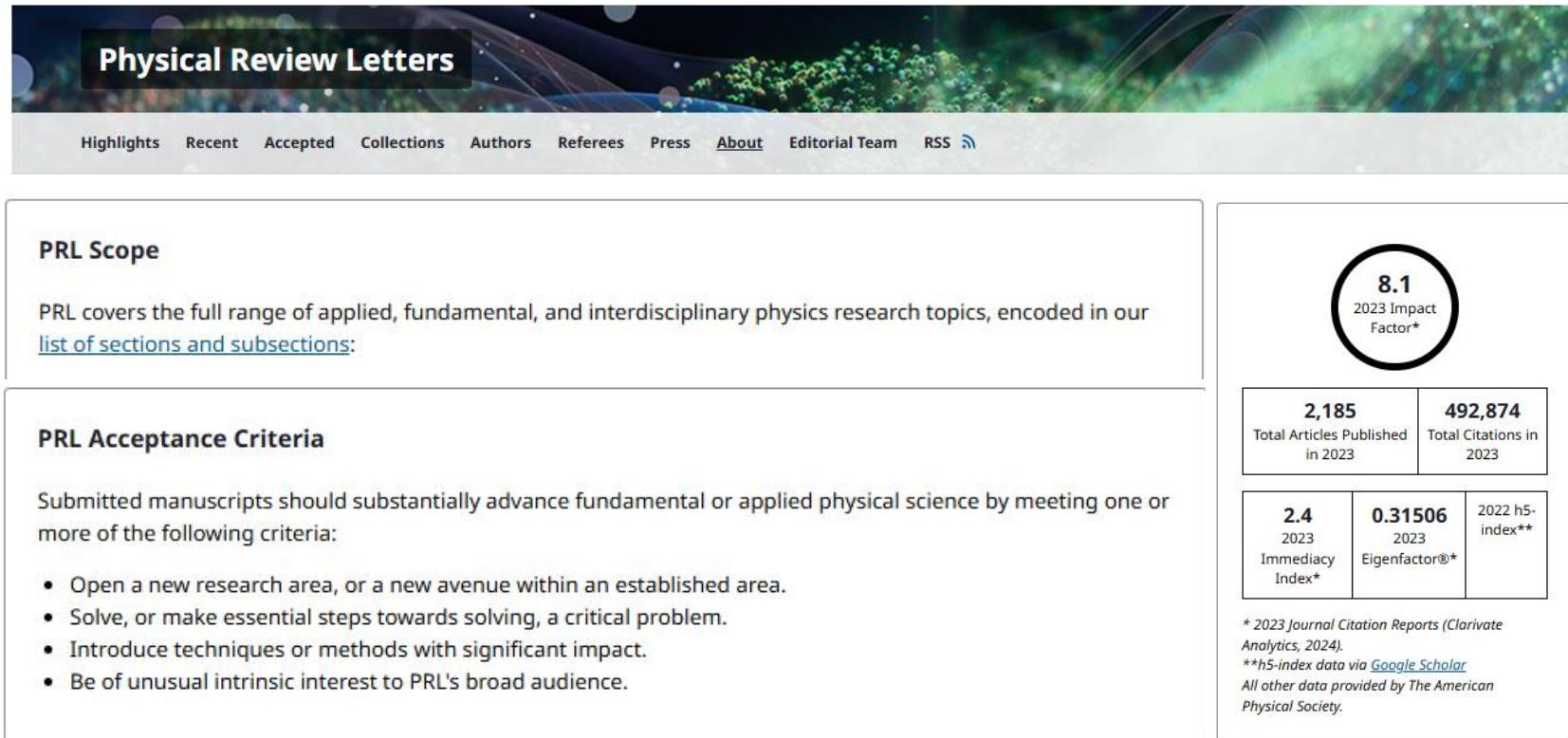
Abstract Article Text Supplemental Material References

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Detailed description of the right sidebar content (from top to bottom):
- A "CrossMark" logo with a checkmark icon.
- A large green box containing the text "Document is current" and "Any future updates will be listed below".
- Below this box, detailed article metadata is listed:
 - Title: Mirror Symmetry in Three-Dimensional Multiple-Scattering Media
 - DOI: https://doi.org/10.1103/PhysRevLett.133.223802
 - Published Online: 2024-11-26
 - Update policy: https://doi.org/10.1103/crossmark-policy
- Three expandable sections:
 - "Authors" (with a "View profile" button)
 - "Funding" (with a "View details" button)
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APS期刊投稿概要



Physical Review Letters

Highlights Recent Accepted Collections Authors Referees Press About Editorial Team RSS 

PRL Scope

PRL covers the full range of applied, fundamental, and interdisciplinary physics research topics, encoded in our [list of sections and subsections](#):

PRL Acceptance Criteria

Submitted manuscripts should substantially advance fundamental or applied physical science by meeting one or more of the following criteria:

- Open a new research area, or a new avenue within an established area.
- Solve, or make essential steps towards solving, a critical problem.
- Introduce techniques or methods with significant impact.
- Be of unusual intrinsic interest to PRL's broad audience.

8.1
2023 Impact Factor*

2,185	492,874
Total Articles Published in 2023	Total Citations in 2023

2.4	0.31506	2022 h5-index**
2023 Immediacy Index*	2023 Eigenfactor®*	2022 h5-index**

* 2023 Journal Citation Reports (Clarivate Analytics, 2024).
**h5-index data via [Google Scholar](#).
All other data provided by The American Physical Society.

期刊匹配度
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接收标准

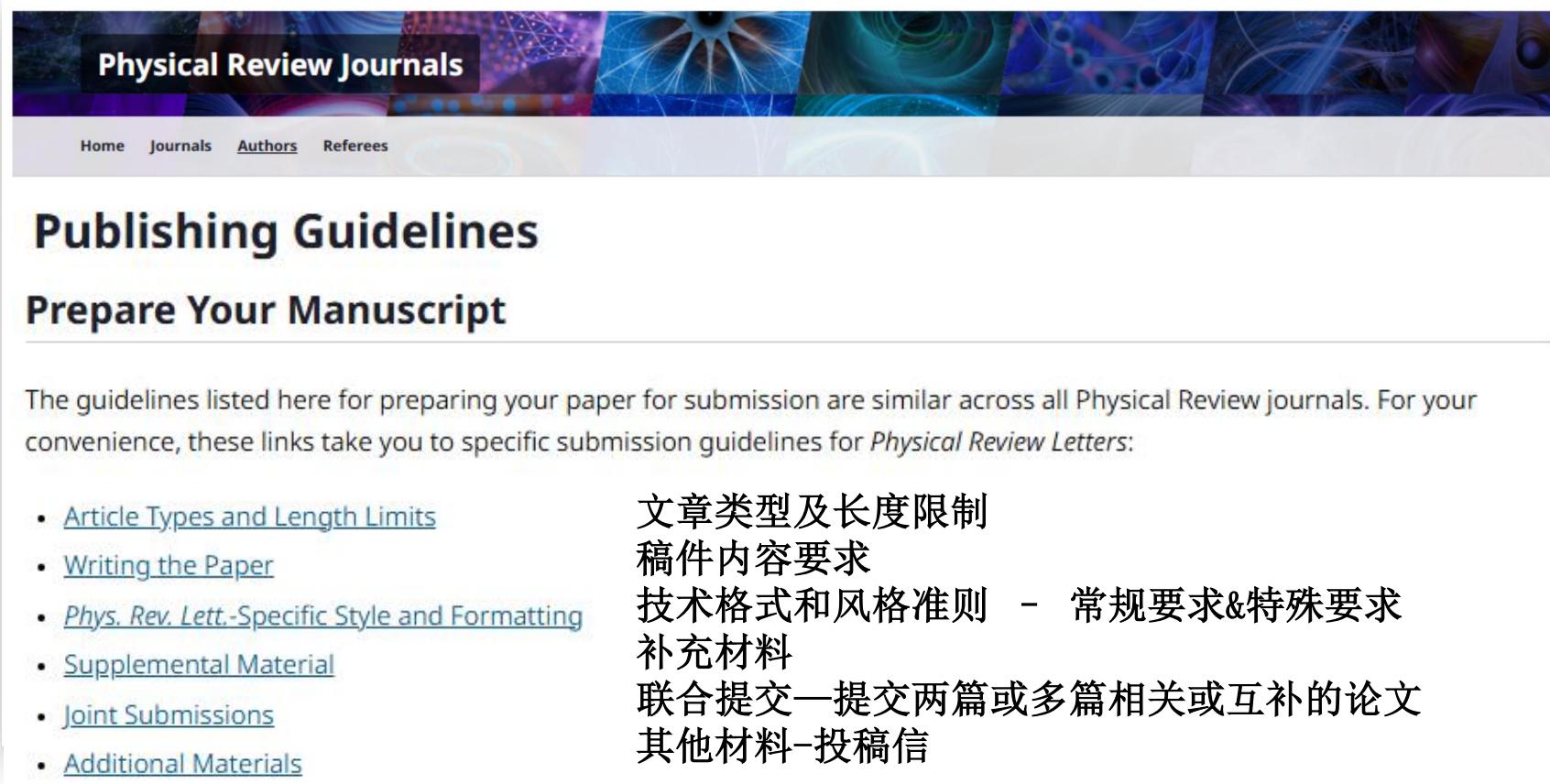
期刊影响力
影响因子
发文篇数
被引次数

...



APS期刊投稿概要

> APS数据库主页 > [Authors](#)



Physical Review Journals

Home Journals Authors Referees

Publishing Guidelines

Prepare Your Manuscript

The guidelines listed here for preparing your paper for submission are similar across all Physical Review journals. For your convenience, these links take you to specific submission guidelines for *Physical Review Letters*:

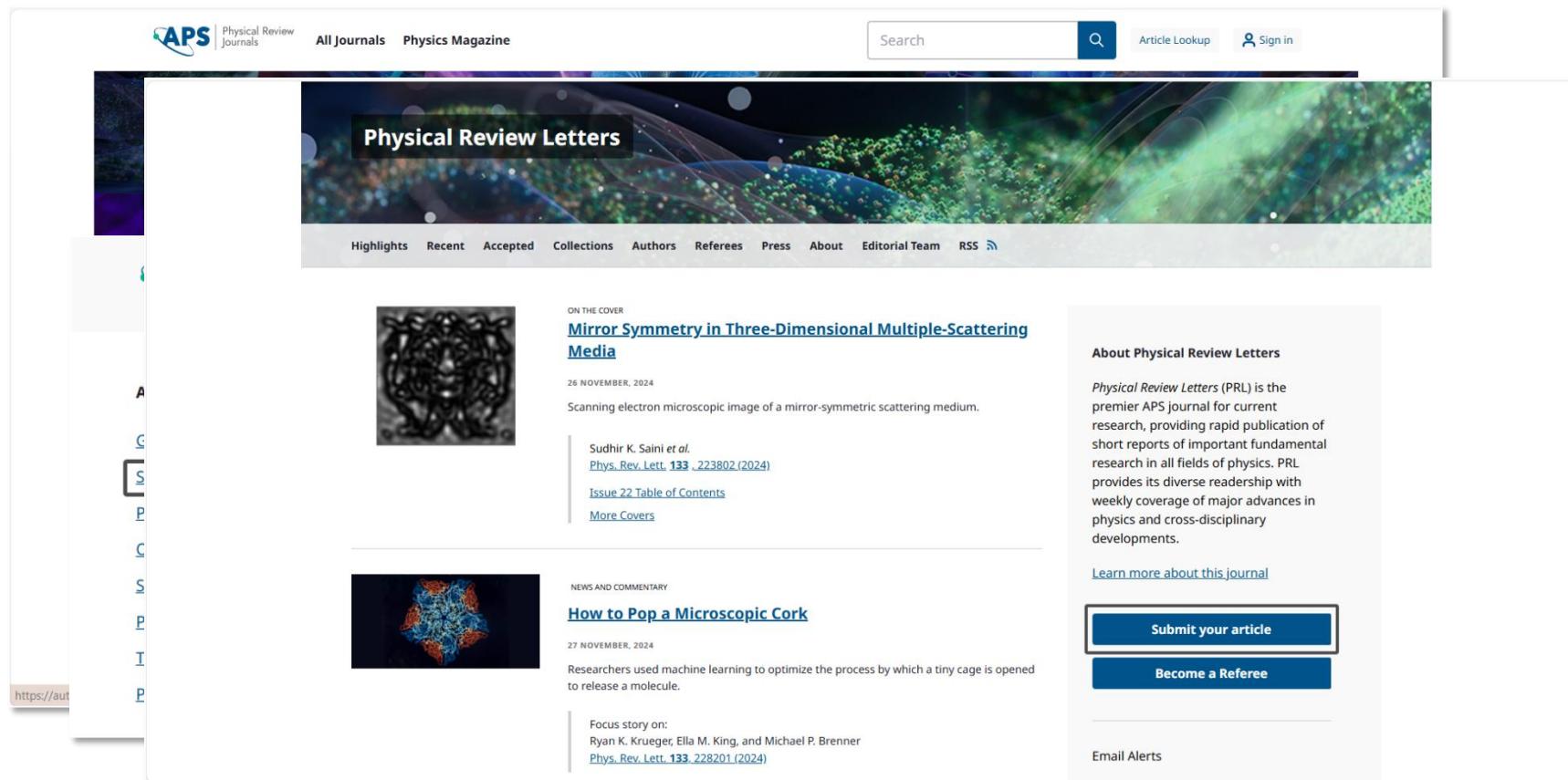
- [Article Types and Length Limits](#)
- [Writing the Paper](#)
- [Phys. Rev. Lett.-Specific Style and Formatting](#)
- [Supplemental Material](#)
- [Joint Submissions](#)
- [Additional Materials](#)

文章类型及长度限制
稿件内容要求
技术格式和风格准则 - 常规要求&特殊要求
补充材料
联合提交—提交两篇或多篇相关或互补的论文
其他材料-投稿信



APS期刊投稿概要

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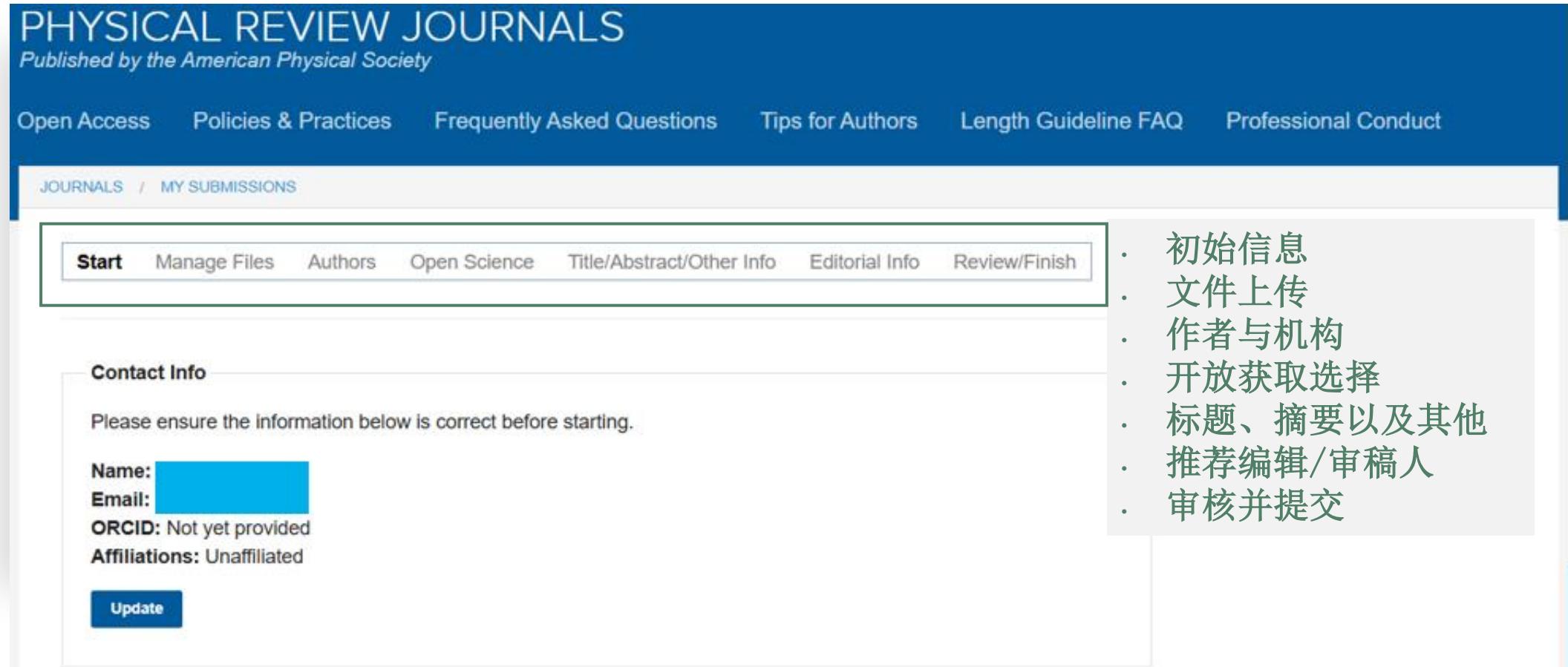


The screenshot shows the homepage of Physical Review Letters. At the top, there's a navigation bar with the APS logo, "Physical Review Journals", "All Journals", and "Physics Magazine". A search bar, article lookup, and sign-in links are also present. The main banner features a green and blue abstract image with the text "Physical Review Letters". Below the banner, a navigation menu includes "Highlights", "Recent", "Accepted", "Collections", "Authors", "Referees", "Press", "About", "Editorial Team", "RSS", and a Wi-Fi icon. The "ON THE COVER" section displays a scanning electron microscopic image of a mirror-symmetric scattering medium. It includes the title "Mirror Symmetry in Three-Dimensional Multiple-Scattering Media", the date "26 NOVEMBER, 2024", author information ("Sudhir K. Saini et al.", "Phys. Rev. Lett. 133, 223802 (2024)"), and links to "Issue 22 Table of Contents" and "More Covers". The "NEWS AND COMMENTARY" section features an image of a molecular structure and the title "How to Pop a Microscopic Cork". It includes the date "27 NOVEMBER, 2024", a brief description of the research, and a "Focus story on" section about Ryan K. Krueger, Ella M. King, and Michael P. Brenner. On the right side, there's a sidebar with letters "A", "C", "P", "C", "S", "P", "I", "P" and a URL "https://aut...". A large blue button at the bottom right says "Submit your article". Other buttons include "Become a Referee" and "Email Alerts".



APS期刊投稿概要

> APS数据库主页 > [投稿入口](#) > 投稿流程



The screenshot shows the submission process on the APS Physical Review Journals website. The top navigation bar includes links for Open Access, Policies & Practices, Frequently Asked Questions, Tips for Authors, Length Guideline FAQ, and Professional Conduct. The current page is 'JOURNALS / MY SUBMISSIONS'. A sub-navigation bar at the top of the form includes 'Start', 'Manage Files', 'Authors', 'Open Science', 'Title/Abstract/Other Info', 'Editorial Info', and 'Review/Finish'. The main content area is titled 'Contact Info' and contains fields for Name, Email, ORCID, and Affiliations, all of which are currently set to 'Not yet provided' or 'Unaffiliated'. A blue 'Update' button is located at the bottom of this section. To the right of the contact info, a vertical list of steps is shown:

- 初始信息
- 文件上传
- 作者与机构
- 开放获取选择
- 标题、摘要以及其他
- 推荐编辑/审稿人
- 审核并提交



Thank you