

APS

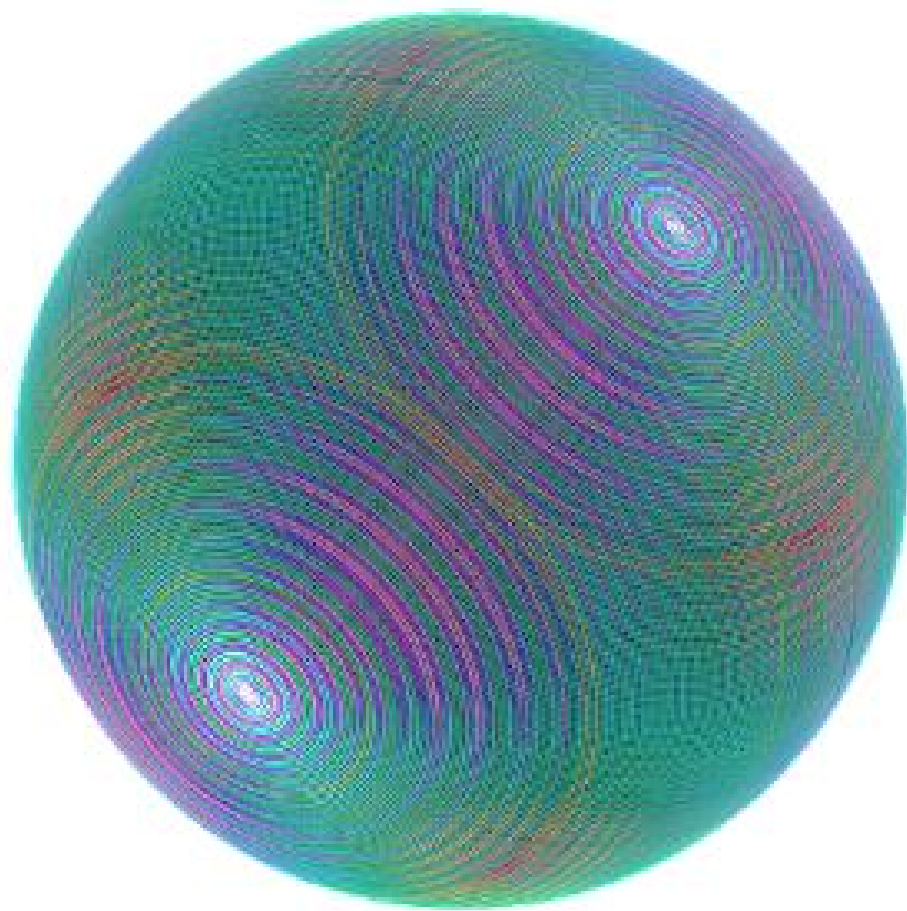
美国物理学会数据库 使用指南

2025

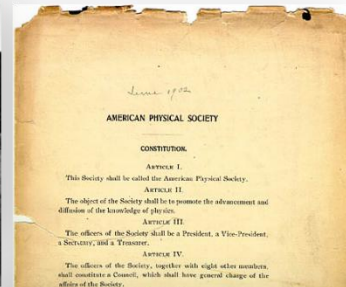
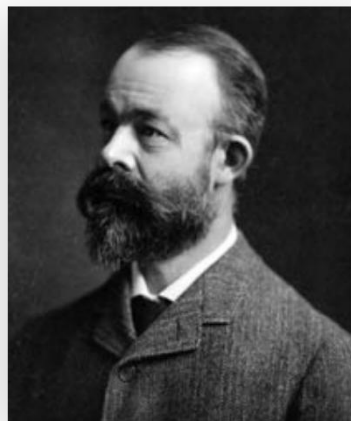


目录

- 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

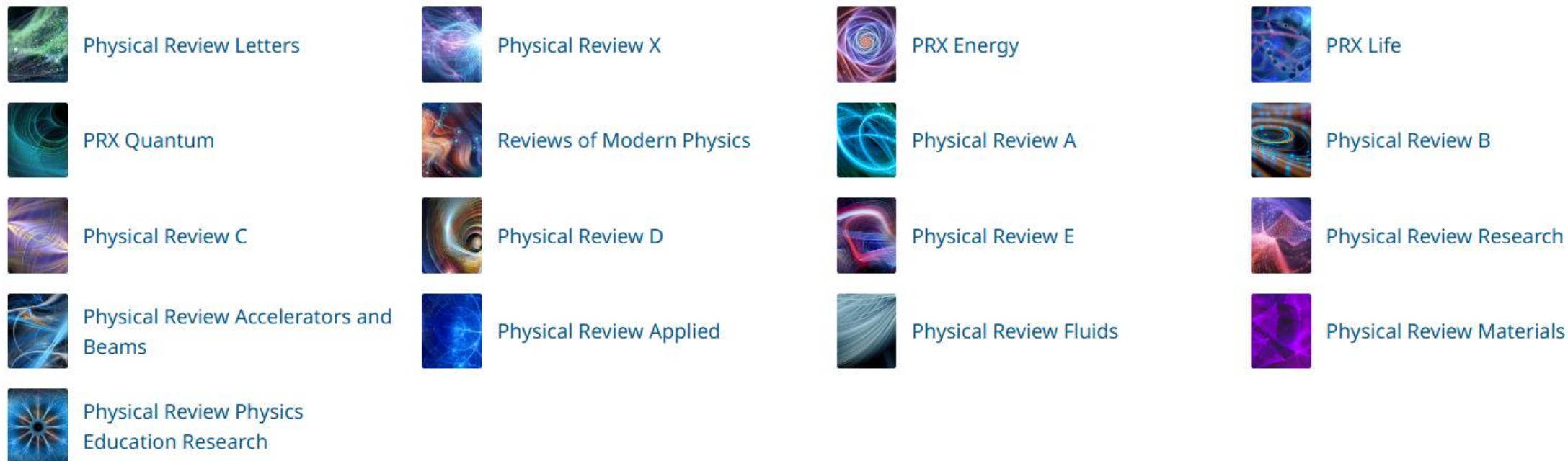
 > APS Publication > Journals

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。



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



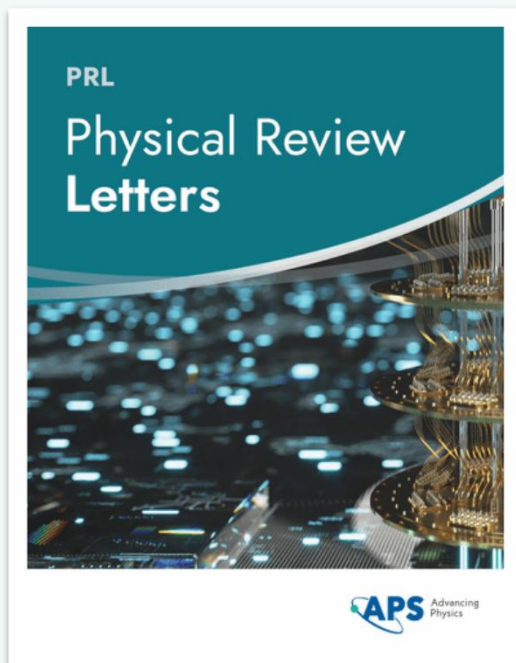
John J. Hopfield, Geoffrey E. Hinton

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

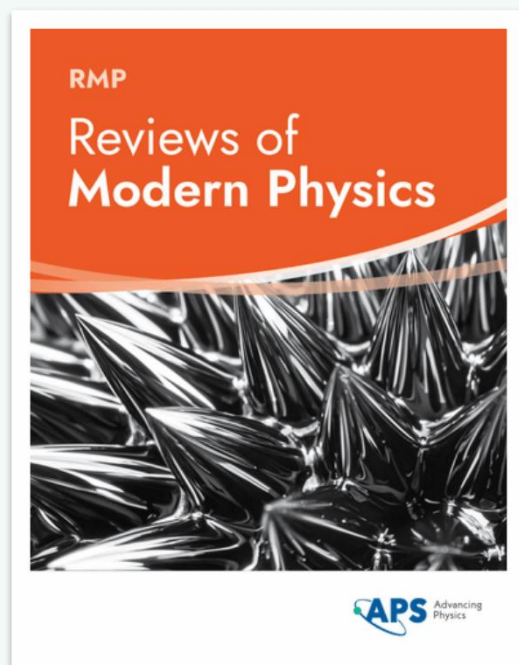
JCR分区: Q1

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。

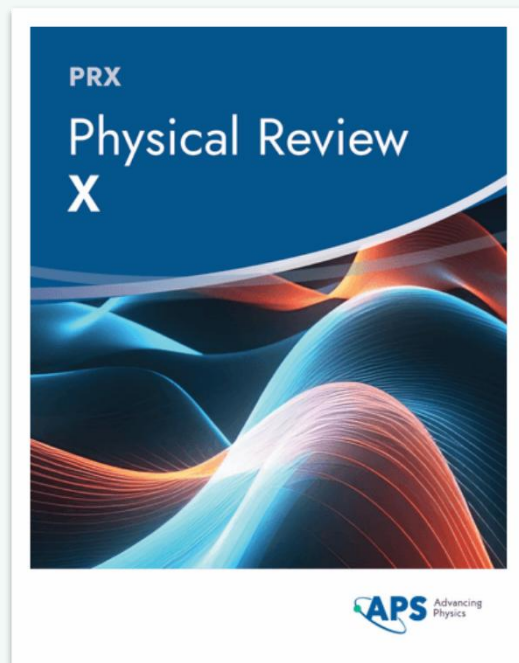
PRA: 原子、分子和光物理; PRB: 凝聚态物理与材料物理

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

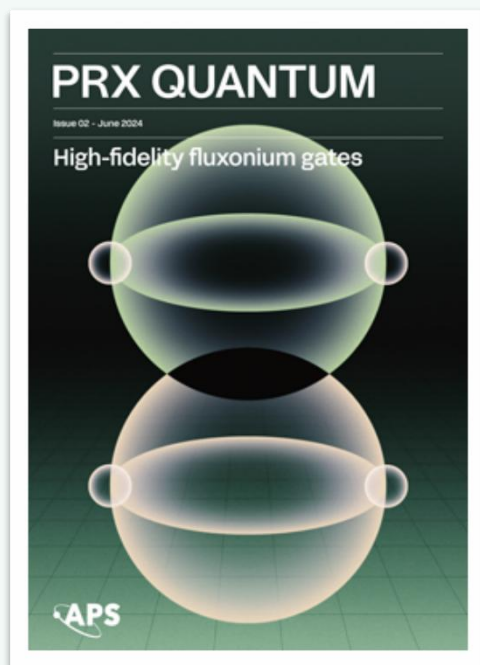
收录领域: 物理: 综合

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

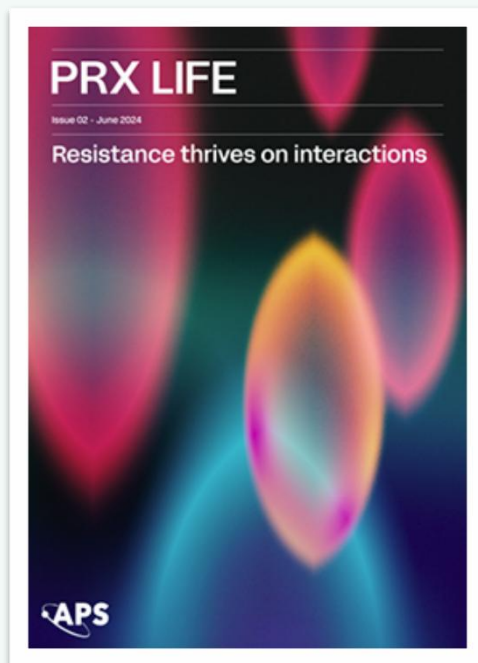
2023 IF：9.3（量子科技领域 top1）

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

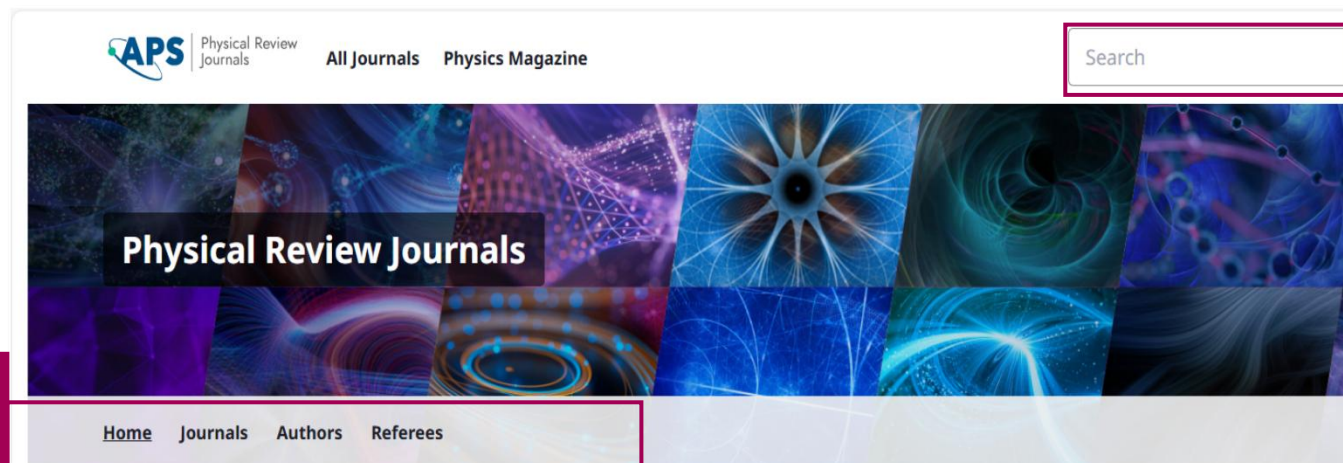
创刊目的：发表物理学和生物学领域最重要的发现，
弥合物理科学和生命科学之间的鸿沟

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
- 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

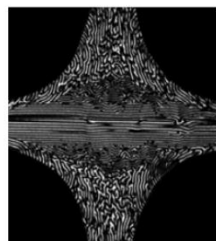
Physical Review A (PRA) is looking for a new part-time Associate Editor with international scientific standing in the area of quantum science to join our editorial team and become part of the stimulating academic endeavor to bring high-quality papers to our readership.

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.

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](#)

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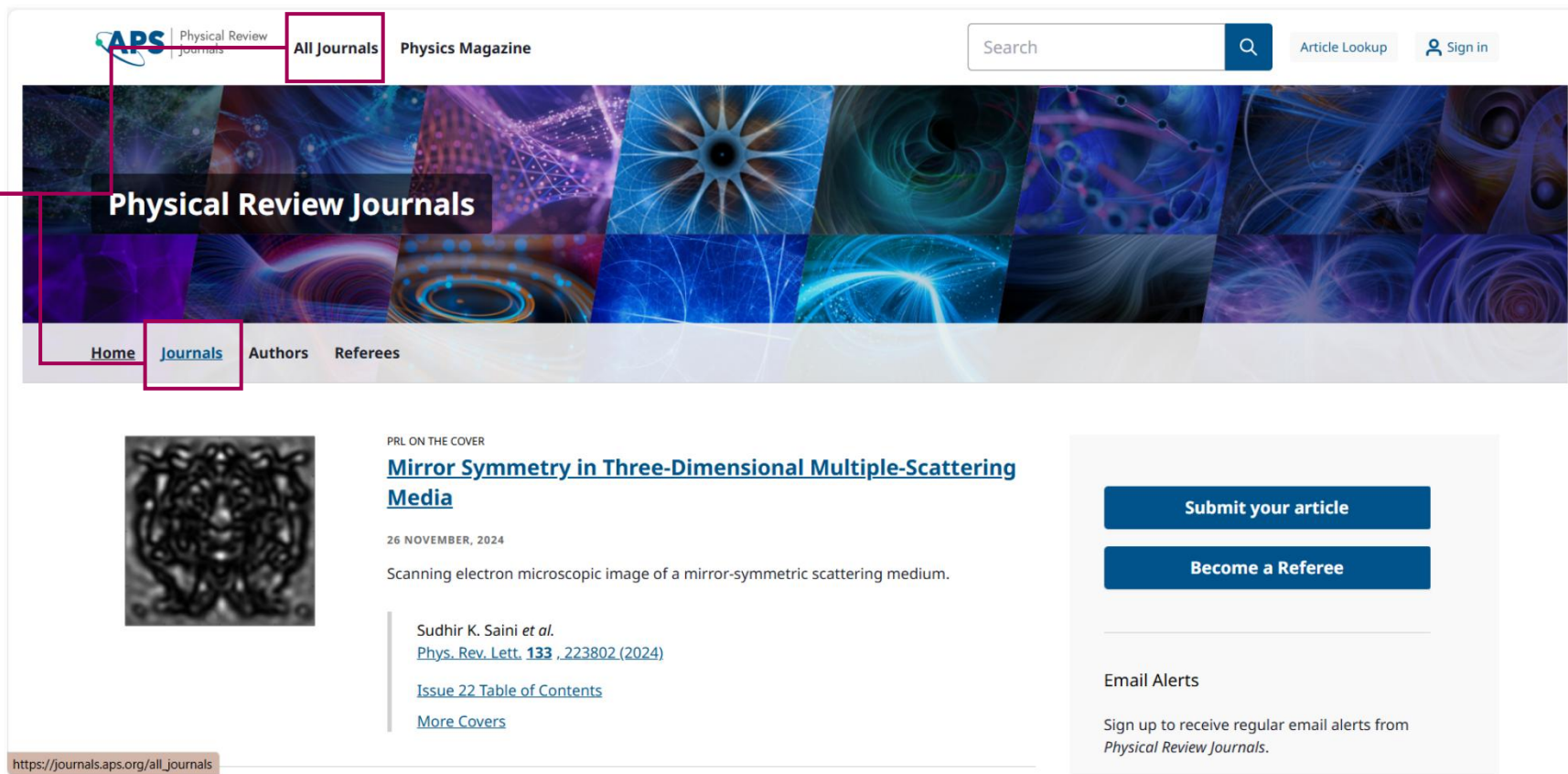
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> [APS数据库主页](#) > Journals

点击Journals
进入期刊主页



The screenshot shows the APS Journals homepage. A red box highlights the 'All Journals' link in the top navigation bar. Another red box highlights the 'Journals' link in the bottom navigation bar. A red line connects the 'Journals' link to a text box on the left that says '点击Journals 进入期刊主页'. The main banner features the text 'Physical Review Journals' over a colorful abstract background. Below the banner, there is a featured article section titled 'PRL ON THE COVER' with the article 'Mirror Symmetry in Three-Dimensional Multiple-Scattering Media' by Sudhir K. Saini et al. The article is dated 26 NOVEMBER, 2024. To the right of the article, there are two buttons: 'Submit your article' and 'Become a Referee'. At the bottom left, the URL 'https://journals.aps.org/all_journals' is displayed.

APS Physical Review Journals

All Journals Physics Magazine

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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 \(2024\)](#)

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期刊快捷入口

 Physical Review Journals

All JournalsPhysics Magazine

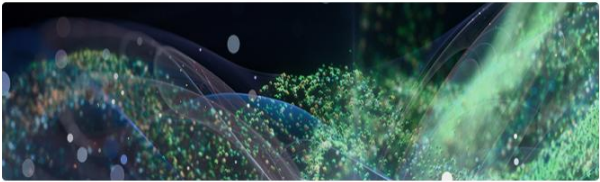
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Current Journals

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




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.




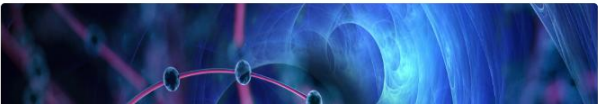
Physical Review X

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





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文章类型
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[期刊主页](#)

期刊趋势

期刊新闻

专题合集


[All Journals](#)
[Physics Magazine](#)

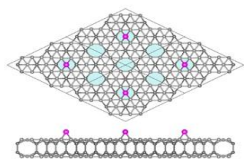
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Physical Review Letters

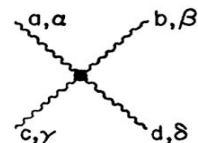
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[刚发表的文献](#)
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[专题合集](#)
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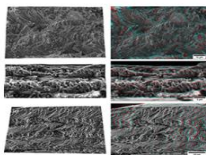
Subject Focus: Chemical Physics

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

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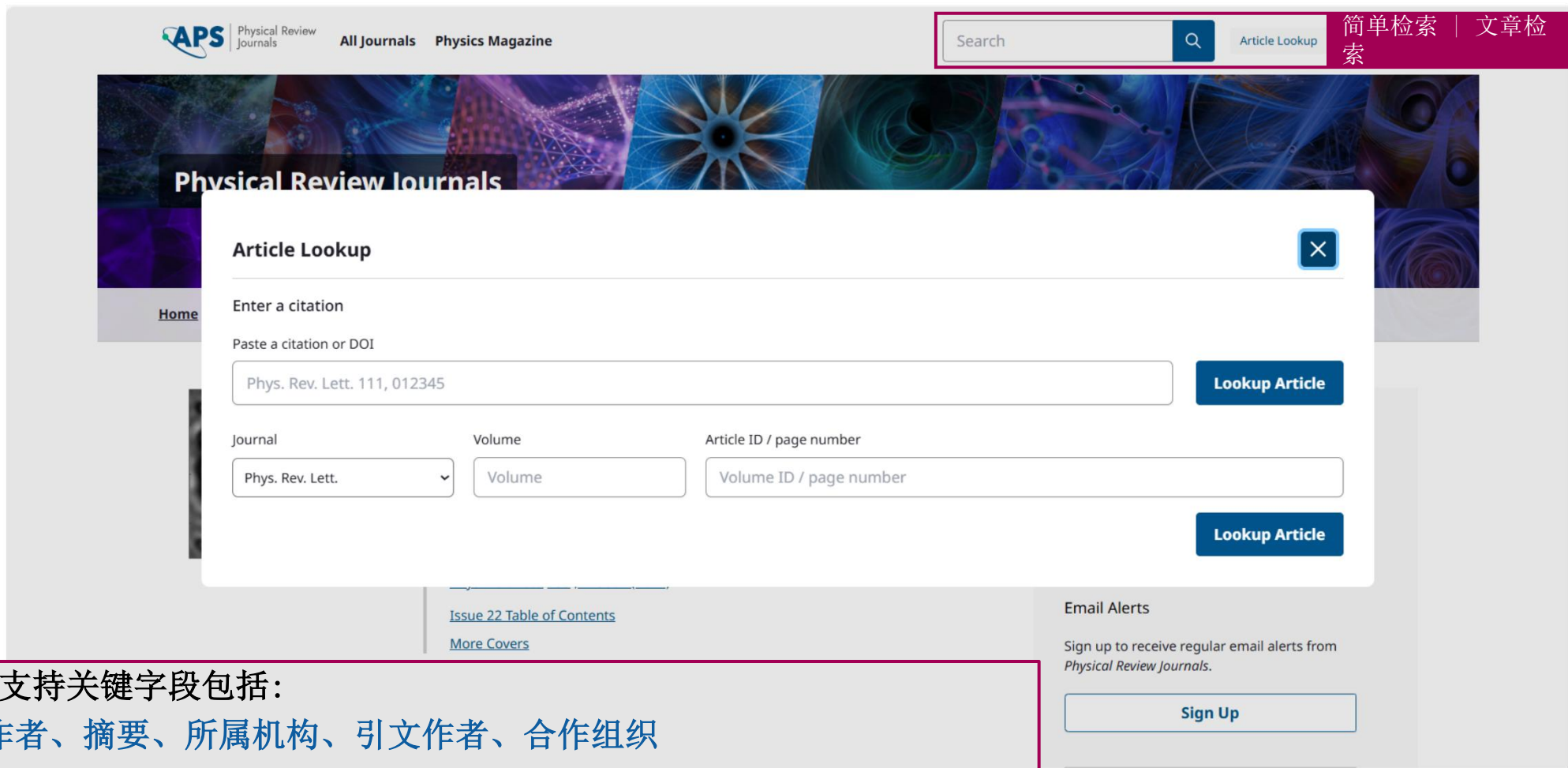
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PRL Nobel Prize winning research



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.



The screenshot displays the APS Physical Review 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 located in the top right corner, with a "Search" button and a link to "Article Lookup". Below the navigation bar is a banner for "Physical Review Journals". The main content area features a white "Article Lookup" modal window. This window has a title bar with a close button. Inside, there is a section titled "Enter a citation" with a text input field containing "Phys. Rev. Lett. 111, 012345" and a "Lookup Article" button. Below this, there is a section titled "Paste a citation or DOI" with a text input field containing "Phys. Rev. Lett. 111, 012345" and a "Lookup Article" button. At the bottom of the modal, there are three input fields: "Journal" (a dropdown menu showing "Phys. Rev. Lett."), "Volume" (a text input field containing "Volume"), and "Article ID / page number" (a text input field containing "Volume ID / page number"). Each of these fields has a "Lookup Article" button next to it. Below the modal, there are links for "Issue 22 Table of Contents" and "More Covers". In the bottom right corner, there is an "Email Alerts" section with a "Sign Up" button.

APS Physical Review Journals All Journals Physics Magazine

Search Article Lookup

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Physical Review Journals

Article Lookup

Enter a citation

Paste a citation or DOI

Phys. Rev. Lett. 111, 012345

Lookup Article

Journal Volume Article ID / page number

Phys. Rev. Lett. Volume Volume ID / page number

Lookup Article

Issue 22 Table of Contents

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Sort By

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Most Relevant

10 results

20 results

50 results

Any time

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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)

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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)

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Mirror Symmetry in Three-Dimensional Multiple-Scattering Media

[Sudhir K. Saini](#)¹, [Evangelos Marakis](#)^{1,2}, [Kayleigh Start](#)¹, [Gerwin Osnabrugge](#)¹, [Ivo M. Vellekoop](#)¹, and [Pepijn W. H. Pinkse](#)¹


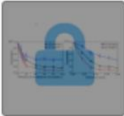
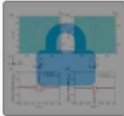

Hide

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>

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 mediaNanophotonicsOptical materials & elementsPolarization of light

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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

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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>

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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 = (10.1103/PhysRevLett.133.223802).

Document is current

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Mirror Symmetry in Three-Dimensional Multiple-Scattering Media

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Published Online: 2024-11-26

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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*

<div>2,185</div> <div>Total Articles Published in 2023</div>	<div>492,874</div> <div>Total Citations in 2023</div>
<div>2.4</div> <div>2023 Immediacy Index*</div>	<div>0.31506</div> <div>2023 Eigenfactor@*</div>

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.

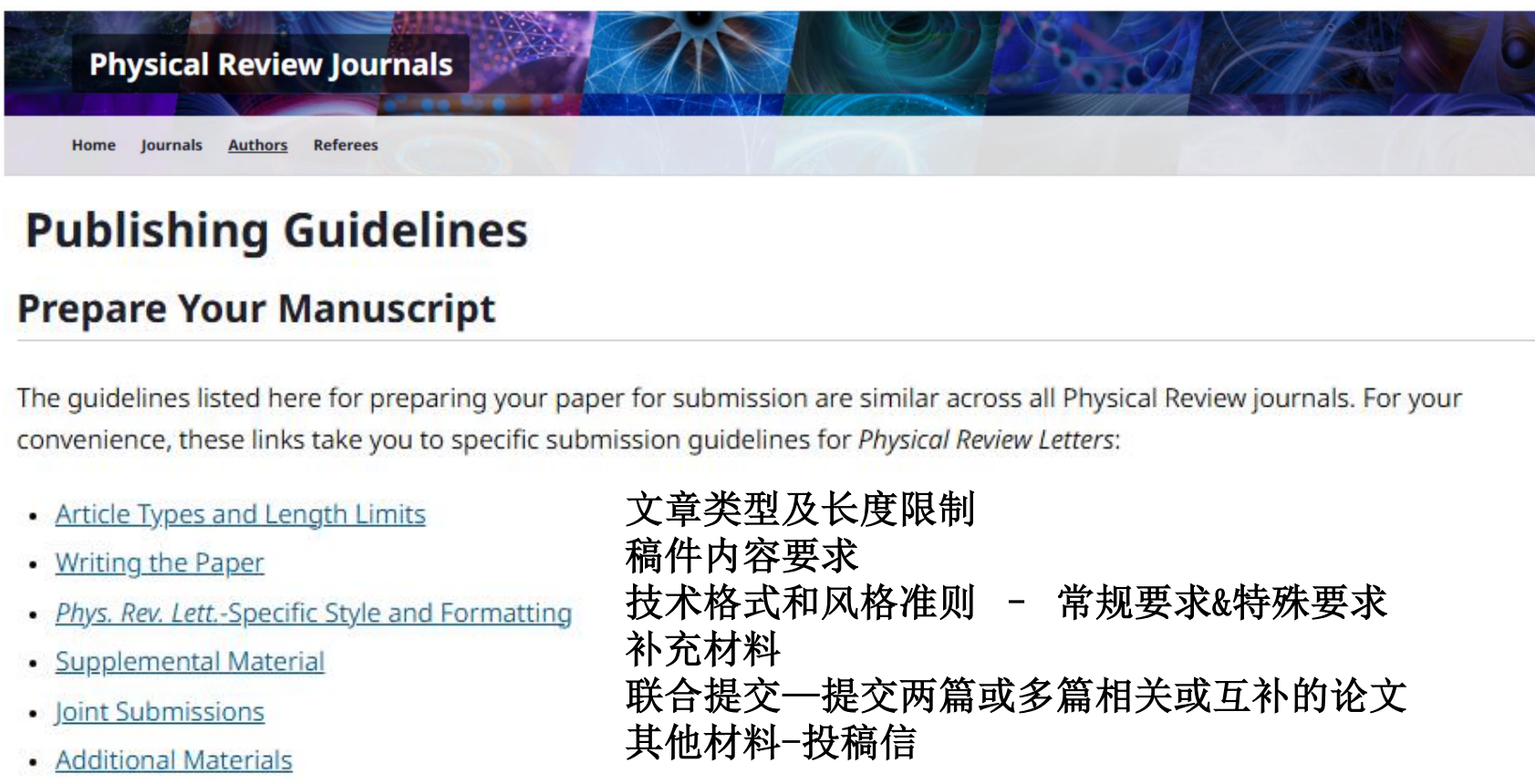
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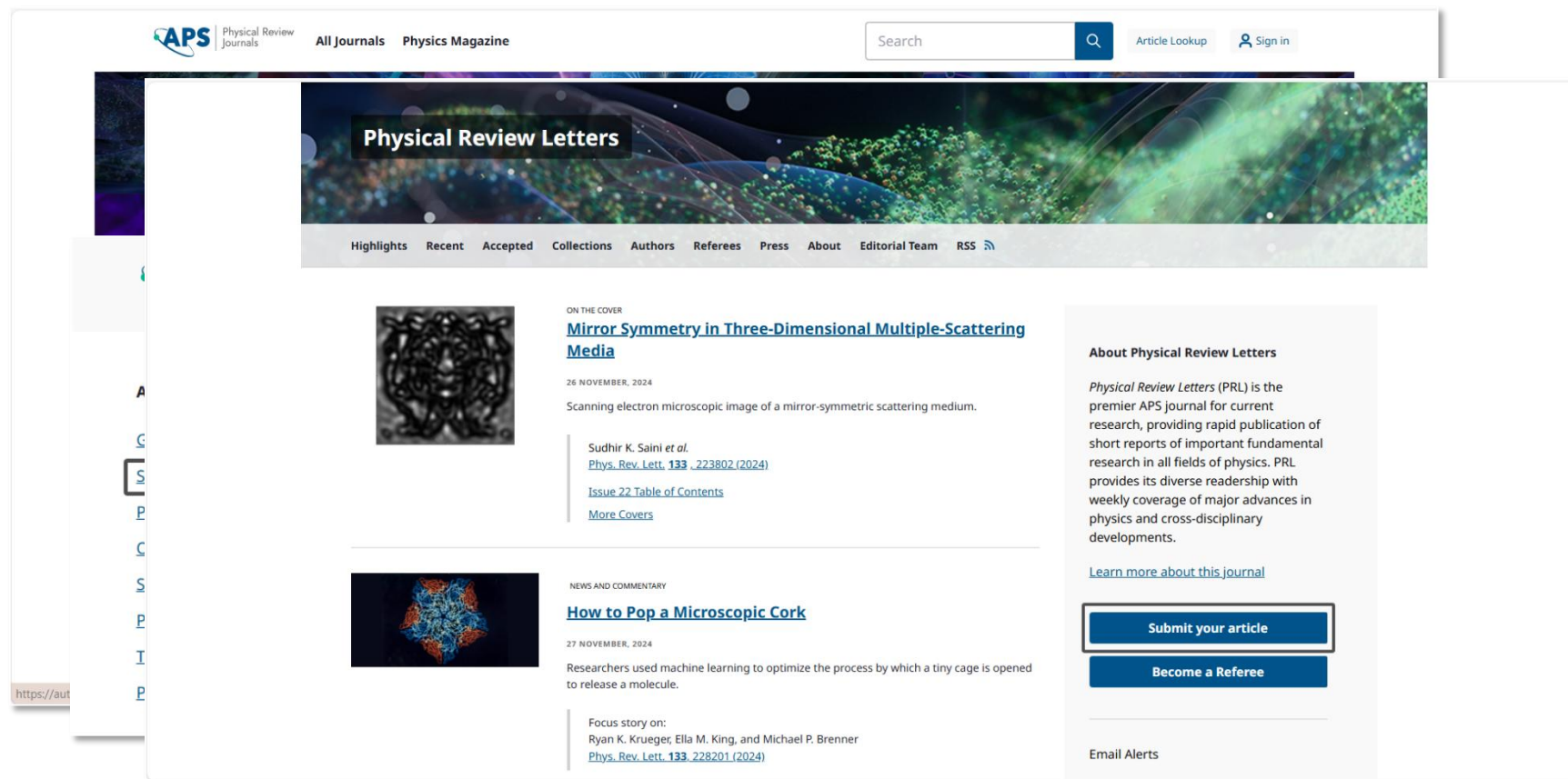
The guidelines listed here for preparing your paper for submission are similar across all Physical Review journals. For your convenience, these links take you to specific submission guidelines for *Physical Review Letters*:

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The screenshot displays the APS Physical Review Letters website. At the top, there is a navigation bar with the APS logo, 'Physical Review Journals', and links to 'All Journals' and 'Physics Magazine'. A search bar and links for 'Article Lookup' and 'Sign in' are also present. Below the navigation bar is a large banner for 'Physical Review Letters' with a colorful abstract image. Underneath the banner is a horizontal menu with links: Highlights, Recent, Accepted, Collections, Authors, Referees, Press, About, Editorial Team, and RSS. The main content area features two articles. The first article, 'Mirror Symmetry in Three-Dimensional Multiple-Scattering Media', is dated 26 NOVEMBER, 2024, and includes a scanning electron microscopic image. The second article, 'How to Pop a Microscopic Cork', is dated 27 NOVEMBER, 2024, and includes a microscopic image of a cork. To the right of the articles is a sidebar with the title 'About Physical Review Letters', a brief description of the journal, a link to 'Learn more about this journal', and two prominent buttons: 'Submit your article' and 'Become a Referee'. At the bottom of the sidebar is a link for 'Email Alerts'.

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