

美国物理学会

全文数据库

2022/07



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APS学会、资源内容
及品质说明



APS数据库使用

APS平台简介、功能演示



APS投稿

投稿要点提示



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APS投稿

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APS 美国物理学会

American Physical Society

- 成立于1899年5月，世界上最具声望的物理学专业学会之一
- APS出版的所有物理评论系列期刊分别是各专业领域最受尊重、被引用次数最多的科技期刊之一，在全球物理学界及相关学科领域的研究者中具有极高的声望
- APS提供全部回溯文献，数据最早回溯到1893年

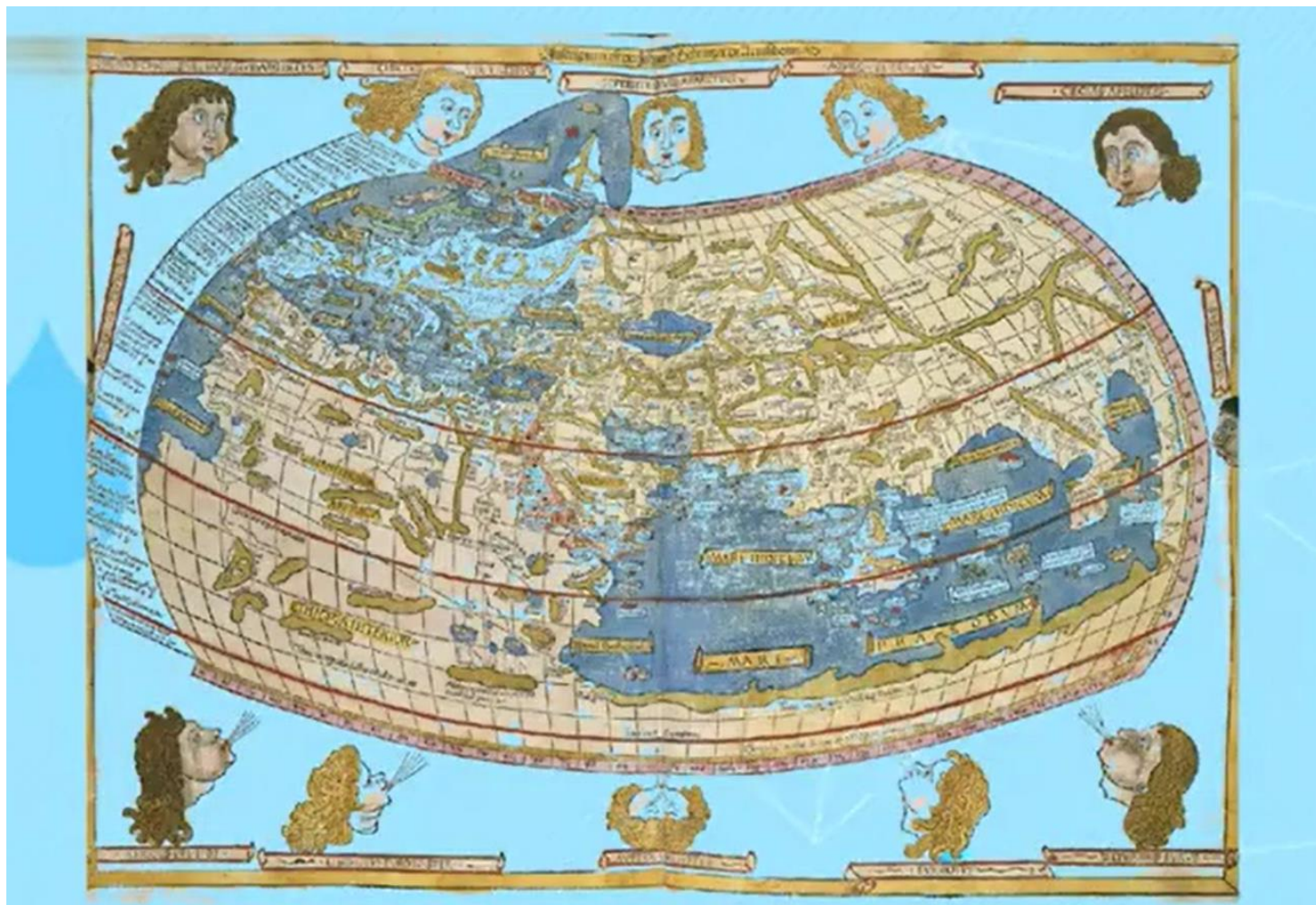


The screenshot shows the APS website homepage. At the top, there is a navigation bar with links for "American Physical Society Sites", "APS", "Journals", "PhysicsCentral", and "Physics". Below this is a search bar and a "Search" button. A secondary navigation bar includes "Become a Member" and "Contact Us". The main navigation menu features categories: "Publications", "Meetings & Events", "Programs", "Membership", "Policy & Advocacy", "Careers in Physics", and "About APS".

The main content area is divided into several sections:

- Physicists & Other Scientists**: A vertical list of categories including "Physicists & Other Scientists", "Physics Enthusiasts", "Policy Makers", "Media", "Students & Educators", and "Librarians".
- Quick Links**: A list of links including "APS Journals", "APS Member Directory", "APS Units", "Meetings Calendar", "Submit an Abstract", "Physics Job Center", and "APS Online Store".
- APS in the News**: A section titled "Icicle Atlas" dated March 10, 2014, with a brief description and links to "Article: Live Science" and "Abstract: APS March Meeting 2014".
- New Webpage on APS Corporate Reform**: A section featuring a photo of a man and text about a new webpage for the APS Corporate Reform initiative, with a "Read More" link.
- APRIL MEETING 2014**: A large graphic for the April Meeting 2014, featuring the APS logo and a stylized diagram of a particle detector.

现代物理发源于欧洲



赫兹



伦琴 (德)



居里夫人 (法)

国内版

国际版

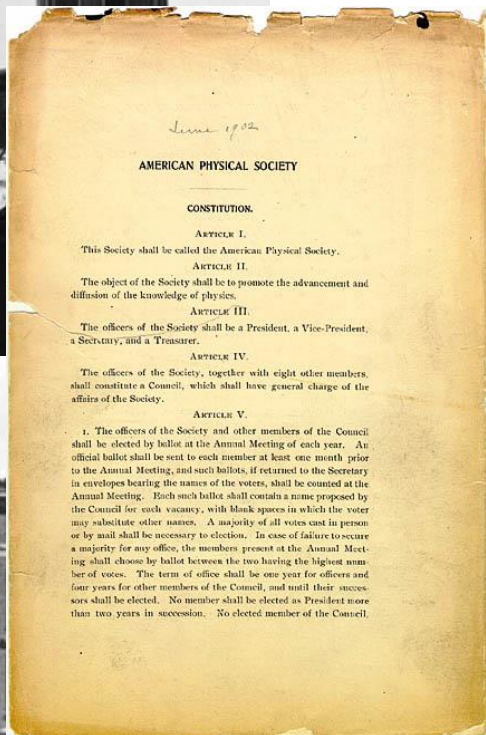
十九世纪 美国 物理学



404

你似乎来到了没有知识存在的荒原





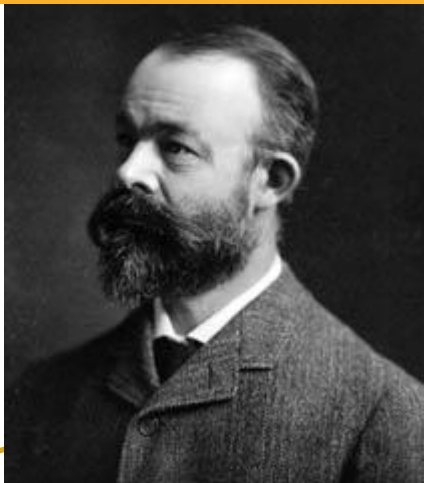
1899年5月20日，36名物理学家聚集在哥伦比亚大学，创建了APS。

此时只有每年4次的物理会议

近年来APS会员已经遍及全球，是最具声望的物理学专业学会之一。其收录内容非常广泛，覆盖了所有物理子学科。

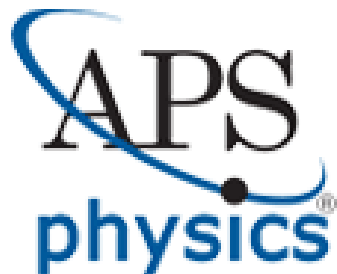
通过项目合作扩大科学服务，更广泛的发展和传播物理学知识。

学会使命：
推动物理学知识的发展和传播
Arthur Webster在哥伦比亚大学（图示）
组织了APS的首次会议

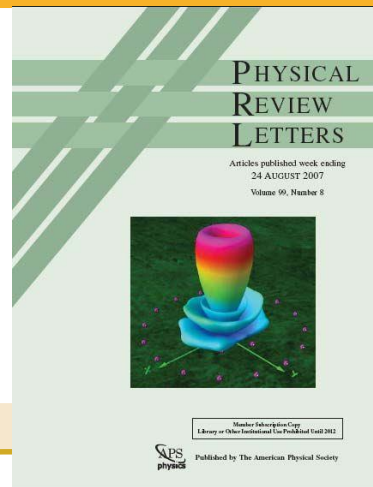


1893年, Edward L. Nichols在康奈尔大学创立了*Physical Review*期刊。

第一期就长达80页。



1913年, APS接手*Physical Review*期刊

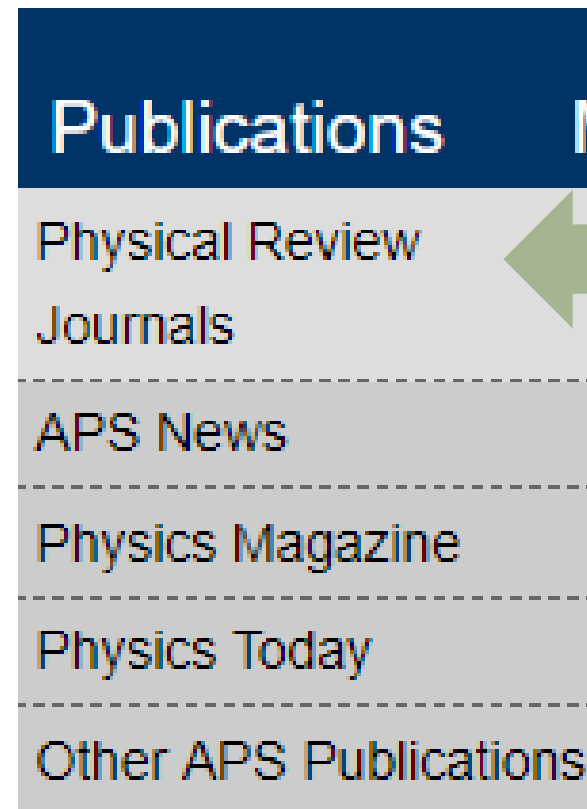


其后发展出Physical Review Letters、Reviews of Modern Physics等重要刊物

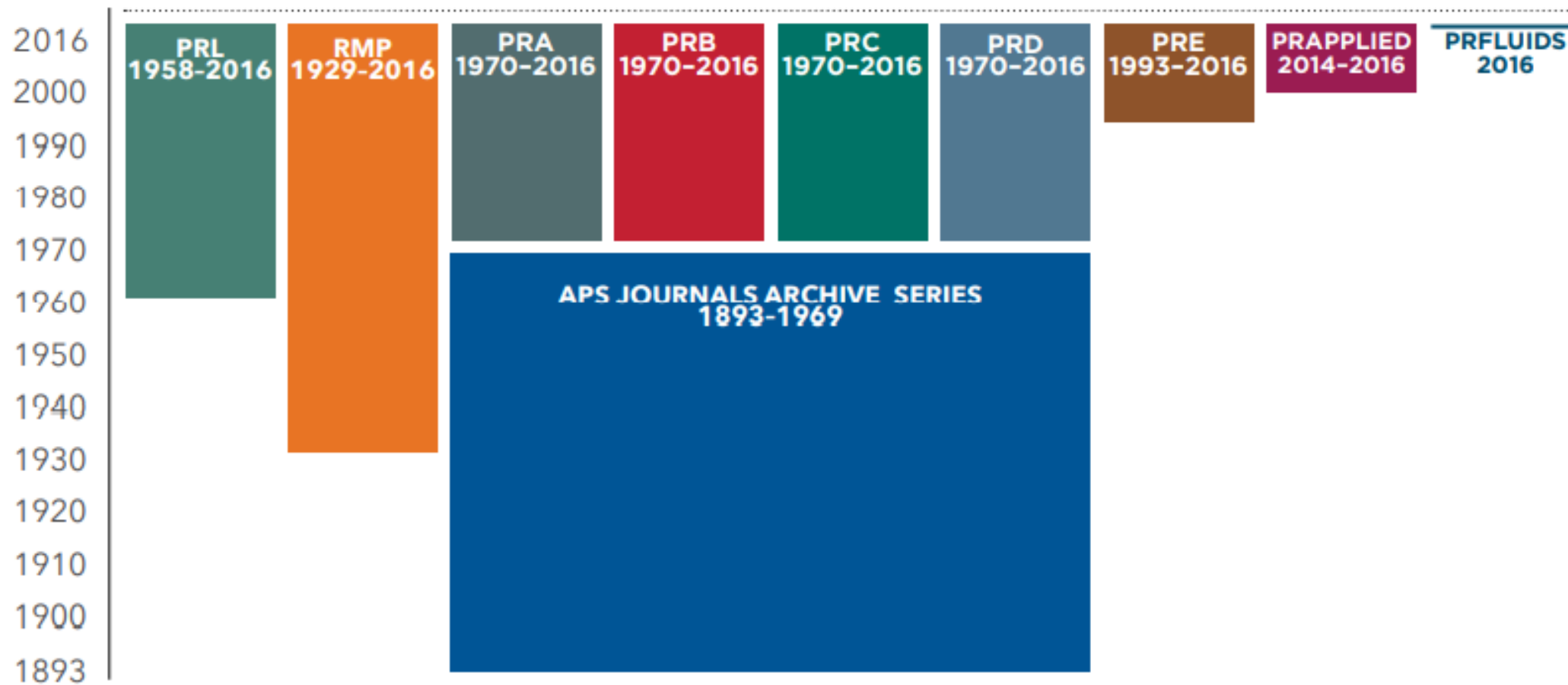
分别为专业最受尊重、被引用最多的期刊

10种物理领域的核心期刊、1种过刊, 另有7种免费出版物

APS期刊库内容及期刊品质



学会网站 <http://www.aps.org/>



Physical Review Letters

PRX Quantum

Physical Review B

Physical Review E

Physical Review Applied

发表物理学和其他科学领域的研究，发表具有最重大影响的发展，亦甚情况，或是令人兴奋的发现。

发表物理学、计算物理学、数学、化学、材料、工程和技术等不同学科的研究。

系统和合金、磁学、超导性、电子结构，光子学和混沌、网络和复杂系统、生物物理学、复杂系统。

发表与应用有着密切而明确联系的研究，为物理现象提供新的见解，为工程和物理学之间以及当前和未来技术之间搭建桥梁。PRApplied 欢迎来自工程界和物理界、学术界和工业界的文章。涵盖了与物理和天文学教学和学习相关的所有实验和理论研究。PRPER是唯一一本完全开放获取的物理教育研究期刊。

Physical Review X

OA期刊，包含物理学自身的**全部**子学科，以及物理学与其他学科的交叉研究；审稿标准严格。

Physical Review C

发表核物理学、核天体物理学、粒子物理学、核物理学的研究。

Physical Review Research

物理研究人员、核数据收集者和评估者以及具

Physical Review Fluids

身的**全部**子学科，以及物理学与其他学科的创新内容。PRFluids既包括传统的流体动力学主题，也包括较新的领域，如与生物有关的流体力学、微观/纳米尺度的流动、复杂流体和软材料的流体力学，以及地球物理和环境流动。

PRX Energy

OA期刊，包含能源科学和技术研究社区相关的所有主题，涵盖物理，化学，材料，工

Physical Review D

原子和分子结构和动力学、高精密度实验、

Physical Review Accelerators & Beams

域的领先期刊，也是高能物理学领域被引用

Physical Review Materials

应用的全部范围，包括子系统，组件技术，发表材料物理研究领域的创新内容。近年来，材料研究发展迅速，越来越多地超越了传统学科的界限。PRMaterials为不断扩大的物理学、材料科学、化学研究者和工程师群体以及相关学科的研究者提供了一个交流平台。

Physical Review Letters

Physical Review X

PRX Energy

《物理评论快报》
在综合物理收录的 85 种期刊中，
引用量排第一

Reviews of Modern Physics

Physical Review A

《现代物理评论》
在综合物理收录的 85 种期刊中，
影响因子排第一，引用量排第二

Physical Review D

Physical Review E

Physical Review Accelerators & Beams

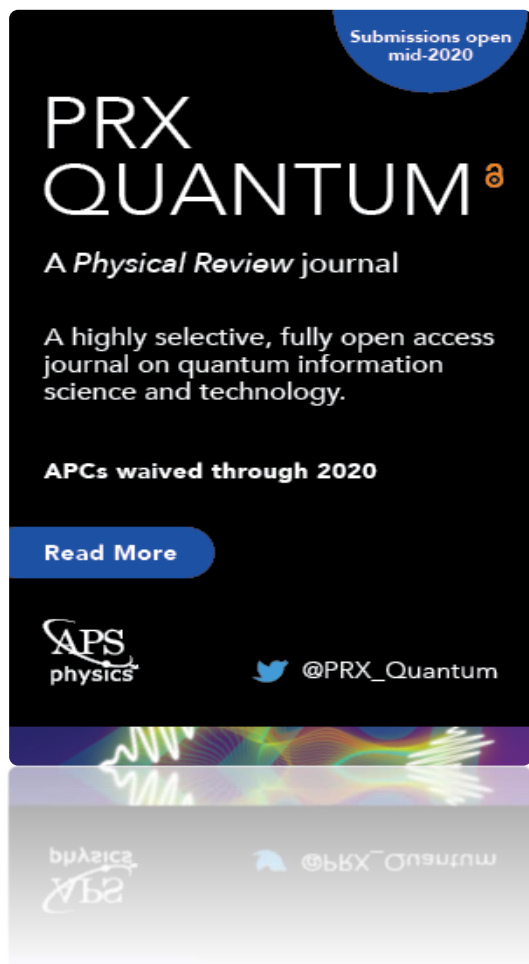
Physical Review Applied

Physical Review Fluids

Physical Review Materials

Physical Review PER

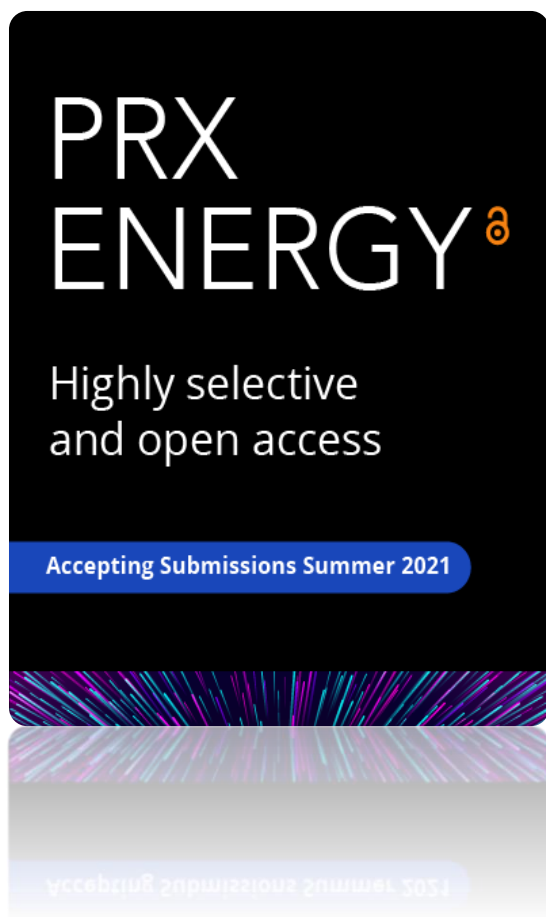
近年新刊



PRX Quantum

← PRX Quantum是一个高度选择性的，开放获取的期刊，内容专注于那些具有持久和深远影响的量子信息科学技术的重点研究，内容涉及物理、计算机科学、数学、化学、材料、工程和技术等不同学科的量子信息内容。

近年新刊



PRX Energy

- ← 2023年前投稿的论文将免除文章处理费。
- ← 收录关于能源、存储和应用研究的论文。
- ← 具体研究方向包括但不限于：基础和应用科学;理论、实验、计算和数据密集型研究，包括研究方法和仪器的重大改进以及跨学科和新兴领域。

期刊名称	期刊名称(中文)	起始年	IF 2021
Physical Review A: Atomic, Molecular, and Optical Physics	《物理评论A辑: 原子、分子和光物理》	1970-2015	
Physical Review A	《物理评论A辑》	2016	2.971
Physical Review B: Condensed Matter and materials Physics	《物理评论B辑: 凝聚态物质与材料物理》	1970-2015	
Physical Review B	《物理评论B辑》	2016	3.908
Physical Review C: Nuclear Physics	《物理评论C辑: 核物理》	1970-2015	
Physical Review C	《物理评论C辑》	2016	3.199
Physical Review D: Particles, Fields, Gravitation, and Cosmology	《物理评论D辑: 粒子、场、重力与宇宙》	1970-2015	
Physical Review D	《物理评论D辑》	2016	5.407
Physical Review E: Statistical, Nonlinear, and Soft Matter Physics	《物理评论E辑: 统计、非线性和软体物理》	1993-2015	
Physical Review E	《物理评论E辑》	2016	2.707
Physical Review Letters	《物理评论快报》	1958	9.185
Reviews of Modern Physics	《现代物理学评论》	1929	50.485

*IF: impact factor

期刊名称	期刊名称(中文)	起始年	IF 2021
Physical Review Applied	《物理评论-应用》	2014	4.931
Physical Review Fluids	《物理评论-流体》	2016	2.895
Physical Review Materials	《物理评论-材料》	2017	3.98
Physics	《物理》	1998	/
Physical Review Accelerators and Beams	《物理评论-加速器和光束》	2016	1.879
Physical Review Special Topics-Accelerators and Beams	《物理评论特别专题-加速器和光束》	1998-2015	
Physical Review Physics Education Research	《物理评论-物理教育研究》	2016	2.359
Physical Review Special Topics-Physics Education Research	《物理评论特别专题-物理教育研究》	2005-2015	
Physical Review X	《物理评论X辑》	2011	14.417
Physical Review Research	《物理评论研究》	2019	/
PRX Quantum	《物理评论X辑-量子》	2020	7.514
PRX Energy	《物理评论X辑-能源》	2021	/
Physical Review Online Archive (PROLA)	《物理评论过刊》	1893-1969	/

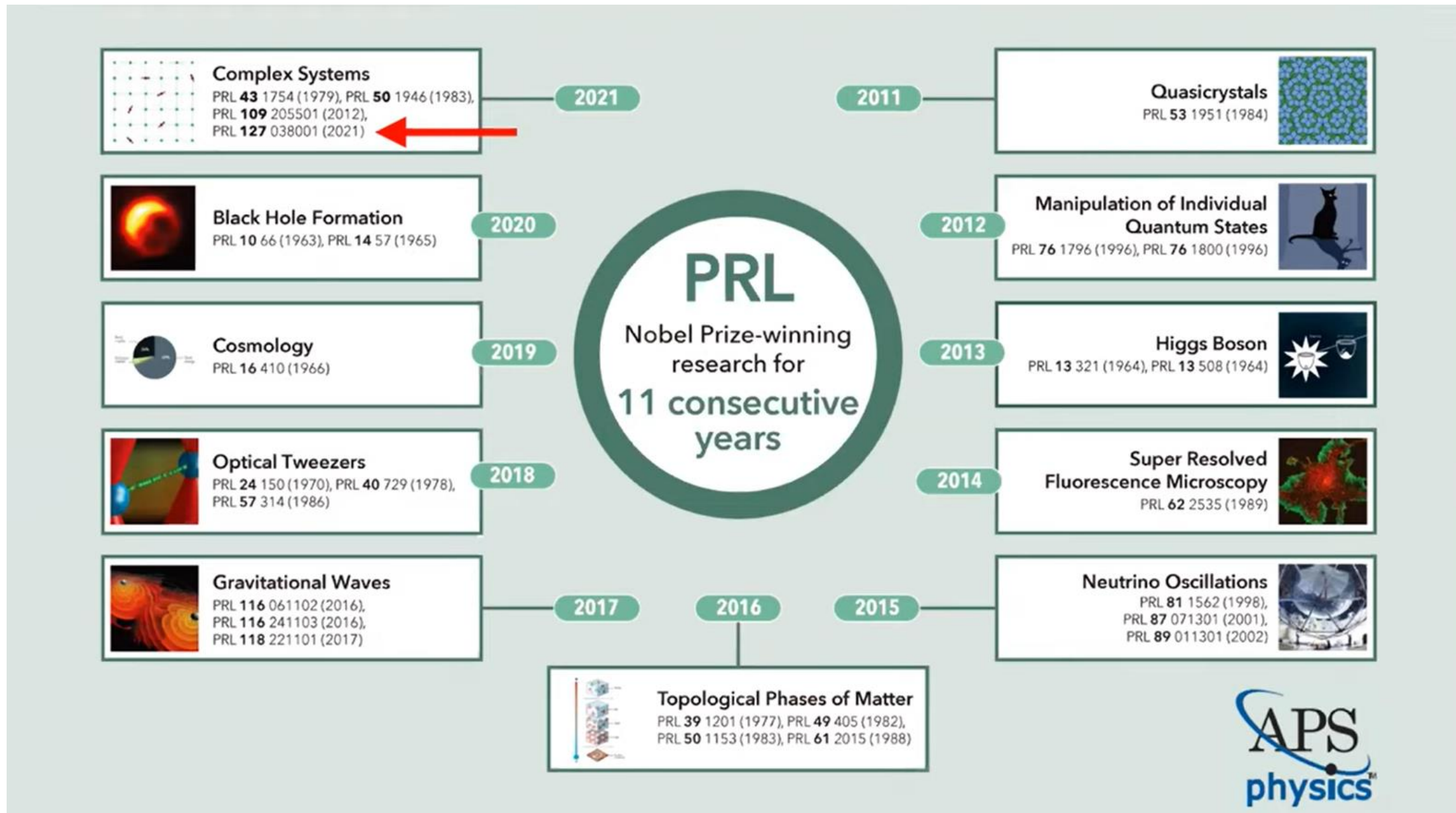
*IF: impact factor

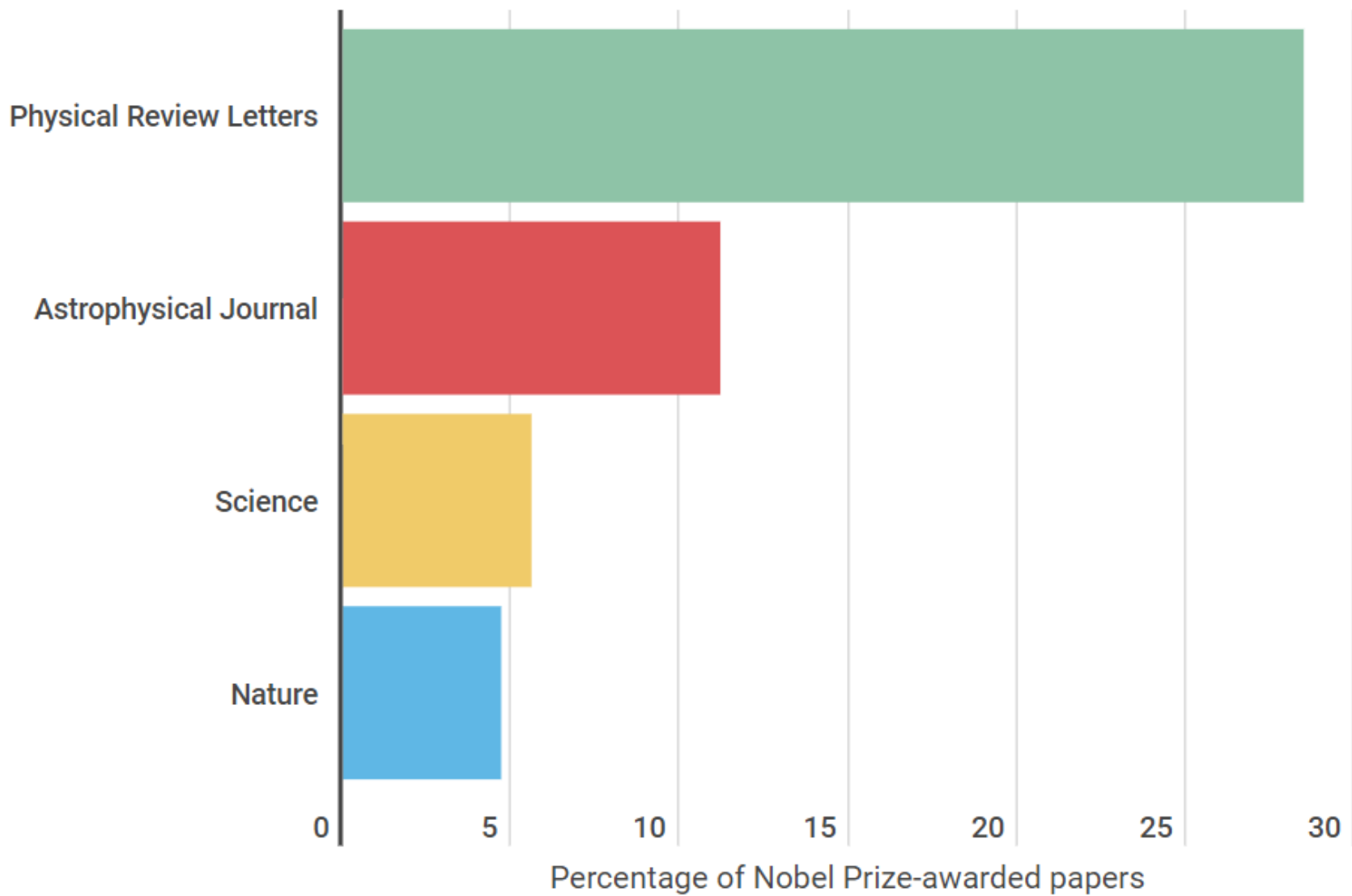
权威性



APS众多文献获得诺贝尔奖和物理学著名奖项。

作为世界上最具声望的物理学专业学会之一，APS以促进和传播物理学知识，促进物理学的发展为使命。







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APS数据库主页 <http://www.aps.org/>

APS数据库出版物、会议新闻、会员、工作等内容介绍

APS数据库期刊链接，含免费期刊

The screenshot shows the APS website homepage. At the top right, there is a navigation bar with links for 'APS', 'Journals', 'PhysicsCentral', and 'Physics'. Below this is a search bar and links for 'Become a Member' and 'Contact Us'. A main navigation bar contains links for 'Publications', 'Meetings & Events', 'Programs', 'Membership', 'Policy & Advocacy', 'Careers in Physics', and 'About APS'. On the left side, there is a vertical menu with links for 'Physicists & Other Scientists', 'Physics Enthusiasts', 'Policy Makers', 'Media', 'Students & Educators', and 'Librarians'. On the right side, there is a 'Quick Links' section with links for 'APS Journals', 'APS Member Directory', 'APS Units', 'Meetings Calendar', 'Submit an Abstract', 'Physics Job Center', and 'APS Online Store'. The main content area features several news items: 'APS in the News' with sub-items 'Icicle Atlas' and 'Bouncing Balls on Water'; 'New Webpage on APS Corporate Reform'; 'APS Opposes FIRST Act'; 'Prizes & Awards Recipient Spotlight' for the 2014 APS Robert R. Wilson Prize; and 'APRIL MEETING 2014' with links for 'April Meeting', 'Scientific Program', 'Registration Information', 'Hotel & Travel', and 'Events & Activities'.

APS期刊界面

两种方式进入期刊界面

Publications
下拉菜单中选择“Journals”

点此进入APS
期刊界面

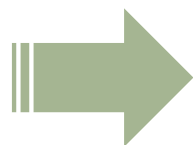
The image displays two screenshots of the APS website interface, illustrating two ways to access the journals section. In the first screenshot, the 'Journals' link is highlighted in the top navigation bar. In the second screenshot, the 'Journals' link is highlighted in the 'Publications' dropdown menu. Both screenshots include a yellow callout box with a red arrow pointing to the respective link.

点此进入APS
期刊界面

[Home](#) | [Publications](#) | [Physical Review Journals](#)

Physical Review Journals

The *Physical Review* journal collection of 16 leading peer-reviewed research journals includes *Physical Review Letters*, *Physical Review X*, *Physical Review*, and *Reviews of Modern Physics*.



[Physical Review journals](#)

Physical Review Letters	Physical Review X	PRX Energy
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 & Beams
Physical Review Applied	Physical Review Fluids	Physical Review Materials
Physical Review PER		

Publications板块 → 期刊库网站

远程访问

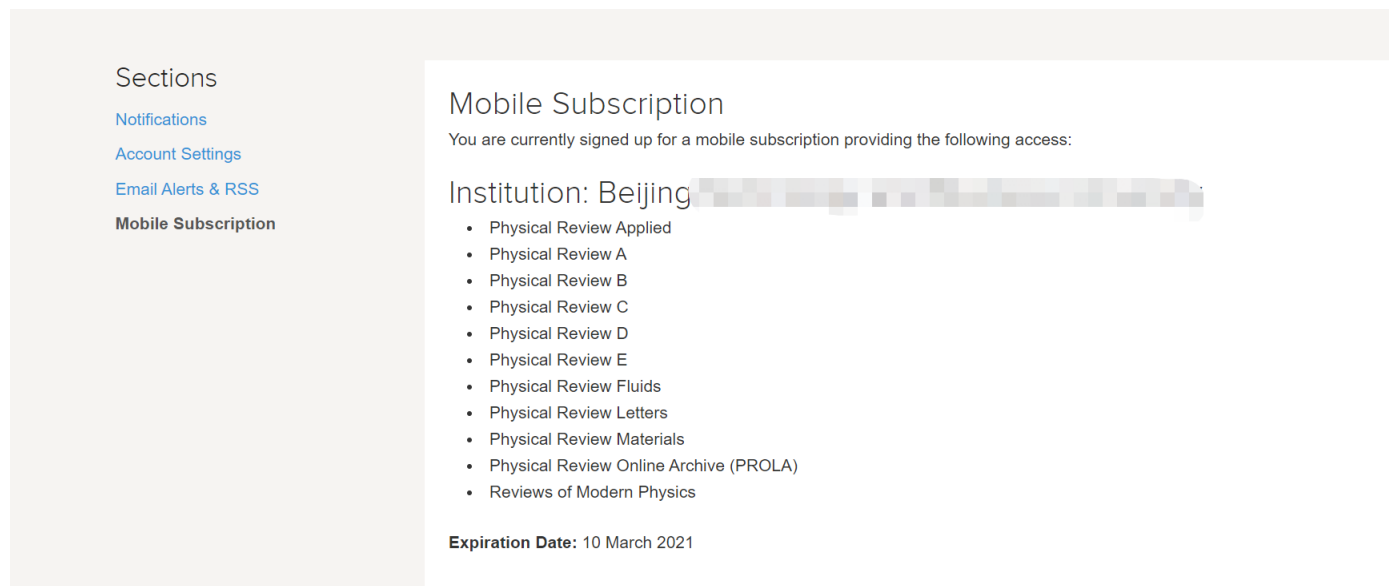
APS支持远程访问，需要在校园范围内激活。具体操作如下：

APS数据库可设置远程临时访问权限，用于在校外访问，具体设置步骤如下：

- (1) 校园网范围内点击“Log In”，注册APS账号；
- (2) 登录APS文章摘要主页，在页面右方点击“Go Mobile”链接，按提示激活；

The screenshot shows the APS Physics website interface. At the top, there are navigation links for 'Journals', 'Physics Magazine', and 'Help/Feedback'. A search bar contains the text 'Journal, vol, page, DOI, etc.' and a user profile 'jay'. A yellow banner below the navigation bar reads: 'Learn about our [response to COVID-19](#), including [freely available research](#) and [expanded remote access support](#).' The main header is red and features the text 'PHYSICAL REVIEW B covering condensed matter and materials physics'. Below the header is a navigation menu with links: 'Highlights', 'Recent', 'Accepted', 'Authors', 'Referees', 'Search', 'Press', 'About', 'Staff', and a RSS icon. The main content area shows an article titled 'Berry phase in quantum field theory: Diabolical points and boundary phenomena' by Po-Shen Hsin, Anton Kapustin, and Ryan Thorngren, published in Phys. Rev. B 102, 245113 on 9 December 2020. A red box highlights the 'Go Mobile »' link. Below the article title, there are buttons for 'Article', 'References', 'No Citing Articles', 'PDF', 'HTML', and 'Export Citation'. At the bottom right, a green notification box states: 'Mobile Subscription - Activated. Your mobile subscription was successfully activated.'

- (3) 激活成功后，登录APS期刊<https://journals.aps.org/login>，在“Your Account”栏可看到学校名称，登录的期刊名，访问权限截止时间。
- (4) 有效期为三个月，如需再次使用，需要在校园网IP范围内重新激活。



The screenshot shows a web interface for APS mobile subscriptions. On the left is a sidebar with navigation links: Sections, Notifications, Account Settings, Email Alerts & RSS, and Mobile Subscription (which is highlighted). The main content area is titled 'Mobile Subscription' and states 'You are currently signed up for a mobile subscription providing the following access:'. Below this, it lists the institution as 'Beijing' followed by a redacted area. A bulleted list of journals is provided, including Physical Review Applied, Physical Review A through E, Physical Review Fluids, Physical Review Letters, Physical Review Materials, Physical Review Online Archive (PROLA), and Reviews of Modern Physics. At the bottom, the expiration date is listed as '10 March 2021'.

Sections

- [Notifications](#)
- [Account Settings](#)
- [Email Alerts & RSS](#)
- Mobile Subscription**

Mobile Subscription

You are currently signed up for a mobile subscription providing the following access:

Institution: Beijing [REDACTED]

- Physical Review Applied
- Physical Review A
- Physical Review B
- Physical Review C
- Physical Review D
- Physical Review E
- Physical Review Fluids
- Physical Review Letters
- Physical Review Materials
- Physical Review Online Archive (PROLA)
- Reviews of Modern Physics

Expiration Date: 10 March 2021

APS期刊界面

The screenshot shows the APS Physical Review Journals website interface. Key elements are annotated with red boxes and yellow callout boxes:

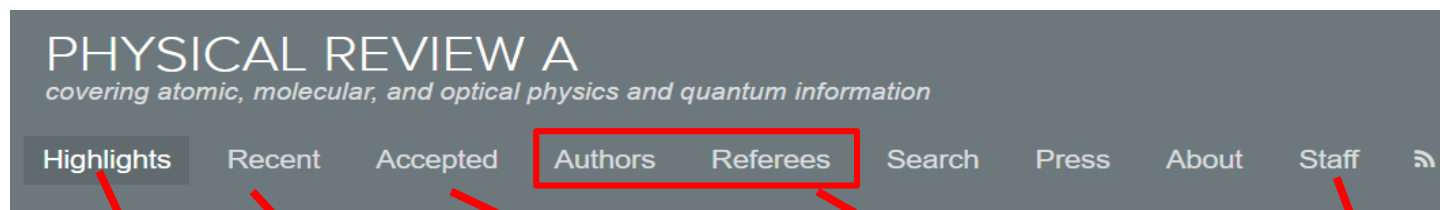
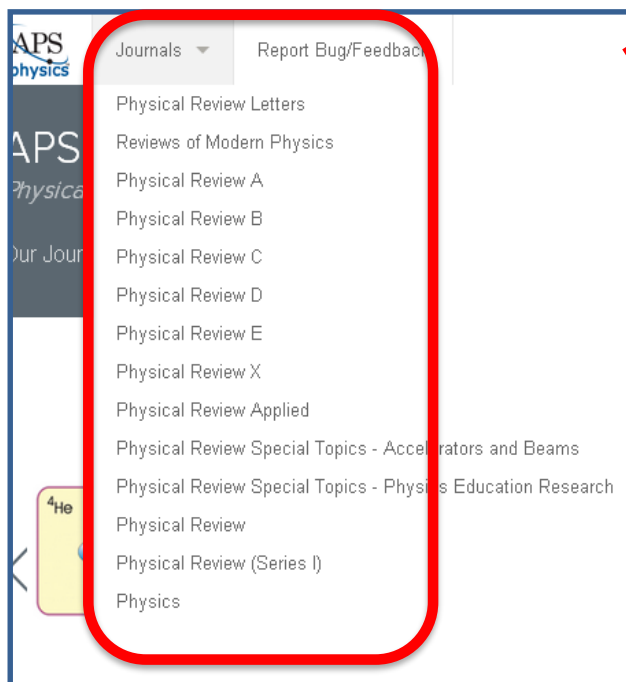
- 快速检索栏** (Quick Search Bar): A search input field at the top right containing the placeholder text "Journal, vol, page, DOI, etc." and a search icon.
- 选择期刊** (Select Journal): A dropdown menu at the top left with "Journals" selected.
- 高级检索** (Advanced Search): A button in the navigation bar between "Browse" and "Search".
- 点此可查看每本期刊的简介** (Click here to view the introduction of each journal): A callout box pointing to the "Coronavirus (COVID-19) Collection" section.

The main content area features the title "PHYSICAL REVIEW JOURNALS" and a navigation menu with options: Journals, Authors, Referees, Collections, Browse, Search, and Press. A banner at the top provides information about the response to COVID-19, including freely available research and expanded remote access support.

APS期刊浏览

https://journals.aps.org/

“Journals” 下拉选项中选择一份期刊，以PHYSICAL REVIEW A为例



编辑推荐和选入《physics》的内容

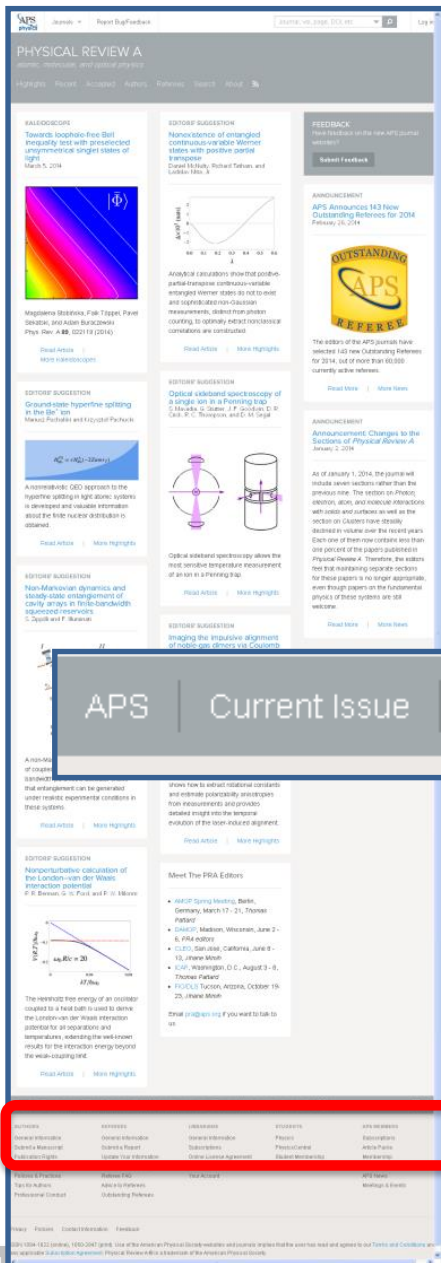
近期出版的内容

已经被接受、准备发行的论文

作者和审稿人须知信息

期刊编辑等信息

APS期刊浏览



[APS](#) |
 [Current Issue](#) |
 [Earlier Issues](#) |
 [About this Journal](#) |
 [Journal Staff](#) |
 [About the Journals](#) |
 [Join APS](#)

页面底端灰色区域，可查询现刊及早期期刊，以及该刊的影响因子情况等内容

APS期刊检索

1.快速检索

输入期刊名、卷、页码、DOI
等基本信息，以期刊
PHYSICAL REVIEW A
篇文章为例，输入期刊
号等，Phys. Rev. A 89,

Journal, vol, page, DOI, etc. Log in

APS JOURNALS
Review Letters, Physical Review, and Reviews of Modern Physics

Cover Image: Rev. Mod. Phys. Vol. 86, Iss. 1

PHYSICAL REVIEW A
atomic, molecular, and optical physics

Highlights Recent Accepted Authors Referees Search About

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Effective dissipation and nonlocality induced by nonparaxiality
Phys. Rev. A 89, 023804 – Published 5 February 2014
Nicola Bulso and Claudio Conti

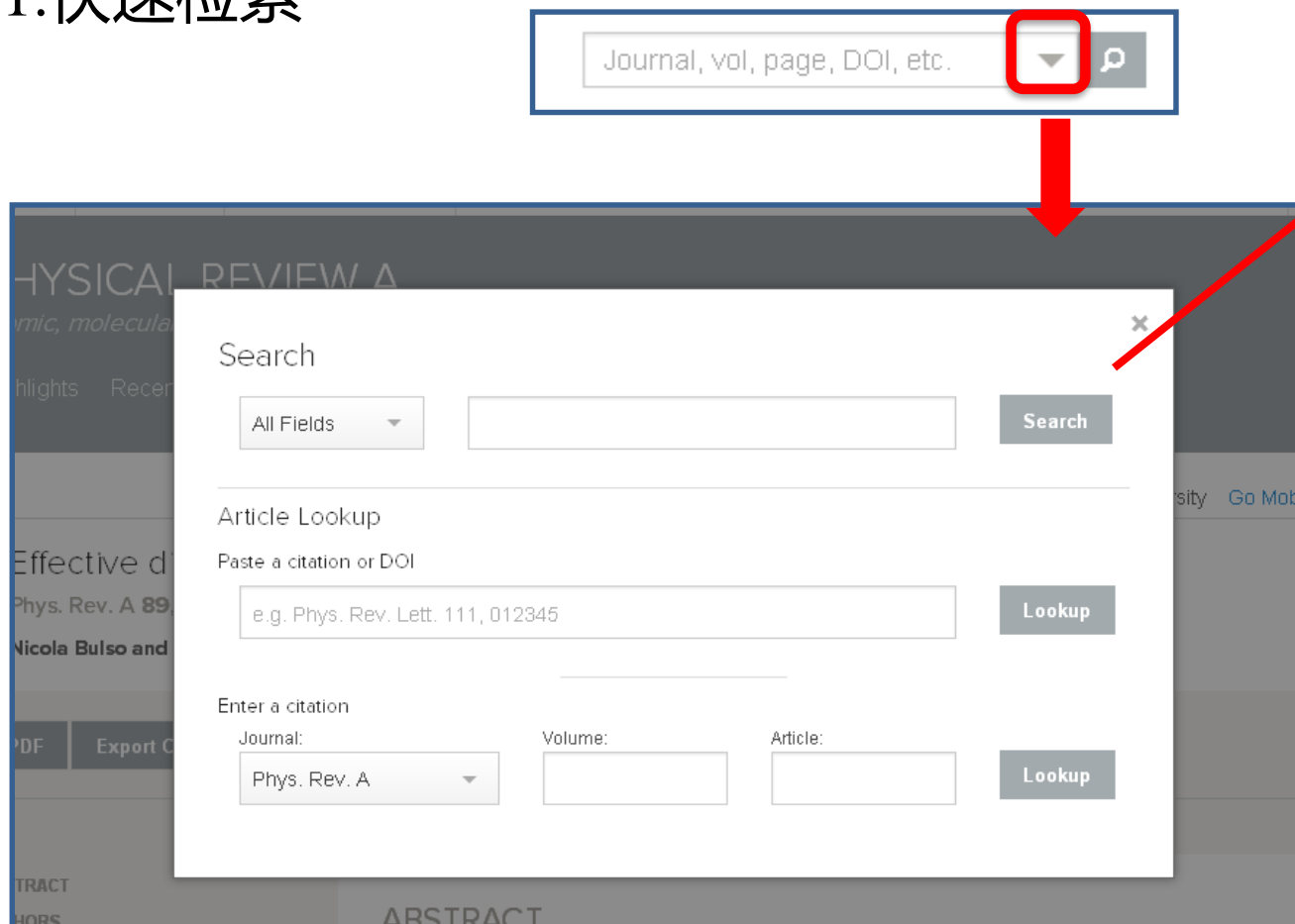
PDF Export Citation

ABSTRACT
AUTHORS
REFERENCES

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APS期刊检索

1.快速检索

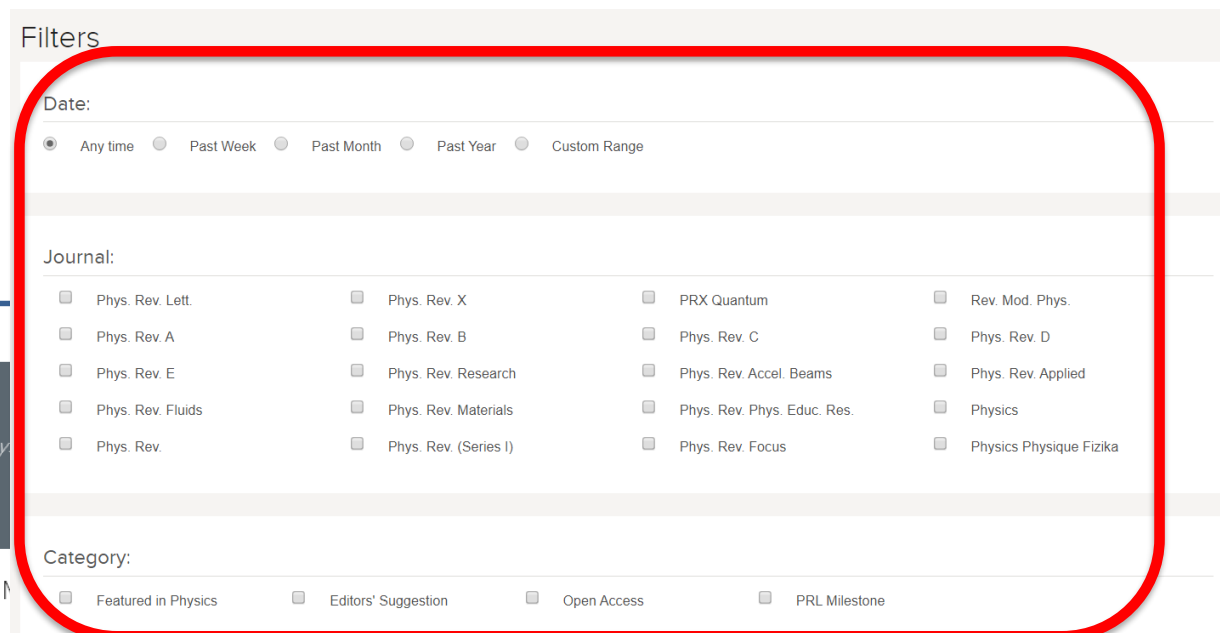
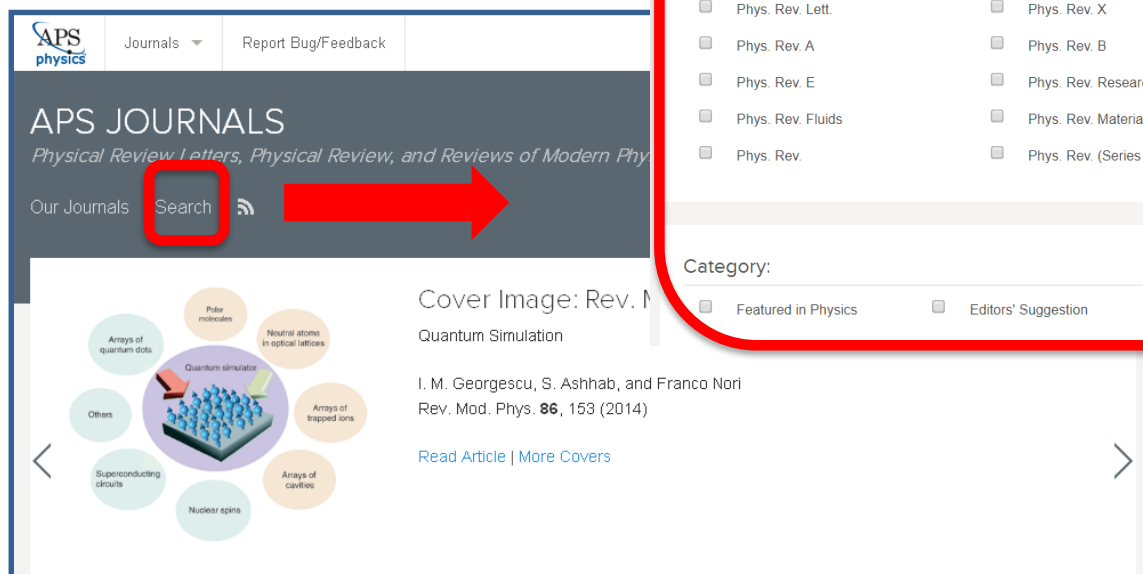


The image shows a search bar with the placeholder text "Journal, vol, page, DOI, etc." and a search icon. A red box highlights a dropdown arrow next to the search bar. A red arrow points from this dropdown arrow to a search modal window. The modal window has a title "Search" and a close button "x". It contains three search options: "All Fields" (with a dropdown arrow), a search input field, and a "Search" button; "Article Lookup" with a "Paste a citation or DOI" input field containing "e.g. Phys. Rev. Lett. 111, 012345" and a "Lookup" button; and "Enter a citation" with "Journal:" (dropdown arrow), "Volume:" (input field), "Article:" (input field), and a "Lookup" button.

点击快速检索
下拉符号，得
到检索框，可
根据作者、摘
要、文章名等
各种信息检索

APS期刊检索

2.高级检索



可对搜索范围
进一步筛选

APS期刊检索

2.高级检索

The screenshot shows the APS journal search interface. At the top is a blue header with the word "SEARCH" in white. Below the header, there are several search options and a search button. A red box highlights the search input area, which includes a dropdown menu for "All Fields", a text input field for "Search keywords", and a "+" button to add more search terms. Below this, there is a section for "AND" with another "All Fields" dropdown and "Search keywords" input, and an "x" button to remove terms. To the right of the search input area is a blue "Search" button. Below the search input area, there is a dropdown menu for sorting results, with "Most Recent" selected and highlighted by a red box. Three yellow callout boxes with red arrows point to specific features: one points to the "Most Recent" sorting option, another points to the "All Fields" dropdown and "Search keywords" input, and the third points to the "+" button.

SEARCH

All Fields

Search keywords +

Search

AND

All Fields Search keywords x

Most Recent

可选择对搜索结果进行排序

选择检索领域, 多种选择

增加检索项

APS期刊检索

2.高级检索

SEARCH

Title

Most Recent

以文章 “Effective dissipation and nonlocality induced by nonparaxiality” 为例，选择 “Title”，输入文章名

SEARCH RESULTS

[NEW SEARCH](#) [EDIT SEARCH](#)

Results / **1-1 of 1**

You searched for **title:Effective dissipation and nonlocality induced by nonparaxiality**

Sort

Most Recent

Results Per Page

PRA

[Effective dissipation and nonlocality induced by nonparaxiality](#)

Nicola Bulso and Claudio Conti

Phys. Rev. A **89**, 023804 (2014) - Published 5 February 2014

[Show Abstract +](#)

2 citations

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Category

- ALL (702,008)
- Open Access (25,396)
- Editors' Suggestion (12,467)
- Featured in Physics (4,673)
- Milestone (233)

DOI: <https://doi.org/10.1103/RevModPhys.90.040502>

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*The 2017 Nobel Prize for Physics was shared by Rainer Weiss, Barry C. Barish, and Kip S. Thorne. These papers are the text of the address given in conjunction with the award.

Physics Subject Headings (PhySH)



Research Areas

Gravitational waves

Gravitation, Cosmology & Astrophysics

AUTHORS & AFFILIATIONS

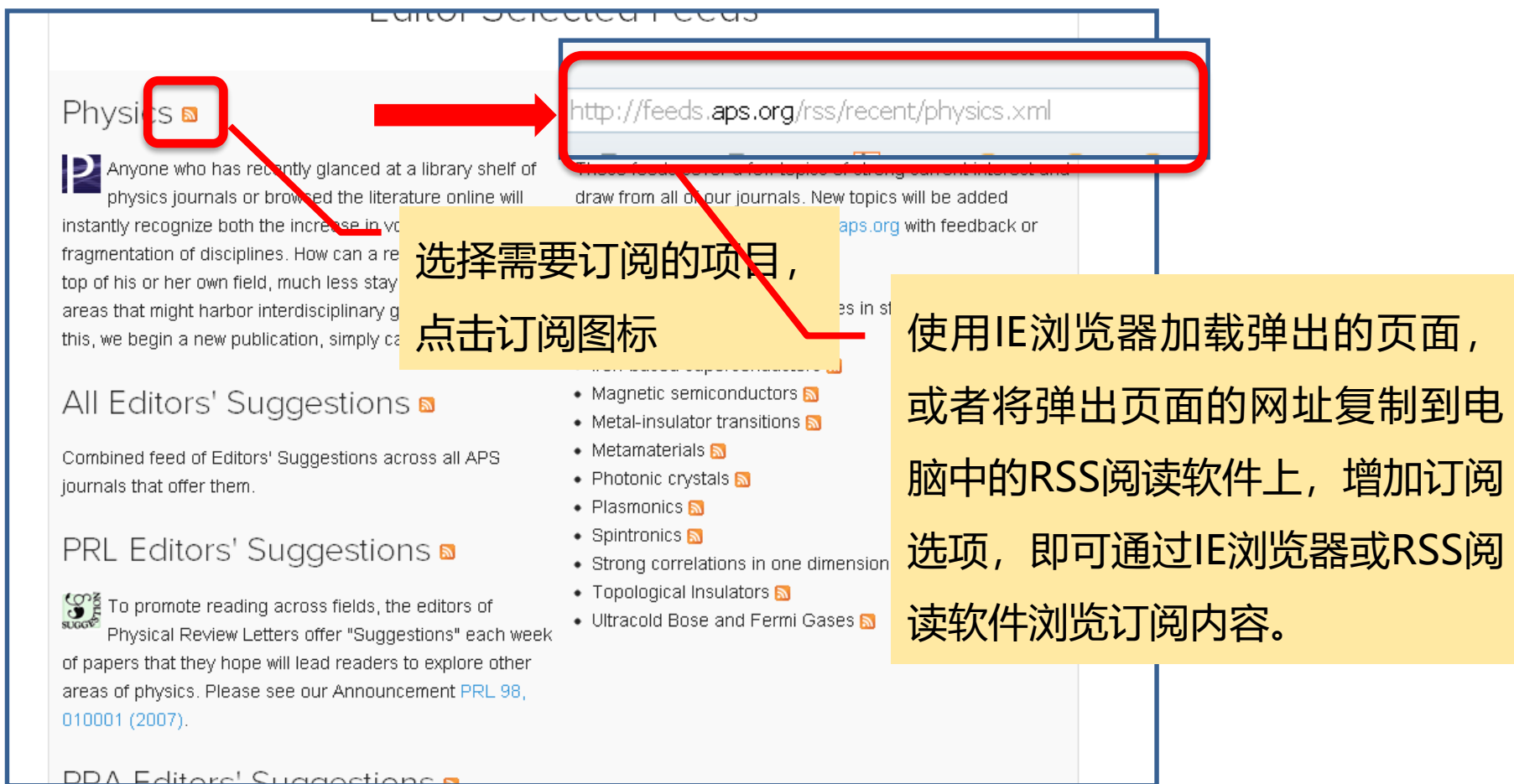


Barry C. Barish

California Institute of Technology, Pasadena, California 91125, USA

RSS订阅服务

方法：点击页面上RSS订阅图标 



选择需要订阅的项目,
点击订阅图标

使用IE浏览器加载弹出的页面,
或者将弹出页面的网址复制到电
脑中的RSS阅读软件上, 增加订阅
选项, 即可通过IE浏览器或RSS阅
读软件浏览订阅内容。

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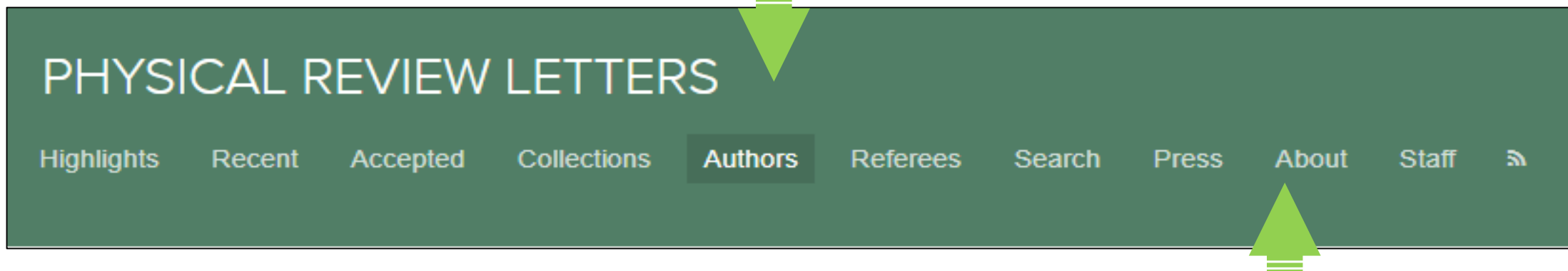
APS平台简介、功能演示



APS投稿

投稿要点提示

投稿前，你需要了解这些...



PRL Acceptance Criteria

Submitted manuscripts should meet 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 new techniques or methodologies with significant impact.
- Be of unusual intrinsic interest to PRL's broad audience.

查看期刊
Announcement栏目

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The authors analyze the
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n of closed orbits on the
rbits. The associated
sure the Fermi
ach does not account for
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in solving their crystal
present a rapid DFT-
conduct high-throughput
unsolved compounds.
served, newly solved
at could prove valuable

Wolverton

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Announcements

[Physical Review Journals Announce Inclusive Name Change Policy](#)

September 17, 2021

The American Physical Society (APS) today released the details of its [name change policy](#) for the *Physical Review* journals. The policy is intended to make the world's leading physics journals more inclusive and ensure authors retain ownership of prior work published under a different name.

[Introducing PRX Energy](#)

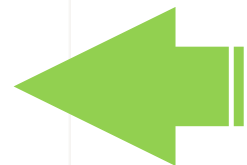
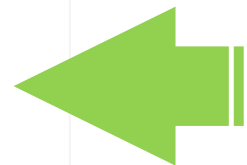
June 2, 2021

Opening for submissions later this year, *PRX Energy* is a new, highly selective open access journal from APS that will communicate and facilitate important advances in energy science and technology for the benefit of humanity. Article publication charges (APCs) will be waived for a limited time.

[New Article Type in Physical Review Materials - Research Update](#)

August 29, 2018

Physical Review Materials is now publishing Research Updates. Research Updates are relatively brief reviews of the current research status in an important and topical area of materials research. These updates need not be as comprehensive as reviews, instead offering



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Journal Title	Journal Type	Article Type	APC USD (full price)	2022 APC, including promotional pricing
<i>Physical Review Letters</i>	hybrid	Letters	\$3675	\$3675
<i>Physical Review X</i>	gold open access	all original research papers	\$4200	\$4200
<i>PRX Energy</i>	gold open access	Original research papers, Perspective and Tutorial articles		0* Introductory promotion, no APCs through the end of 2022.
<i>PRX Quantum</i>	gold open access	Original research papers	\$3450	\$3450
<i>Reviews of Modern Physics</i>	subscription	all	no hybrid option	N/A
<i>Physical Review A</i>	hybrid	all original research papers	\$2625	\$2625
<i>Physical Review B</i>	hybrid	all original research papers	\$2625	\$2625
<i>Physical Review C</i>	hybrid	all original research papers	\$2625	\$2625
<i>Physical Review D</i>	hybrid	all original research papers	\$2625	\$2625
<i>Physical Review E</i>	hybrid	all original research papers	\$2625	\$2625
<i>Physical Review Research</i>	gold open access	all original research papers	\$2625	\$2625
<i>Physical Review Accelerators and Beams</i>	diamond open access	all	No APCs; sponsored	\$0

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