



# 美国物理联合会 (AIP) 出版社全新平台助力物 理科学研究

郭 杨  
AIP Publishing  
中国区市场总监



# 大纲

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I. 了解AIP出版社

II. 利用AIP出版社全新平台助力物理科学研究

III. 更多资源

01.

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# 了解AIP出版社

# 关于美国物理联合会 (AIP) 及 美国物理联合会出版社 (AIP Publishing)



Karl Taylor Compton  
麻省理工学院前校长  
AIP首任主席



George B. Pegram  
哥伦比亚大学前副校长  
AIP首任秘书长

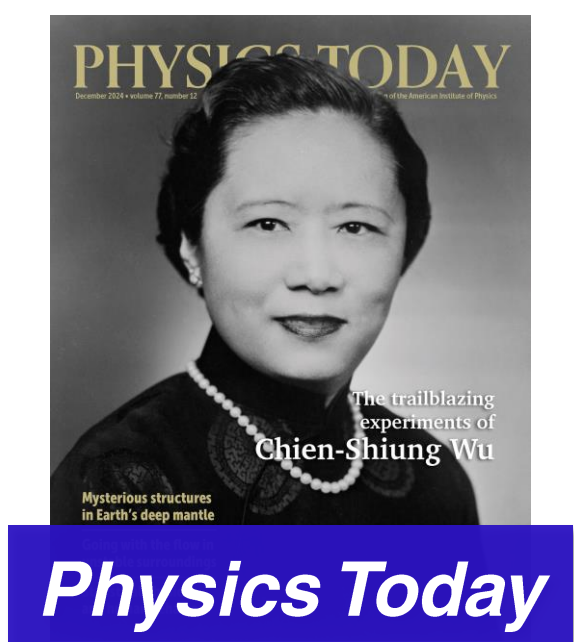


1957年AIP管理委员会合影

- **美国物理联合会 (American Institute of Physics, AIP) 是一个非营利组织**，成立于**1931年**，它是代表了超过13.5万名科学家、工程师和教育者的由**10个物理科学学会组成的联盟**，也是一个支持物理科学事业的卓越中心。它是全世界物理科学领域科学信息的**最大的出版者之一**，对全世界科研机构而言，AIP和其学会期刊是物理学相关文献的核心。
- AIP的**使命**是为了人类的利益推进、促进和服务物理科学。90多年来一直是世界领先的物理学科出版商。
- **2013年**AIP通过成立AIP Publishing，对其广泛的期刊进行集中管理，扩大出版活动，扩展能力和范围。**AIP Publishing是非营利性专业出版机构**，代表AIP及其成员学会从事出版活动，致力于提供综合性的高引用**同行评审期刊**和**最新电子书籍**。



# 学术期刊的国际性平台：AIP Publishing 美国物理联合会出版社



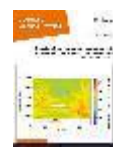
全球最具影响力的物理学杂志（提供给所有10个AIP成员学会的成员），以及.....

- 涵盖全球物理学界所有突破性物理研究的期刊
- 广泛的范围、专题、开放获取、混合出版、高影响力、严谨.....所有物理研究的家园

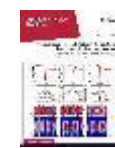
## 应用物理领域



**Applied Physics Letters**  
创刊于1962, Nature Index



**Journal of Applied Physics**  
创刊于1933, 经典期刊



**Applied Physics Review**  
IF 11.9, 综述期刊



**AIP Advances**  
2011, 推动快速发表

## APL主题期刊

在专题领域扩展  
APL的经典传承

- APL Materials 2013
- APL Bioengineering 2017
- APL Energy 2023
- APL Computational Physics 2025
- APL Engineering Physics
- APL Photonics 2016
- APL Machine Learning 2023
- APL Quantum 2024
- APL Electronic Devices 2025

## 学科领域

**流体科学：**  
*Physics of Fluid*  
1994

**科学仪器与分析：**  
*Reviews of Scientific Instruments*  
创刊于1930

**化学物理：**  
*Journal of Chemical Physics*  
创刊于1933

**数学物理：**  
*Journal of Mathematical Physics*  
创刊于1960

*Chaos*  
创刊于1991

能源 | 生物科学 | 等离子体 | 材料科学 | 纳米科学 | 机器学习与AI | 声学 | 量子科学 | 光子学 | 教育学 | ...

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- AIPP在物理科学领域发表了110万篇论文，其中包括许多诺贝尔奖得主的文章。
- THE排名前100强高等教育机构都订阅了我们的内容。

# 国际高质量的学术信息

1 本

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AIP会议录  
可回溯到1970年

# 卓越领航，探索前沿

自1931年以来，AIPP在物理科学领域发表了**110多万**篇论文，其中包括许多诺贝尔奖得主的文章。



**Ernest Lawrence**  
Winner 1939  
Nobel Prize in Physics  
Invented the Cyclotron



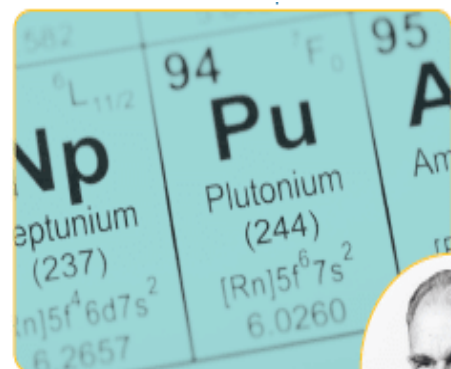
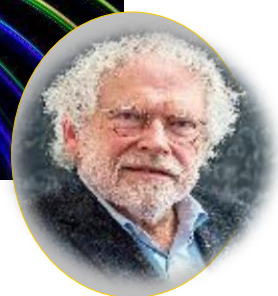
**Francis Crick**  
Winner 1962  
Nobel Prize in Physiology or Medicine  
Co-discovered the structure of DNA  
Photo: Marc Lieberman (2004)



**Arthur Ashkin**  
Winner 2018  
Nobel Prize on Physics  
Groundbreaking inventions in the field of laser physics



**Anton Zeilinger**  
Winner 2022  
Nobel Prize on Physics  
pioneering quantum information science



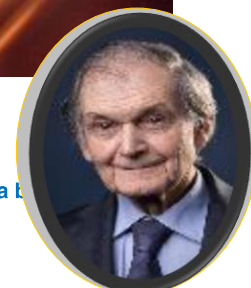
**Glenn Seaborg**  
Winner 1951  
Nobel Prize in Chemistry  
Co-discovered plutonium  
Photo: Digital photo archive, Department of Energy (DOE)



**Dennis Gabor**  
Winner 1971  
Nobel Prize in Physics  
Invented holography



**Roger Penrose**  
Winner 2020  
Nobel Prize on Physics  
Co-discovered the nature of a black hole



**Alain Aspect**  
Winner 2022  
Nobel Prize on Physics  
pioneering quantum information science



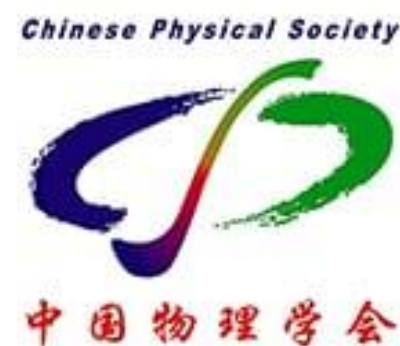
**William Shockley**  
Winner 1956  
Nobel Prize in Physics  
Co-invented the transistor



**Shuji Nakamura**  
Winner 2014  
Nobel Prize on Physics  
Co-invented efficient blue light-emitting diodes



# AIP Publishing的出版合作伙伴



中国物理学会  
*Chinese Journal of  
Chemical Physics (CJCP)*



中国工程物理研究院  
*Matter and Radiation at  
Extremes (MRE)*



天津大学  
*Nanotechnology and  
Precision Engineering (NPE)*



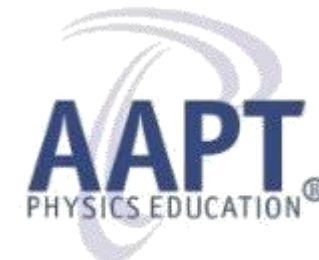
南京航空航天大学  
*MechanoEngineering*



合肥通用机械研究院有限公司 & 浙江理工大学  
*International Journal of Fluid Engineering (IJFE)*



美国声学学会 ASA  
*JASA-1929,  
JASA Express Letters...*



美国物理教师协会 AAPT  
*Physics Teacher-1963,  
American Journal of Physics-1933...*



美国晶体学会 ACA  
*Structural Dynamics-US*



美国真空学会 AVS  
*AVS Quantum Science  
Biointerphases  
Journal of Vacuum Science and Technology A  
Journal of Vacuum Science and Technology B  
Surface Science Spectra*



美国流变学会  
*Journal of Rheology-1929*



美国国家标准与技术研究院  
*JPCRD-1972*



美国激光研究所  
*Journal of Laser Applications  
LIA Conference Proceedings*



日本物理学会 JPS  
*Journal of the Physical  
Society of Japan*



02.

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American Association of Physics Teachers

American Crystallographic Association, Inc.

AVS: Science and Technology of Materials, Interfaces and Processing

China Academy of Engineering Physics

Chinese Physical Society

Laser Institute of America

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10

# 精炼检索结果

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1-20 of 10730 Search Results for  
metal organic frameworks

meta

Filter

ADD TERM

UPDATE

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Journal Articles

(238)

- ☐ Book (59)
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- ☐ JCP Editors' Choice 2017

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- Issue
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按主题过滤

- Topics
- AIP thesaurus
- Acoustics
- Biological physics
- Chemical physics
- Condensed matter physics
- Education
- Electronics
- General physics
- Interdisciplinary physics
- Materials science
- Mathematical physics
- Nanotechnology
- Optics and optical physics
- Particle physics
- Photonics
- Plasma physics
- Quantum chemistry
- Rheology and fluid dynamics
- Society and organization
- Statistical physics

按期刊过滤

- Journal
- ☐ The Journal of Chemical Physics (3297)
- ☐ Journal of Applied Physics (2055)
- ☐ AIP Conference Proceedings (1377)
- ☐ Applied Physics Letters (814)
- ☐ Physics of Fluids (299)
- ☐ Review of Scientific Instruments (271)
- ☐ Physics Today (240)
- ☐ AIP Advances (236)
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# AIP Thesaurus

## AIP主题词表

AIP主题词表提供丰富的规范化的物理及相关领域的多层次主题词，共有**26个**一级主题词，每个一级主题词下都有多个细分的主题词，**每篇文章都赋予了一个或多个AIP主题词**。通过在检索结果左侧的“**Topics**”中选择AIP主题词，可以将同一主题下的文章筛选出来。

Topics

▼ AIP thesaurus

▶ Acoustics

▶ Astronomy and astrophysics

▶ Atomic and molecular physics

▶ Biological physics

▶ Chemical physics

▶ Condensed matter physics

▶ Education

▶ Electronics

▶ Energy

▶ General physics

▶ Geophysics

▶ Interdisciplinary physics

▶ Materials science

▶ Mathematical physics

▶ Nanotechnology

▶ Non linear dynamics

▶ Nuclear physics

▶ Optics and optical physics

▶ Particle physics

▶ Photonics

▶ Plasma physics

▶ Quantum chemistry

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▶ Statistical physics

▶ Materials analysis

▶ Materials and material systems

▶ Materials degradation

▶ Materials fabrication

▶ Materials properties

▶ Materials synthesis and processing

Materials treatment (49)

Solid state chemistry (8)

Adhesion testing (2)

▶ Analytical chemistry

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▶ Diffractometers

Electrically detected magnetic resonance (2)

Electron beam induced current (3)

Electron diffraction (48)

Electron nuclear double resonance (2)

Electron probe microanalysis (2)

Electron stimulated desorption (1)

Failure analysis (19)

Immunofluorescence (2)

Ion beam analysis

Material characterization methods (17)

▶ Analytical laboratory techniques

Chemical speciation (1)

Colorimetry (2)

▶ Crystallography

Debye-Huckel equation (1)

▶ Electroanalytical chemistry

▶ Elemental analysis

Gravimetric analysis (2)

▶ Particle size analysis

▶ Spectroscopy

Wet chemistry (2)

Neutron activation analysis (2)

▶ Spectrometry

X-ray reflectivity (8)

Chemical speciation (1)

Colorimetry (2)

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- Biological physics
- Chemical physics
- Condensed matter physics
- Electronics
- General physics
- Interdisciplinary physics
- Materials science

1-20 of 82 Search Results for

metal organic frameworks

Review ArticleFull Text: energy storage

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metal organic frameworks

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AbstractView articlePDF

JOURNAL ARTICLES

Layer-by-layer assembly of metal-organic framework thin films: Fabrication and advanced applications

Dong-Hui Chen, Hartmut Gliemann, Christof Wöll

Journal: Chemical Physics Reviews

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对检索结果进行排序

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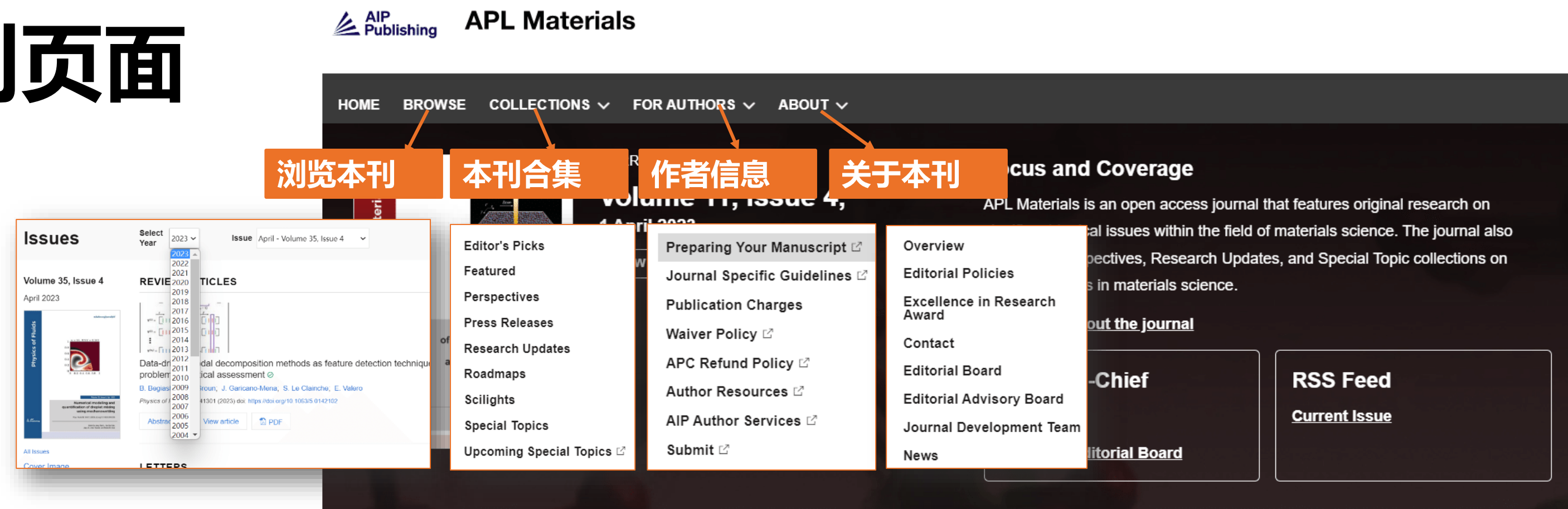
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## Featured Articles

EDITORIAL | APRIL 19 2023



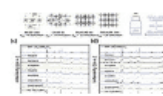
### Exploring topical areas in APL Materials

Bo Wang, Katherine VanDenburgh

RESEARCH ARTICLE | APRIL 13 2023

## Editor's Picks

RESEARCH ARTICLE | APRIL 05 2023

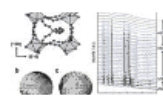


### Room-temperature synthesis of lead-free copper(I)-antimony(III)-based double perovskite nanocrystals

Shizhe Wang, Dan Han et al.

In the field of perovskite solar cells, explorations of new lead-free all-inorganic perovskite materials are of great interest to address the instability and toxicity issues of lead-based hybrid ...

RESEARCH ARTICLE | MARCH 27 2023



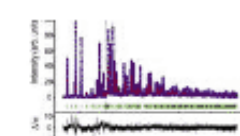
### Li(C<sub>2</sub>N<sub>3</sub>) as eutectic forming modifier in the melting process of the molecular perovskite [(C<sub>3</sub>H<sub>7</sub>)<sub>3</sub>N(C<sub>4</sub>H<sub>9</sub>)][Mn(C<sub>2</sub>N<sub>3</sub>)<sub>3</sub>]<sup>±</sup>

Silva M. Kronawitter, Sebastian A. Hallweger et al.

Coordination polymer (CP) glasses have recently emerged as a new glass state. Given the young state of the field, the discovery of concepts that guide the synthesis of CP glasses with targeted ...

## Most Recent

RESEARCH ARTICLE | APRIL 19 2023



### Low temperature tetragonal polymorph of CaZrF<sub>6</sub>

Daniel L. Bodine, Angus P. Wilkinson

A new tetragonal polymorph of CaZrF<sub>6</sub> can be prepared by high energy ball milling of a CaF<sub>2</sub>/ZrF<sub>4</sub> mixture, followed by heat treatment at 325 °C. This polymorph is thermodynamically stable with respect ...

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Unidirectional spin-wave edge modes in magnonic crystal

Commentary: The Materials Project: A materials genome approach to accelerating materials innovation

Featured Articles

RESEARCH ARTICLE | MARCH 20 2025

## Improved dimensional stability of zero-thermal-expansion $\text{Cu}_3\text{P}_2\text{O}_7/\text{ZL101}$ composite by thermal treatment

Jiawei Zeng, Chenlong Wei et al.

Compositing negative-thermal-expansion materials with Al is an effective strategy for obtaining light zero-thermal-expansion (ZTE) materials. However, the dimensional stability of those composites is ...

RESEARCH ARTICLE | MARCH 19 2025

## Determination of the B4-B1 phase boundary in semiconductors using isothermal compression Raman spectroscopy

Binbin Wu, Yu Li et al.

The pressure-induced phase transition from hexagonal wurtzite (B4) to cubic rock salt (B1) in semiconductors is generally identified as an important displacement-type structural transition. Despite ...

RESEARCH ARTICLE | MARCH 18 2025

## Photoplastic anisotropy in nanoindentation of wurtzite $\text{ZnO}$ single crystals

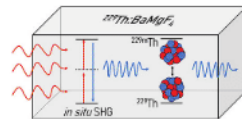
Hiroto Oguri, Yan Li et al.

Anisotropy plays a crucial role in understanding and optimizing the properties of materials with directional dependencies. The hexagonal wurtzite structure, which is a typical crystal structure in ...

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### Editor's Picks

RESEARCH ARTICLE | MARCH 17 2025

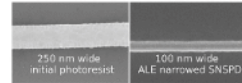


**Proposal and theoretical investigation of  $^{229}\text{Th}$ -doped nonlinear optical crystals for compact solid-state clocks**

H. W. T. Morgan, R. Ellwell et al.

The recent laser excitation of the  $^{229}\text{Th}$  isomeric transition in a solid-state host opens the door for a portable solid-state nuclear optical clock. However, at present, the vacuum-ultraviolet laser ...

RESEARCH ARTICLE | MARCH 17 2025

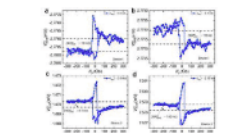


**Line width narrowing of superconducting nanowire single photon detectors using atomic layer etching**

Daniel N. Shanks, Jason P. Allmaras et al.

Superconducting nanowire single photon detectors (SNSPDs) have shown remarkable photon detection characteristics, and scalable architectures allow for the fabrication of SNSPD cameras with over a ...

RESEARCH ARTICLE | MARCH 17 2025



**Unconventional spin-to-charge conversion in  $\text{MnPd}_3$**

Mahendra DC, Punyashloka Debashis et al.

We demonstrate the unconventional and conventional spin-to-charge conversion (SCC) in  $\text{MnPd}_3$  using local SCC device at room temperature. The low crystal symmetry along the (114) growth direction ...

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### Most Read

Most Cited

### Roadmap on photonic metasurfaces

Color astrophotography with a 100 mm-diameter  
f/2 polymer flat lens  
Apratim Majumder, Monjurul Meem, et al.

Sputter epitaxy of ScAlN films on GaN high electron mobility transistor structures  
Tomova Okuda, Shunsuke Ota, et al.

## Active Topics

|                                |                                        |
|--------------------------------|----------------------------------------|
| Materials and material systems | Condensed matter phenomena             |
| Materials analysis             | Condensed matter properties            |
| Electronic devices             | Optical techniques and instrumentation |

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# 近期某期刊有哪些重要文章值得我关注？

| 文章类型  | Featured Article（精选文章） <div>F</div>  | Editor's Picks（编辑优选） <div>EP</div>                                                           |
|-------|--------------------------------------|----------------------------------------------------------------------------------------------|
| 展示优先级 | 最高（主页头条或轮播首位）                        | 次高（次级板块或专题栏目）                                                                                |
| 筛选目标  | “Wow!”（惊叹）<br>突破性成果，领域标杆，写作清晰，有深刻的见解 | “That’s interesting!”（有趣）<br>值得注意的， <b>高于平均水平的论文</b> ，覆盖 <b>多学科</b> ，写作良好/清晰的表达， <b>潜力研究</b> |
| 读者感知  | “顶尖必读”                               | “学科多样且值得关注”                                                                                  |
| 覆盖范围  | 侧重期刊重点领域或热点方向                        | 覆盖所有学科领域                                                                                     |

# 还有哪些重要信息可以了解？

| 文章类型 | Scilight  | Press Release                                                                               |
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| 目标受众 | 科研学者                                                                                       | 普通公众                                                                                        |
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Volume 33, Issue 10

October 2021

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Computational study on the transmission of the SARS-CoV-2 virus through aerosol in an elevator cabin: Effect of the ventilation system

N. N. Peng (彭宁宁) ; K. W. Chow (周國榮) ; C. H. Liu (廖俊豪)

N. N. Peng (彭宁宁)

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B. Respiratory Flows And Particles

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E. Numerical Method

F. Case Study

III. RESULTS AND DISCUSSION

A. The Effect Of Respiratory Events

B. The Effect Of Ventilation Mode And Capacity

C. The Effect Of The Position Of Infected Passenger

D. The Effect Of Vent Schemes

E. The Performance Of The Optimized Vent Scheme

IV. CONCLUSIONS

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Aerosol transmission is now well-established as a major route of SARS-CoV-2 virus. Factors influencing the transport of virus-laden particles include human respiratory events, locations of the infected person(s), and the ventilation system (ventilation mode, ventilation capacity, and vent schemes). "Breath," "cough," and "sneeze" are defined quantitatively by the fluid jet velocities and particle sizes. For natural ventilation, most particles exhaled by sneezing and coughing tend to deposit on surfaces quickly, but aerosol generated by breathing will remain suspended in the air longer. For forced ventilation, motions of particles under different ventilation capacities are compared. Larger particles otherwise deposited readily on solid surfaces may be slowed down by airflow. Air currents also accelerate the motions of smaller particles, facilitating the subsequent deposition of micrometer or sub-micrometer particles. Locations of the infected person(s) lead to different spreading scenarios due to the distinctive motions of the particles generated by the various respiratory events. Sneeze particles will likely contaminate the person in front of the infected passenger only. Cough particles will increase the risk of all the people around the injector. Breath particles tend to spread throughout the confined environment. An optimized vent scheme is introduced and can reduce particles suspended in the air by up to 80% as compared with commonly used schemes. The purification function of this vent model is robust to various positions of the infected passenger.

Topics

[Aerosols](#), [Computer simulation](#), [Fluid jets](#), [Turbulence simulations](#), [Turbulent flows](#)

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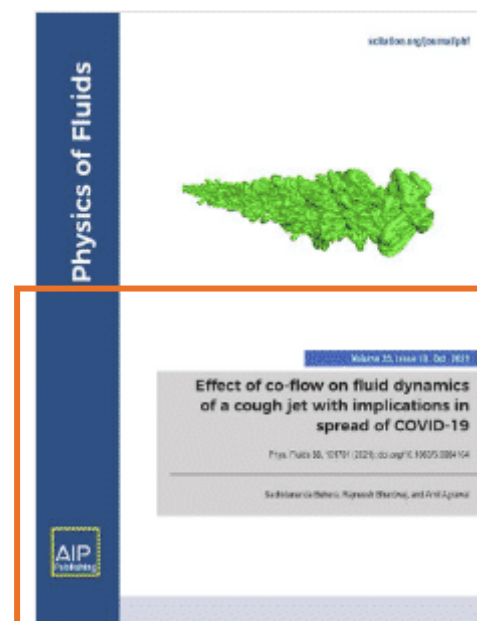
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### IV. CONCLUSIONS

### ACKNOWLEDGMENTS

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Conflict Of Interest

RESEARCH ARTICLE | OCTOBER 25 2021

## Computational study on the transmission of the SARS-CoV-2 virus through aerosol in an elevator cabin: Effect of the ventilation system

Special Collection: Flow and the Virus , Flow and the Virus

N. N. Peng (彭宁宁) ; K. W. Chow (周國榮) ; C. H. Liu (廖俊豪)

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### 论文历史

#### Article history

Received:  
August 24 2021  
Accepted:  
October 06 2021

Author to whom  
Note: This paper is part of the special topic,

Physics of Fluids 33, 103325 (2021)

<https://doi.org/10.1063/5.0068244>

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Aerosol transmission is now well-established as a route in the spread of the SARS-CoV-2 virus. Factors influencing the transmission of the virus include the location of the infected person(s), the ventilation system (ventilation capacity, and ventilation mode), and the physical properties of the virus particles. "sneeze" are defined quantitatively as the velocity and the location of the particles. The most particles exhaled by the infected person(s) tend to deposit on the walls of the cabin. The particles generated by breathing will stay in the air longer. For particles under different ventilation capacities are compared. The particles deposited readily on solid surfaces may be slowed down by airflow. Airflow can slow down the motions of smaller particles, facilitating the subsequent deposition of smaller particles. Locations of the infected person(s) lead to different spreading scenarios due to the distinctive motions of the particles generated by the various respiratory events. Sneeze particles will likely contaminate the person in front of the infected passenger only. Cough particles will increase the risk of all the people around the injector. Breath particles tend to spread throughout the confined environment. An optimized vent scheme is introduced and can reduce particles suspended in the air by up to 80% as compared with commonly used schemes. The purification function of this vent model is robust to various positions of the infected passenger.

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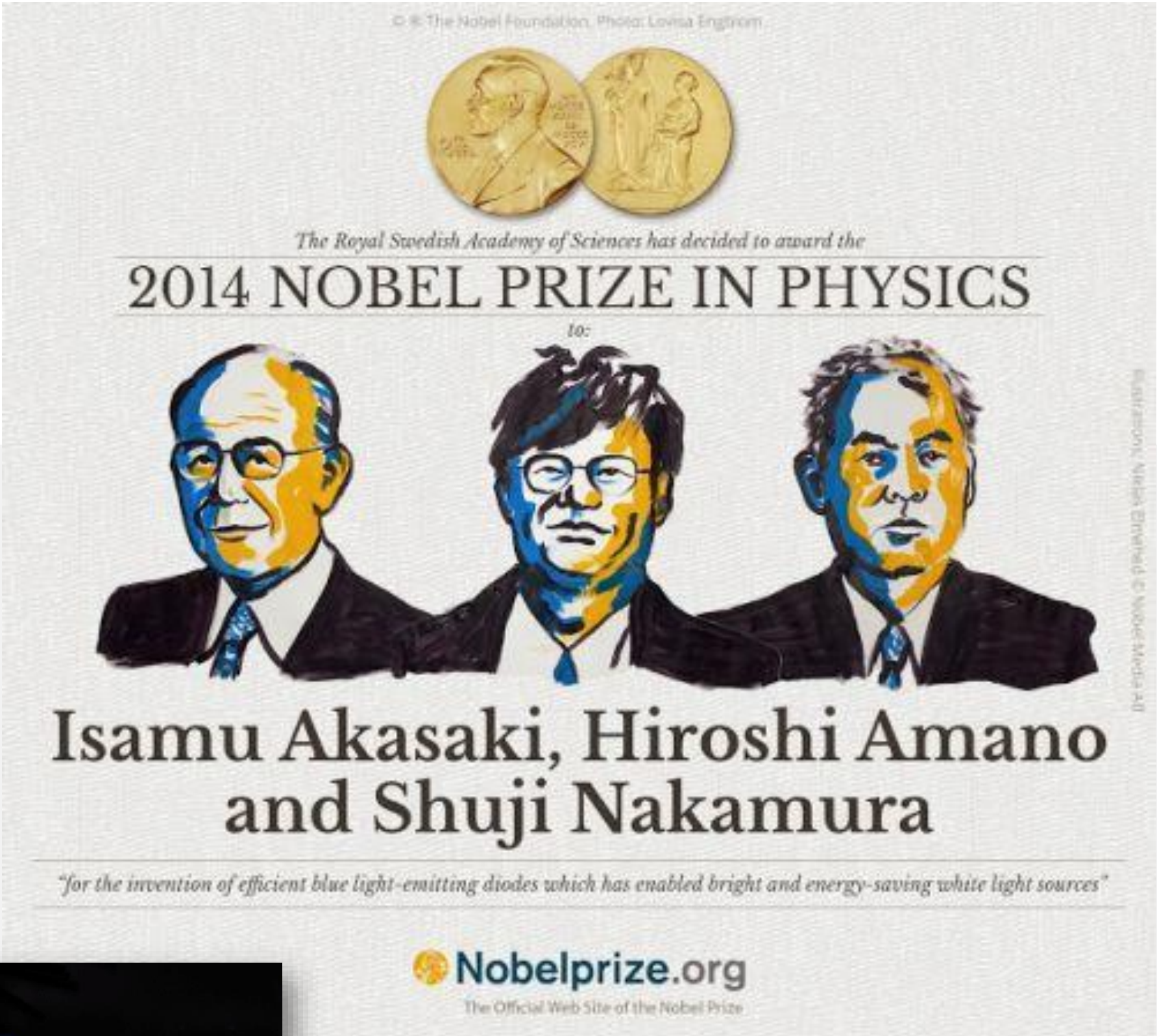
# I 文献综述

# 如何快速定位诺贝尔奖得主在APL中的关键突破？

蓝光LED的研发始于20世纪60年代，尽管红光与绿光LED已相继问世，但蓝光因材料难题长期停滞，科学家尝试硒化锌等材料均未突破。直至1980年代，日本科学家赤崎勇和天野浩转向氮化镓（GaN）研究，却受限于无法实现p型掺杂（使材料导电的关键步骤）。1990年代初，当时在日亚化学工作的中村修二以简陋条件革新MOCVD（金属有机化学气相沉积）技术，成功在蓝宝石衬底上生长出高质量GaN晶体，并攻克p型掺杂难题，于1993年研发出首颗高亮度蓝光LED。这一突破不仅填补了LED三原色的最后空白，使白光LED（通过蓝光激发荧光粉）成为可能，更彻底革新了照明与显示产业，其高效节能特性大幅降低全球能源消耗，因而被誉为“21世纪照明革命”。中村修二凭借颠覆性技术贡献和产业化推动，被尊为“蓝光LED之父”，其发表在*Applied Physics Letters (APL)*上的系列论文（如p型掺杂方法和器件结构优化）成为领域基石。2014年，他与赤崎勇、天野浩共获诺贝尔物理学奖，获奖理由不仅在于科学难题的攻克，更因其将基础研究转化为普惠全球的实用技术，深刻推动了可持续发展。



中村修二（Shuji Nakamura）美籍日裔材料学家，“蓝光LED”之父，诺贝尔物理学奖得主，美国国家工程院院士，加州大学圣塔芭芭拉分校教授。



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JOURNAL ARTICLES

Novel metalorganic chemical vapor deposition system for GaN growth

Shuji Nakamura, Yasuhiro Harada, Masayuki Seno

Journal: Applied Physics Letters

Appl. Phys. Lett. 58, 2021–2023 (1991)

https://doi.org/10.1063/1.105239

Published: May 1991

...Shuji Nakamura; Yasuhiro Harada; Masayuki Seno A novel metalorganic chemical vapor deposition (MOCVD) system, which has two different flows, has been developed. One flow carries a reactant gas parallel to the substrate, and the other an inactive gas perpendicular to the substrate for the purpose...

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High-power InGaN/GaN double-heterostructure violet light emitting diodes

Shuji Nakamura, Masayuki Senoh, Takashi Mukai

Journal: Applied Physics Letters

Appl. Phys. Lett. 62, 2390–2392 (1993)

https://doi.org/10.1063/1.109374

Published: May 1993

...Shuji Nakamura; Masayuki Senoh; Takashi Mukai InGaN/GaN double-heterostructure light-emitting diodes were fabricated. The output power was 90 μW and the external quantum efficiency was as high as 0.15% at a forward current of 20 mA at room temperature. The peak wavelengths...

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Candela-class high-brightness InGaN/AlGaIn double-heterostructure blue-light-emitting diodes

Shuji Nakamura, Takashi Mukai, Masayuki Senoh

Journal: Applied Physics Letters

Appl. Phys. Lett. 64, 1687–1689 (1994)

https://doi.org/10.1063/1.111832

Published: March 1994

...Shuji Nakamura; Takashi Mukai; Masayuki Senoh Candela-class high-brightness InGaN/AlGaIn double-heterostructure (DH) blue-light-emitting diodes (LEDs) with the luminous intensity over 1 cd were fabricated. As an active layer, a Zn-doped InGaIn layer was used for the DH LEDs. The typical output power...

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《用于GaN生长的新型金属有机化学气相沉积系统》（1991）

中村修二通过改进MOCVD（金属有机化学气相沉积）技术，首次实现高质量氮化镓（GaN）晶体生长，突破了材料制备的核心瓶颈，为后续LED器件开发奠定基础。

《高功率InGaN/GaN双异质结紫光发光二极管》（1993）

首次利用InGaN/GaN双异质结结构实现高功率紫光LED，验证了氮化物材料在短波长发光器件中的可行性，为蓝光LED的诞生铺平道路。

《坎德拉级高亮度InGaN/AlGaIn双异质结蓝光发光二极管》（1994）

成功研制出首个商业化高亮度蓝光LED，结合荧光粉技术可直接生成白光，彻底革新照明行业，成为2014年诺贝尔物理学奖的核心成果。

1991

解决材料生长问题

↓

1993

验证紫光器件潜力

↓

1994

实现蓝光LED突破

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Panpan Li, Hongjian Li, Yifan Yao, Haojun Zhang, Cheyenne Lynsky, Kai Shek Qwah, James S. Speck, Shuji Nakamura, Steven P. DenBaars  
Journal: Applied Physics Letters  
*Appl. Phys. Lett.* 118, 261104 (2021)  
[https://doi.org/10.1063/5.0054005](#)  
Published: June 2021

...Panpan Li; Hongjian Li; Yifan Yao; Haojun Zhang; Cheyenne Lynsky; Kai Shek Qwah; James S. Speck; Shuji Nakamura; Steven P. DenBaars We demonstrate efficient cascaded blue/green micro-size light-emitting diodes ( $\mu$ LEDs) with independent junction control. The cascaded  $\mu$ LEDs...

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Reduced dislocation density and residual tension in AlN grown on SiC by metalorganic chemical vapor deposition

Christian J. Zollner, Abdullah Almogbel, Yifan Yao, Burhan K. SaifAddin, Feng Wu, Michael Iza, Steven P. DenBaars, James S. Speck, Shuji Nakamura  
Journal: Applied Physics Letters  
*Appl. Phys. Lett.* 115, 161101 (2019)  
[https://doi.org/10.1063/1.5123623](#)  
Published: October 2019

...Christian J. Zollner; Abdullah Almogbel; Yifan Yao; Burhan K. SaifAddin; Feng Wu; Michael Iza; Steven P. DenBaars; James S. Speck; Shuji Nakamura Crack-free AlN films with threading dislocation density (TDD) below  $10^9 \text{ cm}^{-2}$  are needed for deep-UV optoelectronics...

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Infrared luminescence from N-polar InN quantum dots and thin films grown by metal organic chemical vapor deposition

Caroline E. Reilly, Cory Lund, Shuji Nakamura, Umesh K. Mishra, Steven P. DenBaars, Stacia Keller  
Journal: Applied Physics Letters  
*Appl. Phys. Lett.* 114, 241103 (2019)  
[https://doi.org/10.1063/1.5109734](#)  
Published: June 2019

...Caroline E. Reilly; Cory Lund; Shuji Nakamura; Umesh K. Mishra; Steven P. DenBaars; Stacia Keller N-polar InN quantum dots and thin layers grown by metal organic chemical vapor deposition were shown to exhibit tunable emission from around  $1.00 \mu\text{m}$  to longer than  $1.55 \mu\text{m}$  at room...

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## 高效率级联蓝绿微型发光二极管 ( $\mu$ -LED) 及其独立结控制的演示 (2021)

**器件创新：**通过级联结构和独立结控制技术，**显著提升微型蓝绿光LED的发光效率**，为下一代高分辨率显示（如AR/VR、Micro-LED屏幕）提供关键器件方案。

## 通过金属有机化学气相沉积在SiC衬底上生长的低位错密度与残余张力AlN (2019)

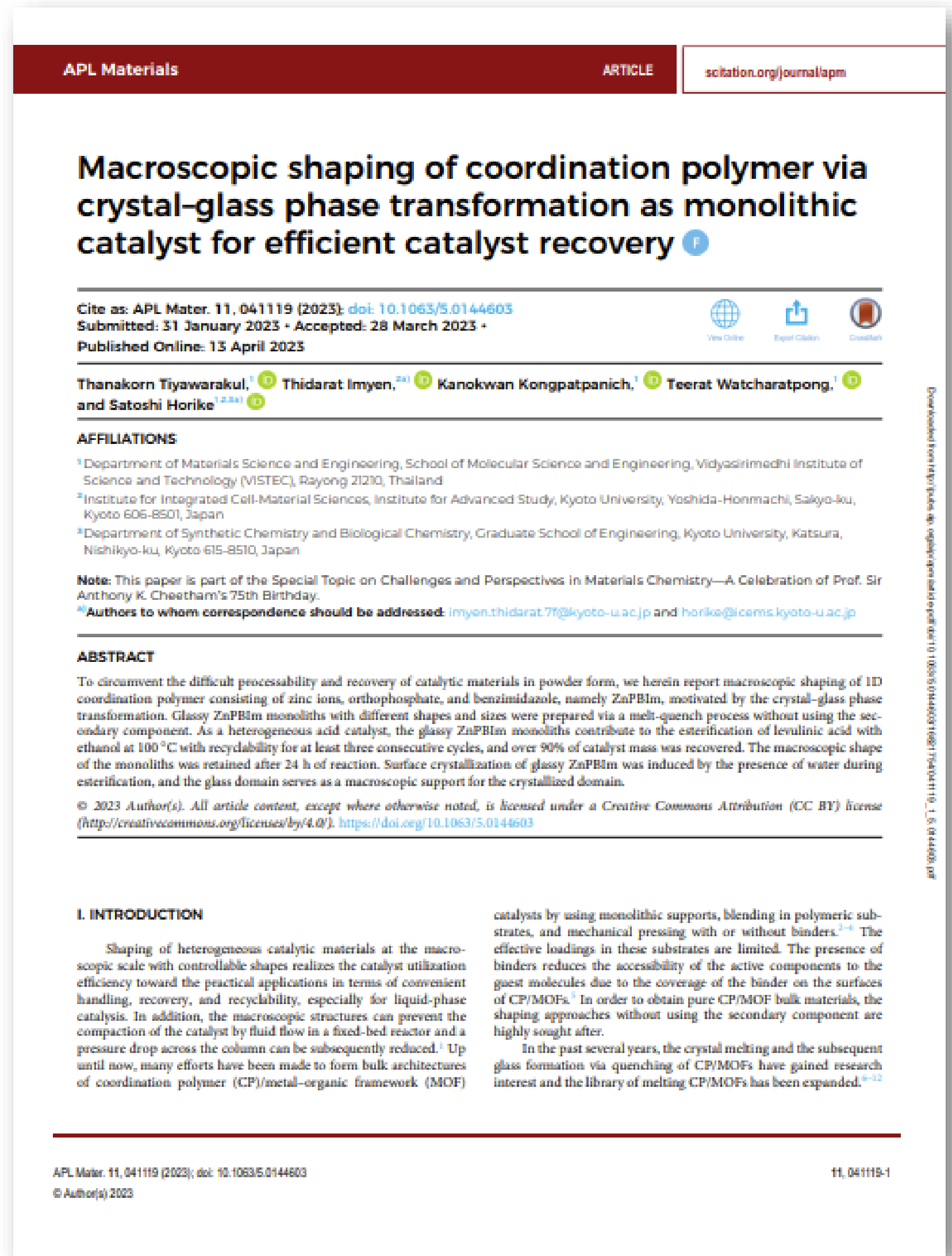
**材料优化：**优化AlN在碳化硅（SiC）衬底上的生长工艺，**大幅降低材料缺陷和应力**，为高性能深紫外LED、高功率电子器件奠定可靠材料基础。

## 金属有机化学气相沉积生长的N极性InN量子点与薄膜的红外发光特性 (2019)

**新波段探索：首次实现N极性InN量子点与薄膜的红外发光，拓展氮化物材料在红外光电（如光通信、夜视传感）领域的应用潜力。**

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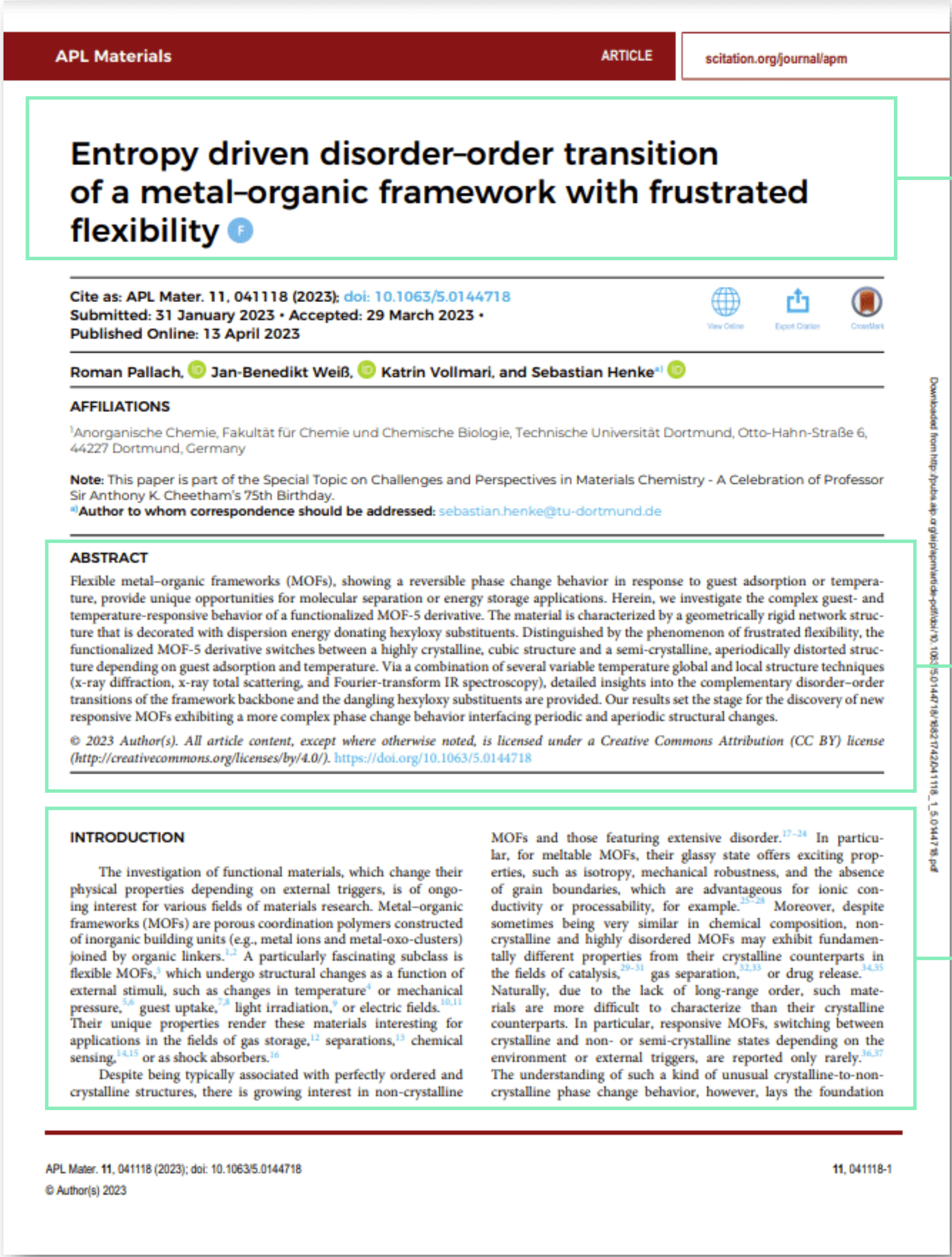
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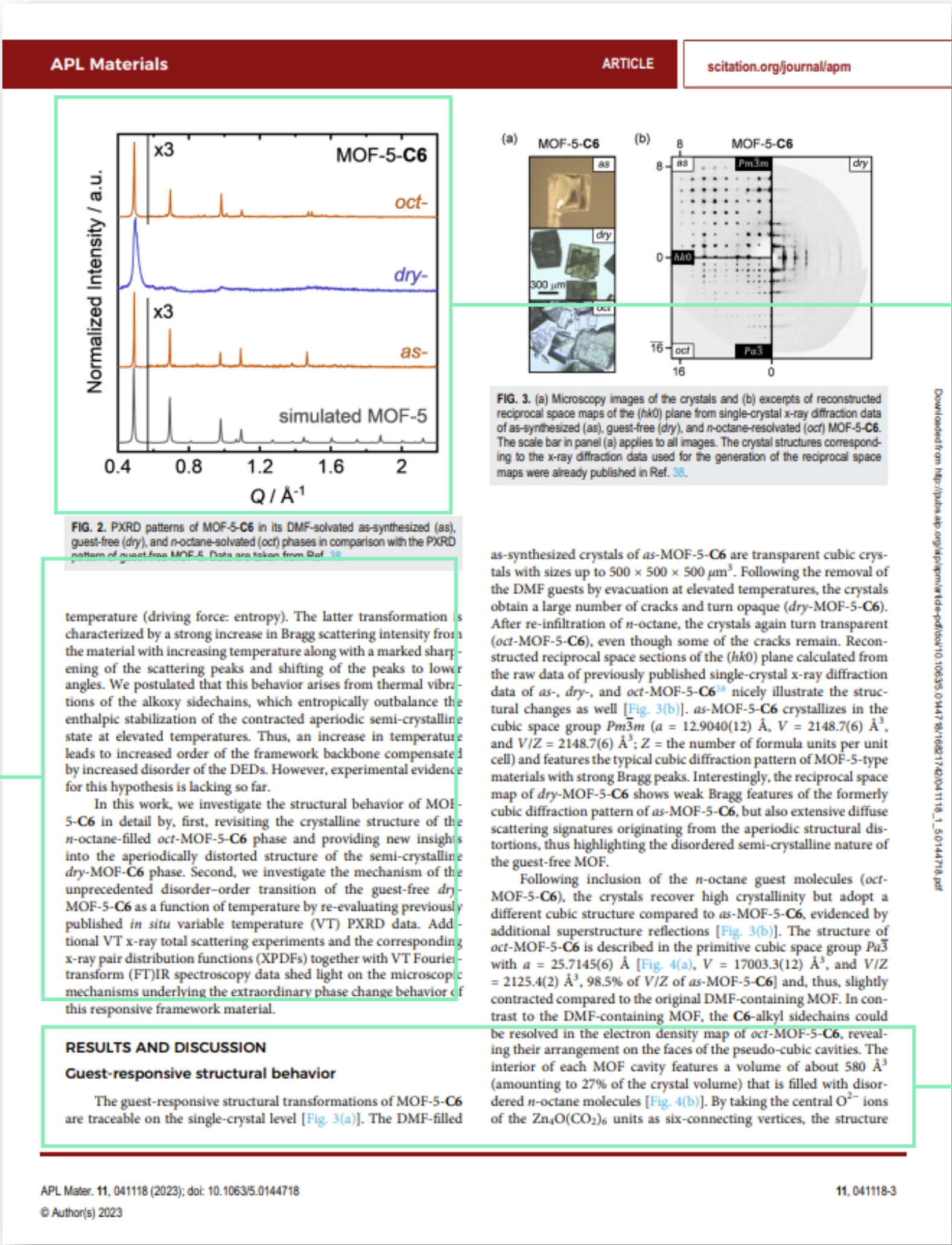
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**数据可用性**根据AIPP的数据共享政策，所有支持论文结论的数据集都需要提供给读者。



## 校对原稿：

- 主题鲜明
- 逻辑清晰
- 易于理解
- 语言直白
- 意见反馈

## 参考文献清单：

- 信息完整
- 按照期刊要求的格式

# 投稿信 (cover letter)



投稿信有助于向编辑介绍论文，如何通过投稿信给编辑留下深刻的第一印象？

✓帮助编辑快速获取关键评估信息

✓**做了什么研究？** - **领域**

✓您的研究**如何**促进相关领域的发展？ - **新颖性、意义**

✓**为何**您的研究能引起期刊读者兴趣？ - **领域、意义**



**提示：**如果投稿信不含保密信息，可能会提交给审稿人。

# 论文写作——语言

学术论文是比较严肃的发表物。作者应该使用正式，客观，并简洁的语言，除非作者准确了解所用语句表达的语义

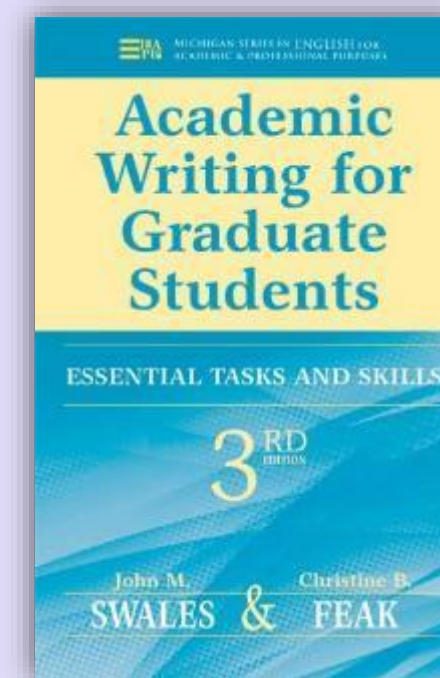
| 如果你的论文有这样的词句                | 建议考虑改为                                       |
|-----------------------------|----------------------------------------------|
| “... higher and higher ...” | “increasingly higher”                        |
| “... keep an eye on ...”    | “... monitor ...”                            |
| “... obviously ...”         | “... evidently ...”                          |
| “... much higher ...”       | “... significantly/substantially higher ...” |
| “... we guess ...”          | “... we speculate ...”                       |

尽量使用**主动语态**，避免被动式！

| **    | Introduction | Methods | Results  | Discussion |
|-------|--------------|---------|----------|------------|
| 现在时   | High         | Low     | Low      | High       |
| 过去时   | Mid          | High    | High     | Mid        |
| 现在完成时 | Mid          | Low     | Low      | Mid        |
| 被动语态  | Low          | High    | Variable | Variable   |
| 引用    | High         | Low     | Variable | High       |
| 第三人称  | Mid          | Low     | Mid      | High       |
| 评价性意见 | High         | Low     | Variable | High       |

# 论文写作——提升

- 科技**术语**是否正确？
- 写作**风格**是否能被期刊以及整个学术界接受？
- 使用编辑、审稿人和读者阅读科研文献、参加学术讨论时所习惯的**语言**。



- ✓ 通过参考写作指南类的书籍、文章和网络课程，可以帮助您提高总体写作技巧



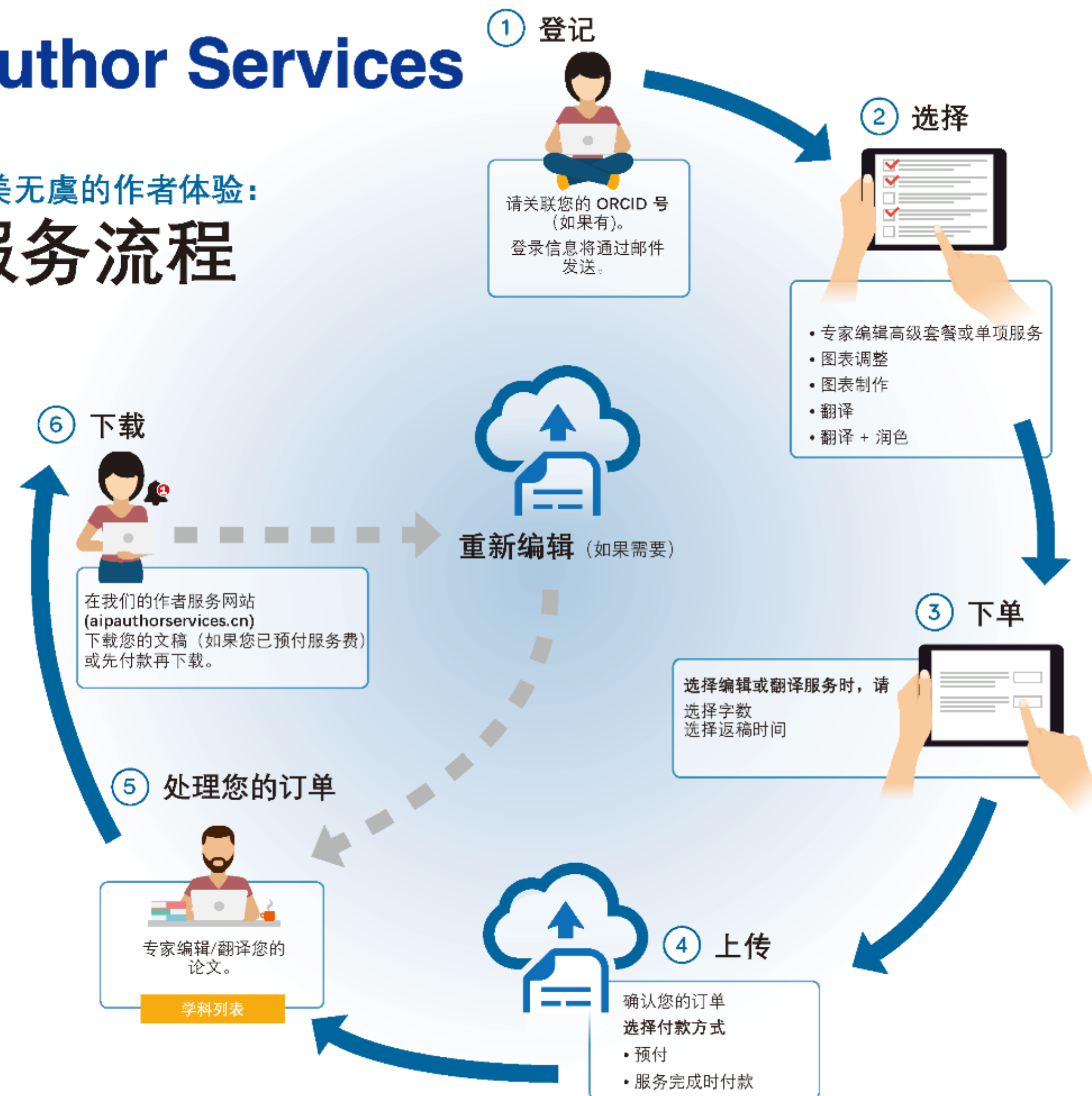
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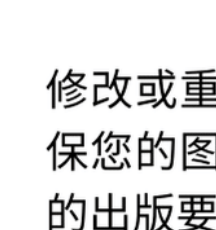
英语语言编辑

确保您的研究论文用词准确、条理清晰。我们将为您分配一位英语母语学科编辑，由其认真编辑您的稿件，检查并修改的部分包括句子结构、用词和语法，从而确保期刊编辑和审稿人能够完全理解您的研究。



图表制作

通过专业制作的图表和图示，确保论文的研究结果得以更加生动、直观的展现。我们可以将您的目录制作作为所需的图片格式，这项服务可以为您的作品建立强烈且一致的视觉形象。



图表格式调整



期刊选择工具

确定目标投稿期刊与论文本身一样重要。使用我们的免费期刊选择工具，寻找能最大限度覆盖目标读者并能够使研究影响力最大化的期刊。

我们的稿件编辑和翻译服务将极大提升您成功发表的可能性

## Ⅲ 选刊与投稿

# 如何快速判断您的研究是否适合 *Applied Physics Letters* (APL) ?

## 期刊的影响力

- 出版商期刊列表
- 索引数据库期刊列表

1

## 期刊的重点和范围

- 主题领域
- 文献类型
- ...

2

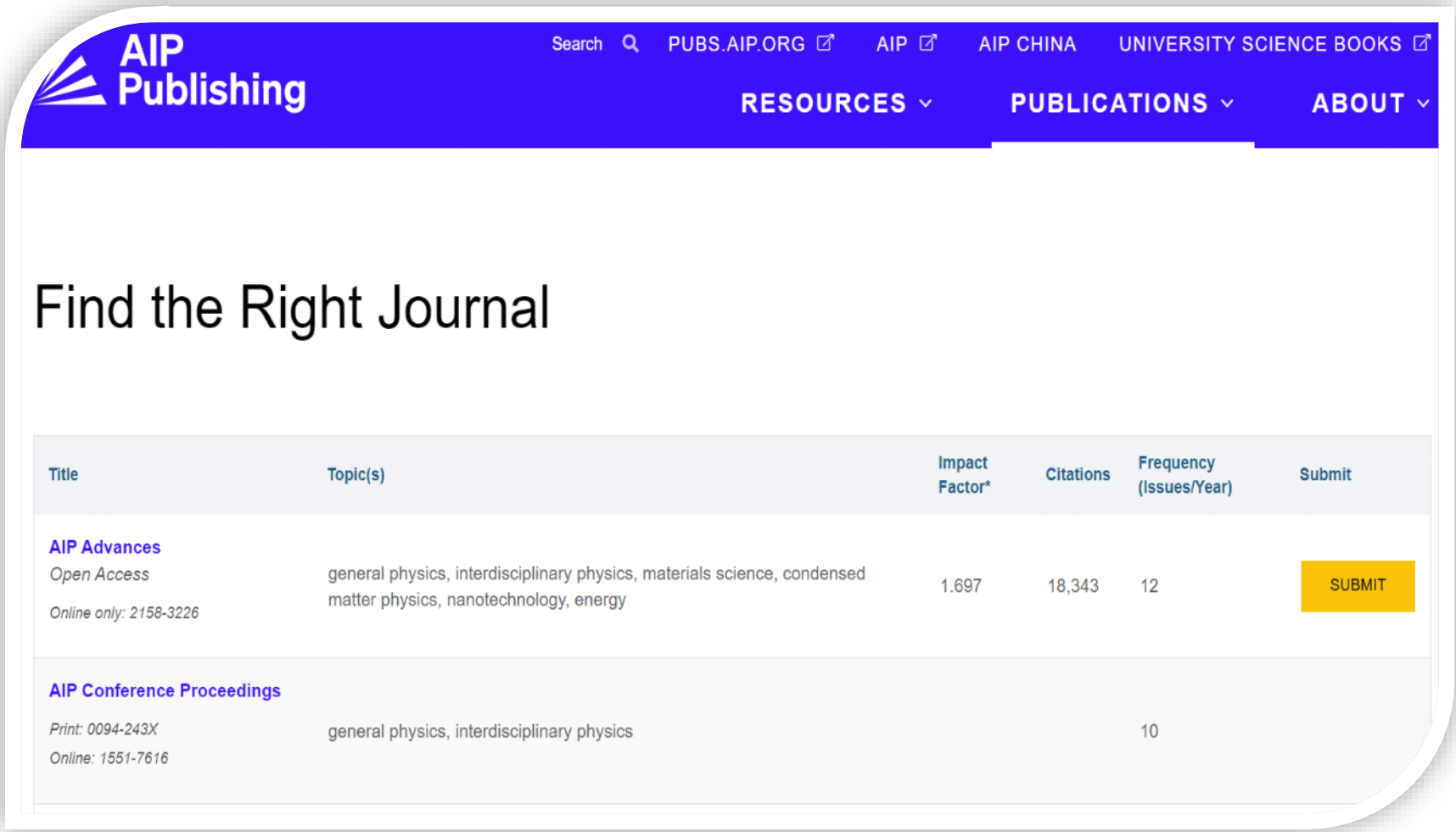
## 期刊的具体投稿要求

- 字数和格式
- 文件格式
- 数据可用性
- ...

3



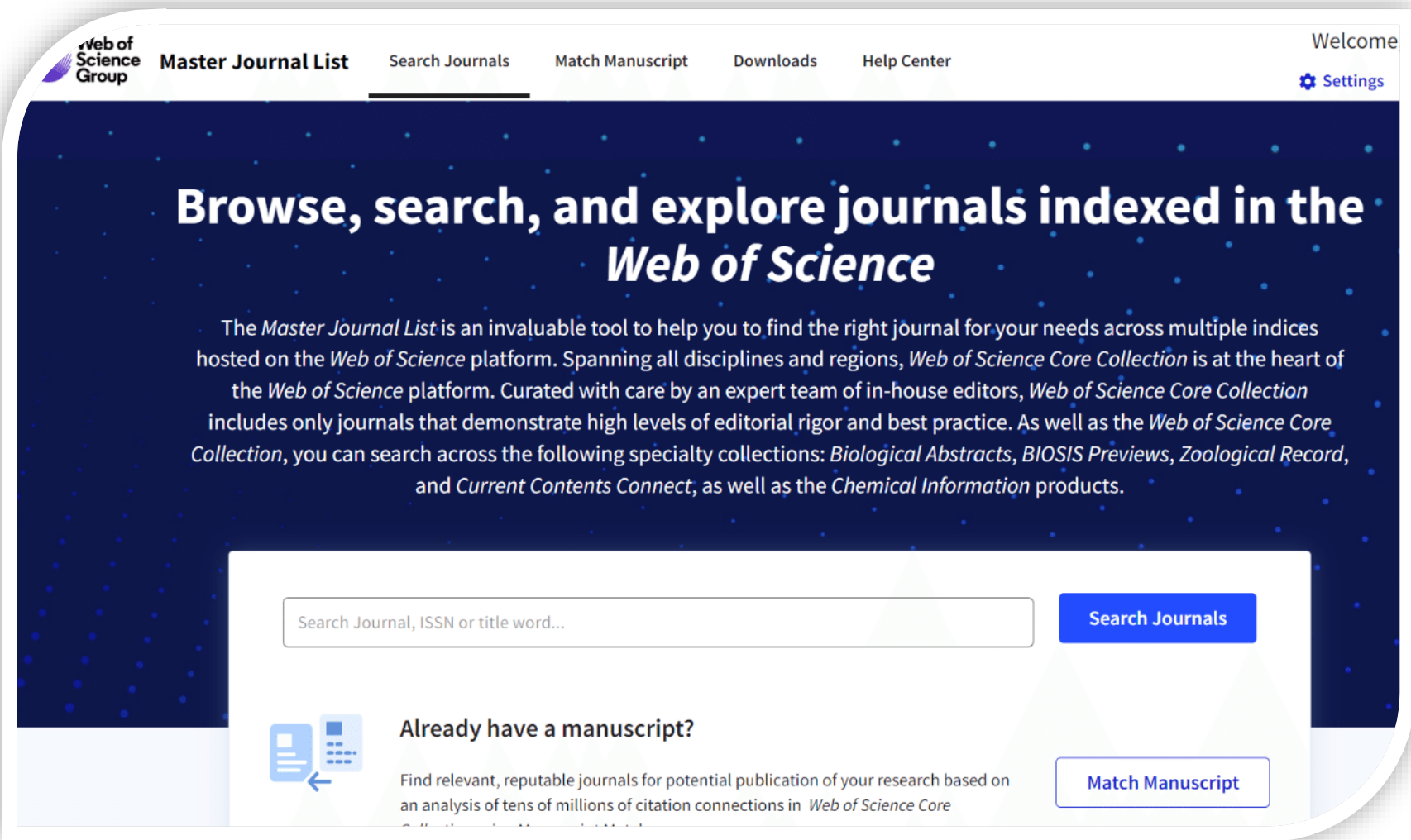
# 如何了解期刊的影响力？



01

## 出版商期刊列表

<https://publishing.aip.org/publications/find-the-right-journal/>



02

## 索引数据库期刊列表

- <https://mjl.clarivate.com/home>
- <https://www.scopus.com/sources.uri>

# 期刊重点和范围

HOMEBROWSECOLLECTIONSPUBLISH WITH USABOUT

Applied Physics Letters

Vol. 126, Iss. 13, 31 Mar. 2025

Stimuli-responsive luminescence in doped inorganic crystals

Shouhan Li, Xin Zhang, Jiangkun Chen, and Feng Wang

Light

Temperature

Intensity response

Wavelength response

Responsive crystals

Water/humidity

Pressure

CURRENT ISSUE

Volume 126, Issue 13,  
31 March 2025

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AIP PublishingApplied Physics Letters

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Focus and Coverage

Applied Physics Letters (APL) features concise, up-to-date reports on significant new findings in applied physics. Emphasizing rapid dissemination of key data and new physical insights, APL offers prompt publication of new experimental and theoretical papers reporting applications of physics phenomena to all branches of science, engineering, and modern technology.

In addition to regular articles, the journal also publishes invited Fast Track, Perspectives, Roadmaps, and in-depth Editorials which report on cutting-edge areas in applied physics.

APL Perspectives are forward-looking invited letters which highlight recent developments or discoveries. Emphasis is placed on very recent developments, potentially disruptive technologies, open questions and possible solutions. They also include a mini-roadmap detailing where the community should direct efforts in order for the phenomena to be viable for application and the challenges associated with meeting that performance threshold. Perspectives are characterized by personal viewpoints and opinions of recognized experts in the field.

Fast Track articles are invited original research that provide a significant advancement in an emerging field and request Fast Track upon submission to be considered for rapid publication. The importance of the work, the peer review process, and the journal's mission ensure that the paper does not meet the Fast Track criteria.

A Roadmap is a type of review article. This article provides a comprehensive overview of the field as a whole. The content of a Roadmap should focus on the current state of the field within a field from multiple expert perspectives. Roadmaps should provide a discussion and evaluation of the field.

Topics covered in APL are diverse and reflect the broad scope of applied physics. The journal's focus is on the application of physics to technology and engineering. The following topics are covered in APL:

- Photonics and optoelectronics
- Surfaces and interfaces
- Metasurfaces and metamaterials
- Advanced materials
- Semiconductors
- Phononic, acoustic, and thermal properties
- Magnetism and spintronics
- Superconductivity and superconducting electronics
- Dielectrics, ferroelectrics, and multiferroics
- Low-dimensional and topological materials
- Solution-processable electronics and photonics
- Device physics and nanotechnology
- Biophysics, bioimaging, and biosensors
- Energy conversion and storage
- Quantum technologies
- Interdisciplinary applied physics

2023 Journal Citation Reports® (Clarivate, 2024)\*:

|                         |         |
|-------------------------|---------|
| Five-Year Impact Factor | 3.5     |
| Impact Factor           | 3.5     |
| Immediacy Index         | 0.8     |
| Cited Half-Life         | 11.7    |
| EigenFactor Score       | 0.07370 |
| Article Influence Score | 0.833   |
| Total Citations         | 178,216 |

\* Data from the 2023 Journal Citation Reports® Science Edition (Clarivate, 2024).

ISSN

The international standard serial number (ISSN) for Applied Physics Letters is 0003-6951 for the printed edition and the electronic ISSN (E-ISSN) is 1077-3118 for the online edition.

The CODEN is APPLAB.

# 如何投稿——遵循所选期刊的具体要求

- 符合稿件**字数和格式**要求
- 提供指定**文件格式**的文件
- 遵循期刊的特定要求，如关于**数据可用性**的要求
- 阅读并遵循期刊的**作者政策**

作者说明: <https://publishing.aip.org/resources/researchers/author-instructions/>

The screenshot shows the AIP Publishing website's 'Author Instructions' page. The header includes the AIP Publishing logo and navigation links for Search, Pubs.AIP.org, AIP, AIP China, and University Science. The main navigation bar has 'RESOURCES' and 'PUBLICATIONS' dropdowns. The breadcrumb trail reads 'RESEARCHER RESOURCES > AUTHOR INSTRUCTIONS'. The left sidebar lists various resources: 'Featured', 'Author Instructions' (highlighted), 'Before You Begin', 'Open Science', 'Policies and Ethics', 'Rights and Permissions', 'Publishing Academy', and 'Awards'. At the bottom of the sidebar is a 'SUBMIT YOUR ARTICLE' button. The main content area is titled 'General Manuscript Guidelines' and contains a 'Table of Contents' with links to 'Preparing Your Manuscript', 'Acceptable File Formats', 'Microsoft Word Users', 'LaTeX Users', 'Format Needed for Initial Submissions', 'English-Language Editing', 'General Manuscript Guidelines', and 'Essentials'. A box on the right highlights 'Additional Journal Specific Instructions' with a list of journals: AIP Advances: MMM Articles, Applied Physics Letters (APL), APL Bioengineering (APB), APL Energy (APE), APL Machine Learning (AML), APL Materials (APM), and APL Quantum Science (AQS).

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# APL的具体要求

## Applied Physics Letters (APL)

*Applied Physics Letters* (APL) is an international, peer-reviewed letters journal publishing concise papers in all areas of applied physics that communicate original research discoveries justifying rapid publication.

### Cover Letter

Authors submitting to APL are encouraged to provide a cover letter as part of their submission.

- It can help convey the importance of the research to the Editors, explain why you consider the paper appropriate for the broad readership of *Applied Physics Letters*, and specifically how it aligns with the [criteria for publication](#).
- The cover letter should make a clear statement on the manuscript's significance and list related work by the authors.
- This letter will not be shared with reviewers. It is intended to aid in the editorial pre-screening of manuscripts.

### Cover Letter:

- 阐明研究价值：向编辑强调成果的**创新性与重要性**。
- 匹配期刊定位：解释稿件与APL “**应用导向、广泛读者兴趣**” 的契合点。
- 内容要求：需明确声明科学意义，**并列出作者相关已发表工作（如领域内前期研究）**。
- 投稿信仅用于**编辑预审**，**审稿人不可见**，可自由陈述研究亮点与投稿动机。

## Manuscript Information:

### Article Length

- At the time of initial submission, **your paper needs to be 3000 words or less, including figure and table captions**. This word count excludes the title, author list, abstract, acknowledgments, data availability statement, references, and non-text items including figures, tables, and equations.
- **Normally, papers longer than 3000 words will be rejected**, and the authors will be required to shorten the paper and submit it again as a new manuscript.
- Longer papers may be considered only in exceptional cases if the quality warrants special consideration. Authors will need to explain the need for the additional length in their cover letter.

### Use of Figures

- Authors are encouraged to include up to five figures in the paper to illustrate their results.
- Images may be grouped together as separate panels in one figure if they are logically connected and clear to the reviewer and readers.

### Use of Section Headings

- Section heading are not permitted in Letters.

文章长度：APL要求正文（含图表标题）不超过**3000字**，超限稿件通常需精简后重投，确保内容简明聚焦。仅对质量卓越且需额外篇幅论证的突破性研究开放超字数通道，但需在投稿信中充分说明合理性。

# 期刊中心

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### Applied Physics Letters

Shaping the future of applied physics

Applied Physics Letters是由美国物理联合会出版社出版的混合型期刊，创刊于1962年。主编Maria Antonietta Loi来自荷兰格罗宁根大学。期刊出版原创性研究论文、前瞻性文章（Perspectives）及综述。

**APL 涵盖的主题丰富多样，反映了应用物理学中最重要的研究领域，包括：**

- Photonics and optoelectronics
- Surfaces and interfaces
- Metasurfaces and metamaterials
- Advanced materials
- Semiconductors
- Phononic, acoustic, and thermal properties
- Magnetics and spintronics
- Superconductivity and superconducting electronics

- Dielectrics, ferroelectrics, and multiferroics
- Low-dimensional and topological materials
- Solution-processable electronics and photonics
- Device physics and nanotechnology
- Biophysics, bioimaging, and biosensors
- Energy conversion and storage
- Quantum technologies
- Interdisciplinary applied physics

#### 期刊引文影响力表现

2023 期刊引证报告

- 五年影响因子: 3.5
- 影响因子: 3.5
- 立即指数: 0.8
- 被引用半衰期: 11.7
- 总引用数: 178,216

**选择向Applied Physics Letters投稿的理由**

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- 绿色开放获取政策：轻松实现自我存档。
- 非盈利协会：致力于推动该领域的发展。

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  - 基于基础物理原理开发创新技术
  - 提出跨学科的科学进展，创造新的科学对话途径
  - 对实际应用有关键性作用
- 语言：所有稿件必须用英语清晰书写。
- 长度：初次投稿时，稿件需要在3000字以内（包括图表说明）。字数统计不包括标题、作者名单、摘要、致谢、数据可用性声明、参考文献以及非文本项（如图表和公式）。
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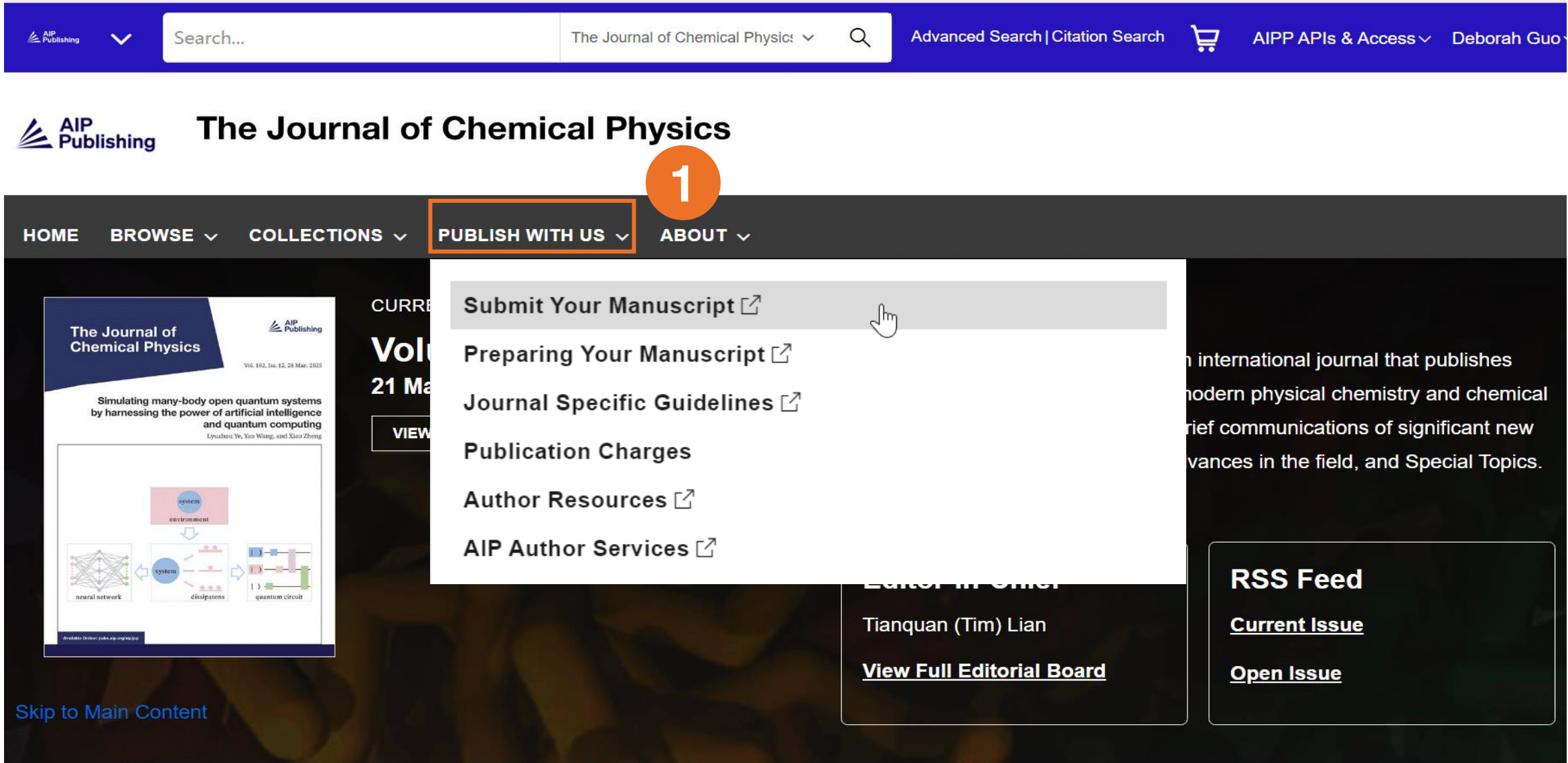
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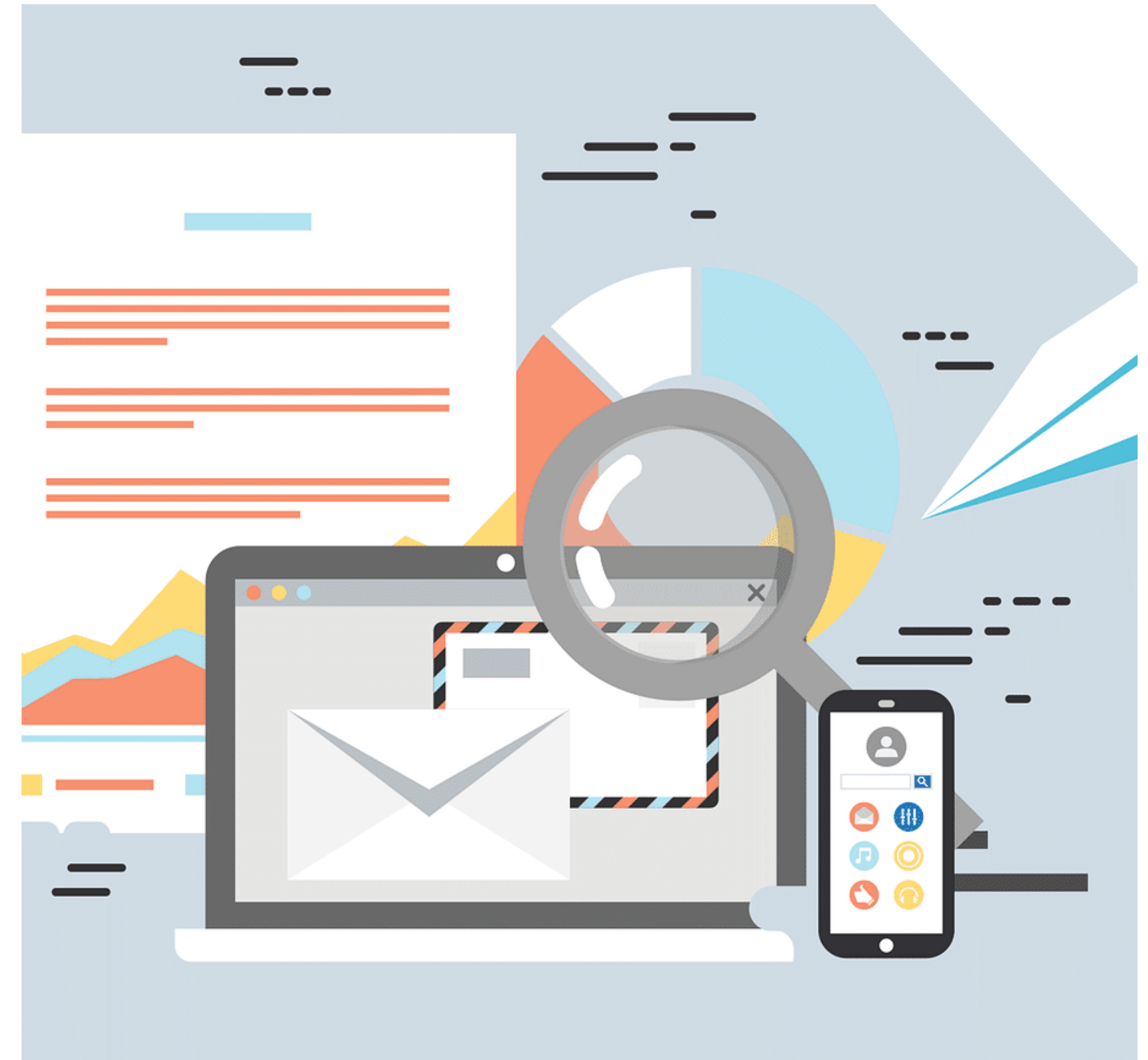
# 如何投稿——定位在线提交系统

- 在期刊的**主页**上找到在线提交系统的链接
- 百度**期刊认证**页面
- 与期刊编辑之前**通信的邮件**中也可以找到链接，尤其是在修改后的手稿上
- 一些期刊允许通过**预印本服务器**直接提交



# 如何投稿——填写提交表格

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- 提供所有作者的**联系方式**
- 代表所有作者**签署声明**，如关于利益冲突的声明
- 如果出现提示，建议潜在**审稿人**和您希望排除在外的审稿人
- 附上所有**手稿文件(manuscript)**和**投稿信(cover letter)**



# 如何投稿——投稿之后

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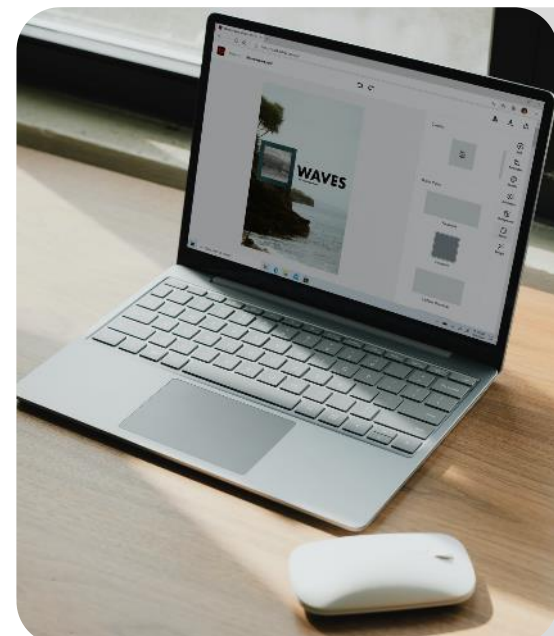
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# 学术期刊审稿入门指南与实践

## 第一部分：AIP出版社在线课程：学术期刊审稿的入门指南与实践（25分钟）

- 同行评议概览
- 审稿人的遴选与行为准则
- 撰写有价值的审稿意见

## 第二部分：与主编面对面：同行评议的见解与实践（30分钟）

- 审稿意见冲突解决策略
- 识别作者回复审稿的常见误区
- 稿件修订流程与多轮审稿反馈
- 拒稿后的申诉机制及申诉材料要点
- 防范科研成果盗用与审稿伦理
- 作者推荐或排除审稿人的规则与避免情况
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