

IOP

IOP Publishing | science first

IOP进步源于您的需求—平台及电子书相关培训

Liang Chen | Account Manager, China



Overview

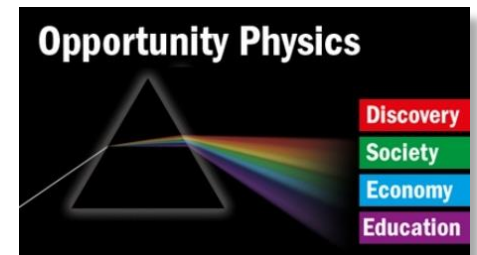
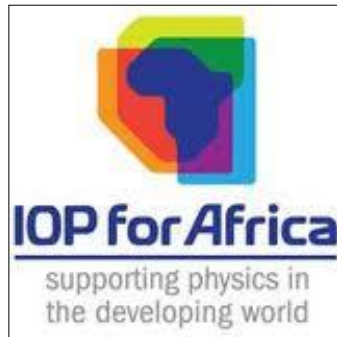
- IOP 和IOP Publishing简介
- DRAA用户情况
- IOP电子图书
- IOPscience平台使用指南

IOP
Institute of Physics



关于英国物理学会Institute of Physics

- 成立于1874年的学术协会, 总部设在伦敦。
- 全球范围内现有超过50,000会员
- 其使命是推动物理学教育、研究和应用的发展
- 与政策制定者、学生、教育工作者和大众紧密联系
- [www. iop. org](http://www.iop.org)



关于英国物理学会出版社 - IOP Publishing

- IOPP是IOP下属的非营利性学术出版和传播机构
- 总部设在英国布里斯托（Bristol），并在费城、华盛顿、慕尼黑、北京和东京设有办公室
 - 全球共有360名员工
- IOPP是一个全球性机构，仅有5%的期刊作者和收入来自英国
- 为其他学协会和研究机构提供出版服务，这些机构包括：中国物理学会、中科院、欧洲核子研究组织、美国天文学会、日本应用物理学会等
- 所有利润均被用于支持英国物理学会

IOP期刊的学科覆盖范围

- 天文学及天体物理学
- 生物学
- 化学
- 计算科学
- 教育学
- 工程学
- 材料学
- 数学
- 测量学
- 医学
- 纳米技术
- 物理学

非物理领域高质量期刊

International Journal of Extreme Manufacturing 《极端制造》

- 涵盖了与极限制造相关的领域，范围从基础到过程，测量和系统，以及具有极端功能的材料，结构和设备
- 2021年影响因子为10.036，涵盖了与极限制造相关的领域

Biofabrication 《生物制造》

- 生物制造领域的领先期刊
- 影响因子连年上升，2021年达到11.061，在生物工程领域排名前五，超过了本领域的70多种期刊



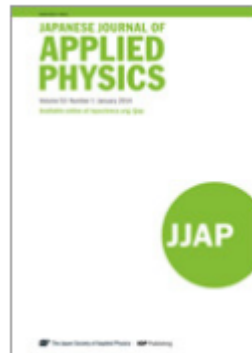
物理领域高质量期刊

IOP经典系列期刊--Journal of Physics系列

- 物理领域经典期刊系列
- Journal of Physics A: Mathematical and Theoretical
- Journal of Physics B: Atomic Molecular and Optical Physics
- Journal of Physics: Condensed Matter
- Journal of Physics D: Applied Physics
- Journal of Physics G: Nuclear and Particle Physics

工程领域的IOP期刊

- 102,000 + articles
- >40 Journals



IOP出版下列学协会的期刊

英国物理学会	中国物理学会	欧洲物理学会
德国物理学会	法国物理学会	俄罗斯科学院
欧洲光学学会	国际计量局	伦敦数学学会
国际原子能机构	瑞典皇家科学院	中科院等离子所和中国力学学会
医学物理和工程学会	美国天文学会	国际呼吸研究协会和国际呼吸气味研究学会
日本流体力学会	放射保护学会	意大利里雅斯特国际高级研究生院
中国天文学会		

IOP-在DRAA集团组团产品介绍

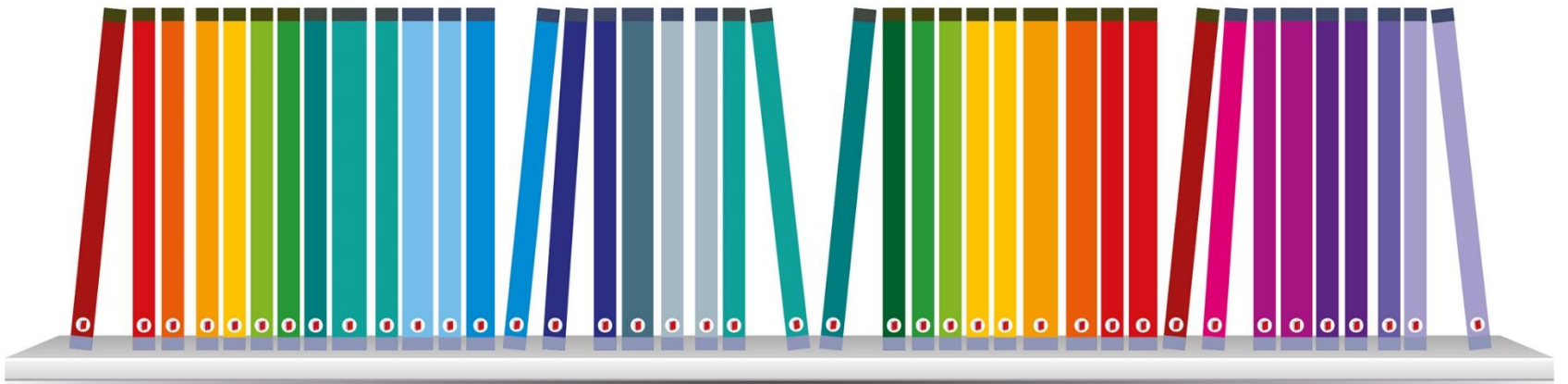
- IOP在DRAA组团购买75种电子期刊
- IOP在DRAA组团购买回溯数据
- IOP在DRAA组团购买电子图书

IOP期刊数据库-DRAA集团概况

- IOP为DRAA集团成员开放89种电子期刊，75种电子期刊100%被SCI收录，47种期刊影响因子高于2。期刊综合影响因子：3.173
- 89种期刊包含DRAA组团的75种期刊+NSTL全国授权的14种期刊
- 2002年开始组团
- IOP-DRAA集团现有120家成员
- 用户增加中……

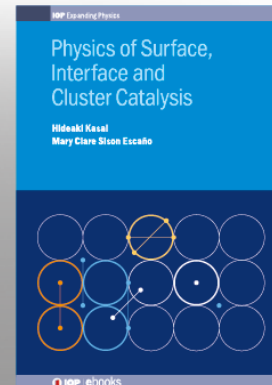
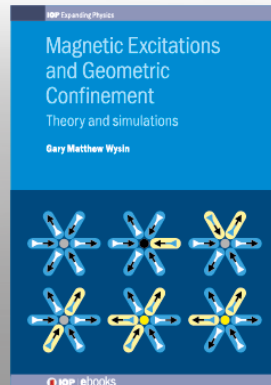
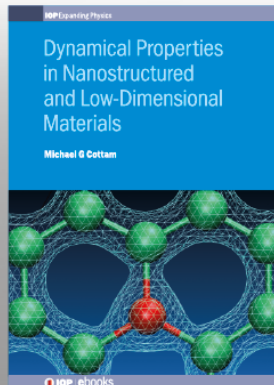
IOP电子书数据库-DRAA集团概况

- 2015年开始组团
- IOP-DRAA集团现有40余家成员
- 用户增加中……



IOP电子书

- IOP电子书数据库提供物理及相关学科的高质量著作，旨在为研究人员、教师、学生提供相关领域的权威性内容。
- 未来感十足的**原生电子**图书
- 来自**业内专家**的高质量物理领域图书
- 业内**最专业**的物理学协会出版社
- 目前已出版**800余种**经典的物理学、材料学等多学科图书
- 提供**专业MARC**数据



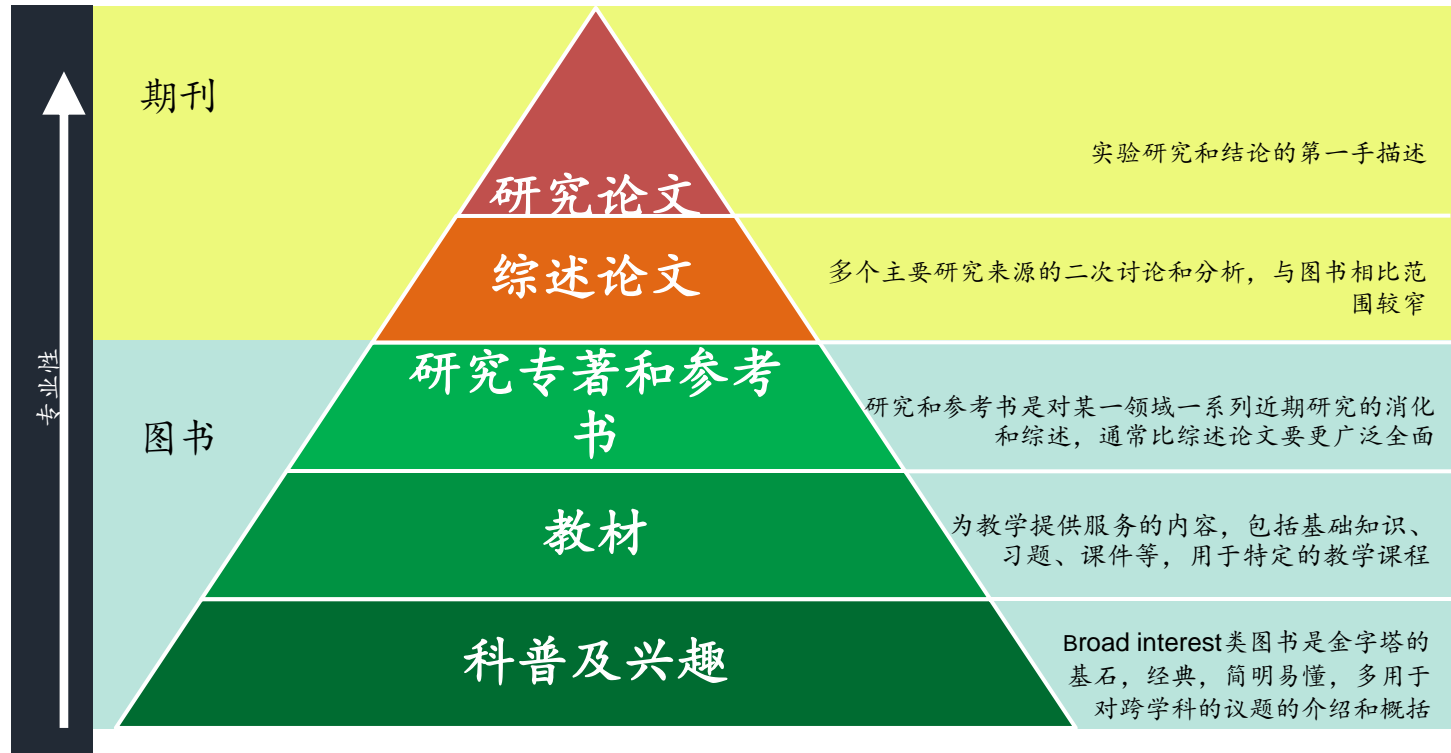
IOP电子书获得的国际奖项



伦敦书展国际卓越成就奖中的国际学术和专业出版商奖

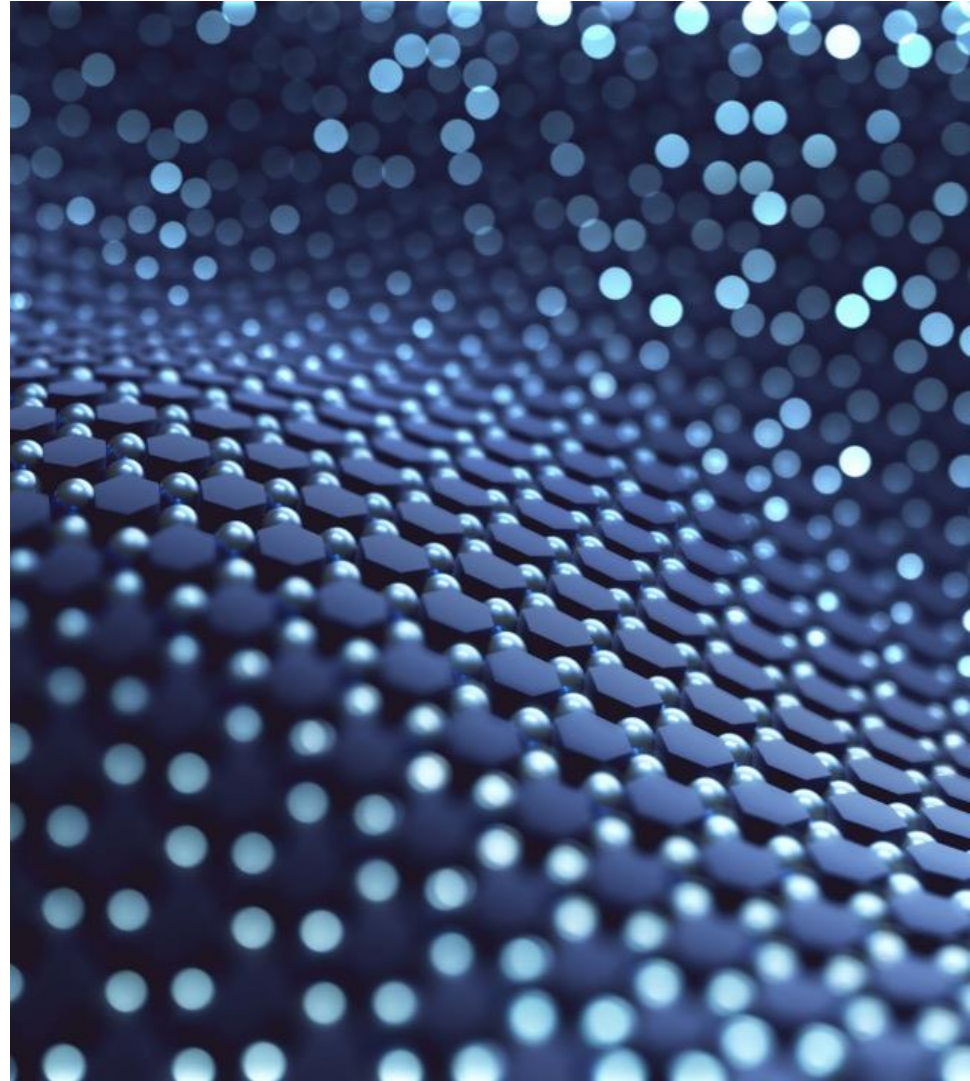
全球学术与专业出版者协会最佳创新奖





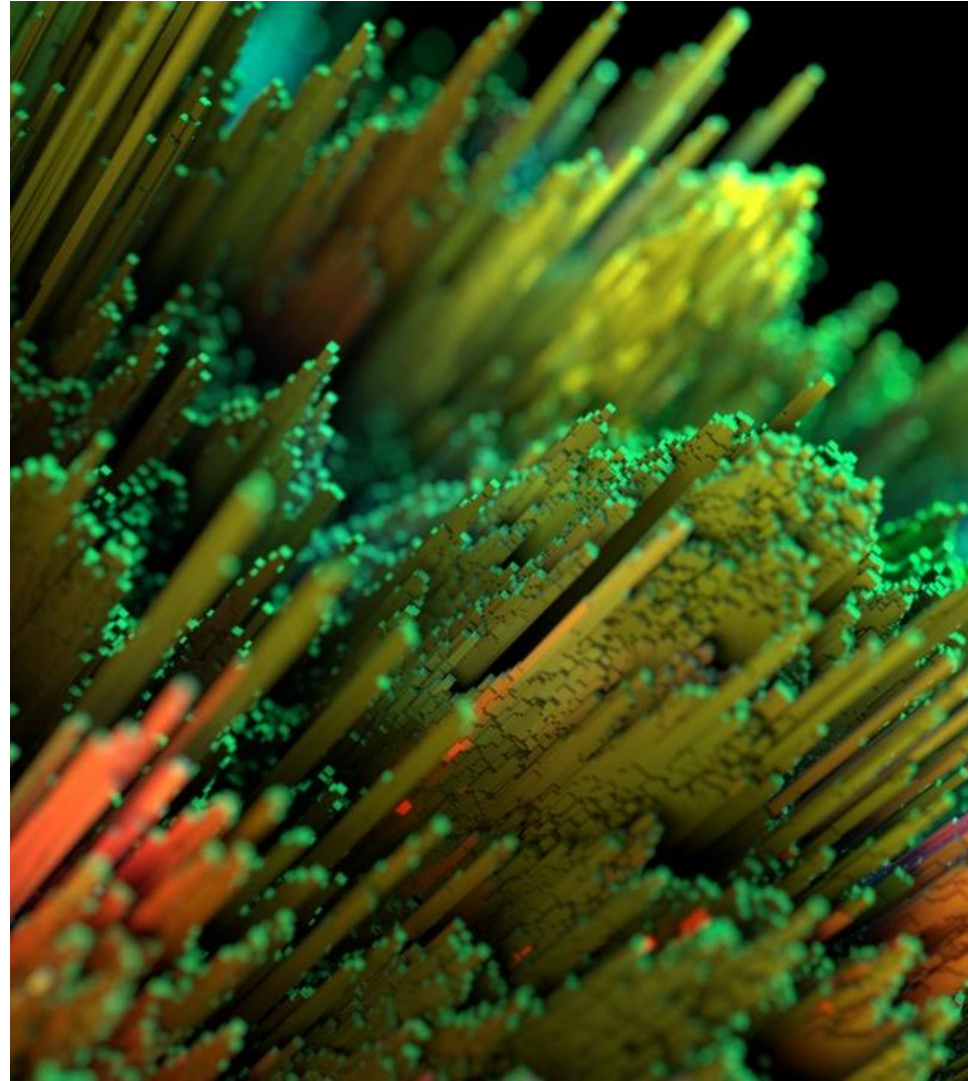
研究专著和参考书

- 科研专著或手册
- 更适合研究人员
- 最新研究、高质量、顶尖作者
- 研究导向



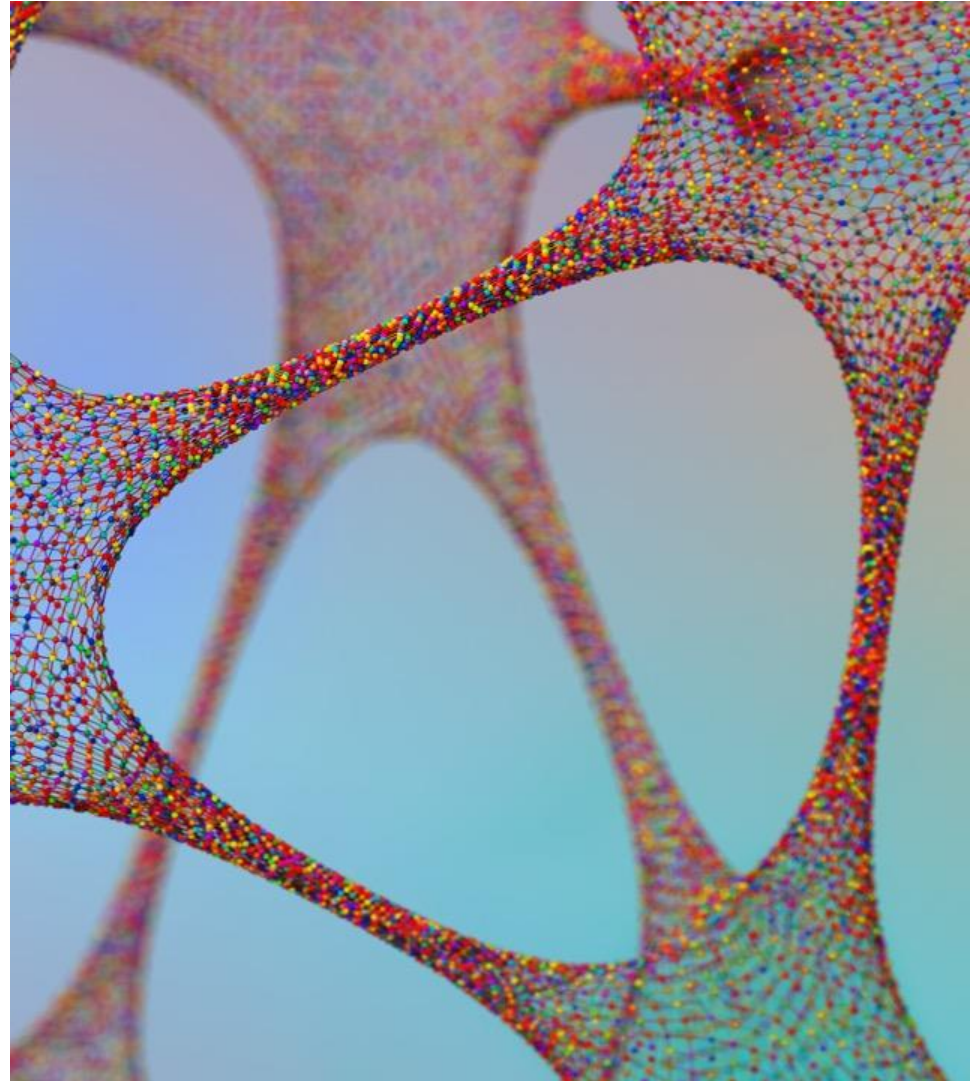
教材(Course texts)

- 为高年级本科生-研究生课程量身定制
- 以教程形式为学生编写，从基础知识开始，进而深入到应用和实践
- 习题，解决方案，工作示例，教学辅助
- 主要卖点 - 教科书包含在我们的数据库中，无需单独购买副本



科普及兴趣 (Broad interest)

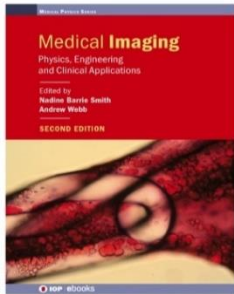
- 关注新兴话题及热门话题
- 通常具有跨学科的性质
- 为跨学科的研究人员提供某一热门话题的入门、综述、简介



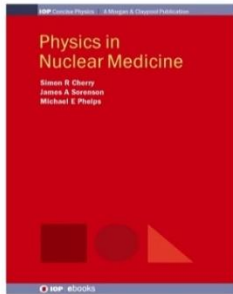
IOP电子书的特点

1. 多学科覆盖 - 物理，但不仅限于物理

medical titles

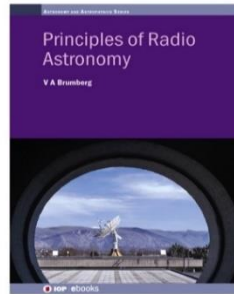


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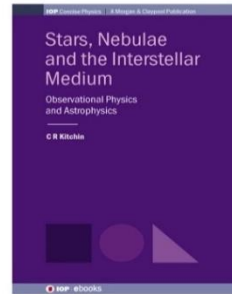


M&C + IOP

astronomical titles

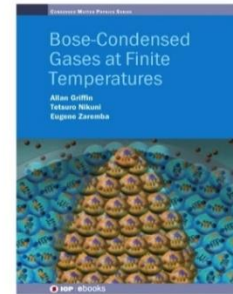


IOP

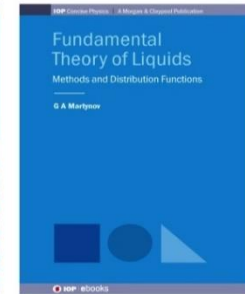


M&C + IOP

condensed matter titles



IOP



M&C + IOP

atomic and molecular physics

environmental physics and green energy

high energy and particle physics

quantum physics

condensed matter physics

biophysics

medical physics and biomedical engineering

quantum information and quantum computing

optics and photonics

geophysics and planetary science

nuclear physics

astronomy and astrophysics

sensors and instrumentation

materials science

statistical physics and thermodynamics

nanoscience and nanotechnology

applied and industrial physics

electronic materials and devices

mathematical and computational physics

plasma physics series

2. 系列丛书- 美国天文学会系列丛书

AAS -IOP天文学丛书将以著名作者为特色，旨在增进和分享人类对宇宙的科学理解。



GALAXIES AND
COSMOLOGY



INTERSTELLAR MATTER
AND THE LOCAL UNIVERSE



HIGH-ENERGY PHENOMENA
AND FUNDAMENTAL PHYSICS



THE SUN AND
THE HELIOSPHERE



STARS AND
STELLAR PHYSICS



LABORATORY ASTROPHYSICS,
INSTRUMENTATION, SOFTWARE, AND DATA



THE SOLAR SYSTEM, EXOPLANETS,
AND ASTROBIOLOGY

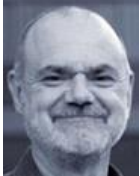


EDUCATION, OUTREACH,
AND HERITAGE

AAS-IOP天文学丛书编辑顾问委员会（部分）



史蒂夫·卡瓦勒
爱荷华州立大学
主席
恒星的结构和演化，星震学



伊桑·毗瑟尼亚克
约翰霍普金斯大学
湍流，吸积盘，天体物理物体的发电机理论，磁重联，冲击



迪特·哈特曼
克莱姆森大学
高能天体物理学，星系结构与演化，核合成，化学演化



彼得·马丁斯
乔治亚州立大学
太阳物理学，空间天气和空间气候，太阳-恒星联系，天文信息学



格里诺
美国宇航局系外行星科学研究所
系外行星，可居住区，X射线双星



琼·纳基塔
国家光学天文台
恒星和行星形成，红外光谱



丹尼尔·萨文
哥伦比亚大学
实验室天体物理学



史黛西·佩林
美国韦伯州立大学
行星星云的演化，天文学教育，小望远镜研究



詹森·巴恩斯
美国爱达荷大学
泰坦表面，系外行星



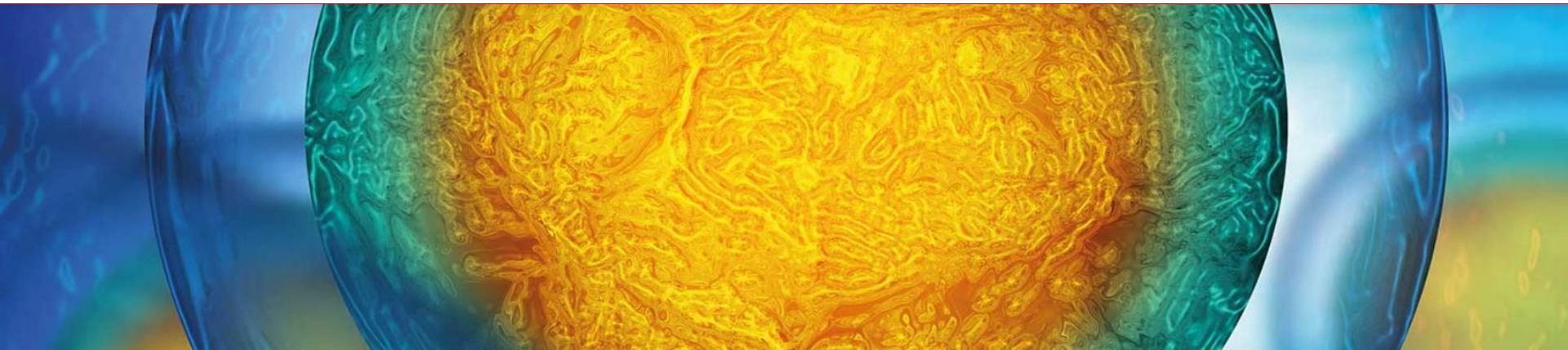
詹姆斯·科德斯
康奈尔大学
引力波天文学利用射电脉冲星作为探测器，快速射电爆发，银河系和其他星系的星际湍流

2. 系列丛书 - 生物物理学会系列丛书

该系列以教科书，研究专著和手册为特色，涵盖了生物物理领域的各个方面，包括研究、应用、教育、方法、计算工具和相关技术等。

主题包括：

生物能量学；生物工程；生物荧光；体内生物聚合物；冷冻电子显微镜；胞吐和内吞作用；固有无序蛋白质；机械生物学；膜生物物理学；膜结构与组装；分子生物物理学；运动和细胞骨架；纳米级生物物理学；和渗透与运输等。



生物物理学会系列丛书编辑顾问委员会（部分）



杰弗里·温斯顿·阿博特
加州大学欧文分校
离子通道, KCNE, 分子药理学, 上皮生物学, 心律失常, 溶质转运蛋白



凯特·麦克菲
爱丁堡大学
蛋白质自组装, 内在无序蛋白质



吉姆·塞勒斯
NIH
肌球蛋白的结构, 功能和调节



R. 马哈拉克什米
印度科学教育与研究所
线粒体膜蛋白折叠、功能和调控;分子实验生物物理学



迈克尔·奥斯塔普
宾夕法尼亚大学
分子马达, 细胞运动, 机械传感, 单分子生物物理学, 生物化学



大卫·塞普
密歇根大学
生物微纳米技术与分子工程、生物纳米技术、生物医学计算与建模



莱斯利·勒夫
康奈尔大学
用于记录细胞电活动的光学方法。细胞信号传导的计算模型。



米贝尔·阿吉拉尔
莫纳什大学
基于肽的药物和生物材料设计以及生物膜纳米技术



米里亚姆·古德曼
斯坦福大学
使用秀丽隐杆线虫作为模型系统引起触觉和温度感的分子事件



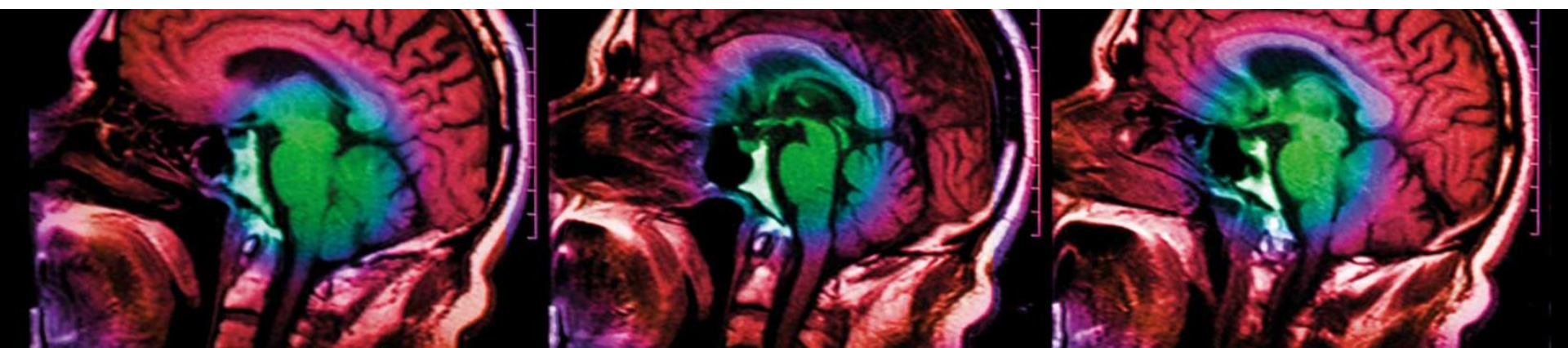
乔·霍华德
耶鲁大学
运动蛋白和细胞骨架力学

2. 系列丛书- 医学物理与工程学会系列丛书

该系列面向研究生，研究人员和从业人员，以医学物理学，生物医学工程和相关学科的专著和参考书为特色。

主题包括：

临床工程，诊断放射学，信息学和计算，磁共振成像，核医学，生理测量，辐射防护，放射治疗，康复工程，超声波和非电离辐射等。



医学物理与工程学会系列丛书编辑顾问委员会



卡梅尔·卡鲁阿纳
马耳他大学
诊断和介入放射学，保护免受电离辐射和其他物理物质的影响，以及医学物理学中的立法/专业/E&T问题



罗里·库珀
匹兹堡大学
康复工程



因陀罗·达斯
纽约大学
辐射剂量学，纳米颗粒，治疗计划，质子束，小场，放射性致变色膜和MRI



艾丽西亚·哈吉
伯明翰大学
生物工程



吴冠勋
马来西亚大学
乳房成像、放射防护、辐射剂量学、医学物理教育和风险沟通



约翰·霍萨克
弗吉尼亚大学
在临床/临床前成像中使用超声并影响局部药物输送



朱婷婷
牛津大学
信息工程，机器学习，生物医学信号处理，计算健康信息学，移动健康



丹尼斯·沙尔特
代尔夫特理工大学、荷兰
正电子发射断层扫描（PET）、飞行时间（TOF）PET、PET/MRI 和质子放射治疗



佩内洛普·阿利西-罗伯茨
BIPM
放射防护

2. 系列丛书– IOP主题领域系列丛书

- [光学、光子学和光电子学领域的发展系列](#)
- [生物医学科学中的人工智能系列](#)
- [相干源、量子基础知识和应用系列](#)
- [新兴技术系列](#)
- [成像工程系列](#)
- [全球健康和放射肿瘤学系列](#)
- [医学和生物图像分析中的应用系列](#)
- [次世代计算系列](#)
- [核光谱和核结构系列](#)
- [物理教育系列](#)
- [等离子体物理系列](#)
- [量子技术系列](#)
- [可再生能源和可持续电力中的应用系列](#)
- [传感器和传感器系统系列](#)
- [光谱方法和应用系列](#)
- [电磁学和超材料系列](#)
- [微米和纳米计量系列](#)
- [光医学和生物光子学系列](#)
- [物理科学中的波现象系列](#)

3. 优秀的作者 - 提供来自全世界顶尖作者的多学科著作



University College London
New York University
Oxford University
Cambridge University
Max-Planck Institute
University of Manchester
University of Tokyo
University of California
National University of Singapore
McGill University
Tsinghua University
Pennsylvania State University
University of Massachusetts
NASA, Goddard Space Flight Center
Weill Cornell Medicine
University of Edinburgh

4. 100% 约稿 - 内容质量至关重要

从不接受非约稿的书籍，没有重复出版

我们寻找作者而不是作者寻找我们

每本书籍都经过严格的审稿流程，包括至少一名独立审稿人

21个活跃的一系列丛书

与AAS/IPEM/BPS等学协会的良好合作关系有助于寻找领域内的最佳作者

5. 多种附加功能



作者视频摘要



可下载的源代码文件



交互式问答



在线研讨会



嵌入式作者笔记



随堂测验



可下载的模拟软件



嵌入式视频内容和动画



问题和解决方案



可下载的教学软件



交互式图表和数据



读者习题

嵌入式多媒体内容

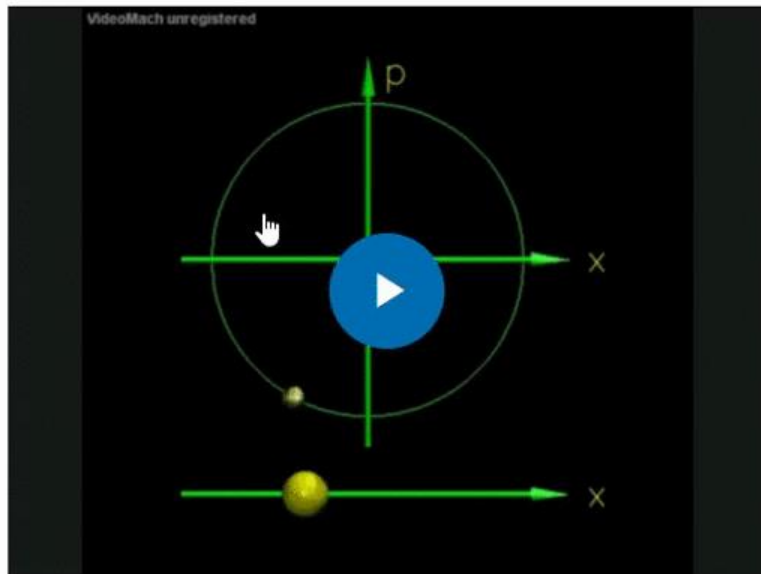


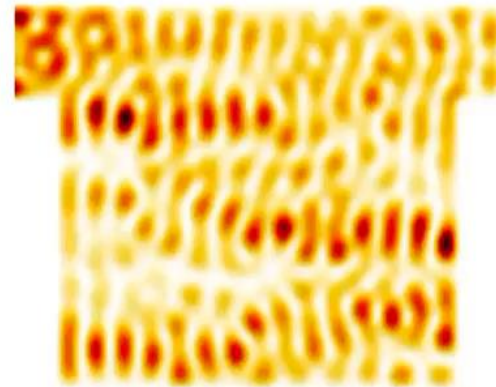
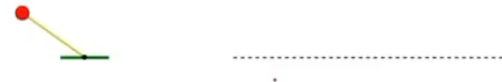
Figure 1.2. Trajectories in terms of the Lagrange and Hamiltonian formalisms. Animation available at <http://iopscience.iop.org/book/978-0-7503-1341-4>.

Download figure:



Pendulum Driven by $\tau = F\cos(\omega t)$

Phase Plot: $\dot{\theta}$ vs θ



交互式图表和数据

1.1. An Interactive Scatter Plot Example

In order to provide a series of examples of increasing complexity, we first use two basic 3D structures: a green dice and a red dice. These models are designed with incremental complexity leading to the visualization of a datacube from the Very Large Array (VLA; see Section 3.1.2). Screenshots of both the green and red dice examples (as drawn inside the MAYAVI interactive plotting window) are presented in Figure 2.

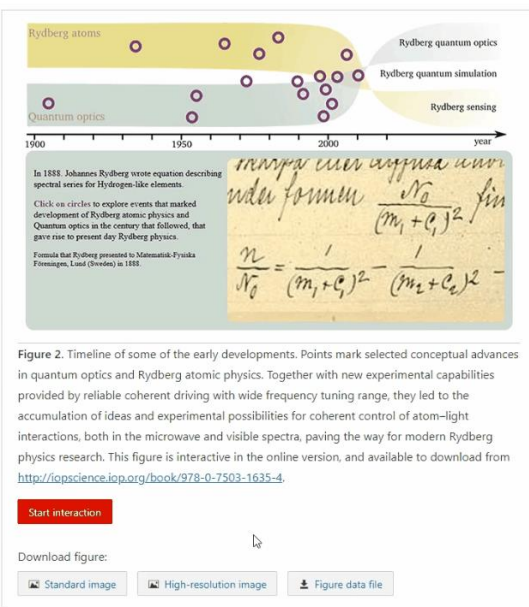
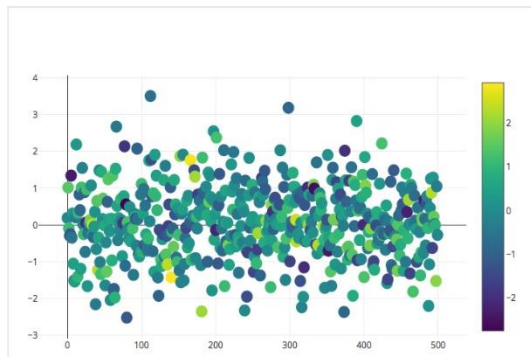


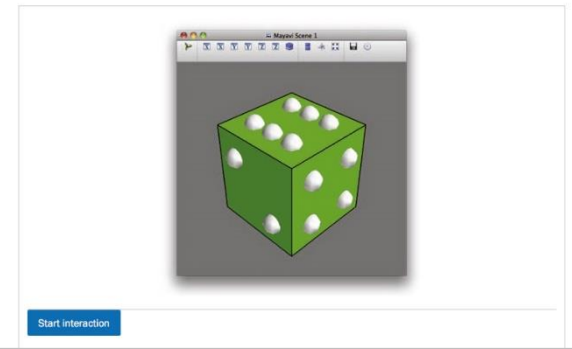
Figure 2. Timeline of some of the early developments in quantum optics and Rydberg atomic physics. Together with new experimental capabilities provided by reliable coherent driving with wide frequency tuning range, they led to the accumulation of ideas and experimental possibilities for coherent control of atom-light interactions, both in the microwave and visible spectra, paving the way for modern Rydberg physics research. This figure is interactive in the online version, and available to download from <http://iopscience.iop.org/book/978-0-7503-1635-4>.

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3.1. Demonstration Data Sets

3.1.1. Green and Red Dice

In order to provide a series of examples of increasing complexity, we first use two basic 3D structures: a green dice and a red dice. These models are designed with incremental complexity leading to the visualization of a datacube from the Very Large Array (VLA; see Section 3.1.2). Screenshots of both the green and red dice examples (as drawn inside the MAYAVI interactive plotting window) are presented in Figure 2.



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1.6.1. Tidal gravitational forces

Let us first start by describing tidal gravitational forces in Newtonian physics. The force of gravity exerted by an object of mass M on a particle of mass m a distance r away is $\vec{F} = -\hat{r}GMm/r^2$, where \hat{r} is the unit vector pointing from M to m and r is the distance between the center of M and m . The corresponding acceleration is $\vec{a} = -\hat{r}GM/r^2 = -\nabla\phi$. We assume now that the mass m is spherical of radius Δr . The distance of M and the center of m is r . The force of gravity exerted by the mass M on a particle of mass m at a distance $r \pm \Delta r$ away on the line joining the centers of M and m is given by $\vec{F} = -\hat{r}GMm/(r \pm \Delta r)^2$. The corresponding acceleration is

$$\vec{a} = -\hat{r}GM \frac{1}{(r + \Delta r)^2} = -\hat{r}GM \frac{1}{r^2} \left(1 - \frac{2\Delta r}{r} + \dots\right) \quad (1.99)$$

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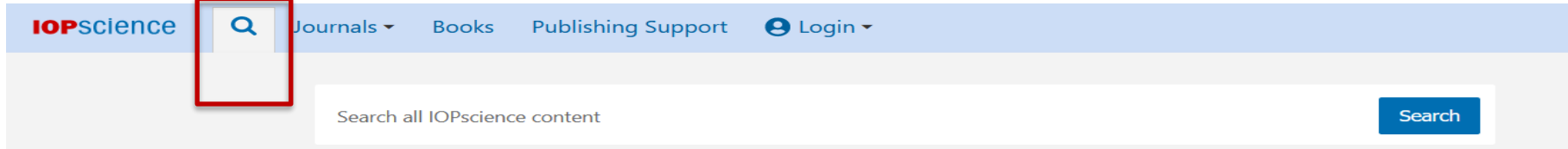
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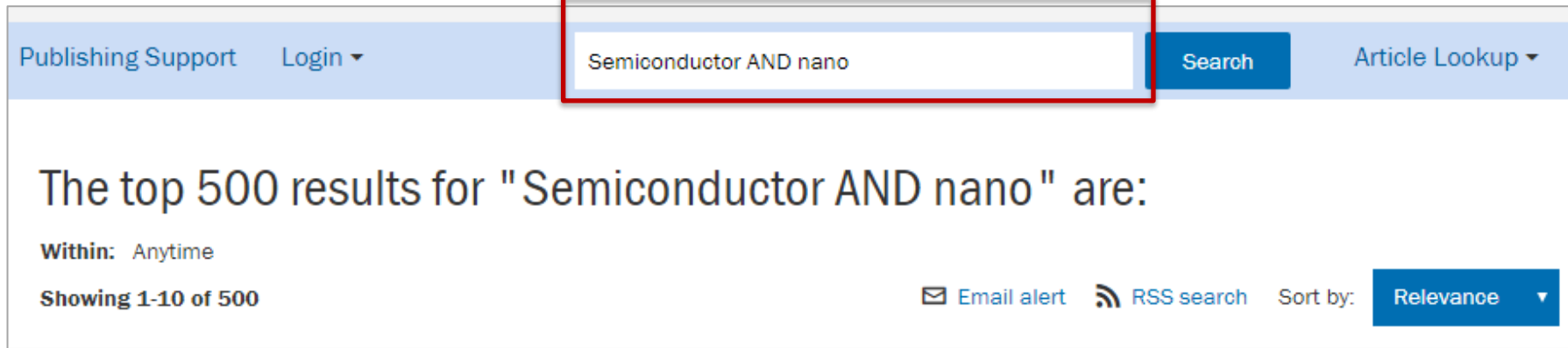
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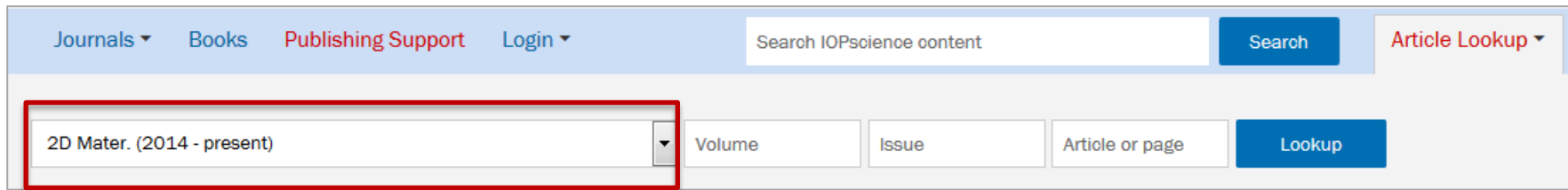
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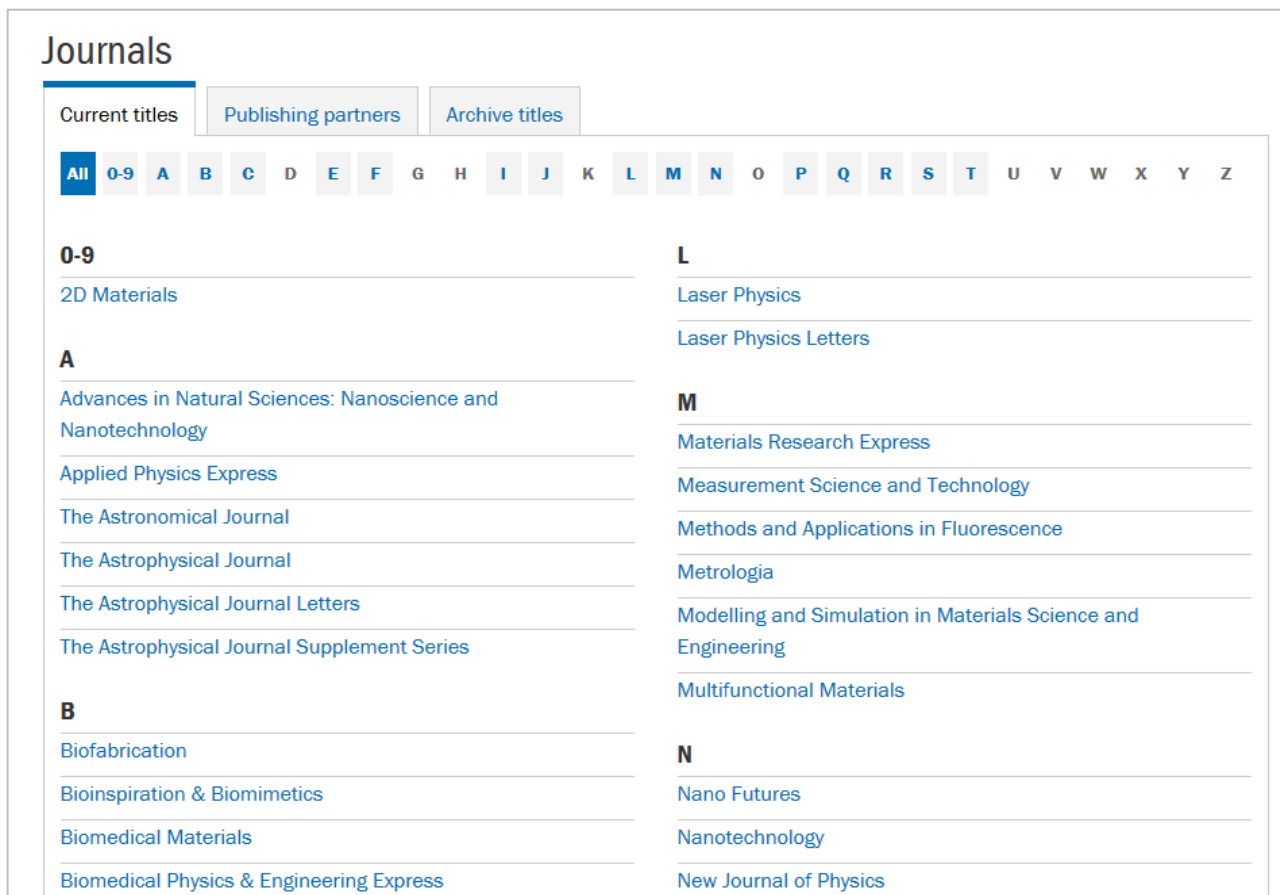
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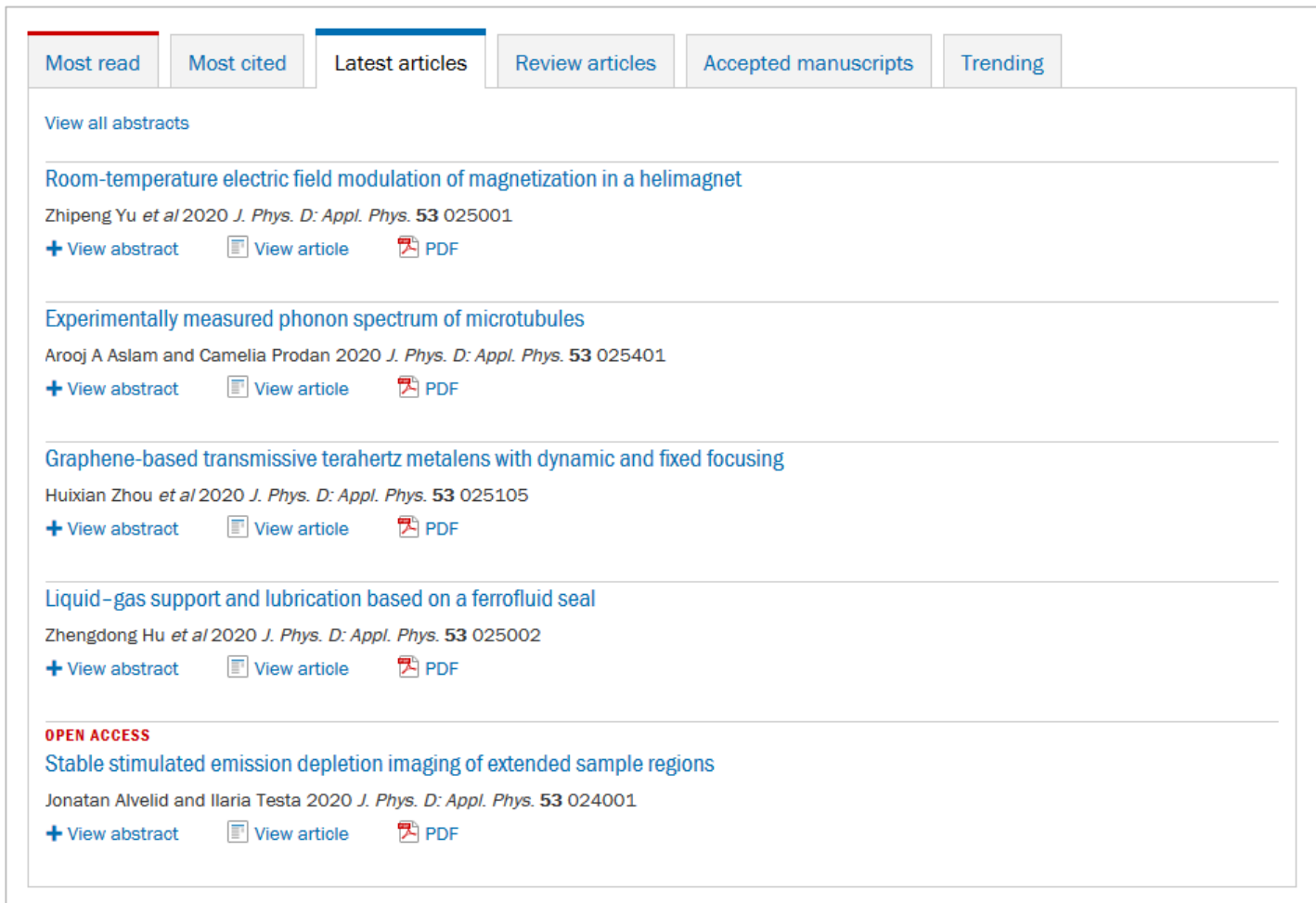
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M V Berry¹, N Brunner¹, S Popescu¹ and P Shukla²
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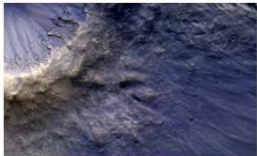
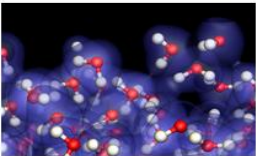
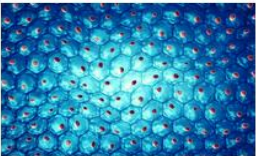
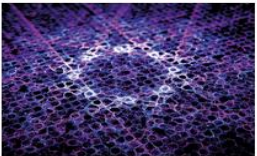
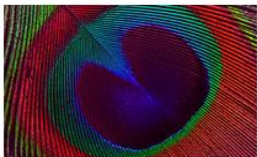

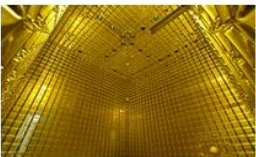
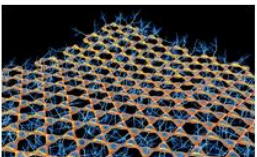


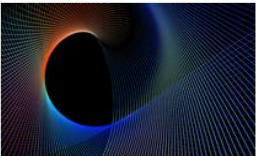



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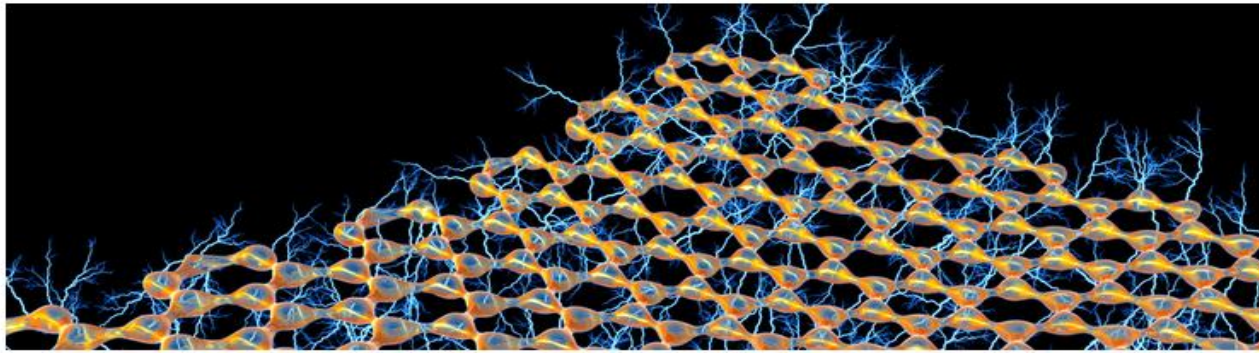


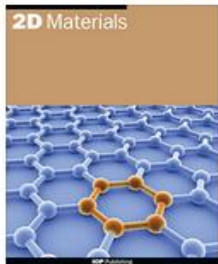
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Author
Jeff Greensite

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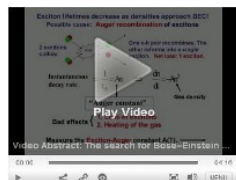
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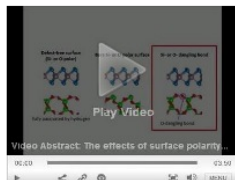
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Jose Ruben Morones¹, Jose Luis Elechiguerra¹, Alejandra Camacho², Katherine Holt³, Juan B Kouri⁴, Jose Tapia Ramirez⁵ and Miguel Jose Yacaman^{1,2}

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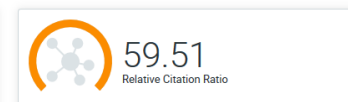
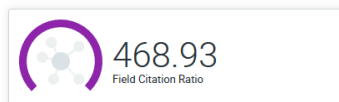
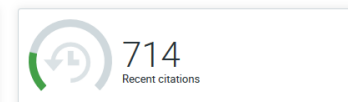
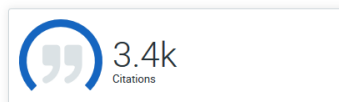
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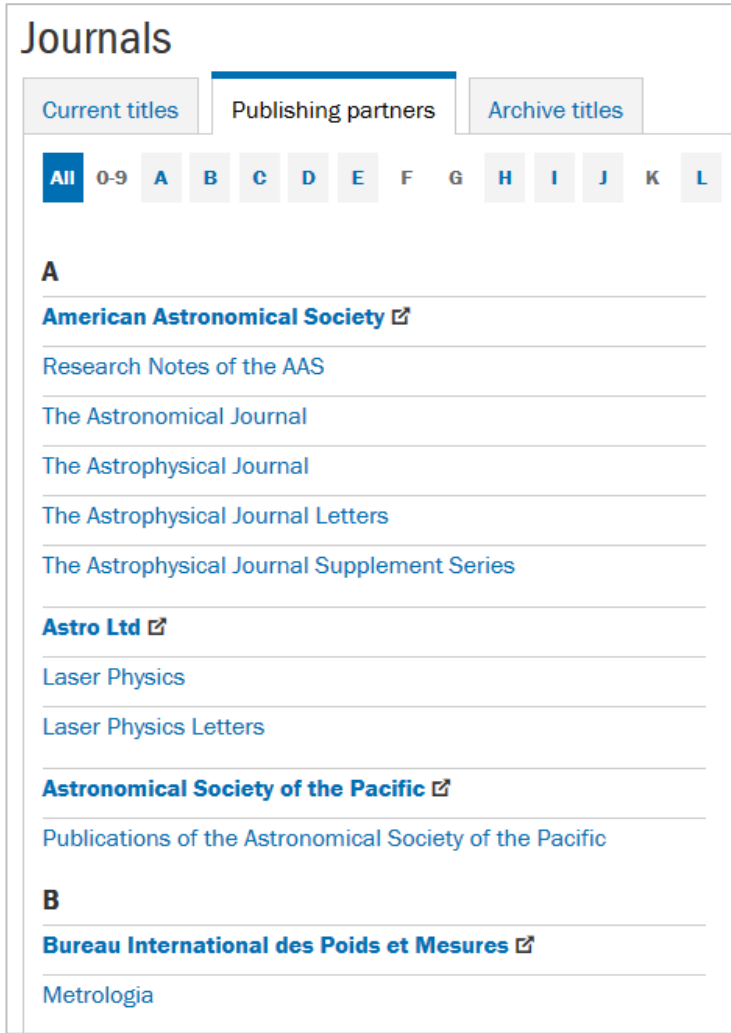
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