

# IOP

**IOP** Publishing | science first



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## IOP进步源于您的需求—平台及电子书相关培训

Yang Wang | Account Manager, China





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## Overview

- IOP 和IOP Publishing简介
- 中国物理学研究分析及DRAA用户情况
- IOP电子图书
- IOPscience平台使用指南



**IOP**  
Institute of Physics



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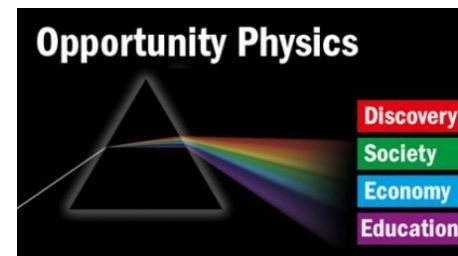




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## 关于英国物理学会Institute of Physics

- 成立于1874年的学术协会
- 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



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**IOP经典系列期刊--Journal of Physics系列**

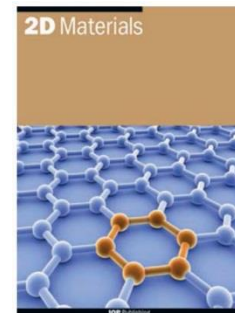
期刊英文名称	期刊中文名称	影响因子
Journal of Optics	光学学报	2.516
Journal of Physics A: Mathematical and Theoretical	物理学学报A辑: 数理与理论物理学	2.132
Journal of Physics B: Atomic Molecular and Optical Physics	物理学学报B辑: 原子, 分子与光物理	1.917
Journal of Physics: Condensed Matter	物理学学报: 凝聚态物质	2.333
Journal of Physics: Conference Series	物理学学报: 会议录	ISTP会议录
Journal of Physics D: Applied Physics	物理学学报D辑: 应用物理学	3.207
Journal of Physics G: Nuclear and Particle Physics	物理学学报G辑: 核与粒子物理学	3.045



## 非物理领域高质量期刊

### 2D Materials 《二维材料》

- 一本重要的高质量跨学科期刊，力争涵盖二维材料研究的各个方面
- 2020年影响因子为7.103，是材料科学领域的热门期刊



### Metrologia 《计量学》

- 计量学领域中的领先期刊
- 2020年影响因子为3.157
- 是从事测量标准和校准的必备读物



### Biofabrication 《生物制造》

- 生物制造领域的领先期刊
- 影响因子连年上升，2020年达到9.954，在生物工程领域排名前五，超过了本领域的70多种期刊
- 目前还没有任何期刊拥有相同的内容，是本领域科研的必备期刊







## 工程领域的IOP期刊

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- 108,000 + articles
- >40 Journals



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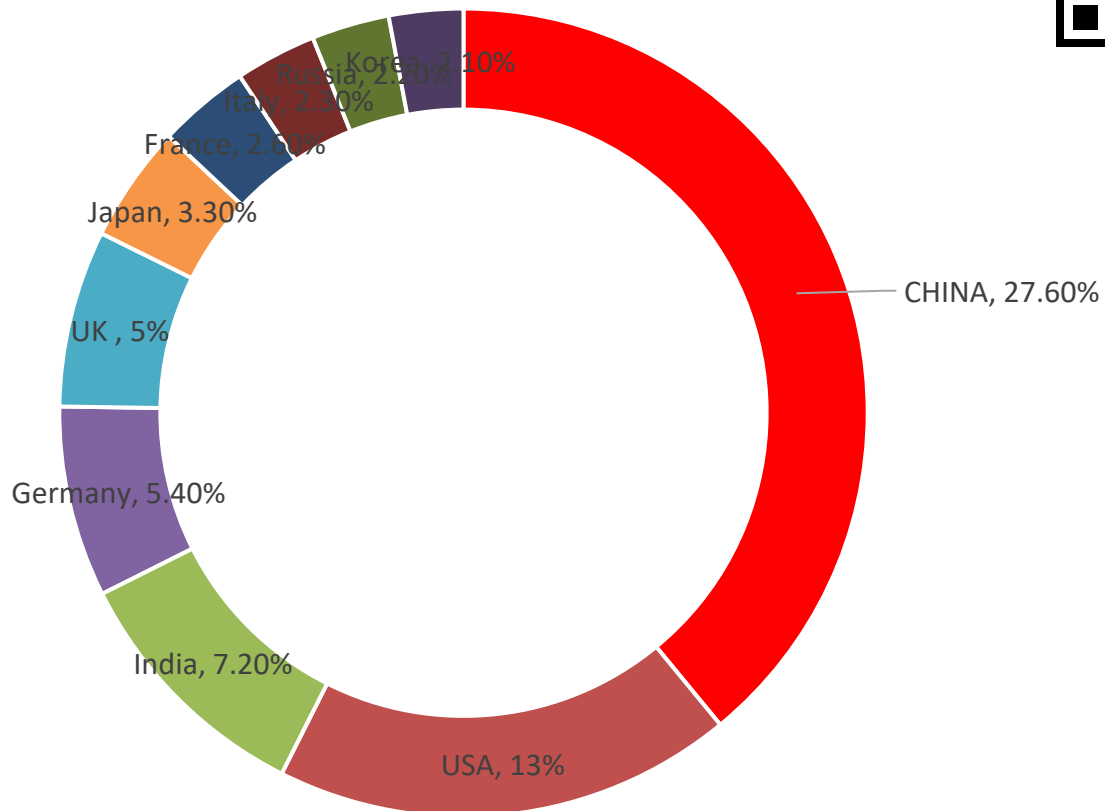
## IOP出版下列学协会的期刊

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		

## 2021年IOP作者分布情况



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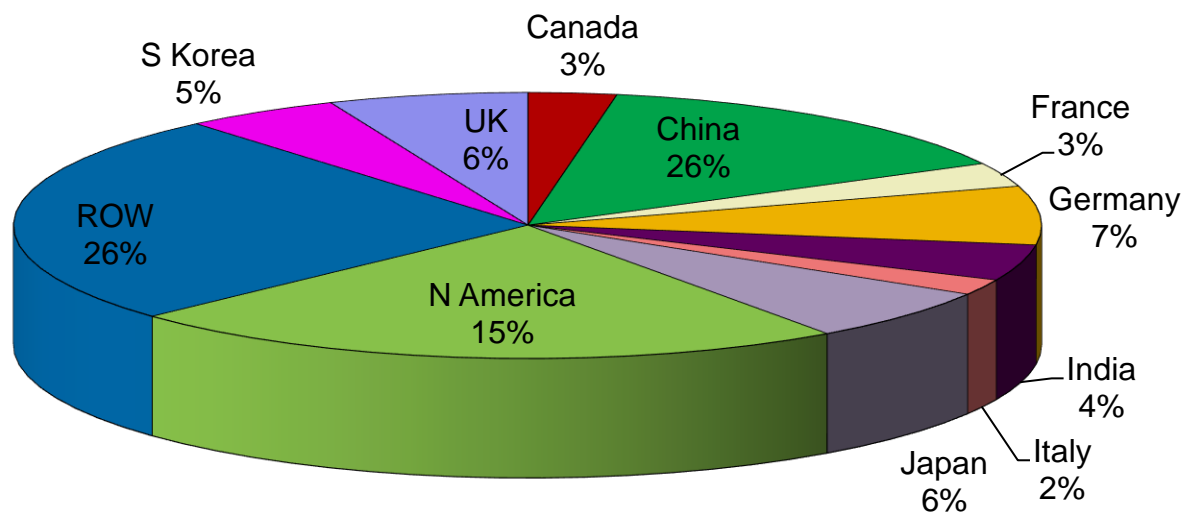
■ CHINA ■ USA ■ India ■ Germany ■ UK ■ Japan ■ France ■ Italy ■ Russia ■ Korea

# IOP全球下载量示意图

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IOP Journals - Full-Text Article Downloads by Country 2021



## IOP期刊数据库-DRAA集团概况

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- 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

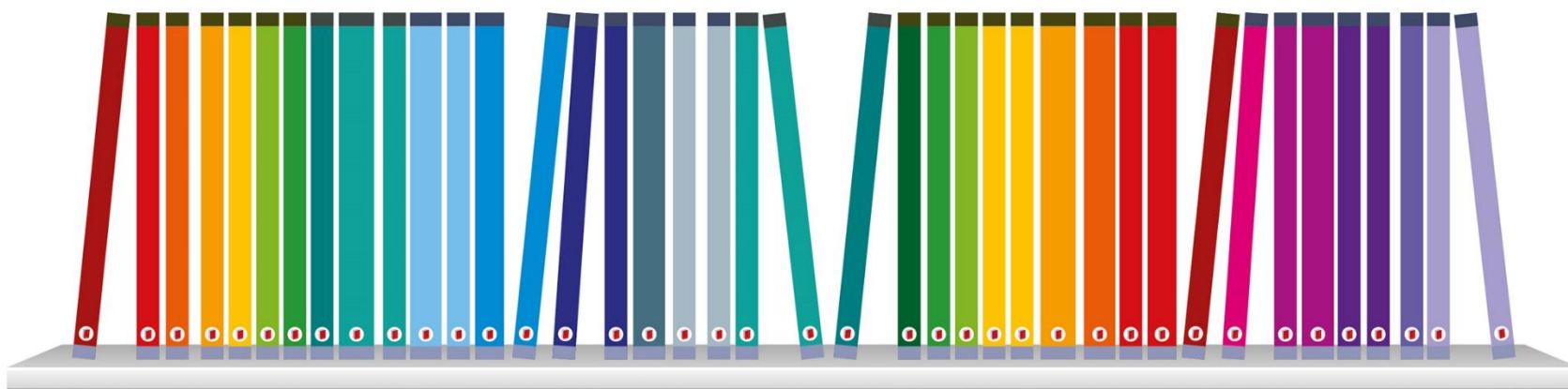
- 2015年开始组团
- IOP-DRAA集团现有40余家成员
- 用户增加中……



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## IOP电子书获得的国际奖项

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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



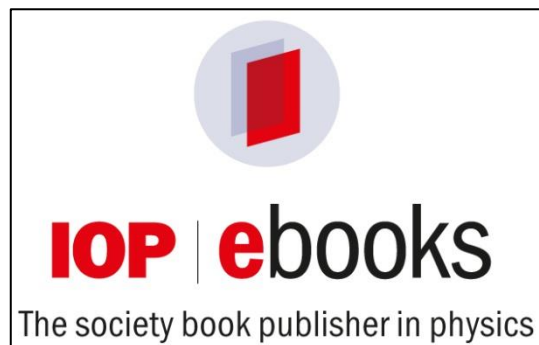




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## 一个简单而大胆的梦想

数字化的物理图书先导选集



数字化- 一个面向未来的图书计划

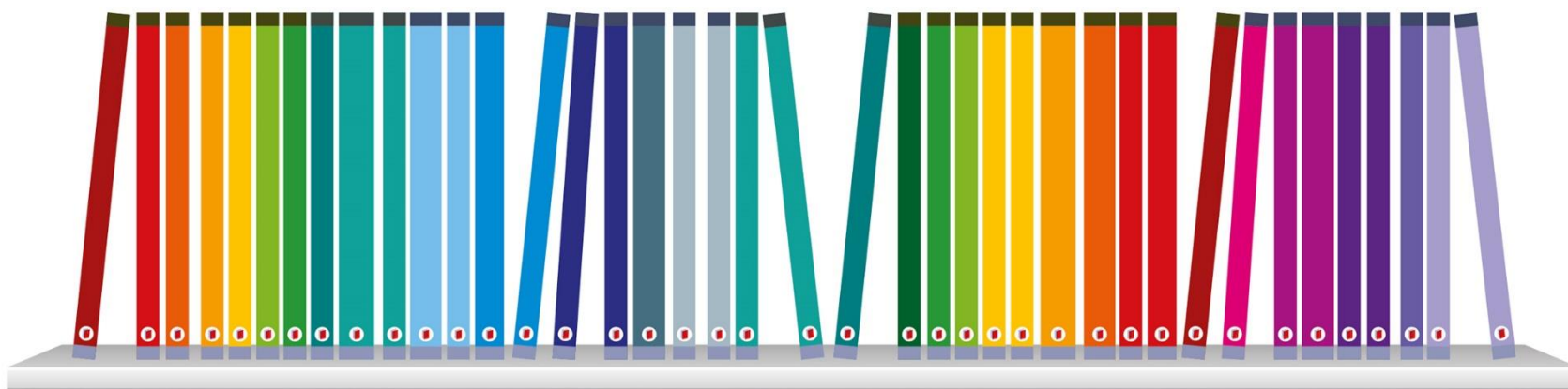
领先声音- 高质量物理图书的精选集

物理学协会出版社 - 第一家主流物理学协会图书出版社



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# 数字化





## 现有的出版商 - 传统的印刷方法

基于纸本销售的版  
税模式

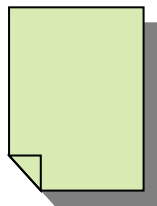
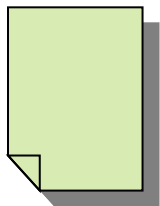
较慢的生产时间和过程

数字版权管理

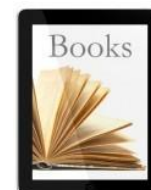
约稿

最终稿

纸本图书



电子书



- 大多数现有的电子书项目仍然严重依赖于纸本为先的模式
  - 传统的印刷事宜被加入到电子出版模式中，但这样做并没有任何意义
- 并不注重利用数字功能
- 重点集中在现已正在走下坡路的传统格式上



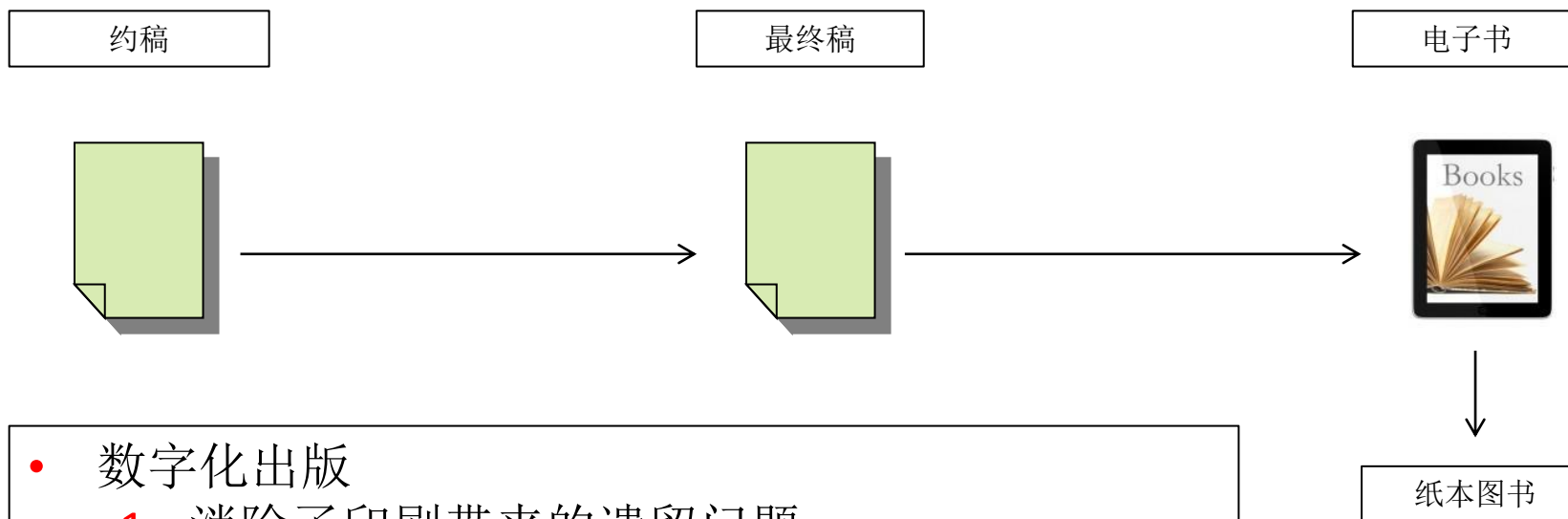
签到码

## IOP 的方法 – 数字化出版

基于电子销售的版  
税模式

快速的生产时间和过程  
融入丰富的多媒体内容

灵活的商业模式



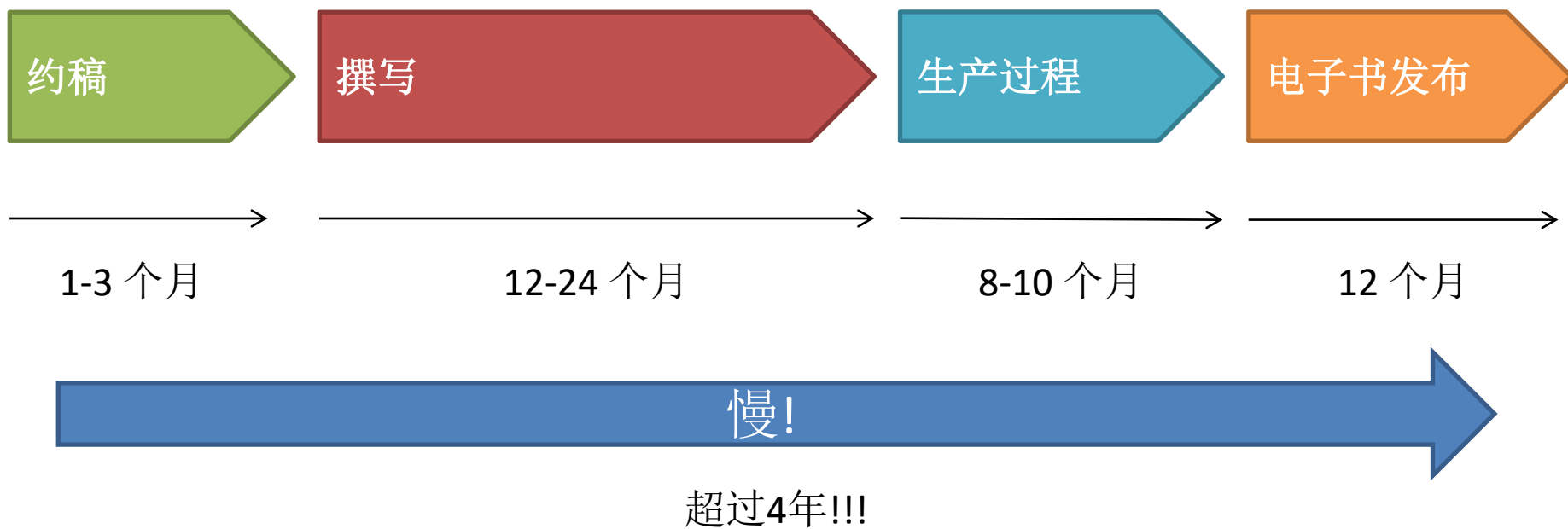
- 数字化出版
  1. 消除了印刷带来的遗留问题
  2. 专注于完全利用数字能力





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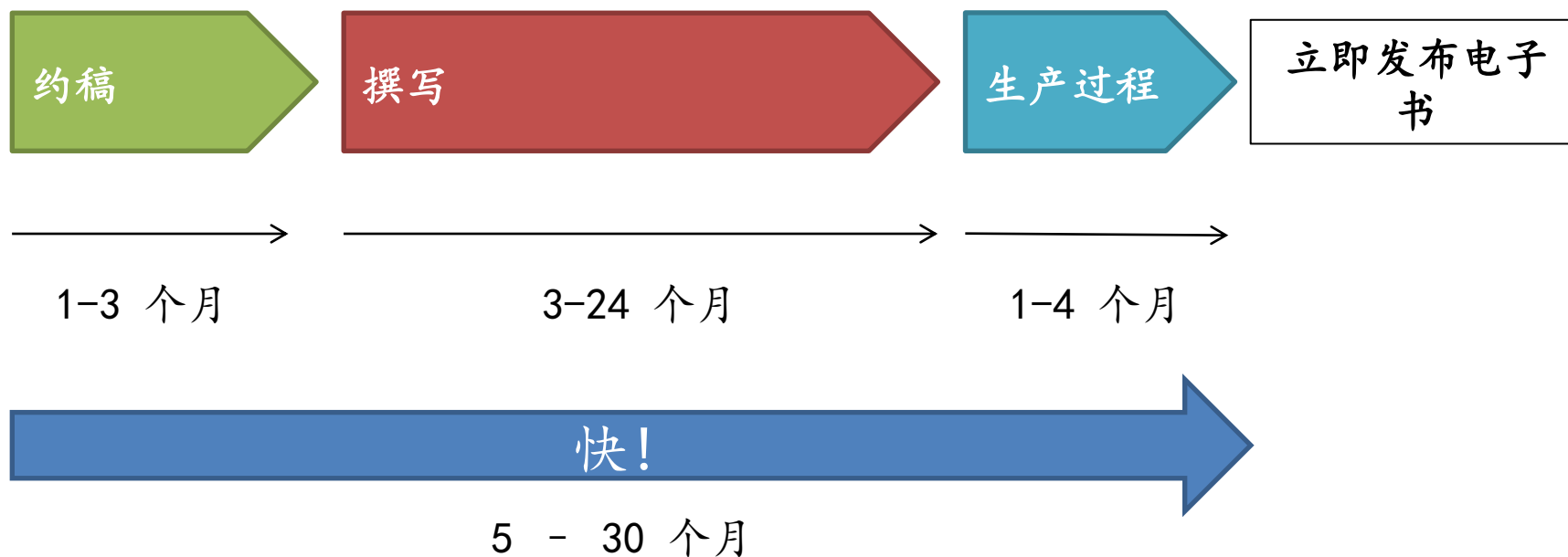
## 业内一般图书出版流程





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## IOP 图书出版过程





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## 数字化

**数字图书**可以提供比纸质图书更丰富的功能

探索性

便捷性 (24/7 & off-campus access)

兼容性- 并发用户

永久性- 无损坏、无需替换

提供使用统计数据及Marc数据

章节级HTML, PDF和ePUB3数据

完全融合的期刊和图书平台

无并发用户和DRM限制

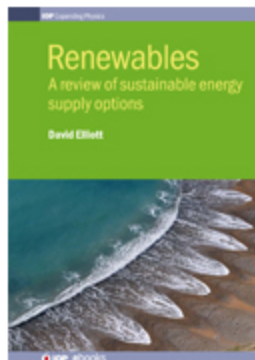
快速的出版时间- 在1-3个月内出版

多媒体嵌入- 音频和视频成为图书的一部分

交互式图表和数学公式

# Renewables

A review of sustainable energy supply options



## Introduction

**Authors:** Elliott David

[Hide affiliations](#)

David Elliott is Emeritus Professor of Technology Policy at the Open University, where he has focused on renewable energy policy.



PDF



ePub

D Elliott 2013 *Renewables* chapter 1. doi:10.1088/978-0-750-31040-6ch1

Published September 2013.

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Pages 1-1 to 1-8

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[Abstract](#)

[Renewable energy: an overview of the issues and options](#)

[1.1 Why renewables?](#)

[1.2 Which sources are emerging?](#)

[1.3 What are the problems?](#)

[1.4 The structure of this book](#)

## Abstract

Renewable energy is a rapidly expanding field, based on the development of a range of new technologies and energy sources, the use of which could be part of the answer to climate change and energy security concerns. This book reviews the basic technological options and what is happening around the world, so as to convey the sense of excitement that abounds in this new area of technological development. But it also looks at the problems, including local environmental impacts and the need to deal with the variability of some renewable energy sources. This introduction sets the scene by briefly describing the key options and state of play, as well as some of the problems, and also provides a guide to energy units and issues.

MathJax [On](#) | [Off](#)

BibTeX format (bib) ▾

[Export citation and abstract](#)

## Renewable energy: an overview of the issues and options

Renewable sources of energy, sometimes simply called 'renewables', are increasingly being used to meet our needs. This book attempts to review the state of play and explain how and why this expansion can and should continue, and indeed accelerate.





## 关于电子书精选集

### 两个相辅相成的电子书精选集 - 同一平台

#### IOP 简明物理选集

合作出版机构



MORGAN & CLAYPOOL PUBLISHERS

- 简明 - 70-120 页
- 快速出版 - 热点论题的首本图书
- 跨学科 - 为物理学家和非物理学家提供的物理图书
- 本科生 - 研究员级别

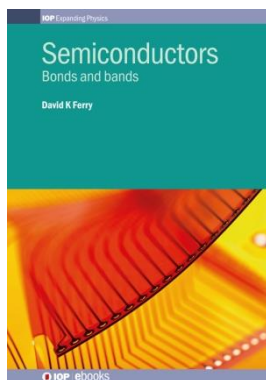
#### IOP 拓展物理选集

- 深入 - 200-500 页
  - 研究专著
  - 研究生/高级本科生教材
- 权威 - 论题中的权威声音
- 非常高的生产质量
- 本科毕业生 - 研究员级别

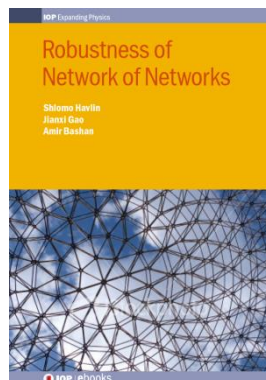
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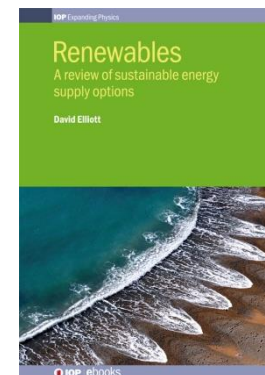
## 拓展物理 - 先导声音



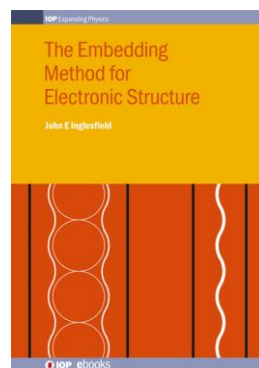
David K. Ferry 教授  
亚利桑那州立大学



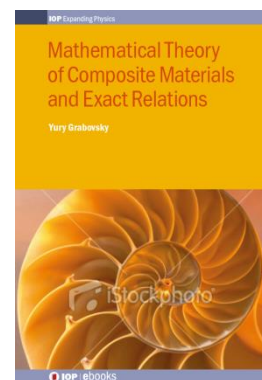
Shlomo Havlin教授  
巴伊兰大学



David Elliott教授  
开放大学



John Inglesfield教授  
卡迪夫大学

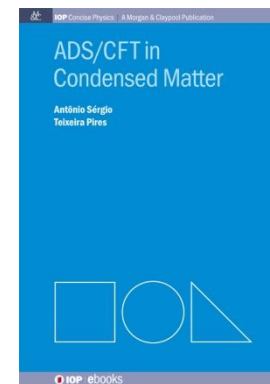
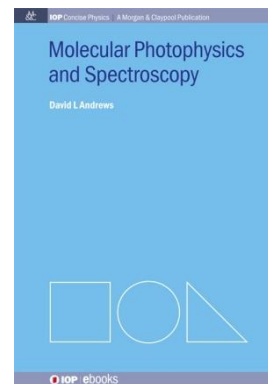
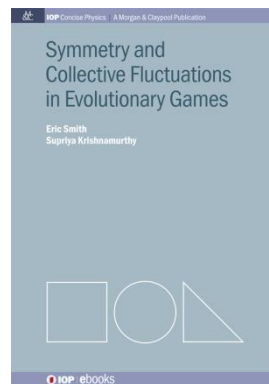
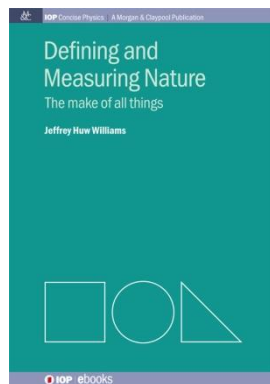
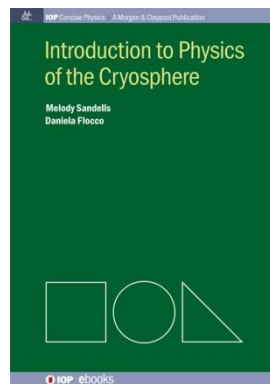
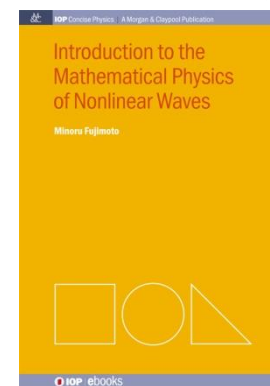
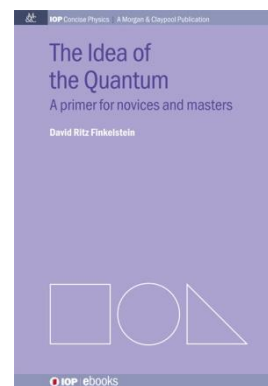
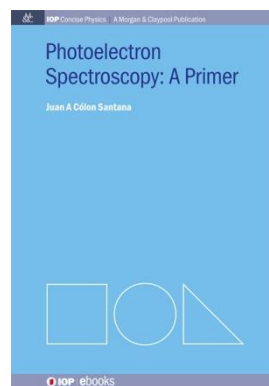
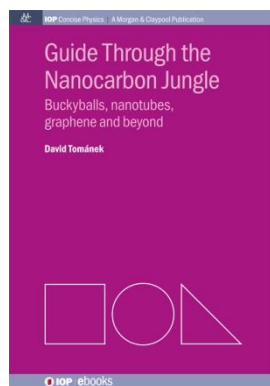
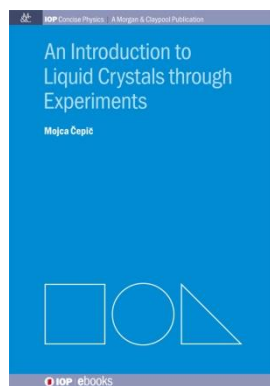


Yury Grabovsky博士  
天普大学



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## 简明物理内容



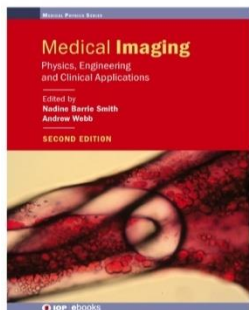


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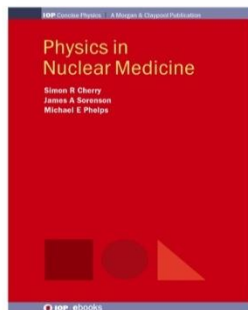
## 学科覆盖

广泛的学科范围 - 横跨整个物理学领域

medical titles

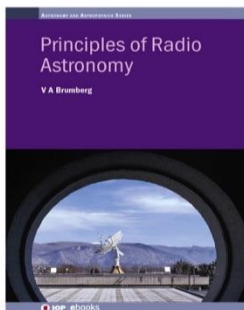


IOP

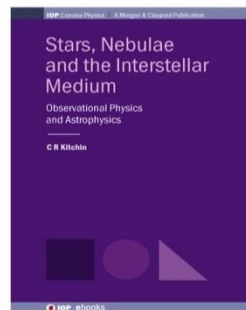


M&C + IOP

astronomical titles

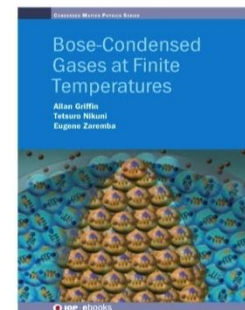


IOP

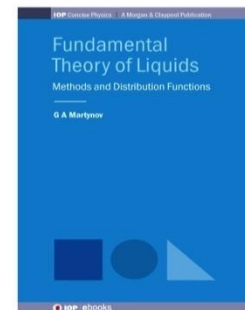


M&C + IOP

condensed matter titles



IOP



M&C + IOP

atomic and molecular physics

condensed matter physics

optics and photonics

sensors and instrumentation

applied and industrial physics

environmental physics and green energy

biophysics

geophysics and planetary science

materials science

electronic materials and devices

high energy and particle physics

medical physics and biomedical engineering

nuclear physics

statistical physics and thermodynamics

mathematical and computational physics

quantum physics

quantum information and quantum computing

astronomy and astrophysics

nanoscience and nanotechnology

plasma physics series



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## 针对DRAA用户进行的电子书推广活动

### 1. 在线研讨会 (online webinar)

目的：为电子书作者和读者创造在线交流的机会。

### 2. 检索大赛

目的：让更多的读者了解IOP电子书的内容和检索便利性

### 3. 微信幸运大转盘活动

目的：为更多的研究人员与学生及时发送IOP电子书相关的最新消息。

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## IOPscience 使用指南

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## With IOPscience you can

- 加快研究速度：强化的搜索过滤系统帮助您更快地找到相关资料
- 节省时间：重回之前搜索结果
- 与时俱进：在新内容发表后，收取RSS即时信息和电邮提醒
- 互动与分享：可做社交书签以分享文章
- 个性化：为信息提醒设置个人化方式，保存感兴趣的文章，并可阅读专业领域新发表的论文 / 文章
- <http://iopscience.iop.org>



**IOPscience**

<http://iopscience.org>



# 主页和搜索

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**Journals list**  
Browse more than 70 science journal titles

**IOPselect**  
Articles from the past year selected by our editors

**Review articles**  
The latest review articles from our journals

**Subject collections**  
Read the very best research published in IOP journals

**Publishing partners**  
Partner organisations and publications

**IOP Conference Series**  
Read open access proceedings from science conferences worldwide

**IOPcorporate**  
IOP for R&D  
Science fueling innovation

**Open access**  
IOP Publishing open access policy guide

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Our growing book portfolio is available

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IOP Publishing, premier content for a global market

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More than 70 science journals.

**Latest books**  
Born-digital essential physics books.

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访问图书馆员页面 librarians.org 获取关于订阅的更多信息

快速搜索  
在主页上方的搜索栏中可以选择通过关键词在标题、摘要、作者、单位、全文和学科中进行搜索





签到码

## 检索结果与二次检索

可以通过相关性和实效性对搜索结果进行排序。←

The screenshot shows the IOPscience website interface. At the top, there is a navigation bar with 'IOPscience', a search icon, and links for 'Journals', 'Books', 'Publishing Support', and 'Login'. Below the navigation bar, on the left, is a 'Refine your search' sidebar with filter categories: '+ Date published', '+ Journals', '+ Publication type', and '+ Open access'. At the bottom of this sidebar are 'Apply filters' and 'Clear filters' buttons. The main content area displays 'The top 500 results for "laser" are:'. Below this, there are search options: 'Within: Anytime', 'Showing 1-10 of 500', 'Email alert', 'RSS search', and a 'Sort by:' dropdown menu currently set to 'Relevance', with an 'Update' button next to it. Two search results are visible, both labeled 'JOURNAL ARTICLE | OPEN ACCESS'. The first result is 'Effects of laser prepulses on laser-induced proton generation' by D Batani, R Jafer, M Veltcheva, R Dezulian, O Lundh, F Lindau, A Persson, K Osvay, C-G Wahlström, D C Carroll, with a '+ Show full author list' link. The second result is 'Onset of self-steepening of intense laser pulses in plasmas' by J Vieira, F Fiúza, L O Silva, M Tzoufras and W B Mori. Each result includes a '+ Open abstract', 'View article', and 'PDF' link.

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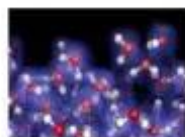
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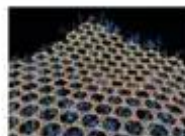
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- Submit an article** and **Latest Issue (Complete)** information.
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2D Materials

PAPER • OPEN ACCESS

## Increasing the light extraction efficiency of monolayers using liquid micro-lenses

C S Woodhead<sup>1</sup>, J Roberts<sup>1</sup>, Y J Noh<sup>1</sup> and R J Young<sup>1</sup>

Published 7 December 2016 • © 2016 IOP Publishing Ltd  
2D Materials, Volume 4, Number 4



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Article information

### Abstract

The recent discovery of semiconducting two-dimensional materials has led to a new class of materials that can be used to lead to revolutionary changes in technology. These materials have a wide range of applications, including in the field of photonics, and their surrounding environment. We present a solution to tackle both of these problems simultaneously, by deterministically placing an epoxy based micro-lens directly onto the materials' surface. We show that this approach enhances the photoluminescence of tungsten diselenide (WSe<sub>2</sub>) monolayers by up to 300%, and nearly doubles the imaging resolution of the system. Furthermore, this solution fully encapsulates

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CHAPTER 1 • FREE TO READ

## General relativity essentials

Badis Ydri  
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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  $\Delta r$ . 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  $\vec{F} = -\frac{GMm}{r^2}$ . The corresponding acceleration is

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

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ORD" <mrow class="MJX-TeXAtom-ORD" <mi mathvariant="normal">&#x03A6;<!-- Ⓟ --></mi>
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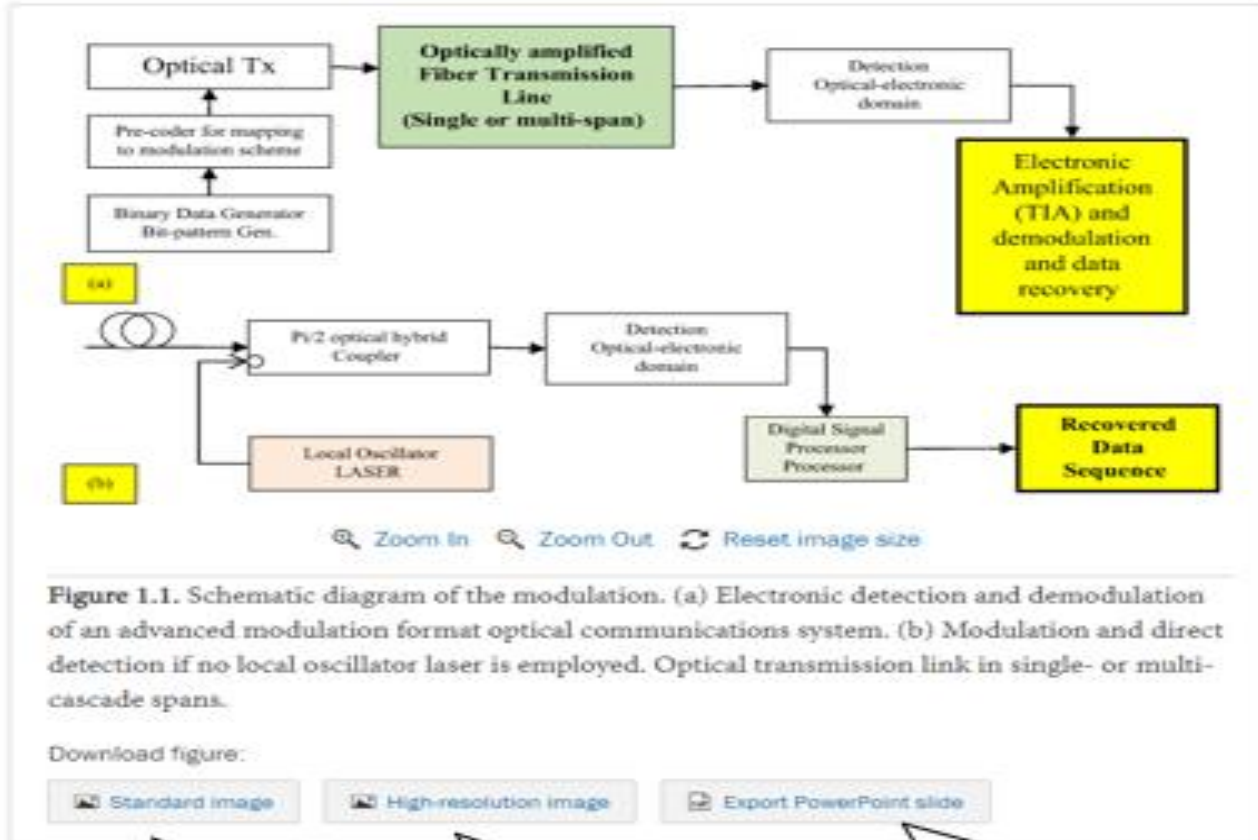
that has given us this high technology life. This is nicely illustrated by Professor Jesper Nygård in the video of figure 1.1. Several research technologies are discussed in this video, and we will treat many of them in the following chapters of this book.



**Figure 1.1.** Jesper Nygård on nanotechnology, artificial atoms, and the future of computing. (Video hosted by Professor [Jesper Nygård](#), Neils Bohr Institute, and produced by the Compound for Neils Bohr Institute, included [here](#) with their permission.)



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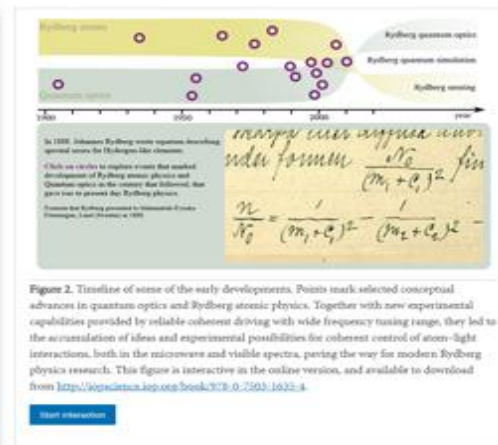
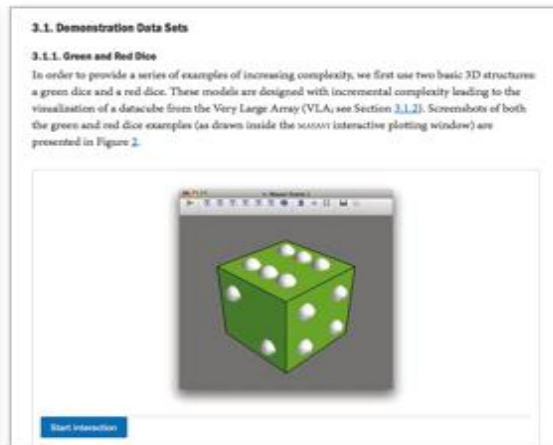
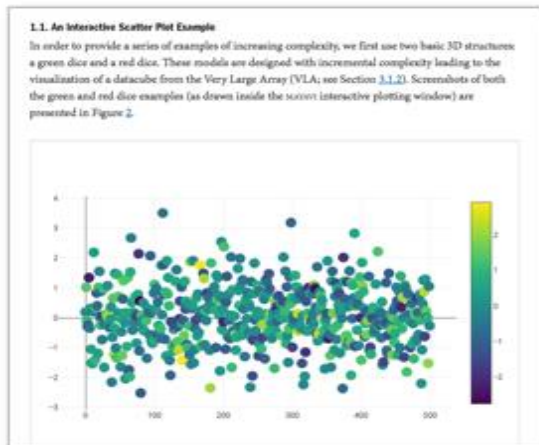
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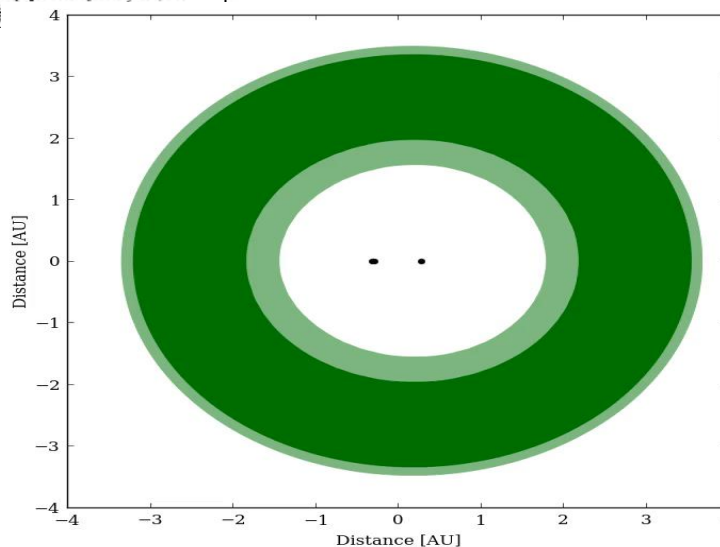
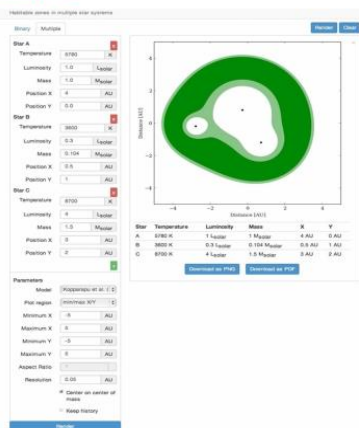


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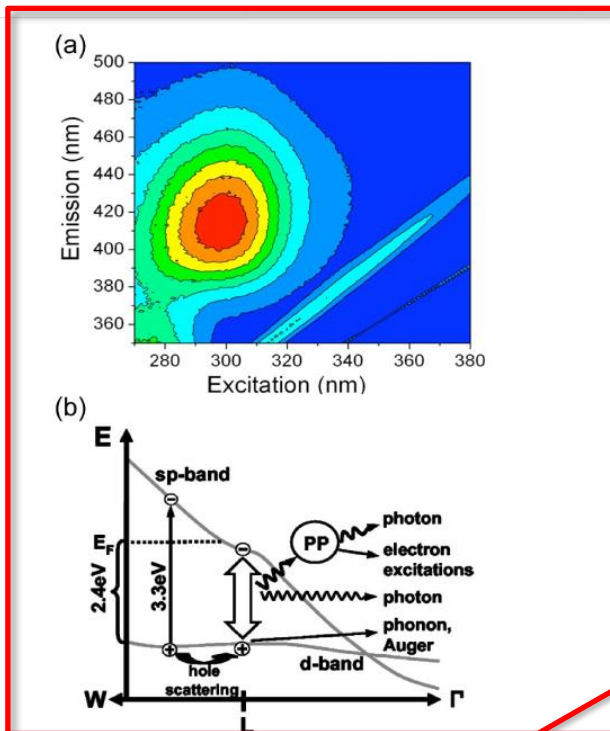




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- 1. Introduction
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Figure 6. (a) One-photon fluorescence excitation-emission profile of pure 13 nm AuNPs. The line profile observable in the excitation wavelengths ranging from 310 to 380 nm is due to Raman scattering from water. (b) Schematic representation of electronic energy bands and transitions that give rise to AuNP absorption and fluorescence. Abbreviations (PP= particle plasmon). Reproduced from Goldys and Sobhan [112] (a) and Dulkeith et al [110] (b).

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