

Springer 为您的科研事业助跑

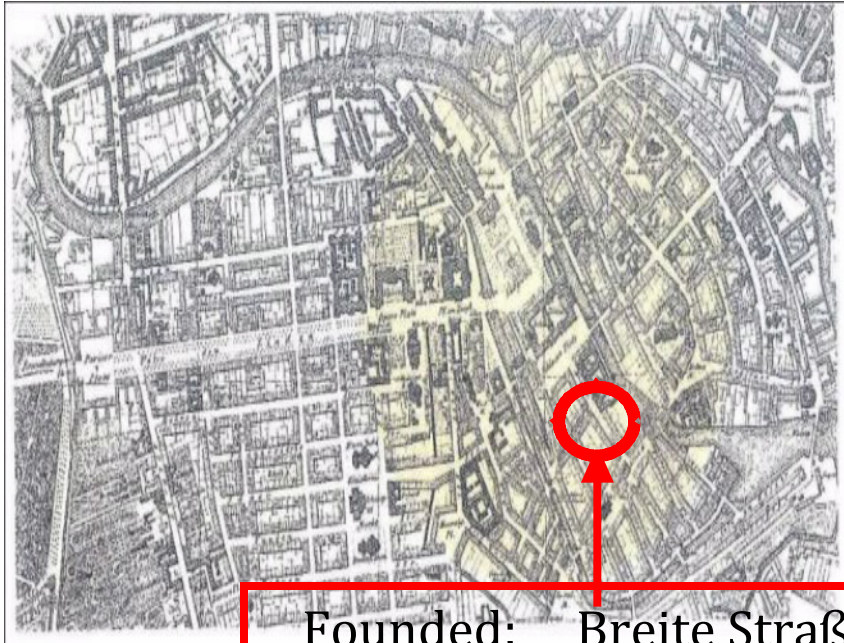
——专注科学，贡献科学



张文瑾
华东、东北地区销售主管

- Springer公司介绍
- Springer电子期刊
- SpringerLink平台

Springer 于1842年始建于柏林，拥有172年的历史……



Founded: Breite Straße
Today: Heidelberger Platz



Springer 收购: Current Medicine Group, Humana Press, Bohn
Stafleu van Loghum 和 BioMed Central.

2005-2010

施普林格与Kluwer合并成立 Springer Science + Business Media

2004

被Cinven 及Candover收购 2003

2003 被Cinven及Candover收购

被贝塔斯曼收购大部分股权 1999

1998 收购 Plenum及Chapman & Hall

成立香港及巴黎办事处 1986

在东京成立办事处 1983

收购日本的EBS 1978

1978 Kluwer Academic Publishers成立

伦敦办事处成立 1973

1970s 收购 Martinus Nijhoff
及D. Reidel

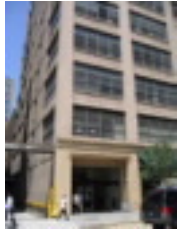
纽约办事处成立 1964

海德堡办公楼启用 1946

维也纳办事处成立 1924

施普林格公司在柏林成立 1842

1889 A.E. Kluwer在荷兰成立出版社





- 全球领先的科技出版商，通过创新的信息产品和服务为客户提供高品质的内容
- 全球最大的科学、技术和医学类图书出版商和顶尖的学术期刊出版商
- 在全球20多个国家或地区设立了60余家分支机构
- 全球员工超过7,000 名

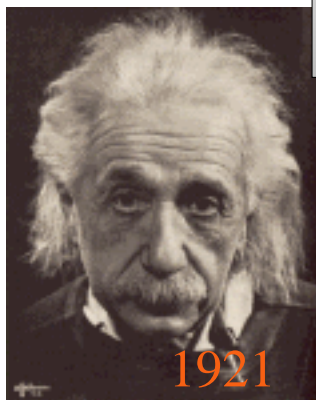
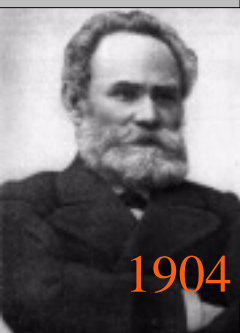
与Springer合作出版的诺贝尔奖

得主人数： 213位

与Springer合作出版的费尔兹奖得主人数：

50余位

巴普洛夫
(条件反射)
J.P. Pavlov
Medicine



爱因斯坦(相对论)
Albert Einstein
Physics

玻尔(量子力学)
Niels H. de Bohr
Physics



哈恩(原子弹之父)
Otto Hahn
Chemistry

第尔斯(发现双烯合
成) Otto P. Diels
Chemistry



高锟(光纤之父)
Charles K. Kao

朱尔·A·奥夫
曼 Jules A. Hoffmann



Springer在2008年5月和国家科技图书文献中心(NSTL)签署了OAC的全国购买协议

- NSTL购买Springer回溯文献(OAC)裸数据全国授权(限非营利性机构)
- Springer回溯数据(OAC):收录主要期刊的创刊期-1996年全文,
- 1996年以前出版的丛书的电子版(如果有的话)亦收录其中(计14种丛书)
- 受惠单位:中国大陆目前全部SpringerLink现刊数据库的现用户(限非营利性机构)及未来的被授权用户。



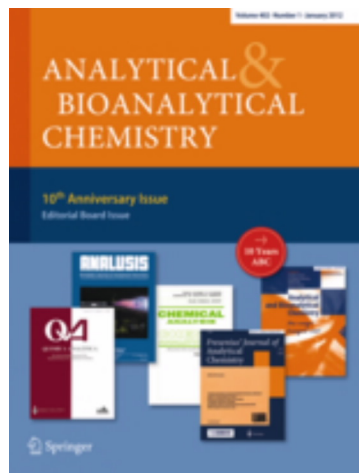
- 2008年，施普林格与中国知网(CNKI)签约合作。施普林格向中国知网(CNKI)免费提供SpringerLink电子出版物发布平台上各类资源(电子期刊、电子图书、丛书、工具书等)的题录摘要数据。CNKI利用成熟的关联技术和关键词自动翻译功能，使用户免费看到丰富的施普林格出版物双语题录摘要。



Springer资源—— 电子期刊

- Springer SLCC电子期刊有1580多种
- 60%以上被SCI和SSCI收录
- 随时出版, 随时更新
- IP控制, 无并发用户限制
- 与Springer所有电子资源整合, 充分实现链接功能
- 涵盖11个学科, 一些期刊在相关学科有较高排名

学科组合	子学科
Science, Technology and Engineering 科学, 技术和工程	Mathematics 数学
	Chemistry & Materials Science 化学和材料科学
	Computer Science 计算机科学
	Earth & Environment Science 地球环境科学
	Engineering 工程学
	Physics & Astronomy 物理学和天文学
Medicine&Life Science 医学和生命科学	Medicine 医学
	Biomedical & Life Science 生物医学和生命科学
Social Science and Humanity 社会科学和人文科学	Behavioral Science 行为科学
	Business & Economics 商学和经济 学
	Humanities, Social Science & Law 人文社科和法律



Editors: S. Daunert; P. Garrigues; G. Gauglitz; K.G. Heumann; K. Jinno; C.K. Larive; A. Roda; A. Sanz-Medel; S.A. Wise

ANALYTICAL & BIOANALYTICAL CHEMISTRY ; ISSN: 1618-2642

2012使用
量1,807,153

《分析化学和生物分析化学》刊载分析化学方面的研究论文、文摘、简讯、书评以及会议与展览消息等。

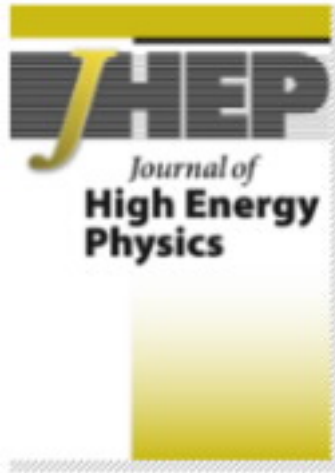


Acta Neuropathologica

Editor-in-Chief: Werner Paulus
ISSN : 0001-6322

《神经病理学报》刊载原始论文和研究简报等。涉及组织化学、电子显微术、免疫学、组织培养、生物物理、神经化学、实验神经病理学和临床神经病理学等方面与神经组织研究相关的问题。

- High impact: 9.734 (IF 2012)
- Wide distribution: more than 6,000 institutions worldwide having full text access.



2011年被引用次
数45,573

Journal of High Energy Physics —A journal by scientists for scientists

Matches the pace of research in high energy physics with rapid publication of high quality research across a range of relevant topics

Offers high quality research in high energy physics and a range of related topics

- Covers general relativity and gravitation; supersymmetry; mathematical methods of physics and much more
- Presented in cooperation with the International School for Advanced Studies (SISSA - Trieste, Italy)

SpringerLink平台



- 平台的新功能
- 平台的整合检索
- 在平台浏览期刊

link.springer.com

新的 URL 地址: link.springer.com

Sign up / Log in English Academic



Search



Home Contact Us

Access old SpringerLink

Browse by discipline

- » Biomedical Sciences
- » Business & Management
- » Chemistry
- » Computer Science
- » Earth Sciences and Geography
- » Economics
- » Education & Language
- » Energy
- » Engineering
- » Environmental Sciences
- » Food Science & Nutrition
- » Law
- » Life Sciences

Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.



New books and journals are available every day.

Recent Activity

What's being read within your organisation

Avg. Page Load Time (sec)	Pageviews	Page Load Sample	Bounce Rate
10.04 Site Avg: 10.04 (0.00%)	51,261,199 % of Total: 100.00% (51,261,199)	275,878 % of Total: 100.00% (275,878)	51.98% Site Avg: 51.98% (0.00%)

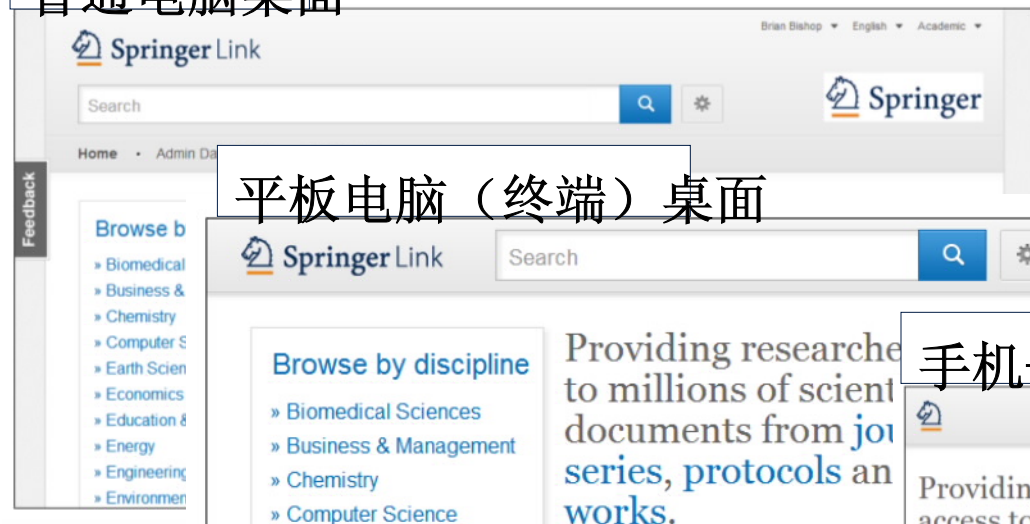
页面平均下载
时间

Avg. Page Load Time (sec)	Pageviews	Page Load Sample	Bounce Rate
5.15 Site Avg: 5.15 (0.00%)	309,819 % of Total: 100.00% (309,819)	1,653 % of Total: 100.00% (1,653)	58.80% Site Avg: 58.80% (0.00%)

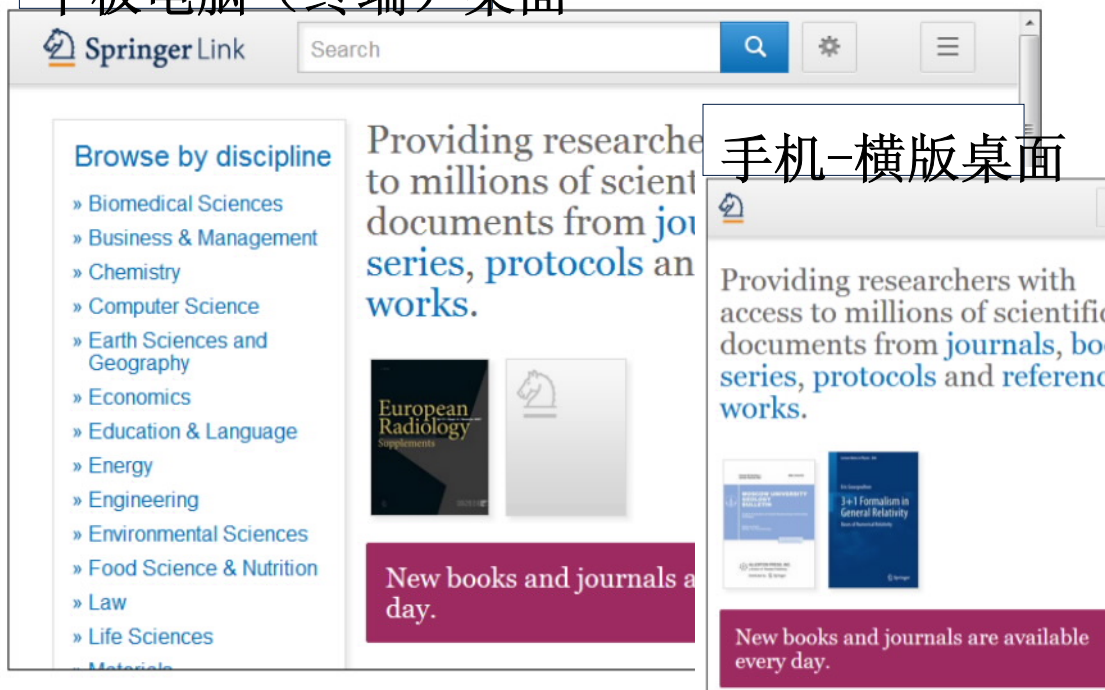
页面平均下载
时间

- 网络响应设计让所有移动设备具有最佳视觉效果

普通电脑桌面



平板电脑（终端）桌面



手机-横版桌面



手机-竖版桌面



SpringerLink App

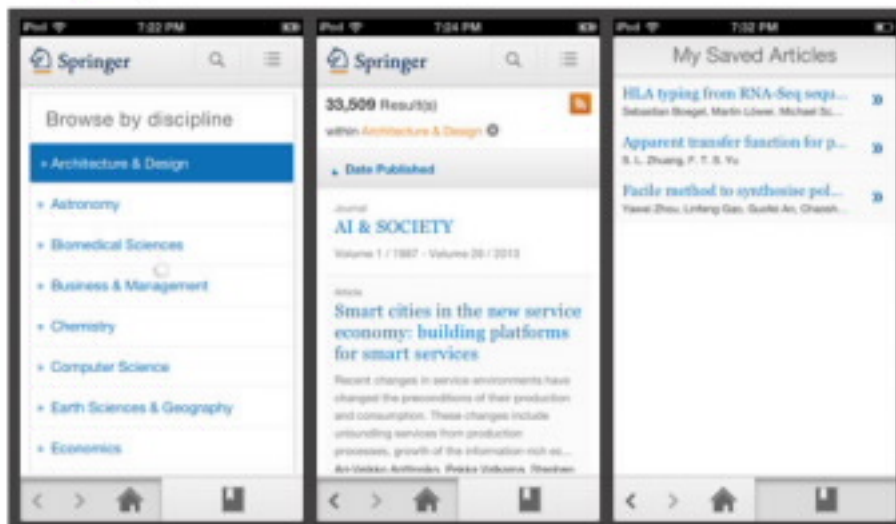
[t. Top](#)

Download for Free

While on the go or away from your desk, tap into SpringerLink to access one of the largest collections of scientific information.

SpringerLink is a publication database containing articles and chapters from over 2,500 peer-reviewed journals and over tens of thousands of books – in total, over 6 million documents spanning every area of science, technology and medicine. The SpringerLink app puts this entire collection at your fingertips.

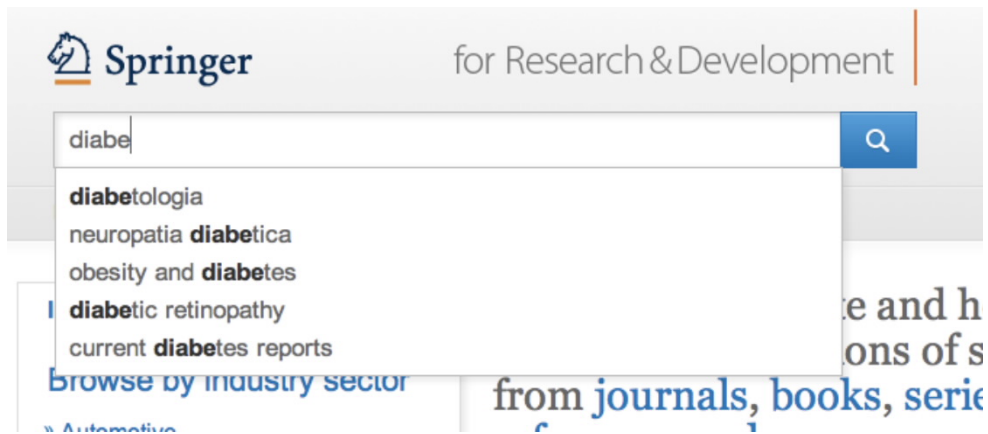
- » [iTunes](#)
- » [Google Play](#)



访
问 www.springer.com

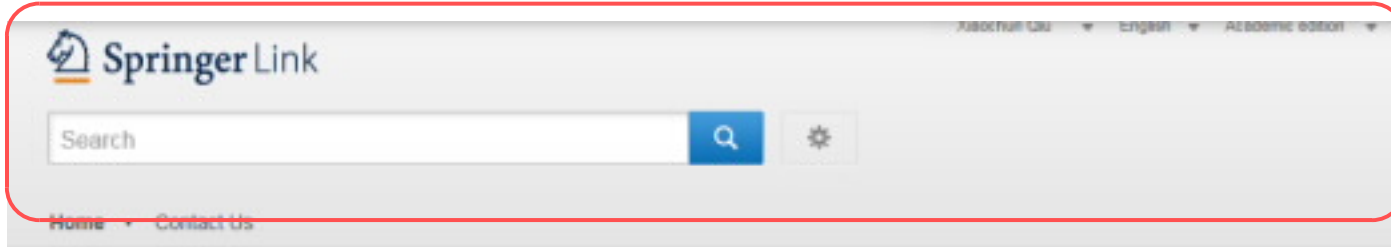
即可免费下载
SpringerLink
的App

搜索时自动建议功能（以Google关键字数据为准）



每个文件可以
预览两页（不
仅限于浏览图
书章节）

- 简单搜索
- 高级检索
- 检索显示
- 结果聚类
- 权限识别



- ### Browse by discipline
- » Architecture & Design
 - » Astronomy
 - » Biomedical Sciences
 - » Business & Management
 - » Chemistry
 - » Computer Science
 - » Earth Sciences and Geography
 - » Economics
 - » Education & Language
 - » Energy
 - » Engineering
 - » Environmental Sciences
 - » Food Science & Nutrition
 - » Law
 - » Life Sciences
 - » Materials
 - » Mathematics
 - » Medicine
 - » Philosophy
 - » Physics
 - » Psychology
 - » Public Health
 - » Social Sciences
 - » Statistics

Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.



Recent Activity

What's being read within your organisation

- Original Paper
Prevalence of 1-aminocyclopropane-1-carboxylate deaminase in *Rhizobium* spp.
Antonie van Leeuwenhoek, 05-2003
1 min ago
- Research Article
Facile synthesis of porous carbon nitride spheres with hierarchical three-dimensional mesostructures for CO₂ capture
1 min ago

主页分成三个部分：

● 搜索

● 浏览

● 内容

本单位最新阅读文献

Advanced Search

Find Resources

with all of the words

with the exact phrase

with at least one of the words

without the words

where the title contains

e.g., "Cassini at Saturn" or Saturn

where the author / editor is

e.g., "H.G.Kennedy" or Elvis Morrison

Show documents published

between and

Include Preview-Only content

Search

出版时间设定

权限范围设定



Springer Link

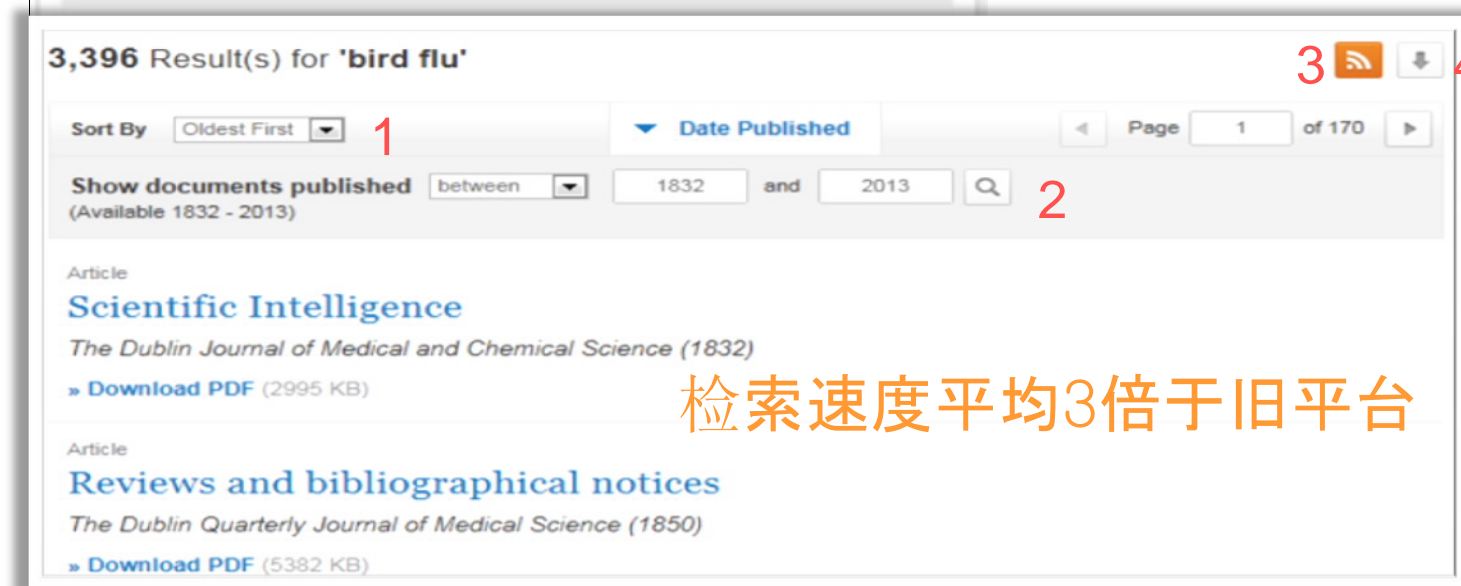
Search



Home • Contact Us

Browse 7,372,524 resources

Articles	4,730,745
Chapters	2,324,138
Reference Work Entries	286,453
Protocols	31,188

- 1 排序(默认相关性)
- 2 时间设定
- 3 RSS订阅
- 4 CSV格式输出



3,396 Result(s) for 'bird flu' 3   4

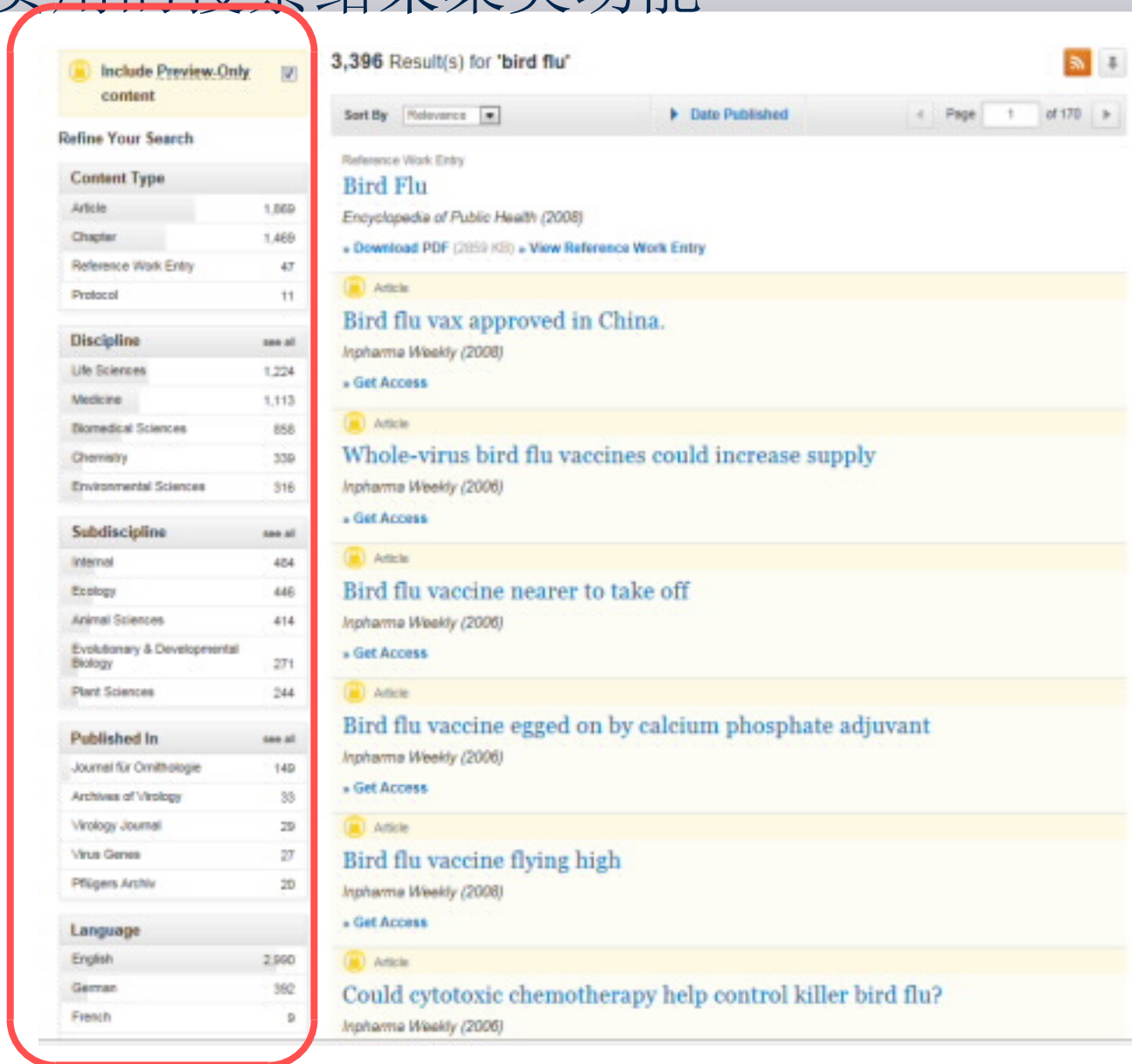
Sort By 1

Show documents published between and 2

Article
Scientific Intelligence
The Dublin Journal of Medical and Chemical Science (1832)
[» Download PDF \(2995 KB\)](#)

Article
Reviews and bibliographical notices
The Dublin Quarterly Journal of Medical Science (1850)
[» Download PDF \(5382 KB\)](#)

检索速度平均3倍于旧平台



3,396 Result(s) for 'bird flu'

Sort By: Relevance | Date Published | Page 1 of 170

Reference Work Entry
Bird Flu
Encyclopedia of Public Health (2008)
• Download PDF (2059 KB) • View Reference Work Entry

Article
Bird flu vax approved in China.
Inpharma Weekly (2008)
• Get Access

Article
Whole-virus bird flu vaccines could increase supply
Inpharma Weekly (2006)
• Get Access

Article
Bird flu vaccine nearer to take off
Inpharma Weekly (2006)
• Get Access

Article
Bird flu vaccine egged on by calcium phosphate adjuvant
Inpharma Weekly (2006)
• Get Access

Article
Bird flu vaccine flying high
Inpharma Weekly (2008)
• Get Access

Article
Could cytotoxic chemotherapy help control killer bird flu?
Inpharma Weekly (2006)

Include Preview-Only content

Refine Your Search

Content Type

Article	1,869
Chapter	1,469
Reference Work Entry	47
Protocol	11

Discipline see all

Life Sciences	1,224
Medicine	1,113
Biomedical Sciences	858
Chemistry	339
Environmental Sciences	316

Subdiscipline see all

Internal	484
Ecology	446
Animal Sciences	414
Evolutionary & Developmental Biology	271
Plant Sciences	244

Published In see all

Journal for Ornithologie	149
Archives of Virology	88
Virology Journal	29
Virus Genes	27
Pflügers Archiv	20

Language

English	2,990
German	362
French	9

聚类选项包括：

- 全文权限
- 内容类型
- 学科 (24)
- 子学科 (220)
- 作者
- 语种

(1) Analytical and Bioanalytical Chemistry
ISSN: 1618-2642 (Print) 1618-2650 (Online) (4)

(2) Browse Volumes & Issues | Look Inside | Get Access | Search within this journal

(3) Analytical and Bioanalytical Chemistry

(5) Description
Analytical and Bioanalytical Chemistry (ABC) is a truly international journal with a mission to publish excellent research papers from all areas of analytical and bioanalytical science. Author Benefits

- Online publication in 30 days from acceptance
- No submission fee for full-color illustrations of accepted articles
- Book discount for contributing authors
- Open Choice, offers authors to have their articles made available ... show all (6)

(7) 405 Volumes 2,332 Issues 95,418 Articles available from 1862 - 2013

Find your Volume or Issue

Volume Issue [Search] Browse Volumes & Issues

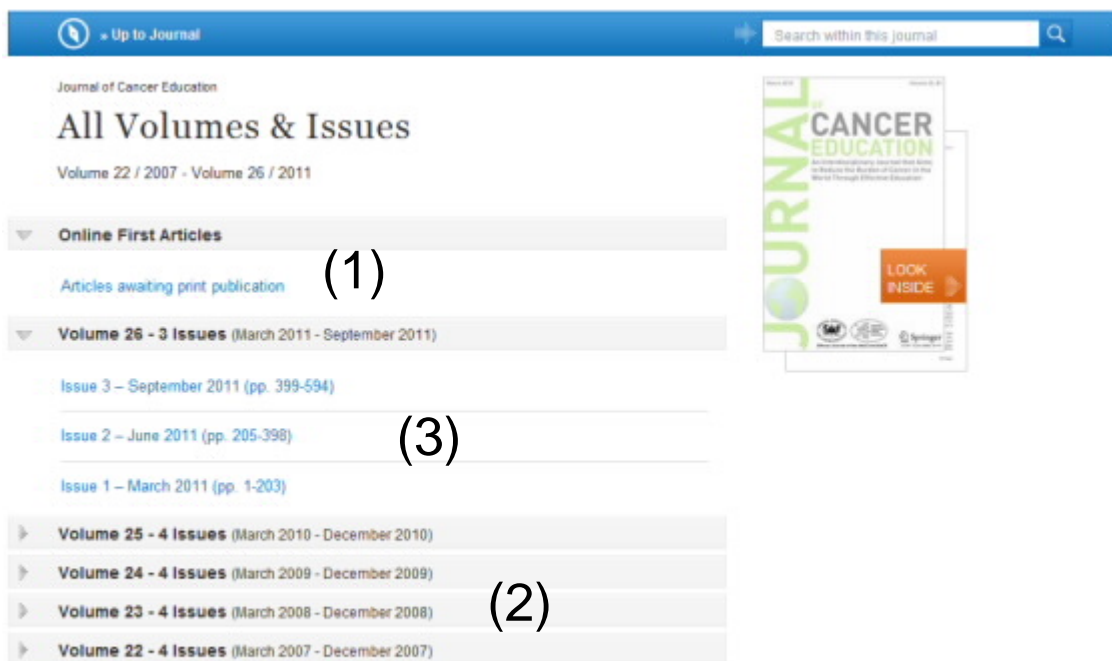
(8) (9) Look inside

Share: Facebook, Twitter, LinkedIn

Other actions: Register for Journal Updates, About This Journal

功能概述:

1. 浏览卷和期
2. 在此期刊内搜索
3. 期刊标题
4. 期刊 ISSN
5. 期刊描述
6. 卷和期的导航
7. 最新文章列表
8. 期刊封面
9. 查看内容



The screenshot shows the homepage of the Journal of Cancer Education. At the top, there is a blue navigation bar with the text "Up to Journal" and a search box labeled "Search within this journal". Below the navigation bar, the journal title "Journal of Cancer Education" is displayed, followed by "All Volumes & Issues" and "Volume 22 / 2007 - Volume 26 / 2011". A vertical banner on the right side of the page features the journal's cover image with the text "CANCER EDUCATION" and "LOOK INSIDE". The main content area is a list of volume and issue entries. The first entry is "Online First Articles" with a sub-link "Articles awaiting print publication" and a red annotation "(1)". The second entry is "Volume 26 - 3 Issues (March 2011 - September 2011)", which is highlighted in a light blue color. It contains three sub-entries: "Issue 3 - September 2011 (pp. 399-594)", "Issue 2 - June 2011 (pp. 205-398)", and "Issue 1 - March 2011 (pp. 1-203)". A red annotation "(3)" is placed to the right of the "Issue 2" sub-entry. Below this, there are four more volume entries: "Volume 25 - 4 Issues (March 2010 - December 2010)", "Volume 24 - 4 Issues (March 2009 - December 2009)", "Volume 23 - 4 Issues (March 2008 - December 2008)", and "Volume 22 - 4 Issues (March 2007 - December 2007)". A red annotation "(2)" is placed to the right of the "Volume 23" entry.

所有的卷和期

1. 在页面上方，您可以看到最新的内容链接

2. 过往期刊将会以灰色显示

3. 点击此卷显示条，您可以看到该卷的内容

功能概述

(1) Download PDF (740 KB) View Article (2)

(3) (4) Arthritis Res Ther March 2003, 5:120

(5) Degeneration of the intervertebral disc

(6) Jill PG Urban, Sally Roberts

(7) Download PDF (740 KB) View Article (8)

(9) Abstract
The intervertebral disc is a cartilaginous structure that resembles articular cartilage in its biochemistry, but morphologically it is clearly different. It shows degenerative and ageing changes earlier than does any other connective tissue in the body. It is believed to be important clinically because there is an association of disc degeneration with back pain. Current treatments are predominantly conservative or, less commonly, surgical; in many cases there is no clear diagnosis and therapy is considered inadequate. New developments, such as genetic and biological approaches, may allow better diagnosis and treatments in the future.

(10) (11)

(12) Within this Article:
• Introduction
• Disc morphology
• Biochemistry
• Effect of degenerative changes on disc function and pathology
• Aetiology of disc degeneration
• New therapies
• Conclusion
• References

(13) Other actions:
• Export citations
• Register for Journal Updates
• About This Journal

(14) Related Content
(15) Supplementary Material (0)
(16) References (133)
(17) About this Article

1. 下载PDF
2. 浏览 (HTML) 文章
3. 期刊标题
4. 出版年限
5. 文章标题
6. 作者
7. 下载PDF
8. 浏览 (HTML) 文章
9. 摘要
10. 期刊封面
11. 内容查看 (预览) (Look Inside)
12. 在此期刊内的链接 (Within this Article Links)
13. 导出参考文献
14. 相关文章
15. 补充材料

 » View Article

Mechanical properties and evolution in ultrafine-grained MgAlZn alloy AZ31 processed by severe plastic deformation

Jitka Vrátná¹, Miloš Janeček¹ , Jakub Čížek², Dong Jun

- (1) Department of Physics of Materials, Faculty of Mathematics and Physics, Czech Republic
- (2) Department of Low Temperature Physics, Faculty of Mathematics and Physics, Czech Republic
- (3) Department of Materials Science and Engineering, POS

 Miloš Janeček
Email: janecek@met.mff.cuni.cz

Received: 10 November 2012

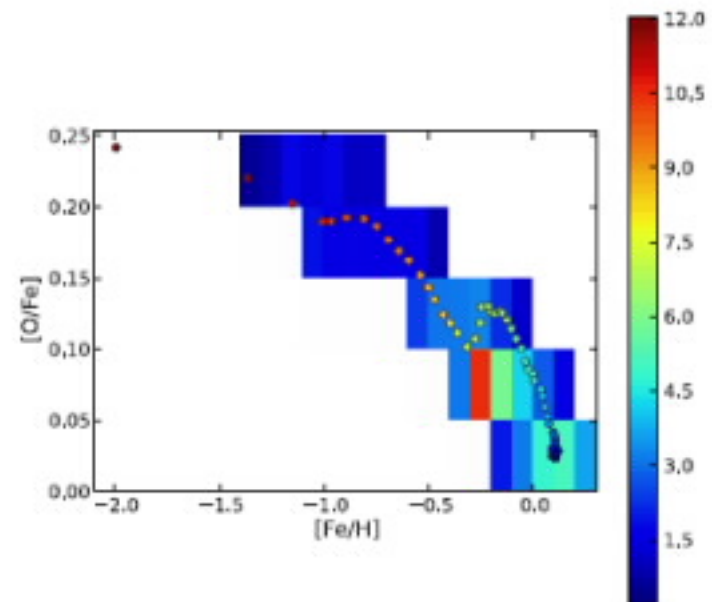
Accepted: 9 January 2013

Published online: 24 January 2013

Abstract

Commercial MgAlZn alloy AZ31 was processed by two-step severe plastic deformation (SPD) consisting of extrusion followed by equal channel angular pressing (ECAP). Processing by ECAP was conducted at elevated temperature (300 °C) and high pressure (HPT) was applied at room temperature, and the specimen thickness (N = 3/4 - 15) were prepared. Mechanical properties and HPT were investigated by Vickers microhardness me

Way-like galaxy from Stinson et al. (2013), where each pair of subsets in the simulations, sorted by their age: there is a 'young, thin, extended'



References

1. Capua I, Alexander DJ: **Avian influenza: recent developments**. *Avian Pathol* 2004, **4**:393–404.

[CrossRef](#) 

2. Capua I, Alexander DJ: **The challenge of avian influenza**.

[CrossRef](#) 

3. Alexander DJ: **An overview of the epidemiology of avian influenza**.

[CrossRef](#) 

4. Alexander DJ: **A review of avian influenza in different bird species**.

[PubMed](#)  [CrossRef](#) 

5. Olsen B, Munster VJ, Wallensten A, Waldenström J, Osterholm MT, Haynes L, Sorensen OJ, Heffernan JM, Lindstrom S, Miller M, et al: **Global patterns of influenza A virus in wild birds**.

J Virol 2006, **5772**:384–388.

[CrossRef](#) 

6. Humberd J, Guan Y, Webster RG: **Comparison of influenza A viruses in wild birds**.

J Virol 2006, **5**:2151–2161.

[CrossRef](#) 

7. Perez DR, Webby RJ, Hoffmann E, Webster RG: **Influenza A viruses**.

Avian Dis 2003, **47**(3 Suppl):1114–1117.

[PubMed](#)  [CrossRef](#) 

8. Perkins LE, Swayne DE: **Pathobiology of A/Chickens**.

Avian Pathol 2001, **2**:149–164.

[CrossRef](#) 

9. Jeong OM, Kim MC, Kim MJ, Kang HM, Kim HR, Kim TS, et al: **Isolation of influenza A viruses with the highly pathogenic H5N1 avian influenza virus**.

J Vet Sci 2005, **176**:105–108.

[CrossRef](#) 

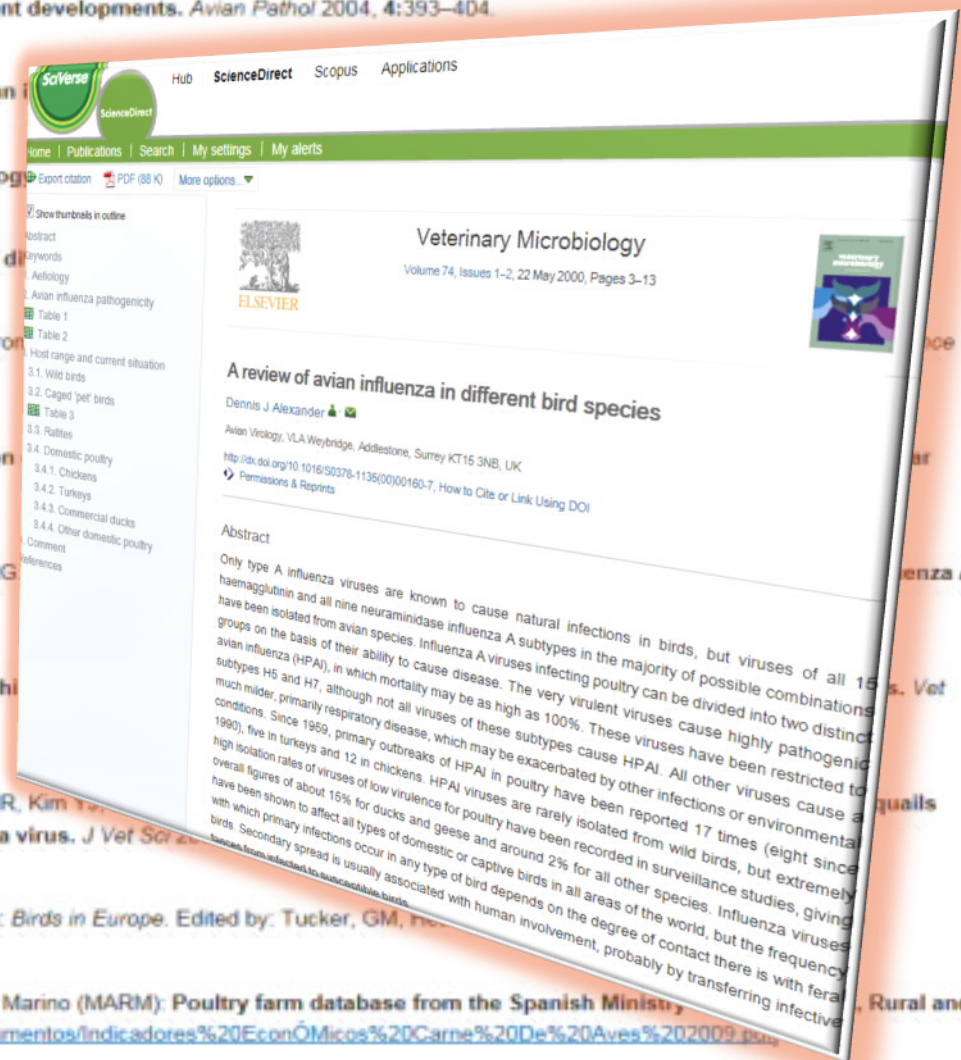
10. Aebischer NJ, Potts GR, Red-legged partridge: *Birds in Europe*. Edited by: Tucker, GM, et al.

International, Cambridge, UK; 1994:214–215.

11. Ministerio de Medio Ambiente, Medio Rural y Marino (MARM): **Poultry farm database from the Spanish Ministry of Agriculture, Fisheries and Rural Affairs**.

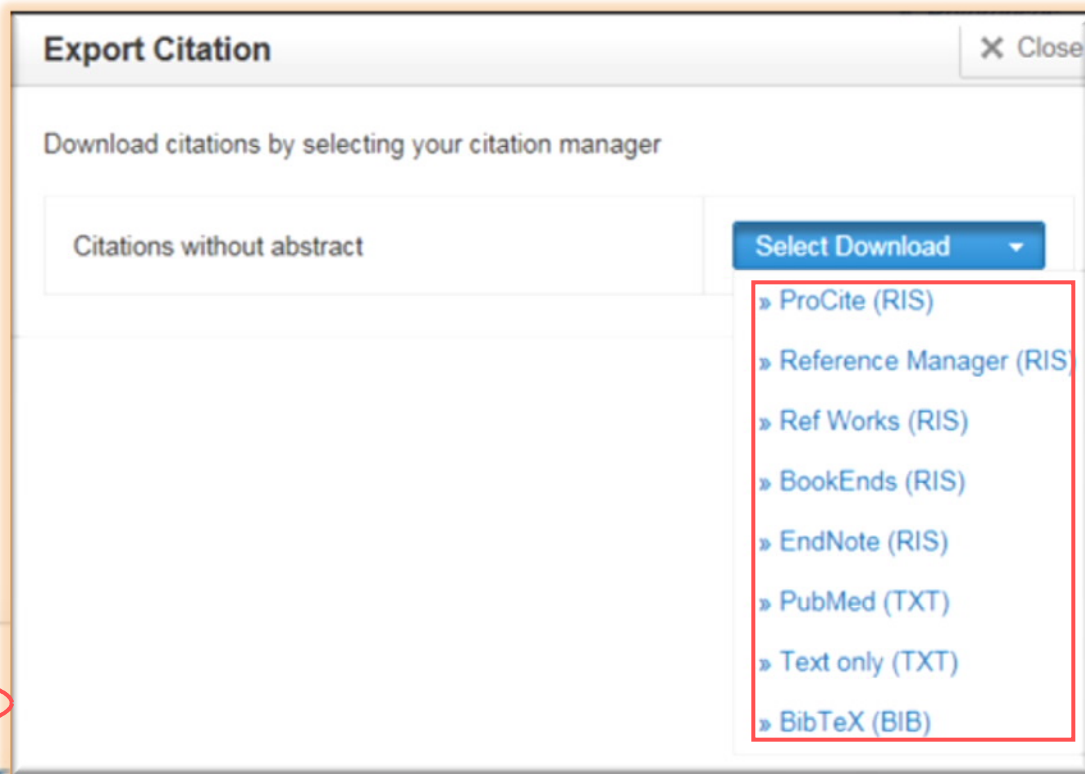
<http://www.mapa.es/app/Sch/documentos/Indicadores%20Economicos%20Carne%20De%20Aves%202009>

12. Miller J, Cortez C, Martin-Mateo MD, Villafuerte D: **Comparative survey of the seroprevalence of influenza A viruses in wild and farm-reared red-legged partridges**.



Other actions

- » [Export citations](#)
- » [Register for Journal Updates](#)
- » [About This Journal](#)
- » [Reprints and Permissions](#)



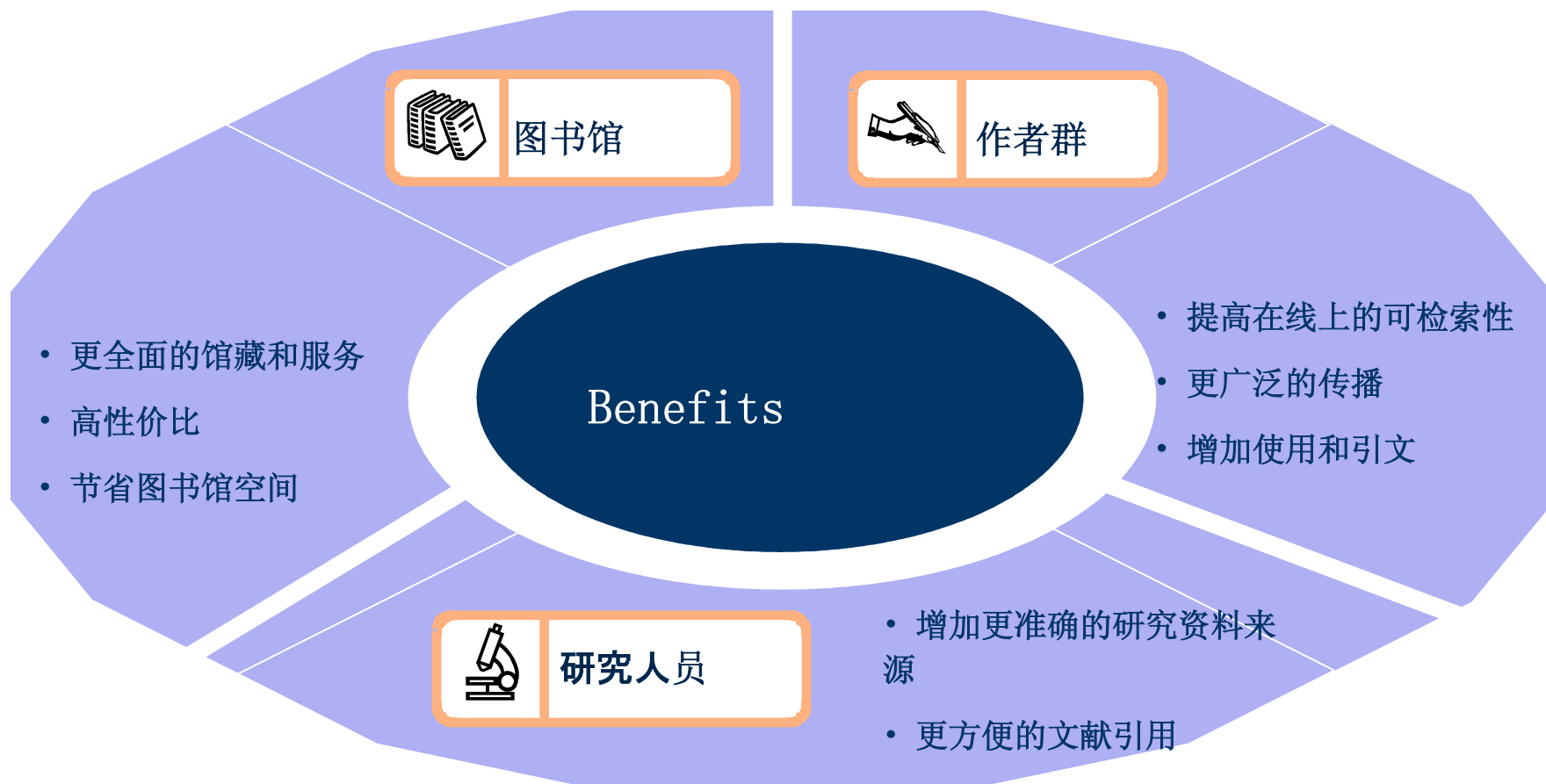
The screenshot shows a dialog box titled "Export Citation" with a "Close" button in the top right corner. Below the title bar, the text "Download citations by selecting your citation manager" is displayed. There are two main sections: on the left, a box labeled "Citations without abstract"; on the right, a blue "Select Download" dropdown menu. The dropdown menu is open, showing a list of citation formats: ProCite (RIS), Reference Manager (RIS), Ref Works (RIS), BookEnds (RIS), EndNote (RIS), PubMed (TXT), Text only (TXT), and BibTeX (BIB). A red box highlights the entire dropdown menu area.

Springer电子图书



丁小毅
华中、上海地区销售主管

- 电子图书促进科研活动
- Springer 电子图书
- SpringerLink 图书页面



- 2007年，与清华大学图书馆组织Springer电子图书集团采购
- 中国大陆地区最大的外文电子图书数据库集团
- 200余家高校客户
- 包含中国科学院、中国医学科学院、中国农业科学院、国家图书馆等中国顶尖科研机构 and 公共图书馆

- 内容优势
- 超过60,000种电子图书，并每年递增多达8000种
- 包括13个学科，组成了理想的跨学科电子书数据库
- 图书作者来自有影响力的科研人士

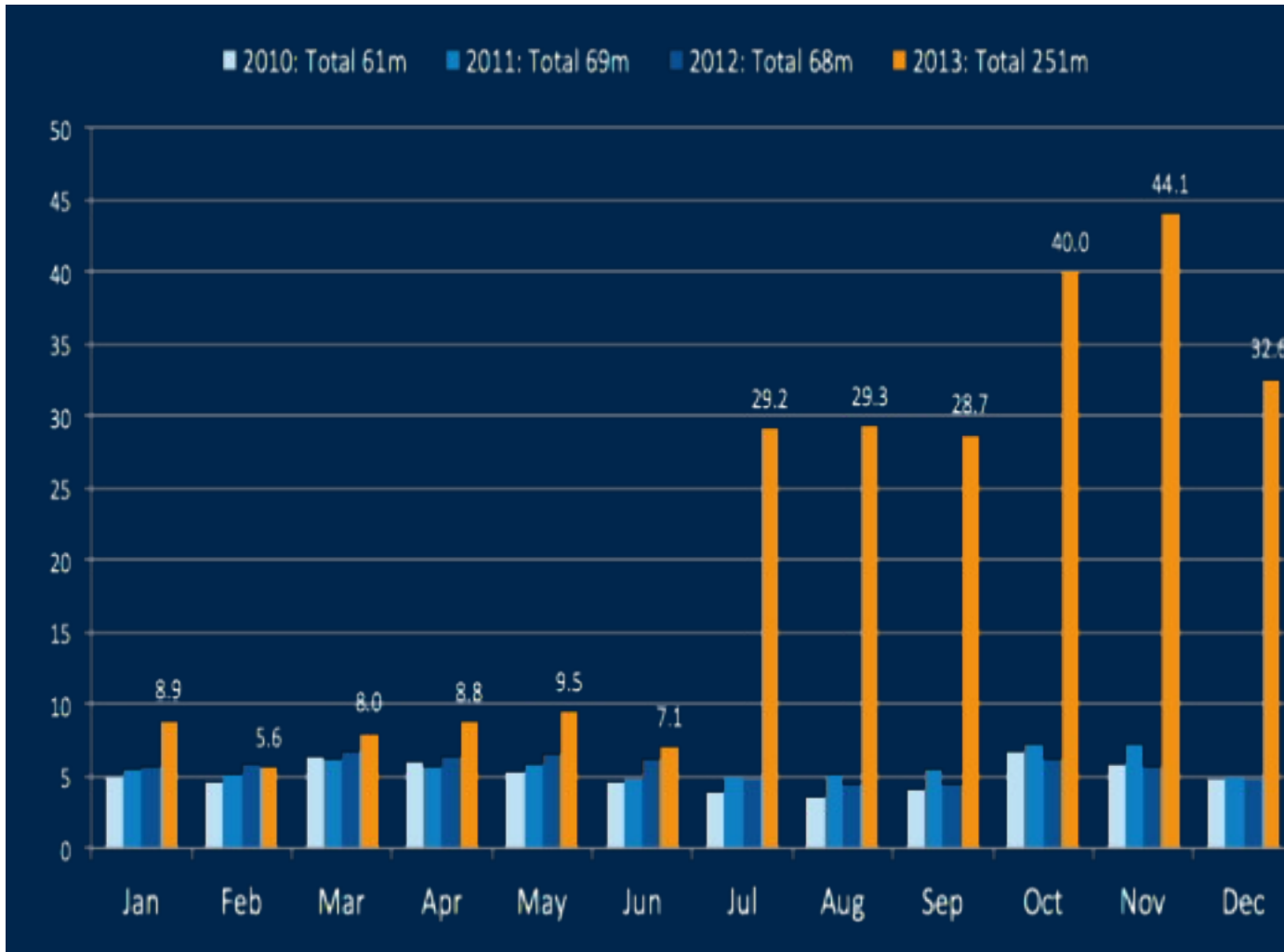
- 功能优势
- IP控制，无并发用户限制，最大程度鼓励用户的自由使用
- 可进行章节级别检索，实现全文索引功能
- 与Springer所有电子资源整合，充分实现链接功能
- 无数字版权管理(DRM)限制，用户可自行选择访问方式并通过多种途径访问Springer电子图书
- 用户可以下载MARC21格式编目数据，网址为springer.com/MARC
- 符合COUNTER标准的使用量统计数据

	学科
1	Behavioral Science 行为科学
2	Business & Economics 商学和经济学
3	Humanities, Social Science & Law 人文科学, 社会科学和法律
4	Chemistry & Material Science 化学和材料科学
5	Computer Science 计算机科学
6	Professional Computing and Applied Computing 计算机职业技术与专业计算机应用
7	Earth & Environmental Science 地球与环境科学
8	Engineering 工程学
9	Mathematics and Statistics 数学与统计学
10	Energy 能源
11	Physics & Astronomy 物理和天文学
12	Biomedical & Life Science 生物医学和生命科学
13	Medicine 医学

Springer 2013版权年 Springer电子书学科分类	预计图书数量	实际图书数量
行为科学	85	93
生物与生命科学	560	564
商业与经济学	370	373
化学与材料学	280	280
计算机科学	1,100	1,098
地球与环境科学	285	328
能源	130	881
工程	775	124
人文社科和法律	665	667
数学与统计	535	534
医学	560	564
物理与天文学	325	324
计算机应用	165	166
总数	5,835	5,996

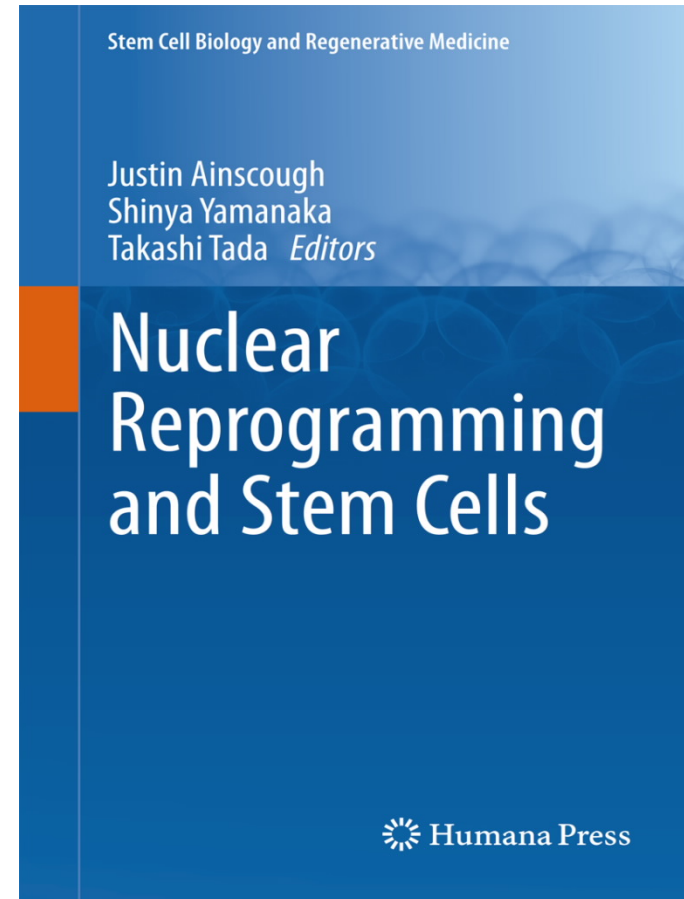
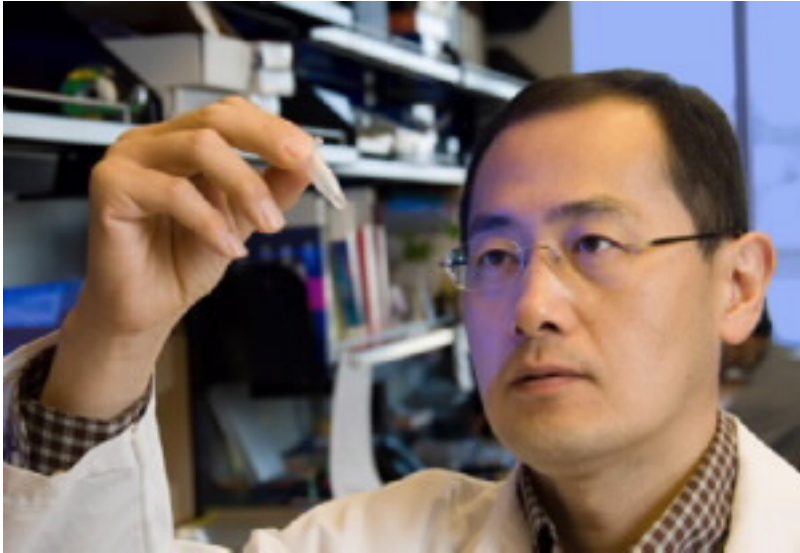
Downloads - Chapters

+270%
from 2012



2013年7月
整书下载功能
广受好评

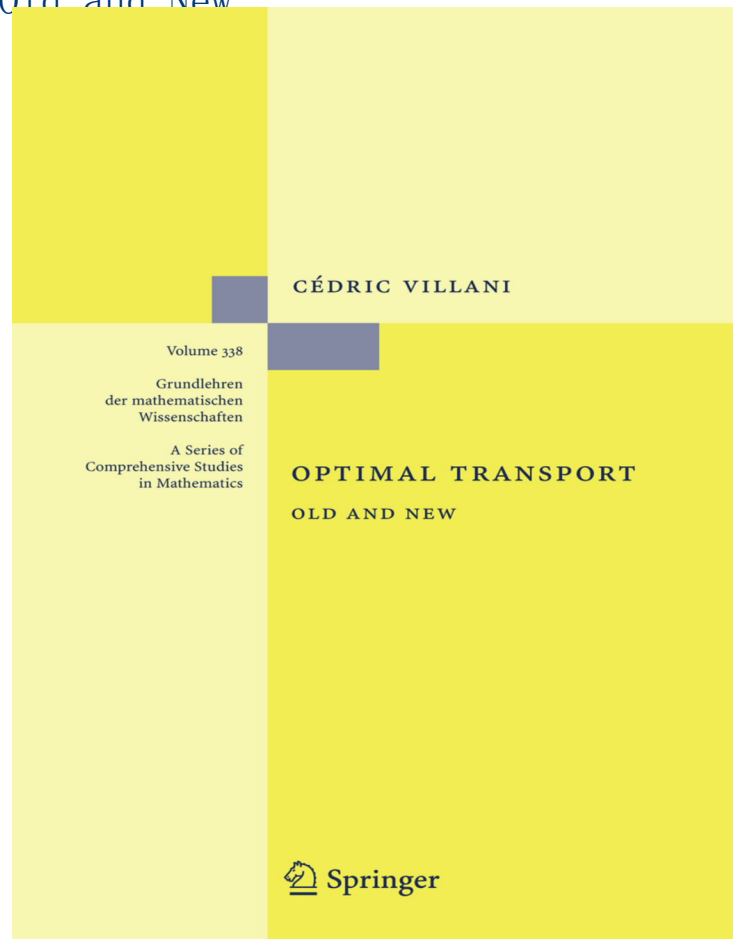
- 医学领域2012年诺贝尔奖获奖者在Springer的著作
- Nuclear Reprogramming and Stem Cells

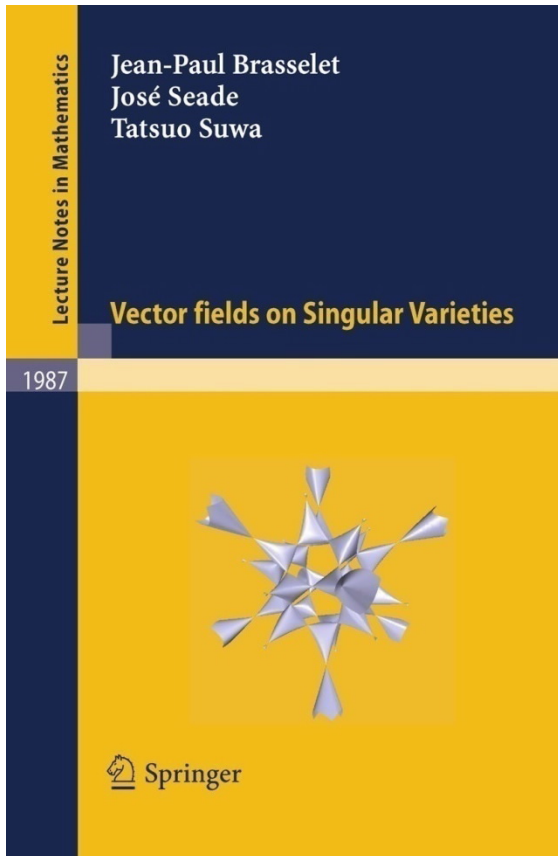


- 物理学领域2012年诺贝尔奖获奖者在Springer的著作
- Quantum Decoherence
- Decoherence, Entanglement and Information Protection in Complex Quantum System
- Quantum Communication, Computing, and Measurement 3
- Quantum Future From Volta and Como to the Present and Beyond
- Fundamentals of Quantum Optics
- High-Resolu



- 数学领域菲尔兹奖获奖者在Springer的著作
- Perspectives in Analysis, Optimal Transport Old and New



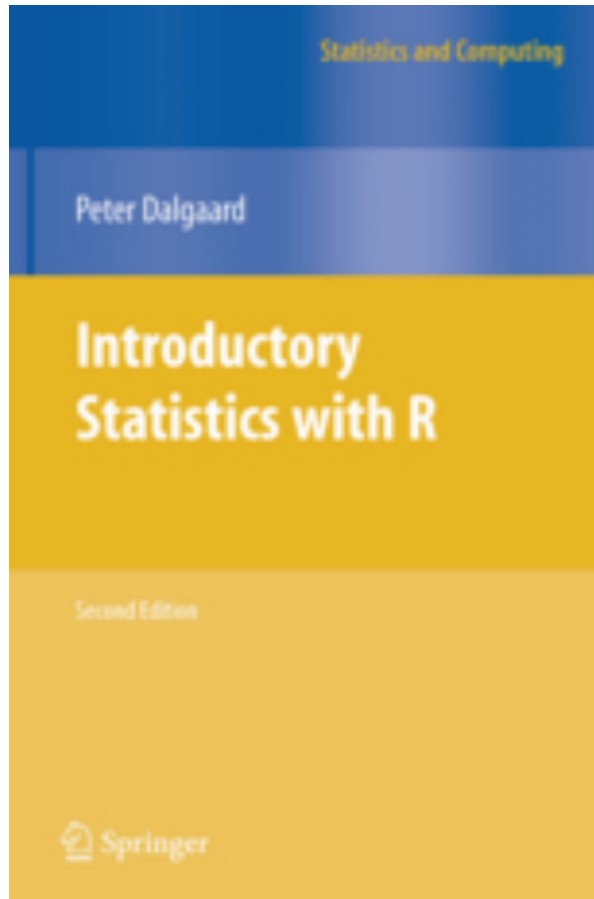


Lecture Notes in Mathematics

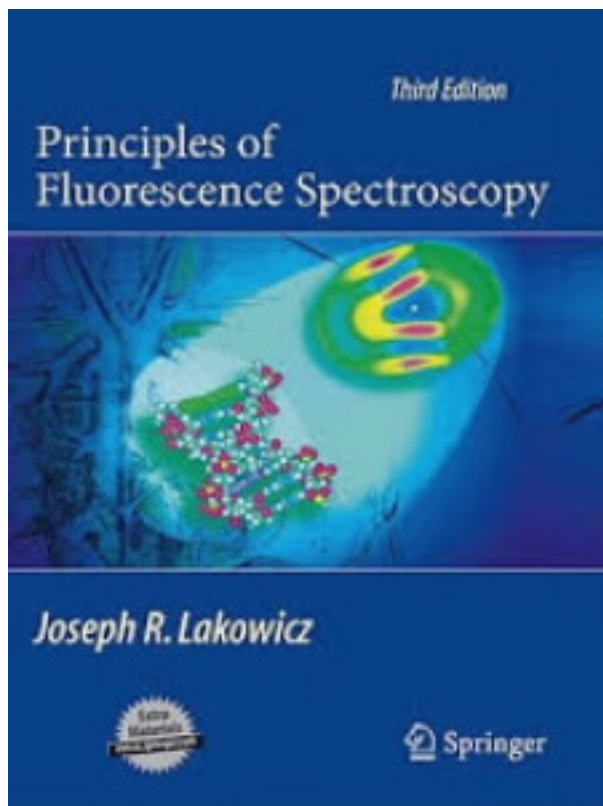
- Started 1964
- More than 2000 volumes published
- All volumes from vol. 1750 (2000) online (SpringerLINK)

**Digitisation of back volumes
1-1749 complete**

- 平均每年出版20卷



- Introductory Statistics with R
- ISBN: 978-0-387-79054-1
- R语言概论
- 入门教材
- 介绍了R语言的使用方法，对于需要统计软件R有着详细的介绍。适合需要学习统计学而又未接触过R语言的人。



- **Principles of Fluorescence Spectroscopy**
- 荧光分析法原理
- 本书主要内容包括：荧光仪器, 荧光团, 荧光寿命, 溶剂和环境效应, 猝灭及其机理与动力学, 各向异性, 能量传输, 蛋白质荧光, 多光子激发与显微镜, 传感器, DNA技术, 单分子检测, 荧光相关光谱, 新型探针和辐射衰变工程等。



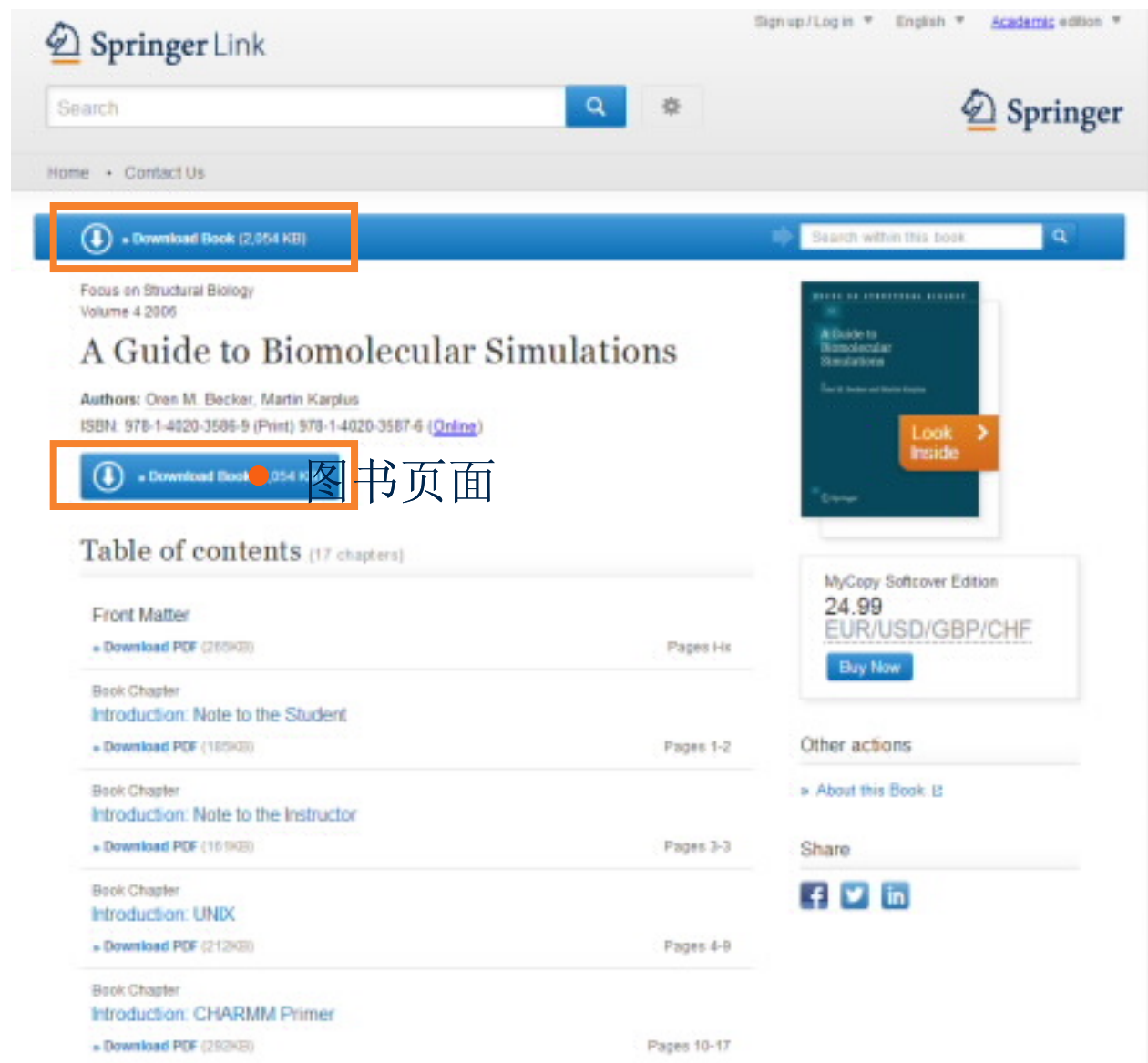
- **Handbook of Quantitative Finance and Risk Management**
- **数量金融及风险管理手册**
- 此书涵盖了数量金融，金融工程，风险管理，资产定价，金融衍生品，利率期限结构等多个领域的最新进展。

SpringerLink的产品内容

- 新增功能
- 图书页面

更多新功能:

- 增加一键下载
整本电子图书功能



The screenshot shows the Springer Link interface for the book "A Guide to Biomolecular Simulations". Two orange boxes highlight the "Download Book" buttons: one at the top of the page and one in the table of contents. The text "图书页面" (Book Page) is overlaid on the second button.

Springer Link | Sign up / Log in | English | Academic edition

Search [] [] []

Home • Contact Us

Download Book (2,354 KB)

Focus on Structural Biology
Volume 4 2006

A Guide to Biomolecular Simulations

Authors: Oren M. Becker, Martin Karplus
ISBN: 978-1-4020-3586-9 (Print) 978-1-4020-3587-6 (Online)

Download Book (2,354 KB) 图书页面

Table of contents (17 chapters)

Front Matter	Pages 1-6
Download PDF (2059KB)	
Book Chapter Introduction: Note to the Student	Pages 1-2
Download PDF (1659KB)	
Book Chapter Introduction: Note to the Instructor	Pages 3-3
Download PDF (1619KB)	
Book Chapter Introduction: UNDX	Pages 4-9
Download PDF (212KB)	
Book Chapter Introduction: CHARMM Primer	Pages 10-17
Download PDF (292KB)	

Look inside

MyCopy Softcover Edition
24.99
EUR/USD/GBP/CHF
[Buy Now](#)

Other actions

» About this Book is

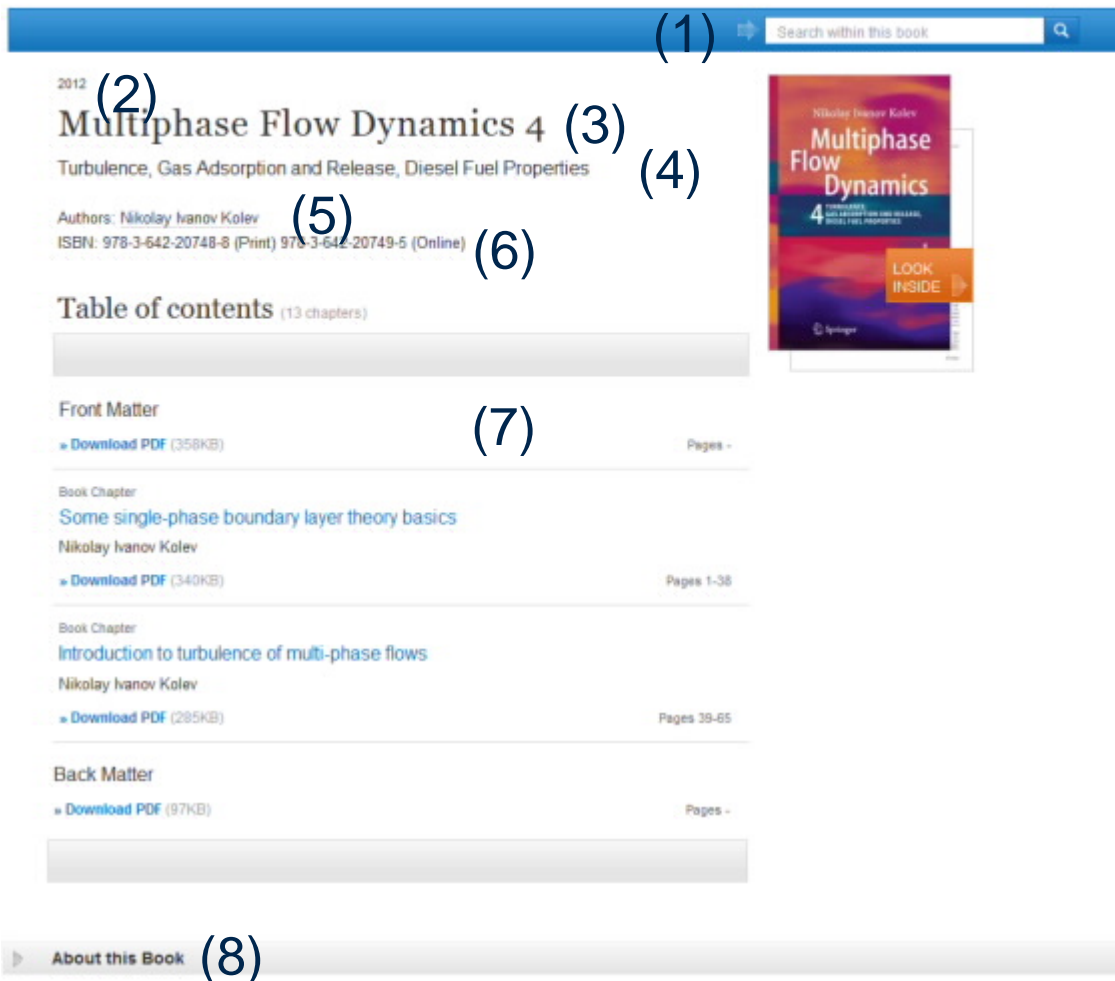
Share

[f](#) [t](#) [in](#)

图书页面

- 功能概述
- 在本书内搜索
- 在本书内浏览
- 无权限浏览本书
- 关于本书

图书主页



(1) Search within this book

2012 (2)
Multiphase Flow Dynamics 4 (3)
 Turbulence, Gas Adsorption and Release, Diesel Fuel Properties (4)

Authors: Nikolay Ivanov Kolev (5)
 ISBN: 978-3-642-20748-8 (Print) 978-3-642-20749-5 (Online) (6)

Table of contents (13 chapters)

Front Matter (7)

- » Download PDF (358KB) Pages -

Book Chapter
 Some single-phase boundary layer theory basics
 Nikolay Ivanov Kolev
 » Download PDF (340KB) Pages 1-38

Book Chapter
 Introduction to turbulence of multi-phase flows
 Nikolay Ivanov Kolev
 » Download PDF (285KB) Pages 39-65

Back Matter

- » Download PDF (97KB) Pages -

» About this Book (8)

功能概述

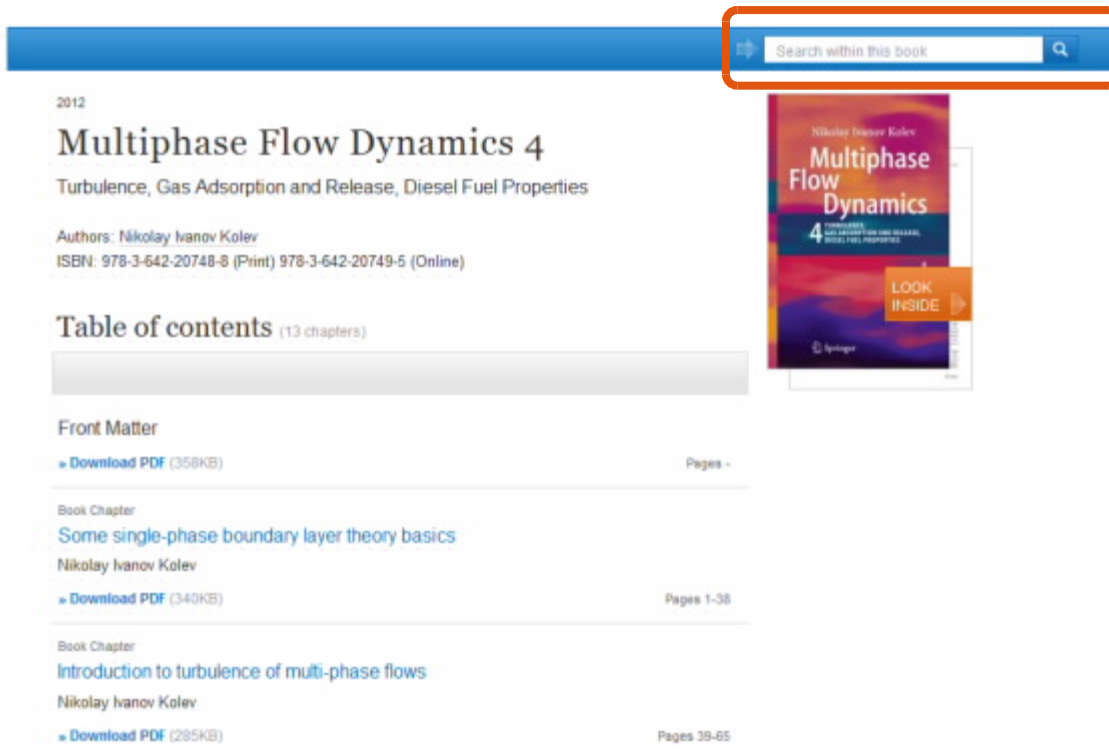
1. 在本书内搜索
2. 出版年限
3. 图书标题
4. 图书子标题
5. 作者
6. ISBN
7. 图书章节列表
8. 关于本书

图书主页

在本书内搜索

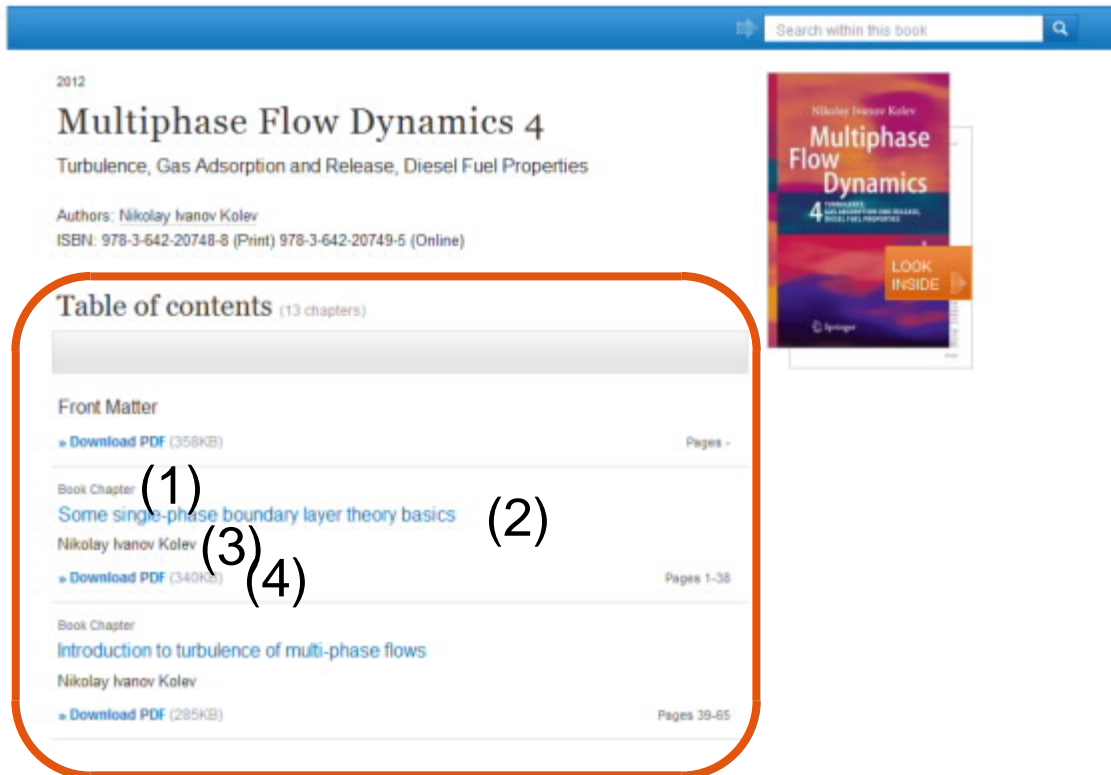
如果您需要搜索特定的关键词，您可以使用页面上方的“在本书内搜索”（search within this book）

搜索结果将跳转到新的页面



The screenshot shows the top of a book page. A blue search bar with the text "Search within this book" and a magnifying glass icon is highlighted with an orange border. Below the search bar, the book title "Multiphase Flow Dynamics 4" is displayed, along with the subtitle "Turbulence, Gas Adsorption and Release, Diesel Fuel Properties" and the author "Nikolay Ivanov Kolev". A "Table of contents" section is visible, listing chapters such as "Front Matter" and "Some single-phase boundary layer theory basics". To the right of the text, a small image of the book cover is shown, featuring the title and a "LOOK INSIDE" button.

图书主页



2012

Multiphase Flow Dynamics 4

Turbulence, Gas Adsorption and Release, Diesel Fuel Properties

Authors: Nikolay Ivanov Kolev
ISBN: 978-3-642-20748-8 (Print) 978-3-642-20749-5 (Online)

Search within this book

Table of contents (13 chapters)

Content Type	Title	Author	Download Link	Pages
Front Matter			Download PDF (358KB)	Pages -
Book Chapter	Some single-phase boundary layer theory basics	Nikolay Ivanov Kolev	Download PDF (340KB)	Pages 1-38
Book Chapter	Introduction to turbulence of multi-phase flows	Nikolay Ivanov Kolev	Download PDF (285KB)	Pages 39-65

Annotations: (1) Content type, (2) Title, (3) Author, (4) Download PDF link.

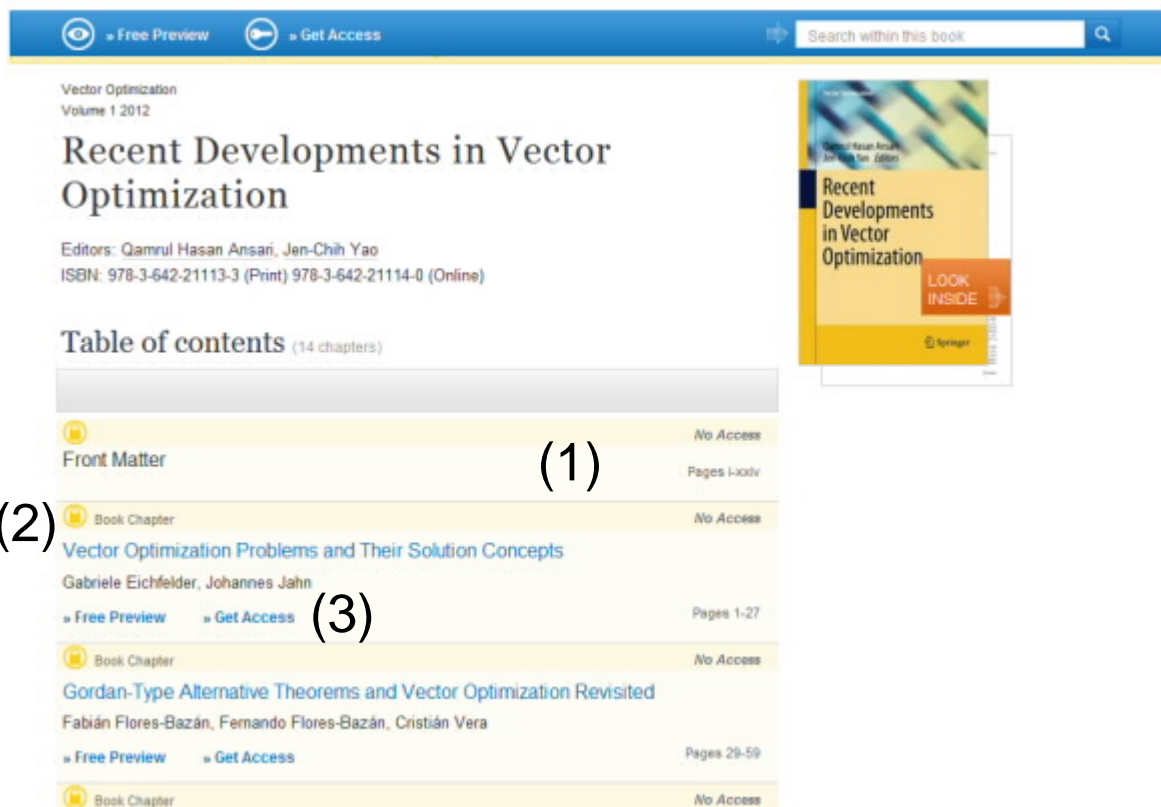
在本书内浏览

在本书内浏览章节，您会看到“内容列表”

内容涵盖以下信息：

1. 内容的类型
2. 此章节的标题
3. 作者信息
4. 下载PDF链接（前提是有下载权限）

图书主页







Vector Optimization
Volume 1 2012

Recent Developments in Vector Optimization

Editors: Qamrul Hasan Ansari, Jen-Chih Yao
ISBN: 978-3-642-21113-3 (Print) 978-3-642-21114-0 (Online)

Table of contents (14 chapters)

	Front Matter	No Access
	Vector Optimization Problems and Their Solution Concepts	No Access
	Gordan-Type Alternative Theorems and Vector Optimization Revisited	No Access
	Book Chapter	No Access

(1) (2) (3)

无权限浏览本书

如果您没有权限浏览，页面设计将有所不同：

1. 所有项目将会以黄色背景显示
2. 在每个项目前端有一个黄色锁标记
3. 无下载链接的话，只出现免费预览链接，但同时也会有“获得章节全文权限”的链接

图书主页

Back Matter

[Download PDF \(97KB\)](#)

Pages -

About this Book

- (1) **Book Title**
Multiphase Flow Dynamics 4
-
- Book Subtitle**
Turbulence, Gas Adsorption and Release, Diesel Fuel Properties
-
- Copyright**
2012
-
- DOI**
10.1007/978-3-642-20749-5
-
- Print ISBN**
978-3-642-20748-8
-
- Online ISBN**
978-3-642-20749-5
-
- Publisher**
Springer Berlin Heidelberg
-
- Copyright Holder**
Springer-Verlag Berlin Heidelberg
-
- (2) **Additional Links**
[About this Book](#)

- (3) **Topics**
- » Engineering Fluid Dynamics
 - » Engineering Thermodynamics, Heat and Mass Transfer
 - » Fluid- and Aerodynamics
 - » Thermodynamics

- (4) **Authors**
Nikolay Ivanov Kolev 
-
- Author Affiliations**
1. Framatome-ANP, Mährendorferstr. 7, 91074, Herzogenaurach, Germany

关于本书

在页面下方，您会看到关于本书的相关信息，包括：

1. 在页面左侧，您可以看到书目信息

- springer.com网站上提供的信息和服务以额外链接形式呈现在页面下方

- “主题” (Topics) 这些链接指向相关主题的搜索结果列表

- 在页面右侧您可以看到作者信息和所属单位或机构信息

图书章节

- 功能概述
- 无权限浏览本章节

图书章节

(1) [Download PDF \(343 KB\)](#)

Theoretical Computer Science
Lecture Notes in Computer Science Volume 2202, 2001, pp 17-37


Filter Models and Easy Terms

Fabio Alessi, Mariangiola Dezani-Ciancaglini, Furio Honsell

(1) [Download PDF \(343 KB\)](#)

Abstract (3)

We illustrate the use of intersection types as a tool for synthesizing λ -models which exhibit special purpose features. We focus on semantical proofs of easiness. This allows us to prove that the class of λ -theories induced by graph models is strictly included in the class of λ -theories induced by non-extensionsal filter models.

(2) 

(4) Other actions
[Export citations](#)

- ▶ Related (5) (5)
- ▶ Supplementary Material (0) (6)
- ▶ References (33) (7)
- ▶ About this Chapter (8)

功能概述

- 下载 PDF
- 内容查看(预览)
- 摘要
- 导出文献
- 相关内容
- 补充材料
- 参考文献
- 关于本章节

本网页结构和期刊网页

图书章节

👁️ Look Inside 📄 Get Access


Recent Developments in Vector Optimization
Vector Optimization Volume 1, 2012, pp 1-27

Vector Optimization Problems and Their Solution Concepts

Gabriele Eichfelder, Johannes Jahn

👁️ Look Inside
📄 Get Access

(1)



(2)

Abstract

In vector optimization one investigates optimal elements of a set in a pre-ordered space. The problem of determining these optimal elements, if they exist at all, is called a vector optimization problem. Problems of this type can be found not only in mathematics but also in engineering and economics. There, these problems are also called multiobjective (or multi criteria or Pareto) optimization problems or one speaks of multi criteria decision making. Vector optimization problems arise, for example, in functional analysis (the Hahn–Banach theorem, the lemma of Bishop– Phelps, Ekeland’s variational principle), multiobjective programming, multi-criteria decision making, statistics (Bayes solutions, theory of tests, minimal covariance matrices), approximation theory (location theory, simultaneous approximation, solution of boundary value problems) and cooperative game theory (cooperative n player differential games and, as a special case, optimal control problems). In the last decades vector optimization has been extended to problems with set-valued maps. This field, called set optimization, has important applications to variational inequalities and optimization problems with multivalued data.

(3)

Within this Chapter:

- Introduction
- Pre-Orders and Partial Orders
- Optimality Concepts in Linear Spaces
- Optimality Concepts in Set Optimization
- Existence Results in Vector Optimization
- Application: Field Design of a Magnetic Resonance System
- References

Other actions

- Export citations
- About this Book ⓘ

无权限浏览本书

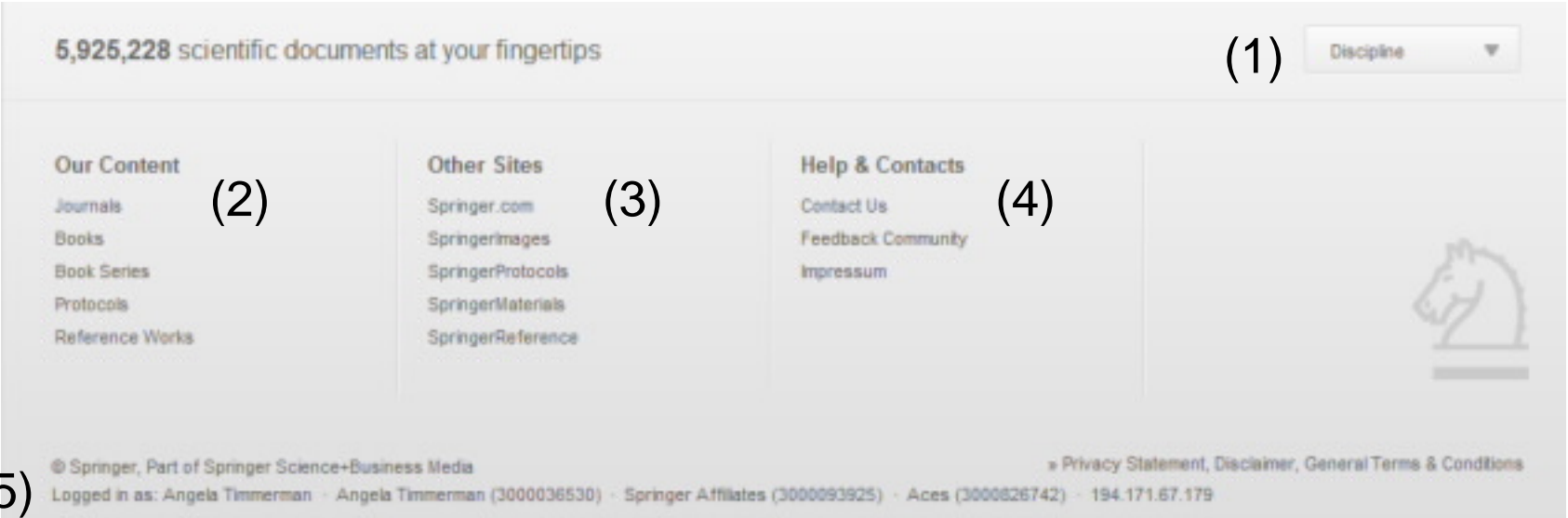
如果您没有浏览权限，页面设计将有所不同：

- 页面上方蓝色条框下面显示一条黄色线

- 无下载链接，只出现“Look Inside”链接，但同时也会有“获得章节全文权限”的链接

- 在封面下方的“在本章节内”（Within this Chapter）链接将不会

脚注



5,925,228 scientific documents at your fingertips (1) Discipline ▼

Our Content (2)
Journals
Books
Book Series
Protocols
Reference Works

Other Sites (3)
Springer.com
SpringerImages
SpringerProtocols
SpringerMaterials
SpringerReference

Help & Contacts (4)
Contact Us
Feedback Community
Impressum

(5) © Springer, Part of Springer Science+Business Media
Logged in as: Angela Timmerman · Angela Timmerman (3000036530) · Springer Affiliates (3000093925) · Aces (3000826742) · 194.171.67.179
» Privacy Statement, Disclaimer, General Terms & Conditions

概述

浏览内容可分为：

1. 行业
2. 内容类型
3. 其他Springer链接
4. 协助和联系方式



SpringerProtocols实验室指南数据库

崔丽丽

华北、西南销售主管

- SpringerProtocols介绍



Place the cheese  in
a bowl, add egg 
salt , onions ,
parsley , chilly
peppers , and the
capers .
Stir with a fork until well
mixed.



- 主要用于生命科学
 - 一步一步的指示，帮助研究人员进行实验
 - 经过验证的书面程序，用于设计和实施实验：
 - 背景资料
 - 材料
 - 仪器
 - 实验方法
 - 数据样本
 - 技巧提示/疑难解决方案
 - 来源文献

Contents of this article

1 Introduction

2 Materials

- 2.1 miRDeep
- 2.2 miRNAkey
- 2.3 UEAsRNAtoolkit
- 2.4 miRanalyzer
- 2.5 SeqBuster
- 2.6 DSAP
- 2.7 mirTools
- 2.8 E-miR
- 2.9 SigTerms

3 Methods

- 3.1 miRDeep
- 3.2 miReduce
- 3.3 miRNAkey
- 3.4 UEA sRNAtoolkit
- 3.5 miRanalyzer
- 3.6 SeqBuster
- 3.7 DSAP
- 3.8 mirTools
- 3.9 E-miR
- 3.10 SigTerms
- 3.11 Small RNA Workbench

4 Notes

- 4.1 How to Use SigTerms?
- 4.2 FindSignificantTerms
- 4.3 CountTermToGene
- 4.4 DoSimulation-Testing

References

实例状况

影响

使用一般文献提供的实验方法



必要的细节被省略

使用实验室用过的方法



影响结果的可靠性和宝贵的时间

使用网上免费提供的实验指南



缺乏细节;可靠性受质疑

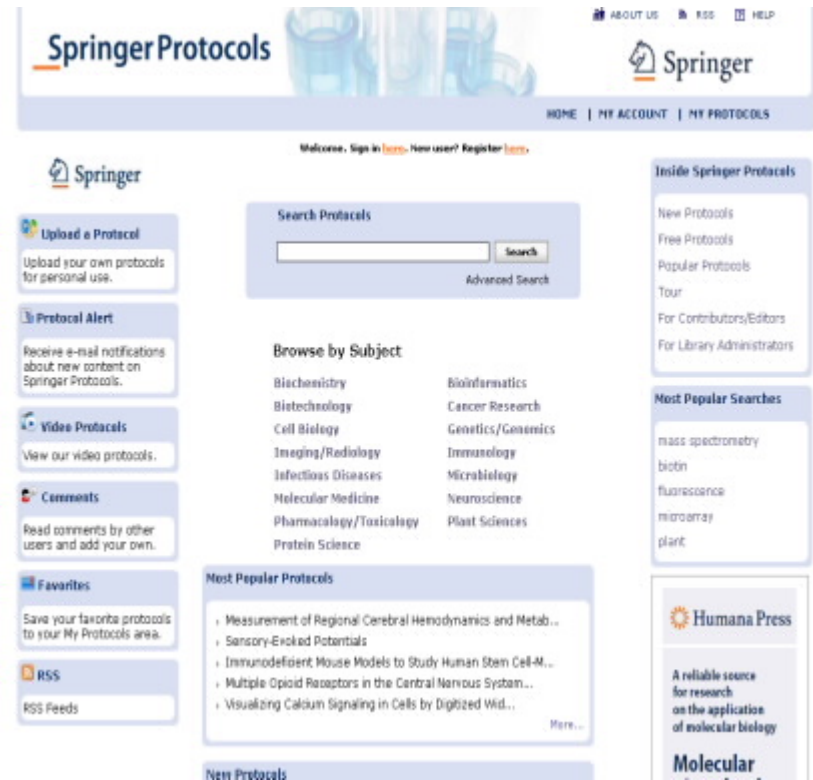
使用缺乏实验方法的文献作参考

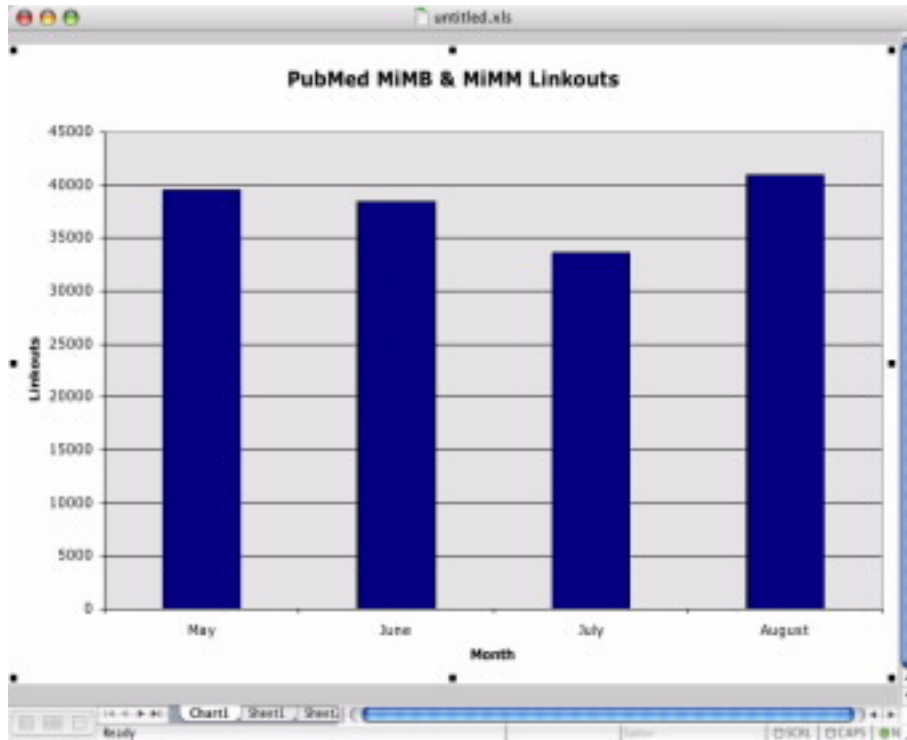


宝贵的研究时间都花在研磨方法上

全球最大的在线实验室指南数据库 皆经同行评审

- 全球最大的在线实验室指南数据库
- 皆经同行评审
- SpringerProtocols.com为研究员和科学家提供易于访问、内容全面且更新迅速的实验室指南数据库，实验室指南来自于著名系列：分子生物方法 (*Methods in Molecular Biology* Series) 和分子医学方法 (*Methods in Molecular Medicine* series)
- Springer Protocol 由 Protocol的鼻祖John M. Walker博士担任主编





每个月，访问SpringerProtocols.com的用户有40000多位来自**PubMed**

PubMed
的SpringerProtocol链接



同时SpringerProtocols
也被**Embase.com,**
Scopus, Web of
Science等数据库收录

Springer实验室指南包含以下15个学科分类：

- 生物化学
- 生物信息学
- 生物工艺学
- 癌症研究
- 细胞生物学
- 遗传/基因
- 成像/ 放射医学
- 免疫学
- 传染性疾病
- 微生物学
- 分子医学
- 神经系统科学
- 药理学/毒物学
- 植物科学
- 蛋白质科学

生命科学

- 蛋白质组学
- 基因组学
- 生物信息学
- 神经学
- 免疫化学
- 植物科学
- 微生物学

分子医学

- 癌症
- 传染病
- 疫苗
- 基因疗法

生物技术

- 纳米生物技术
- 药物研发/制造
- 病原体研究
- 酶的生产
- 营养学
- 生物修复

— 丛书系列 (1187)

- **Methods in Molecular Biology**
- **Methods in Molecular Medicine**
- **Neuromethods**
- **Methods in Biotechnology**
- **Methods in Pharmacology and Toxicology**

— 单本 (21)

— 期刊

- **Molecular Biotechnology**

- 还有几种备选的protocol来配合不同的实验条件和设备!



- 标准、规范、数据可靠
 - Protocol鼻祖亲历亲为 (Springerprotocols的主编是全球Protocol标准的创建人)
 - 出版500余本广受欢迎及经同行评议的书籍；这些书籍曾在过去20年被全球100+万研究人员使用
- 收藏内容丰富
 - SpringerProtocol为全球最大的在线Protocol数据库，所有内容皆经同行评议。每周更新内容，目前约34000条，每年增加3300条。
 - 涵盖数年Protocol数据，不仅适用最新设备，使用老设备亦能得到同样的实验结果。
 - 新增video 的protocol!

- 所有指南皆被PubMed/Medline索引，提供摘要
 - 极大地方便广大读者检索实验室指南
- SpringerProtocol功能强大的平台
 - 最全面且大量的有线实验指南集合
 - 设有提醒功能，让您随时捕捉最新动态
 - Web 2.0功能令搜寻和浏览变得更方便、更轻松
 - 移动版网页适用于任何苹果，安卓和黑莓系统移动设备
 - 数据——用户可以随时下载符合COUNTER标准的使用统计



Springer Protocols 的使用

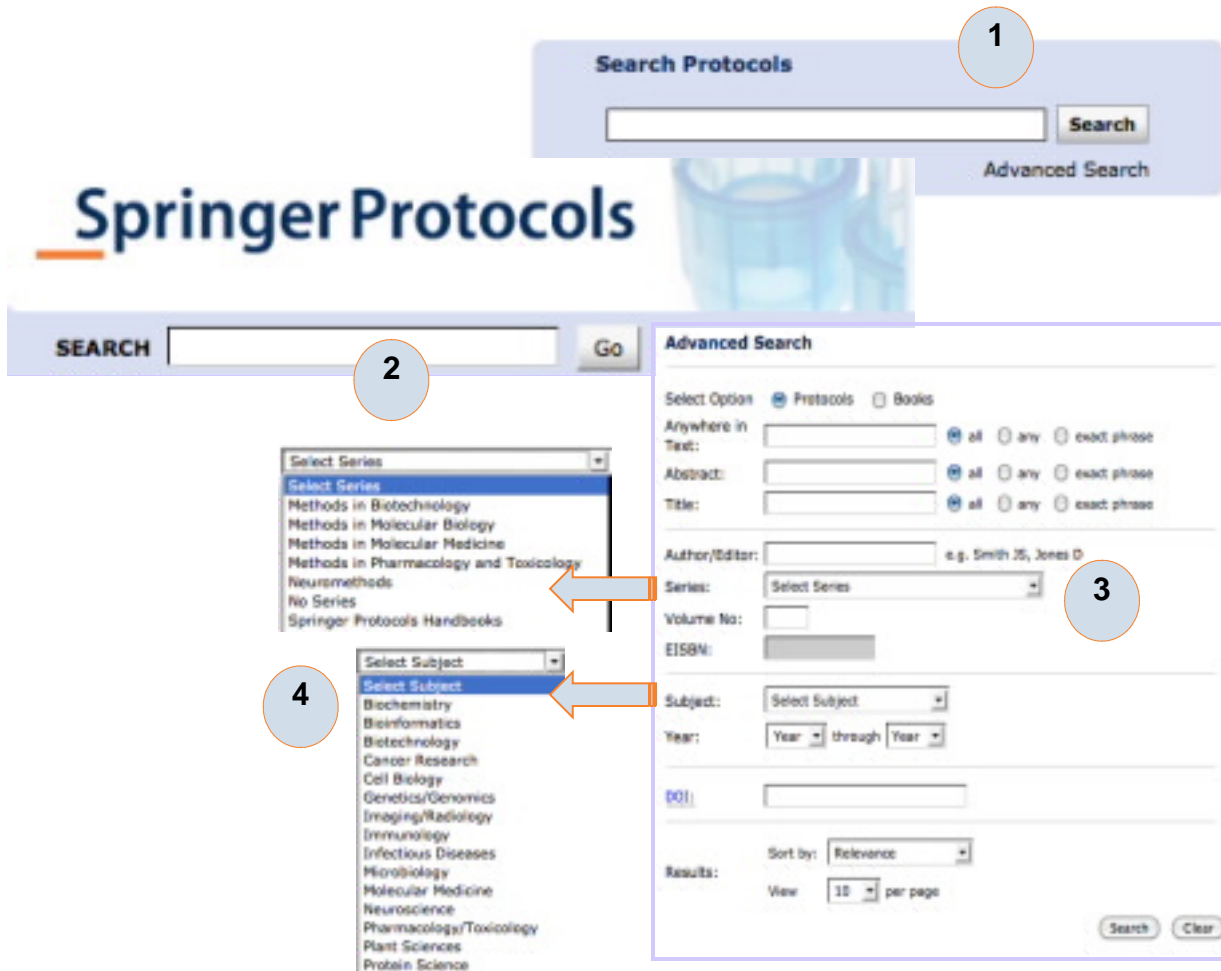
(springerprotocols.com平台)

– Homepage

The screenshot shows the SpringerProtocols homepage with several key features highlighted by numbered callouts:

- 1**: Search Protocols search bar with an Advanced Search link.
- 2**: Browse by Subject section, listing various scientific fields such as Biochemistry, Bioinformatics, and Cancer Research.
- 3**: Most Popular Protocols section, featuring a list of popular articles with titles like "Generating Murine Osteoclasts from Bone Marrow".
- 4**: New Protocols section, displaying a list of recently added articles.
- 5**: A vertical sidebar on the left containing links for Mobile, Upload a Protocol, Protocol Alert, Video Protocols, Comments, Favorites, and RSS.
- 6**: Inside SpringerProtocols section, providing links to Source Title List, New Protocols, Free Protocols, Popular Protocols, Tour, and user-specific options.

1. 搜索/高级搜索
2. 浏览学科
3. 热门搜索
4. 最新上传的protocols
5. 互动工具
6. Inside SpringerProtocols

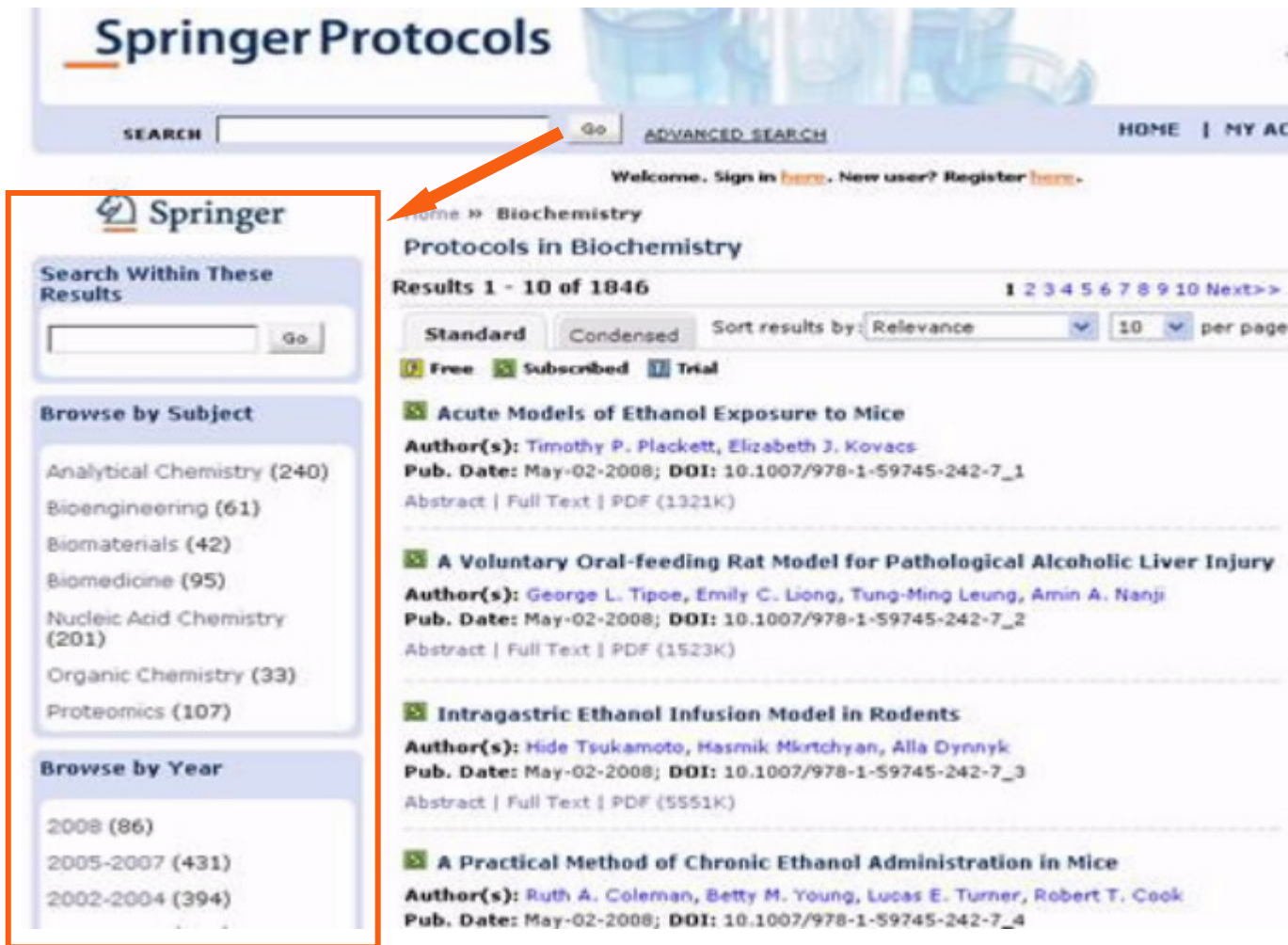


The screenshot shows the SpringerProtocols search interface. At the top, there is a 'Search Protocols' section with a search input field and a 'Search' button, labeled with a circled '1'. Below this is the 'Springer Protocols' logo and a 'SEARCH' section with another search input field and a 'Go' button, labeled with a circled '2'. To the right is the 'Advanced Search' section, which includes a 'Select Option' dropdown (set to 'Protocols'), search criteria for 'Anywhere in Text', 'Abstract', and 'Title', an 'Author/Editor' field, a 'Series' dropdown menu labeled with a circled '3', 'Volume No.', 'EISBN', and 'Subject' fields. Below these are 'Year' and 'DOI' fields. At the bottom of the advanced search are 'Sort by' and 'Results' options. On the left side of the advanced search, there are two dropdown menus: 'Select Series' and 'Select Subject', both labeled with a circled '4'. The 'Select Series' dropdown lists options like 'Methods in Biotechnology', 'Methods in Molecular Biology', etc. The 'Select Subject' dropdown lists options like 'Biochemistry', 'Bioinformatics', etc.

1. 输入想要搜索的内容，点击search.
2. 搜索栏会一直在SpringerProtocols标志的下面，任何时候您都可以浏览Protocols.
3. 点击“高级搜索”将显示更详细的搜索领域.
4. SpringerProtocols允许您通过系列图书和学科筛选您的研究.

SpringerProtocols的检索

点击页面左侧导航栏，进一步根据二次检索、子学科和出版年限定浏览结果



The screenshot displays the SpringerProtocols website interface. The main content area shows search results for 'Biochemistry', listing 1846 results. The first three results are visible, each with a green checkmark icon, author names, publication dates, and DOIs. The sidebar on the left contains navigation options: 'Search Within These Results', 'Browse by Subject' (listing various chemistry and biology fields with counts), and 'Browse by Year' (listing years and counts). An orange box highlights the sidebar, and an orange arrow points from it to the 'Biochemistry' breadcrumb in the main content area.

Springer

Search Within These Results

Browse by Subject

- Analytical Chemistry (240)
- Bioengineering (61)
- Biomaterials (42)
- Biomedicine (95)
- Nucleic Acid Chemistry (201)
- Organic Chemistry (33)
- Proteomics (107)

Browse by Year

- 2008 (86)
- 2005-2007 (431)
- 2002-2004 (394)

SpringerProtocols

SEARCH [input] [Go] ADVANCED_SEARCH HOME | MY AC

Welcome. Sign in [here](#). New user? Register [here](#).

Home » Biochemistry

Protocols in Biochemistry

Results 1 - 10 of 1846 1 2 3 4 5 6 7 8 9 10 Next>>

Standard Condensed Sort results by: Relevance 10 per page

Free Subscribed Trial


Acute Models of Ethanol Exposure to Mice
Author(s): Timothy P. Plackett, Elizabeth J. Kovacs
Pub. Date: May-02-2008; **DOI:** 10.1007/978-1-59745-242-7_1
Abstract | Full Text | PDF (1321K)

A Voluntary Oral-feeding Rat Model for Pathological Alcoholic Liver Injury
Author(s): George L. Tipoe, Emily C. Liang, Tung-Ming Leung, Amin A. Nanji
Pub. Date: May-02-2008; **DOI:** 10.1007/978-1-59745-242-7_2
Abstract | Full Text | PDF (1523K)

Intragastric Ethanol Infusion Model in Rodents
Author(s): Hide Tsukamoto, Hasmik Mkrtchyan, Alla Dynnyk
Pub. Date: May-02-2008; **DOI:** 10.1007/978-1-59745-242-7_3
Abstract | Full Text | PDF (5551K)

A Practical Method of Chronic Ethanol Administration in Mice
Author(s): Ruth A. Coleman, Betty M. Young, Lucas E. Turner, Robert T. Cook
Pub. Date: May-02-2008; **DOI:** 10.1007/978-1-59745-242-7_4

Contents of this article

- 1. Introduction
- 2. Materials
 - 2.1. Solution Recipes and E...
 - 2.2. Membranes
 - 2.3. Common PrP Antibodies
 - ...
- 3. Methods
 - 3.1. Western Blot
 - 3.2. Dot Blot and PK Digest...
 - 3.3. Immunoprecipitation of...
 - 3.4. Blot Storage Procedure...
- 4. Notes
- References 

Browse by Subject

- Biochemistry (3253)
- Bioinformatics (527)
- Biotechnology (686)
- Cancer Research (1302)
- Cell Biology (4706)

Artes expression systems
for the production of recombinant proteins in microbial systems
www.artes-biotechnology.com AdChoices ▶

3. Immunodetection of PrP^{Sc} Using Western and Slot Blotting Techniques

By: [Hanna Gyllberg¹](#), [Kajsa Löfgren¹](#)

Abstract

[Full Text](#) | [Download PDF \(715K\)](#)



Prion infectivity is often linked to presence of the protease-resistant isoform of prion protein (PrP), PrP^{res}; therefore, it is of highest interest to have convenient methods for rapid detection of PrP^{res} in the research laboratory. For detection of PrP^{res} in model systems to confirm infectivity, there are several methods that can be applied. This chapter focuses on detection of PrP^{res} by proteinase K digestion followed by Western blot, which is the only method that is both quantitative and qualitative. For large-scale screening of PrP^{res} content in samples, the dot blot method offers a great advantage for detecting PrP^{res}, and this method is also thoroughly described in this chapter.

Affiliation(s): (1) Department of Biochemistry and Biophysics, Stockholm University, Stockholm, Sweden

Book Title: [Prion Protein Protocols](#)

Series: Methods in Molecular Biology | **Volume:** 459 | **Pub. Date:** Jun-04-2008 | **Page Range:** 35-48 | **DOI:** 10.1007/978-1-59745-234-2_3








Subject: [Protein Science](#)

Key Words: [Dot blot](#) - [guanidinium thiocyanate](#) - [immunoprecipitation](#) - [nitrocellulose membrane](#) - [proteinase K digestion](#) - [PrP antibodies](#) - [PVDF membrane](#) - [reprobing](#) - [Western blot](#)








E-mail | Print | Bookmark



Inside SpringerProtocols

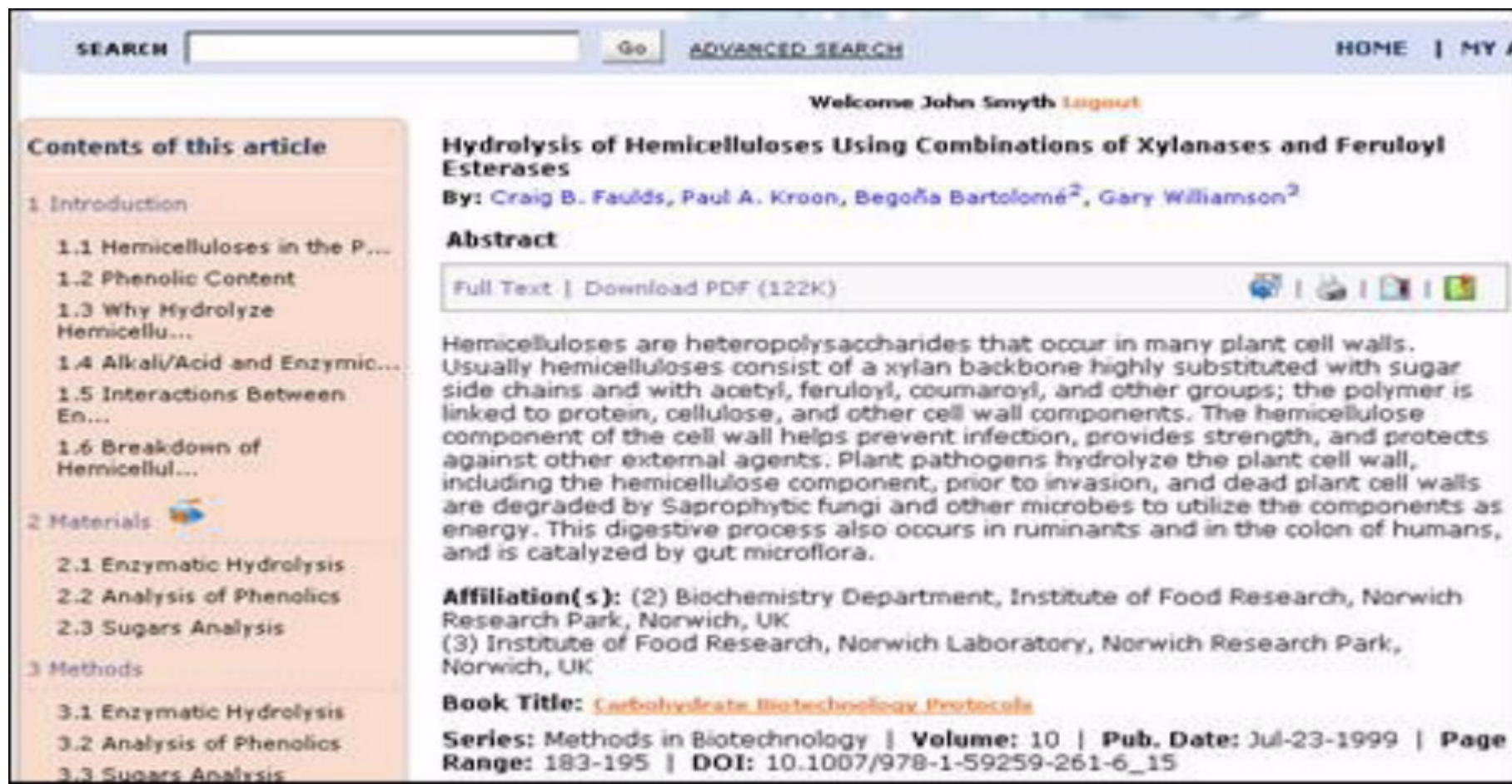
-  [Source Title List](#)
-  [New Protocols](#)
-  [Free Protocols](#)
-  [Popular Protocols](#)
-  [Tour](#)
-  [For Contributors/Editors](#)
-  [For Library Admins](#)

Useful Tools

- Post to [citeulike](#) 
-  [Related Books](#)
-  [Similar Protocols](#)
-  [Export Citation](#)
-  [Comment](#)
-  [Recommend to your library administrator](#)
-  [View This Article on SpringerLink](#)

My Protocols 个性化功能——

在浏览网页时，如果您想把某篇文章单独挑出来，或者是想以后继续浏览此文章，只要您点击一下鼠标，就可以把这边文章添加入My Protocols区。这样以后您将不用再通过检索或浏览即可以轻松的找到之前感兴趣的文章。




The screenshot displays a Springer article page with a search bar at the top. The article title is "Hydrolysis of Hemicelluloses Using Combinations of Xylanases and Feruloyl Esterases" by Craig B. Faulds, Paul A. Kroon, Begoña Bartolomé², and Gary Williamson². The abstract describes hemicelluloses as heteropolysaccharides in plant cell walls, used for energy by microbes and ruminants. The page includes a table of contents on the left, an affiliation section for the authors, and a book title "Carbohydrate Biotechnology Protocols".

SEARCH **Go** **ADVANCED SEARCH** **HOME** | **MY A**

Welcome John Smyth [Logout](#)


Contents of this article

- 1 Introduction
 - 1.1 Hemicelluloses in the P...
 - 1.2 Phenolic Content
 - 1.3 Why Hydrolyze Hemicellu...
 - 1.4 Alkali/Acid and Enzymic...
 - 1.5 Interactions Between En...
 - 1.6 Breakdown of Hemicellul...
- 2 Materials 
 - 2.1 Enzymatic Hydrolysis
 - 2.2 Analysis of Phenolics
 - 2.3 Sugars Analysis
- 3 Methods
 - 3.1 Enzymatic Hydrolysis
 - 3.2 Analysis of Phenolics
 - 3.3 Sugars Analysis

Hydrolysis of Hemicelluloses Using Combinations of Xylanases and Feruloyl Esterases

By: Craig B. Faulds, Paul A. Kroon, Begoña Bartolomé², Gary Williamson²

Abstract

[Full Text](#) | [Download PDF \(122K\)](#) 

Hemicelluloses are heteropolysaccharides that occur in many plant cell walls. Usually hemicelluloses consist of a xylan backbone highly substituted with sugar side chains and with acetyl, feruloyl, coumaroyl, and other groups; the polymer is linked to protein, cellulose, and other cell wall components. The hemicellulose component of the cell wall helps prevent infection, provides strength, and protects against other external agents. Plant pathogens hydrolyze the plant cell wall, including the hemicellulose component, prior to invasion, and dead plant cell walls are degraded by Saprophytic fungi and other microbes to utilize the components as energy. This digestive process also occurs in ruminants and in the colon of humans, and is catalyzed by gut microflora.

Affiliation(s): (2) Biochemistry Department, Institute of Food Research, Norwich Research Park, Norwich, UK
(3) Institute of Food Research, Norwich Laboratory, Norwich Research Park, Norwich, UK

Book Title: [Carbohydrate Biotechnology Protocols](#)

Series: Methods in Biotechnology | **Volume:** 10 | **Pub. Date:** Jul-23-1999 | **Page Range:** 183-195 | **DOI:** 10.1007/978-1-59259-261-6_15

3.2 个性化服务— 管理提醒服务

管理提醒服务 (Manage Alerts) 介绍:

只需要点击Manage Alerts并选择感兴趣学科, 这样您将会定期收到相关邮件。

Alerts

Keep yourself on the cutting-edge! Receive email notifications about new content on Springer Protocols. Email updates include a hyperlinked table of contents, allowing you to browse and access new content right from your inbox. * required

E-Mail

First Name

Last Name

Subjects*

<input checked="" type="checkbox"/> Biochemistry	<input type="checkbox"/> Bioinformatics
<input type="checkbox"/> Biotechnology	<input type="checkbox"/> Cancer Research
<input checked="" type="checkbox"/> Cell Biology	<input checked="" type="checkbox"/> Genetics/Genomics
<input type="checkbox"/> Imaging/Radiology	<input type="checkbox"/> Immunology
<input type="checkbox"/> Infectious Diseases	<input type="checkbox"/> Microbiology
<input type="checkbox"/> Molecular Medicine	<input type="checkbox"/> Neuroscience
<input type="checkbox"/> Pharmacology/Toxicology	<input type="checkbox"/> Plant Sciences
<input type="checkbox"/> Protein Science	

I do not wish to receive alerts.

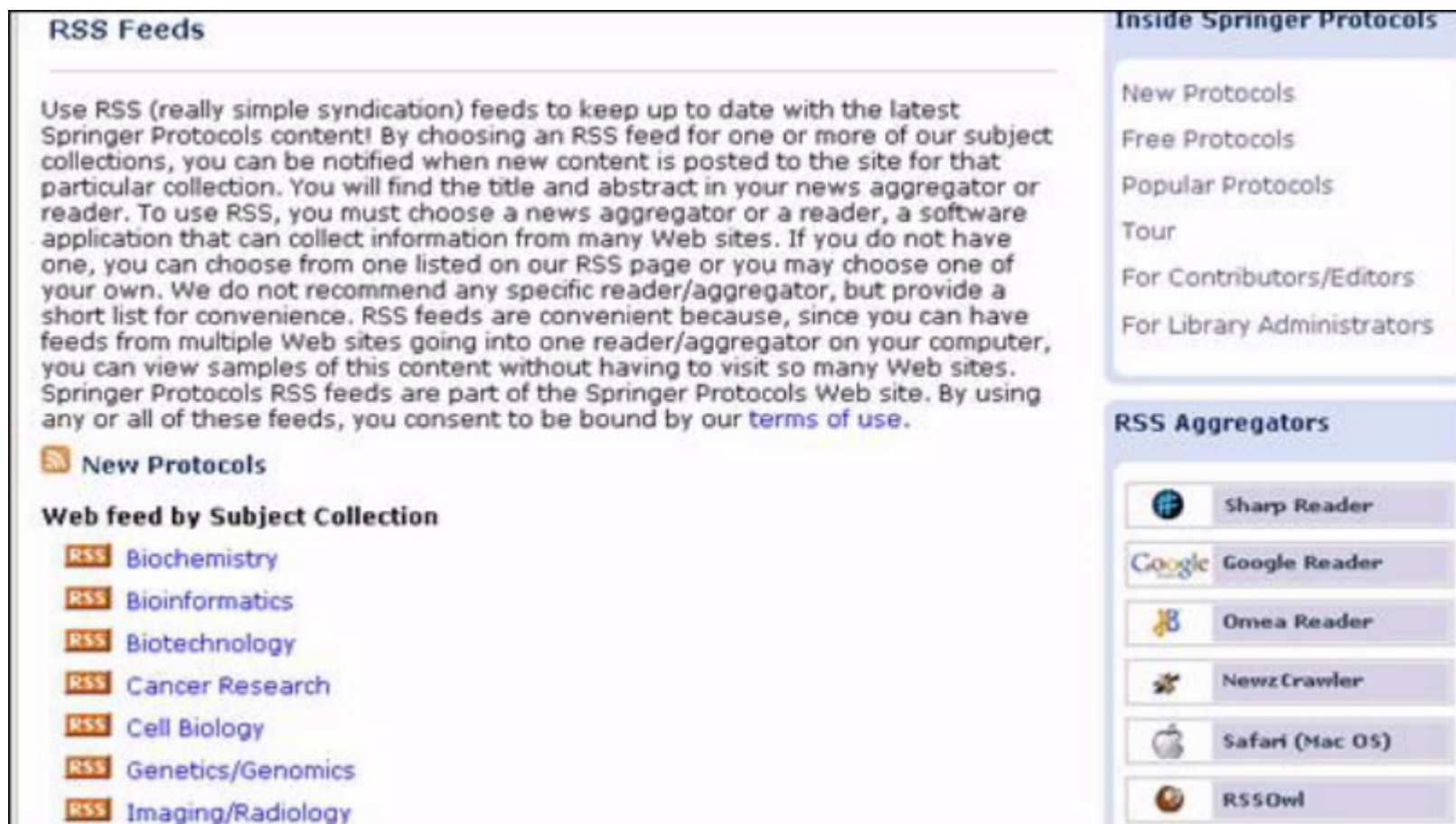
E-mail Format*

HTML Text-Only

We prefer to send our customers HTML formatted emails whenever possible. HTML formatted emails provide you with improved design and readability. For the purposes of data protection legislation, submitting this page will indicate you have opted-in, and provided direct consent to receive the e-alerts you have selected. To find out more about our commitment to confidentiality and data protection, please see our [privacy policy](#).


3.2 个性化服务— RSS介绍

RSS介绍：使用RSS可以使您持续得到最新的Springer Protocols！您通过RSS选择一个或多个主题，当所选主题的最新内容出现时您将被通知，在阅读器中找到题目和文摘。如果希望使用RSS，您必须选择一款阅读软件，这个软件可以将网站中的相关信息合成。关于这个软件，您可在我们的RSS清单中选择，也可使用已有的。










RSS Feeds

Use RSS (really simple syndication) feeds to keep up to date with the latest Springer Protocols content! By choosing an RSS feed for one or more of our subject collections, you can be notified when new content is posted to the site for that particular collection. You will find the title and abstract in your news aggregator or reader. To use RSS, you must choose a news aggregator or a reader, a software application that can collect information from many Web sites. If you do not have one, you can choose from one listed on our RSS page or you may choose one of your own. We do not recommend any specific reader/aggregator, but provide a short list for convenience. RSS feeds are convenient because, since you can have feeds from multiple Web sites going into one reader/aggregator on your computer, you can view samples of this content without having to visit so many Web sites. Springer Protocols RSS feeds are part of the Springer Protocols Web site. By using any or all of these feeds, you consent to be bound by our [terms of use](#).

 **New Protocols**







Web feed by Subject Collection

-  [Biochemistry](#)
-  [Bioinformatics](#)
-  [Biotechnology](#)
-  [Cancer Research](#)
-  [Cell Biology](#)
-  [Genetics/Genomics](#)
-  [Imaging/Radiology](#)

Inside Springer Protocols

- [New Protocols](#)
- [Free Protocols](#)
- [Popular Protocols](#)
- [Tour](#)
- [For Contributors/Editors](#)
- [For Library Administrators](#)

RSS Aggregators

-  [Sharp Reader](#)
-  [Google Reader](#)
-  [Omea Reader](#)
-  [NewzCrawler](#)
-  [Safari \(Mac OS\)](#)
-  [RSSOwl](#)

- Springer向用户提供Springer Protocols Marc 数据：
 - 符合Marc21标准，使用Springer元数据并提供856等众多通用字段，可以方便结合用户本地OPAC使用
 - Springer Protocols Marc包含所有学科分类
 - Springer Protocols Marc同时支持SpringerProtocols.com和SpringerLink.com平台中的实验室指南
 - 免费下载，易于使用

请访问 www.springer.com/marc , 获得最新Springer Protocols Marc 数据

- Life & Environmental Science
- Engineering
- Humanities, Social Sciences & Law
- Mathematics
- Medicine
- Physics & Astronomy
- Professional and Applied Computing

[English / international collections](#)

Springer bookseries

- LNCS, Lecture Notes in Computer Science
- LNM, Lecture Notes in Mathematics
- LNP, Lecture Notes in Physics

[Book Series](#)

German language collection (incl. GWV)

- Entire collection
- Medicine / Medizin
- Engineering / Technik & Informatik
- Management / Wirtschaftswissenschaften
- Social Sciences / Geistes-, Sozial- & Rechtswissenschaften (incl. Psychology / Psychologie)
- GWV

[German collections](#)



eBook Resources

[eBook Title Lists](#)

[eBook FAQs for Librarians](#)
(pdf, 52 Kb)



Questions on MARC?

For additional information
email:

marc@springer.com

or

contact your Springer
representative...

[In Europe, Asia, Africa](#)

[In the Americas](#)

Springer Protocols MARC records

Introducing the world's most comprehensive collection of peer-reviewed life sciences protocols:

- More than 18,000 protocols with an additional 2,000 added each year
- Based on tried and tested resources including Methods in Molecular Biology

[Springer Protocols - Complete Collection August 2008 \(zip, 84 Kb\)](#)

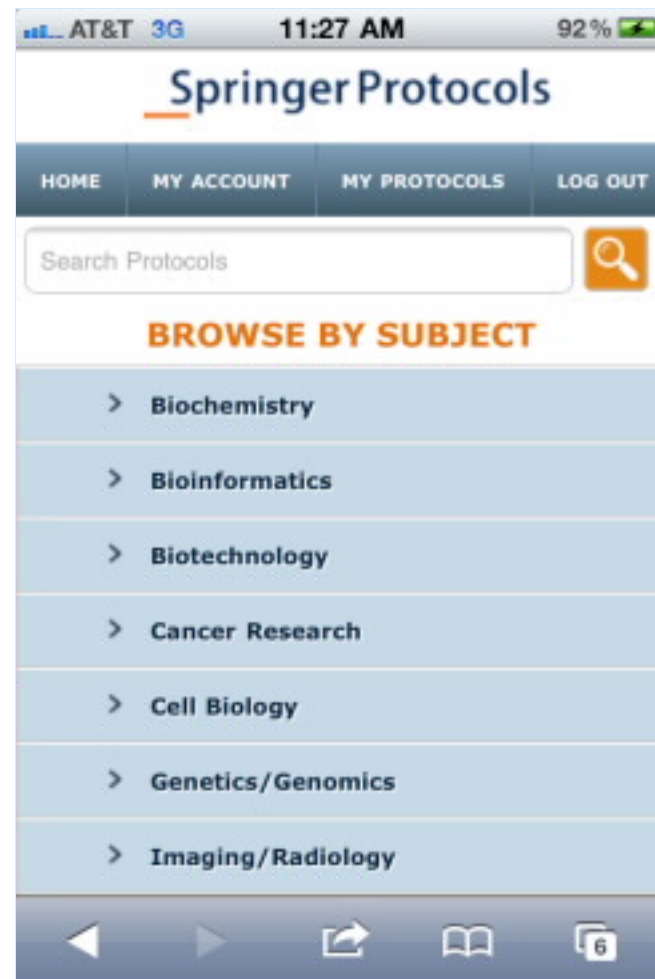
Marc文件包

Web 的应用程序

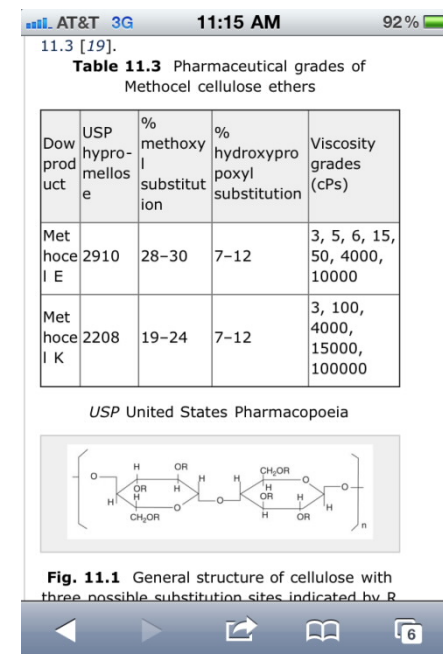
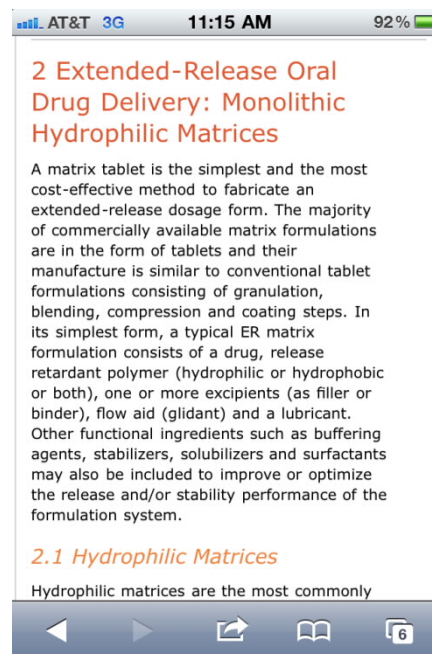
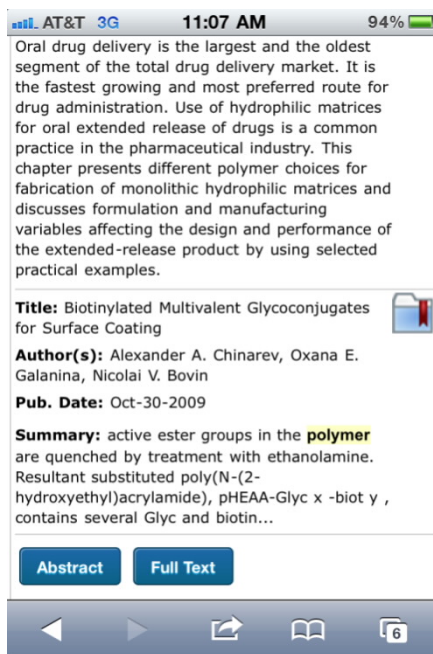
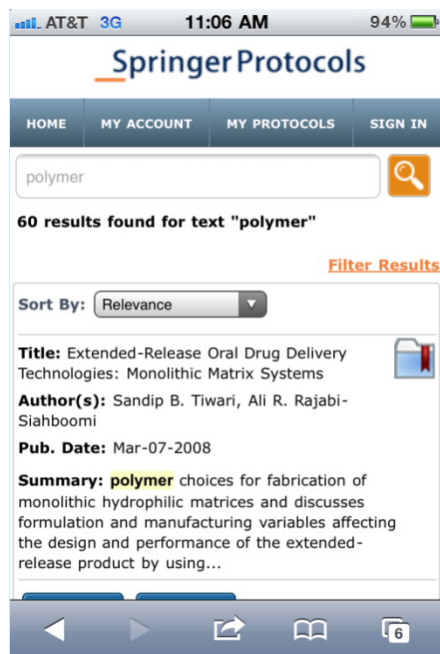
能在Apple, Android及Blackberry运行。

在您的移动设备上，简单地浏览到

springerprotocols.com, 移动版即自动显示。



动起智能手机，随时随地搜索你的实验指南或翻阅已保存的protocols！



Springer Materials



全球最大和最主要的
材料学物理及化学数据库
并拥有强大的搜索引擎

www.springermaterials.com

徐希，西北、华南及天津销售主管

1. Landolt-Börnstein

2. 数据库:

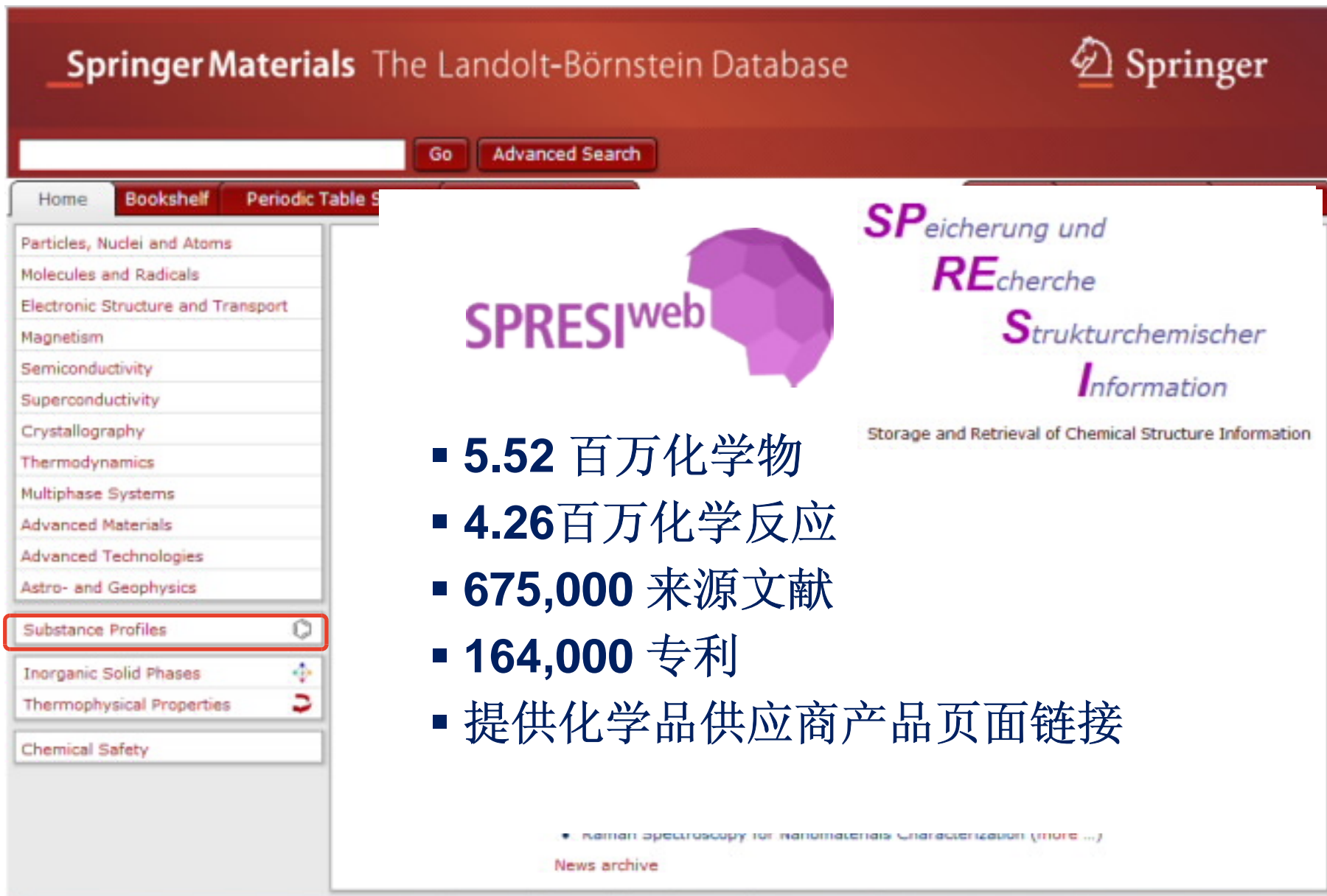
- Inorganic Solid Phases
无机固体相图
- Thermophysical Properties
热物理性质
- Adsorption
物理吸附等温线
- Polymer Thermodynamics
聚合物和小分子的热性能

3. 化工安全文献:

- REACH
- GHS
- RoHS WEEE



每季
更新!



Springer Materials The Landolt-Börnstein Database

Springer

Go Advanced Search

Home Bookshelf Periodic Table S

Particles, Nuclei and Atoms
Molecules and Radicals
Electronic Structure and Transport
Magnetism
Semiconductivity
Superconductivity
Crystallography
Thermodynamics
Multiphase Systems
Advanced Materials
Advanced Technologies
Astro- and Geophysics
Substance Profiles
Inorganic Solid Phases
Thermophysical Properties
Chemical Safety

SPRESIweb

SPeicherung und
REcherche
Strukturchemischer
Information

Storage and Retrieval of Chemical Structure Information

- 5.52 百万化学物
- 4.26 百万化学反应
- 675,000 来源文献
- 164,000 专利
- 提供化学品供应商产品页面链接

nanospectroscopy for nanomaterials characterization (more ...)
News archive

- Landolt Börnstein 新丛书系列

- 涵盖250,000多种化学物质与材料的物理和化学数据

- 粒子、核子和原子

- 分子和自由基

- 电子结构与传输

- 磁学

- 半导体

- 超导体

- 结晶学

- 热力学

- 多相系统

- 先进材料

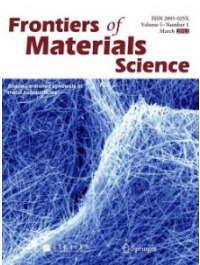
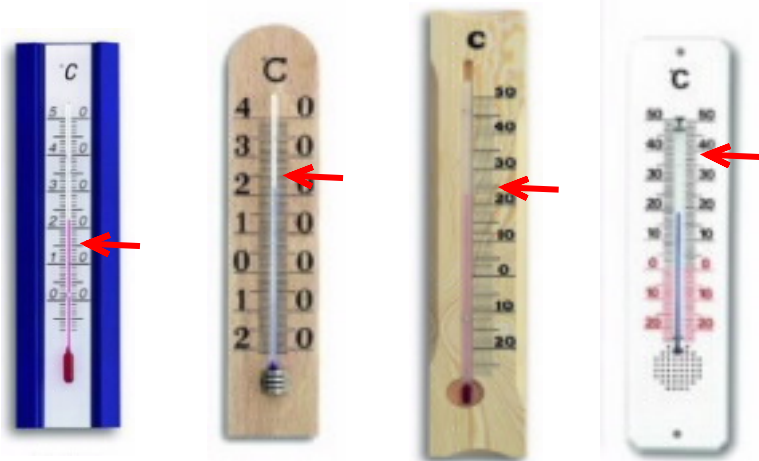
- 先进技术

- 天体和地球物理学

- 400多印刷本，超过120万的参考文献

- 来自全球各领域的数千多名专家负责对8,000多种经同行评审的期刊原文进行审阅，评估和筛选，然后将最有效的信息整齐排列和收录。

温度测量



数千多名各领域的专家（作者与编辑）



- 挑选最准确，最可靠的数据
- 描述最佳实验设置和最佳做法
- 提供背景资料



平台首页帮助栏(Help)具有演示和分布



- Particles, Nuclei and Atoms
- Molecules and Radicals
- Electronic Structure and Transport
- Magnetism
- Semiconductivity
- Superconductivity
- Crystallography
- Thermodynamics
- Multiphase Systems
- Advanced Materials
- Advanced Technologies
- Astro- and Geophysics
- Substance Profiles
- Inorganic Solid Phases
- Thermophysical Properties
- Adsorption
- Polymer Thermodynamics
- Chemical Safety

Search in

SpringerMaterials

Go

具备“快速键入”功能，可以实现术语联想功能

The World's Largest Resource for Physical & Chemical Data in Materials Science
250,000 Substances & Material Systems | 3,000 Properties | 1,200,000 Literature Citations

+++ what's new +++ what's new +++ what's new +++ what's new +++ what's new +++ what's new +++

Available March 31, 2014

- 2 Landolt-Börnstein Volumes ([more ...](#))
- Thermophysical Properties updated ([more ...](#))
- Transmission Electron Microscopy Characterization of Nanomaterials ([more ...](#))

[News archive](#)

[Go](#) [Advanced Search](#)[Home](#)[Bookshelf](#)[Periodic Table](#)[Help](#)[For Librarians](#)[Feedback](#)

Landolt-Börnstein Bookshelf

There's no dust on this electronic bookshelf. Browse the volumes of The Landolt-Börnstein New Book Series.



Group I	Elementary Particles, Nuclei and Atoms
Group II	Molecules and Radicals
Group III	Condensed Matter
Group IV	Physical Chemistry
Group V	Geophysics
Group VI	Astronomy and Astrophysics
Group VII	Biophysics
Group VIII	Advanced Materials and Technologies

Go Advanced Search[Home](#)[Bookshelf](#)[Periodic Table](#)[Help](#)[For Librarians](#)[Feedback](#)

Group I Elementary Particles, Nuclei and Atoms

Group II Molecules and Radicals

Group III Condensed Matter

Group IV Physical Chemistry

Group V Geophysics

Group VI Astronomy and Astrophysics

Group VII Biophysics

Group VIII Advanced Materials and Technologies

> Group IV: Physical Chemistry

Group IV: Physical Chemistry

- IV/1a** Mechanical Properties · Densities of Liquid Systems · Nonaqueous Systems and Ternary Aqueous Systems
- IV/1b** Mechanical Properties · Densities of Liquid Systems · Densities of Binary Aqueous Systems and Heat Capacities of Liquid Systems
- IV/2** Thermodynamic Properties · Heats of Mixing and Solution
- IV/3** Thermodynamic Properties · Thermodynamic Equilibria of Boiling Mixtures
- IV/4** Thermodynamic Properties · High-Pressure Properties of Matter
- IV/5a** Thermodynamic Properties · Phase Equilibria, Crystallographic and Thermodynamic Data of Binary Alloys · Ac-Au - Au-Zr
- IV/5b** Thermodynamic Properties · Phase Equilibria, Crystallographic and Thermodynamic Data of Binary Alloys · B-Ba - C-Zr
- IV/5c** Thermodynamic Properties · Phase Equilibria, Crystallographic and Thermodynamic Data of Binary Alloys · Ca-Cd - Co-Zr
- IV/5d** Thermodynamic Properties · Phase Equilibria, Crystallographic and Thermodynamic Data of Binary Alloys · Cr-Cs - Cu-Zr
- IV/5e** Thermodynamic Properties · Phase Equilibria, Crystallographic and Thermodynamic Data of Binary Alloys · Dy-Er - Fr-Mo
- IV/5f** Thermodynamic Properties · Phase Equilibria, Crystallographic and Thermodynamic Data of Binary Alloys · Ga-Gd - Hf-Zr
- IV/5g** Thermodynamic Properties · Phase Equilibria, Crystallographic and Thermodynamic Data of Binary Alloys · Hg-Ho - La-Zr
- IV/5h** Thermodynamic Properties · Phase Equilibria, Crystallographic and Thermodynamic Data of Binary Alloys · Li-Mg - Nd-Zr
- IV/5i** Thermodynamic Properties · Phase Equilibria, Crystallographic and Thermodynamic Data of Binary Alloys · Ni-Np - Pt-Zr

[Home](#)[Bookshelf](#)[Periodic Table](#)[Help](#)[For Librarians](#)[Feedback](#)

No elements selected

Search for Element Systems

	1 IA	2 IIA	3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8 VIII	9 VIII	10 VIII	11 IB	12 IIB	13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIIIA	
1	1 H	1 D	1 T															2 He	K
2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne	L
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	M
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	N
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	O
6	55 Cs	56 Ba	*	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	P
7	87 Fr	88 Ra	**	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113	114	115	116	117	118	Q
				57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	
				** Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr	

Substances, Properties, ...

Substance Profiles

Bibliographic References

Help

Close

Your Query 高级检索功能支持布尔运算符和通配符搜索

Go

Clear

Search for ...

分子式

CAS登记号

Substances / Molecular Formulas / Element Systems / CAS Registry Numbers

通用名

Properties

Search in ...

- Particles, Nuclei and Atoms
- Molecules and Radicals
- Electronic Structure and Transport
- Magnetism
- Semiconductivity
- Superconductivity
- Crystallography
- Thermodynamics
- Multiphase Systems
- Advanced Materials
- Advanced Technologies
- Astro- and Geophysics

Substance Profiles

- Inorganic Solid Phases
- Thermophysical Properties
- Adsorption
- Polymer Thermodynamics

Chemical Safety

Search for ...

... all of these words

... one or more of these words

... exactly this phrase

... but none of these words

Help

For Librarians

Feedback

Go

in Materials Science:
000 Literature Citations

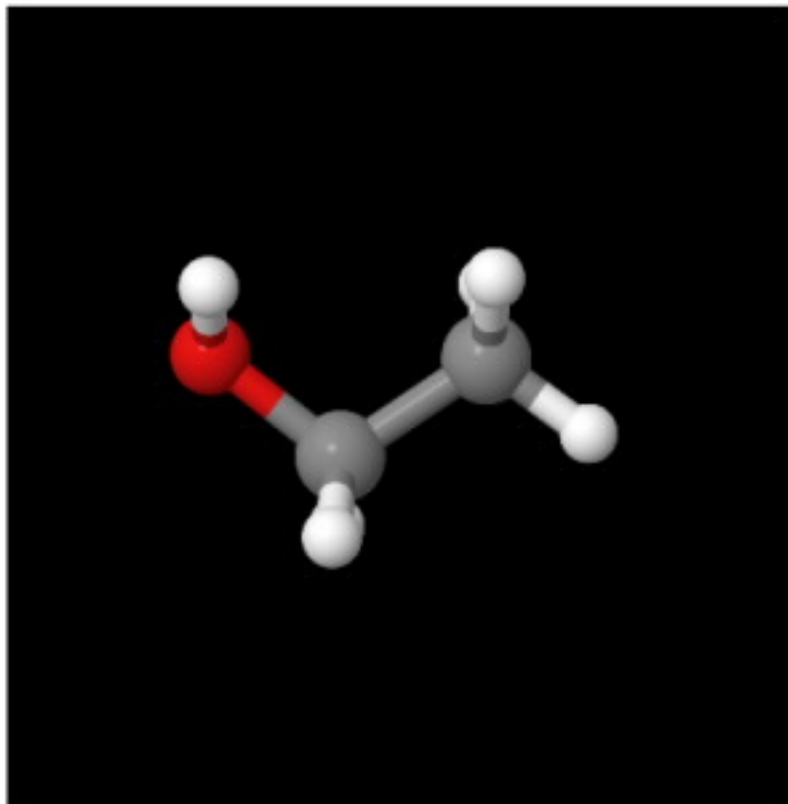
what's new +++ what's new +++

materials (more ...)

ts

Powered by iluclT Software

Ethanol



3D Substance Structure



Structural Formula

General information

Name	Ethanol
Molecular Formula	C ₂ H ₆ O
Element system	C-H-O
CAS-RN	64-17-5, 8000-16-6, 8024-45-1, 121182-78-3
InChI	InChI=1S/C2H6O/c1-2-3/h3H,2H2,1H3
InChI Key	LFQSCWFLJHTTHZ-UHFFFAOYSA-N

Properties

SpringerMaterials Documents

Thermodynamics > Thermodynamical Properties > Binary Fluid Systems > Heats of Mixing and Solution > Siloxanes and Primary linear-alkyl monoalcohols

C₂H₆O and C₆H₁₈OSi₂

Thermodynamics > Thermodynamical Properties > Binary Fluid Systems > Heats of Mixing and Solution > Fluoroethers and Primary linear-alkyl monoalcohols

C₂H₆O and C₄H₄F₆O

Thermodynamics > Thermodynamical Properties > Binary Fluid Systems > Heats of Mixing and Solution > Fluoroethers and Primary linear-alkyl monoalcohols

C₂H₆O and C₄H₃F₇O

Thermodynamics > Thermodynamical Properties > Binary Fluid Systems > Heats of Mixing and Solution > Cyclic carbonates and Alcohols

C₂H₆O and C₄H₆O₃

Show All



Substances, Properties, ...

3D Molecules

Bibliographic References

Help

Close

Your Query

Go

Clear

Search for ...

Substances / Molecular Formulas / Element Systems / CAS Registry Numbers

Properties

Search in ...

- Particles, Nuclei and Atoms
- Molecules and Radicals
- Electronic Structure and Transport
- Magnetism
- Semiconductivity
- Superconductivity
- Crystallography
- Thermodynamics
- Multiphase Systems
- Advanced Materials
- Advanced Technologies
- Astro- and Geophysics

Search for ...

... all of these words

... one or more of these words

... exactly this phrase

... but none of these words

Help

For Librarians

Feedback

Expanded View

Clear

Refine

Linear dielectric susceptibilities > Data on crystals

CAS Registry Number: 25617-97-4 ... Metadata - Molecular weight: λ [μm] 1.80 1.90 2.0 ... and doping) [76Ka2]: Change in

Compounds > Electronic Transport and Optical

refractive index ... Metadata - CAS Registry Number: Gallium nitride (GaN) property: optical properties, ... of the absorption

Molecular Formula: GaN ... Fulltext: GaN, physical properties, Journal of Applied State Commun. (1992) 81, 23-26. ... localization of as-grown

Compounds > Lattice Properties > Gallium nitride

CAS Registry Number: 25617-97-4 ... Metadata - Molecular weight: ϵ [∞] 5.24(23) extrapolation of refractive index 71E

Substances, Properties, ...

3D Molecules

Bibliographic References

Help

Close

Search for ...

Bibliographic References

ethanol

Go

Barker, J.A.; Brown, I.; Smith, F. Thermodynamic properties of alcohol solutions. The system **ethanol** + carbon tetrachloride. *Discuss. Faraday Soc.* 1953, 15, 142-150.

Belaribi-Boukais, G.; Ait-Kaci, A.; Delepine, H.; Jose, J. Total vapor pressures between 263.15 K and 353.15 K and excess enthalpies at 303.15 K of binary mixtures of hex-2-yne + methanol, + **ethanol**, or + butan-1-ol. *ELDATA Int. Electron. J. Phys.-Chem. Data* 1997, 3, 109-118.

Belaribi-Boukais, G.; Ait-Kaci, A.; Mokbel, I.; Jose, J. Total vapor pressures between 253 K and 363 K of binary mixtures of hex-1-yne + methanol, + **ethanol**, or + butan-1-ol and excess enthalpies at 298.15 K of binary mixtures of hex-1-yne + methanol or + butan-1-ol. *ELDATA Int. Electron. J. Phys.-Chem. Data* 1997, 3, 173-182.

Belaribi-Boukais, G.; Ait-Kaci, A.; Mokbel, I.; Jose, J. Total vapor pressures between 263 K and 353 K and excess enthalpies at 298.15 K of binary mixtures of hex-3-yne + methanol, + **ethanol**, or + butan-1-ol. *ELDATA Int. Electron. J. Phys.-Chem. Data* 1997, 3, 205-214.

Berg, Ch.: F.O. Licht's international molasses and alcohol report and world **ethanol** markets, analysis and outlook, UK, October 2001.

Brown, I.; Fock, W.; Smith, F. Thermodynamic properties of alcohol solutions. II. **Ethanol** and isopropanol systems. *Australian Journal of Chemistry* 1956, 9, 364-372.

Brown, I.; Smith, F. Liquid-vapor equilibria. IV. The system **ethanol** - benzene at 45 degreeC. *Australian Journal of Chemistry* 1954, 7, 264-268.

Conti, G.; Gianni, P.; Matteoli, E. Excess enthalpies and excess heat capacities of the ternary system **ethanol** + tetrahydrofuran + cyclohexane at 298.15 K. *Thermochim. Acta* 1994, 247, 293-313.

Cordray, D.R.; Izatt, R.M.; Christensen, J.J.; Oscarson, J.L. The excess enthalpies of (carbon dioxide + **ethanol**) at 308.15, 325.15, 373.15, 413.15, and 473.15 K from 5.00 to 14.91 MPa. *J. Chem. Thermodyn.* 1988, 20, 655-663.

Easteal, A.I., Woolf, L.A.: Measurements of (p, V, x) for (**ethanol** + trichloromethane) at 298.15 K. *J. Chem. Thermodyn.* 16 (1984) 391-398.

French, H.T.; Richards, A.; Stokes, R.H. Thermodynamics of the partially miscible system **ethanol** + hexadecane. *J. Chem. Thermodyn.* 1979, 11, 671-685.

Help

For Librarians

Feedback

Expanded View

Clear

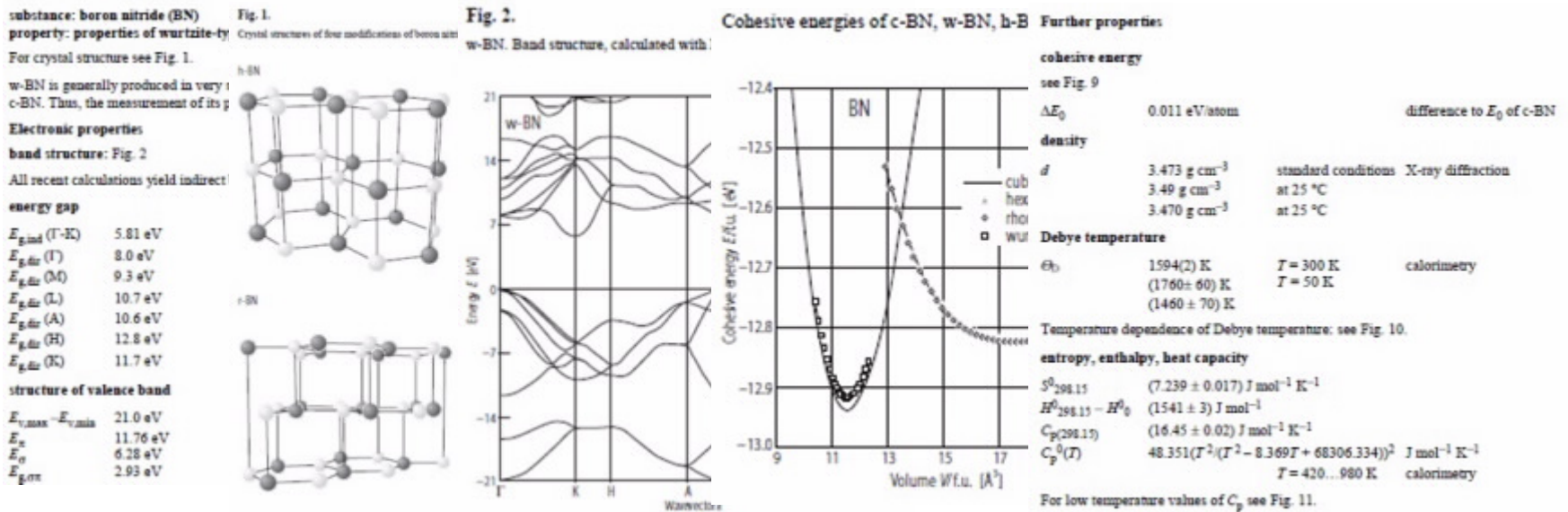
Refine

Organic semiconductors

Vieweg, 1981. **81K** Kao, K. C., Hwang,

- 内容:

- 来源: 经同行评审的期刊的数据与信息
- 数字和图表是最准确及备受材料工业肯定
- 内容定期更新, 以跟上科学与技术发展的进度
- 互动式3D分子结构库提供直接可视化和测量
- 集成引文工具方便导出PDF, CSV和RTS文件



飞机设计师需要更高强度
 新型合金制作飞机小翼：
 例如, Al-Fe-Ti

SpringerMaterials

典型案例 情景再现

The screenshot shows the SpringerMaterials interface. At the top, it says "Springer Materials The Landolt-Börnstein Database". Below that is a search bar and navigation tabs: Home, Bookshelf, Periodic Table, Help, For Librarians, Feedback. The main area is titled "Search for Element Systems". It features a periodic table where elements Al, Fe, and Ti are highlighted in blue. A text box above the table says "Your Selection Al-Fe-Ti". To the left of the periodic table, a list of chemical systems is displayed, with "Al-Fe-Ti" at the top and other systems like "Al-Fe-Ni-Ti", "Al-Fe-O-Ti", etc., listed below. A red box highlights the top of this list, and a red arrow points from the text box to the list.

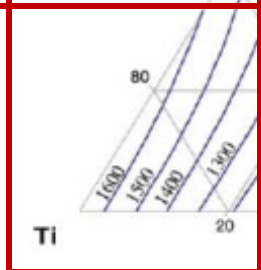
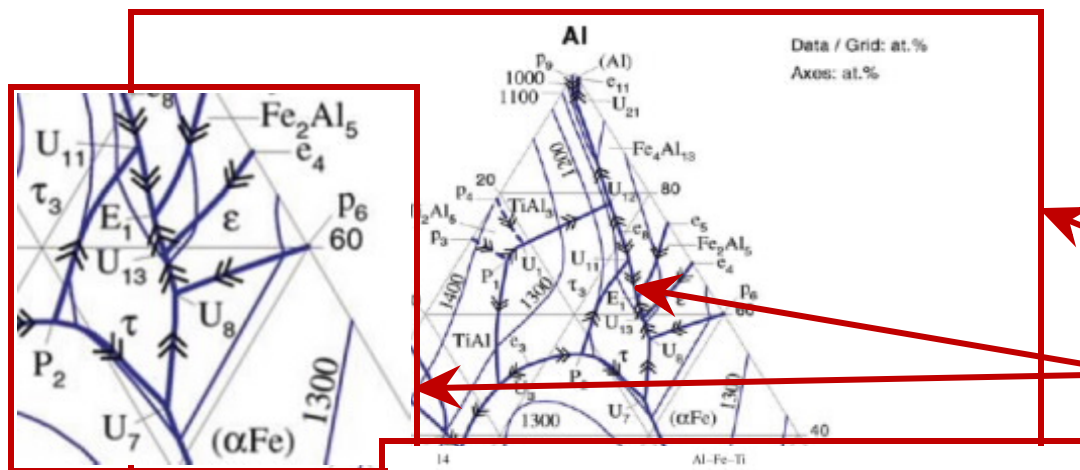
1. 从化学元素周期表中选择相应元素
2. 所有可生成化合物将显示在左侧

飞机设计师需要更高强度
新型合金制作飞机小翼：
例如，Al-Fe-Ti

SpringerMaterials

典型案例 情景再现

1. 打开合金相位图数据页面
2. 选择期望的相位图
3. 获得期望的合金材料特性数据

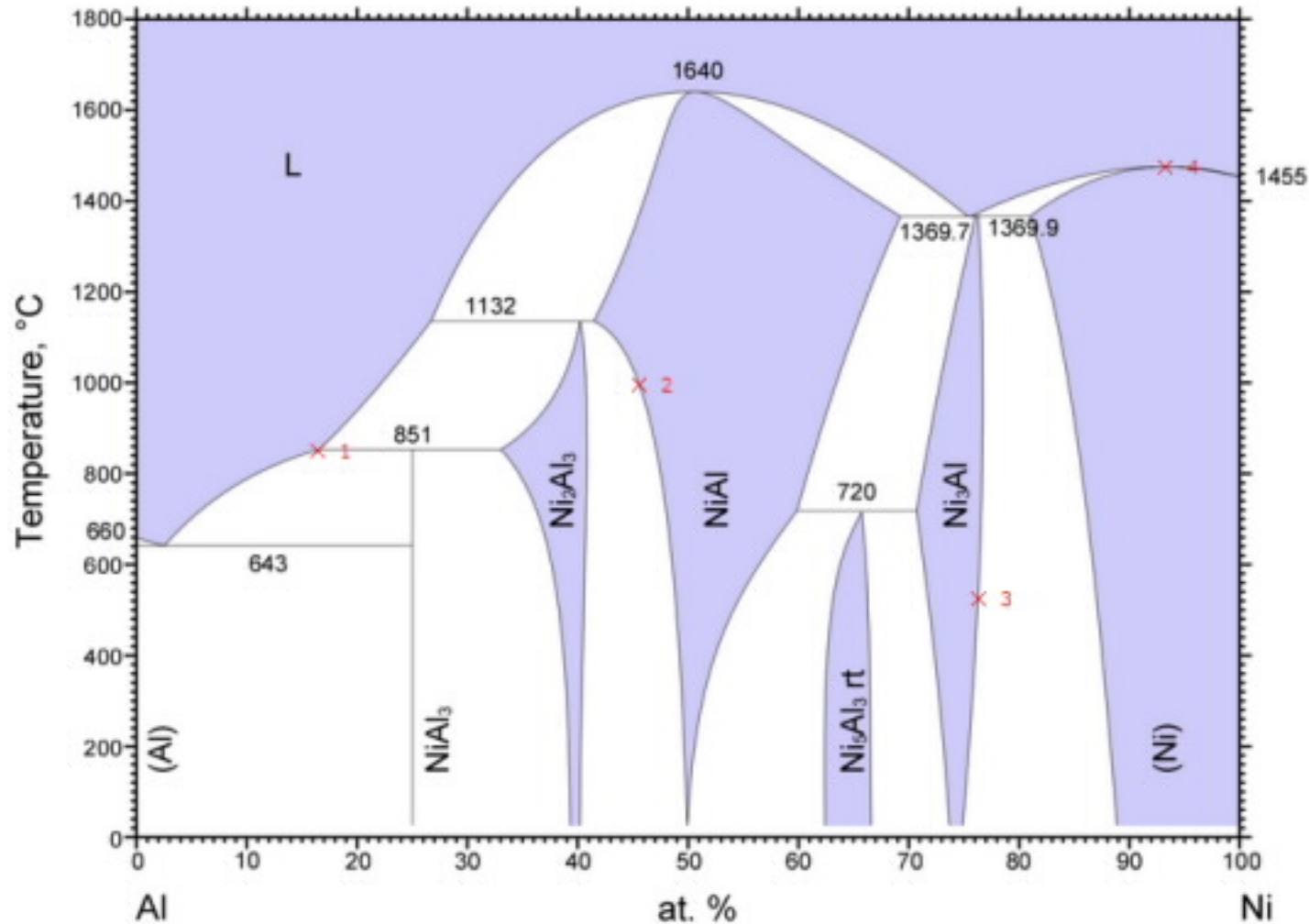


Phase/ Temperature Range [°C]	Pearson Symbol/ Space Group/ Prototype	Lattice Parameters [pm]	Comments/References
		$a = 496.61$ $c = 806.28$	[2006Yan], $Ti_{13.1}Fe_{21.5}Al_{13.4}$ annealed at 1000°C
		$a = 503.66$ $c = 819.71$	[2006Yan], as-cast $Ti_{12}Fe_{13}Al_{10}$
TiFe ≤ 1317	$cP2$ $Pn\bar{3}m$ CsCl	$a = 297.6$	solid solubility ranges from 49.8 to 51.8 at.% Ti [V-C]
* τ_1 , TiFe ₂ Al	$cF16$ $Pn\bar{3}m$ Cu_2AlMn	$a = 587.9$	[1983Bus], annealed at 900°C for 14 days
* τ_2	cF^* $F43m$	$a = 1211.0$ $a = 1209.59$	[1995Pal], at $Ti_{30.4}Fe_{24.5}Al_{14.6}$ [2006Gry], $Ti_{10}Fe_{20}Al_{15}$ annealed at 900°C; both X-ray and neutron diffraction data
* τ_2'	$cF16$ $Pn\bar{3}m$ Th_6Mn_{23}	$a = 1190.0$ $a = 1182.0$ $a = 1203.8$ $a = 1207.6$ $a = 1209.9$ $a = 1211.0$ $a = 1189.0$	[1967Mac, 2008Mat] [1981Sei] [1995Pal], at $Ti_{10.8}Fe_{21.1}Al_{13.8}$ [1999Gao], at $Ti_{10.8}Fe_{21.1}Al_{13.8}$ [1999Gao], at $Ti_{12.2}Fe_{23.1}Al_{14.7}$ [1999Lev] [2003Gry], at $Ti_{13.1}Fe_{23.7}Al_{16}$
	filled Th_6Mn_{23}	$a = 1209.2$	[2003Gry], at $Ti_{12}Fe_{23.9}Al_{14.7}$
	filled Th_6Mn_{23}	$a = 1199.44$	[2006Gry], $Ti_{12}Fe_{23}Al_{14}$ annealed at 900°C; neutron diffraction data

Redrawn Phase Diagram

Concentration Range full composition; 0-100 at.% Ni

Enlargement 59/59



at.% Al -
at.% Ni -
°C -

Point 1
at.% Al 83.6
at.% Ni 16.4
°C 850.8

Point 2
at.% Al 54.4
at.% Ni 45.6
°C 996.5

Point 3
at.% Al 23.6
at.% Ni 76.4
°C 523.9

Point 4
at.% Al 6.7
at.% Ni 93.3
°C 1477

Clear All

Clear Last

Ethanol / Water

Vapor-Liquid Equilibrium Data Set 29810

Components

No.	Formula	Molar Mass	CAS Registry Number	Name
1	C ₂ H ₅ O	46.069	64-17-5	Ethanol
2	H ₂ O	18.015	7732-18-5	Water

Constant Value

Pressure	100.00	kPa
----------	--------	-----

Data Table

[Download Data Table as CSV File](#)

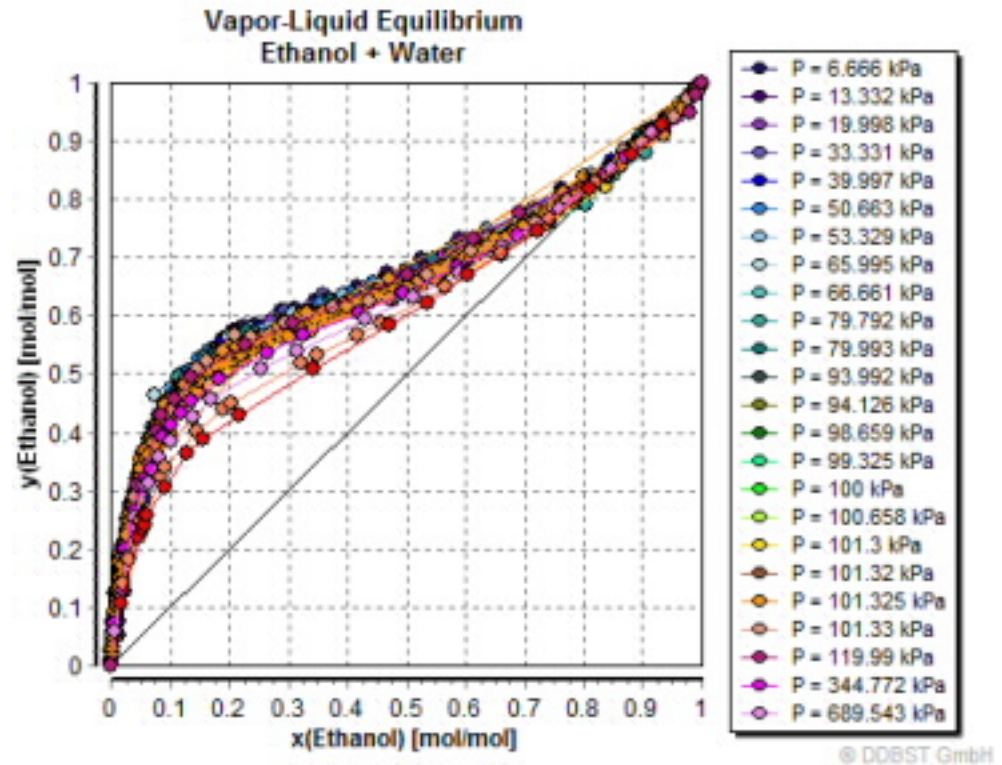
T [K]	x ₁ [mol/mol]	y ₁ [mol/mol]
351.07	0.79850	0.81600
350.99	0.84910	0.85520
350.99	0.90060	0.89830
350.96	0.92040	0.91750
351.04	0.94010	0.93680
351.07	0.95980	0.95630
351.08	0.98010	0.97800
351.11	0.99051	0.98940
351.07	0.99837	0.99815

(T - temperature, x - liquid mole fraction, y - vapor mole fraction)

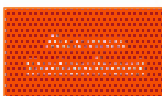
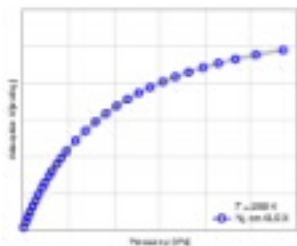
[Download Data Table as CSV File](#)

Reference

Source
Zhang L., Ge Y., Ji D., Ji J.: A Case Study for the System Water + Ethanol + 1-Hexyl-3-methylimidazolium Chloride. J.Chem.Eng.Data 54 (2009) 2322-2329



Adsorption Isotherm for Nitrogen on KLSX (Zeolite) Temperature $T = 288$ K



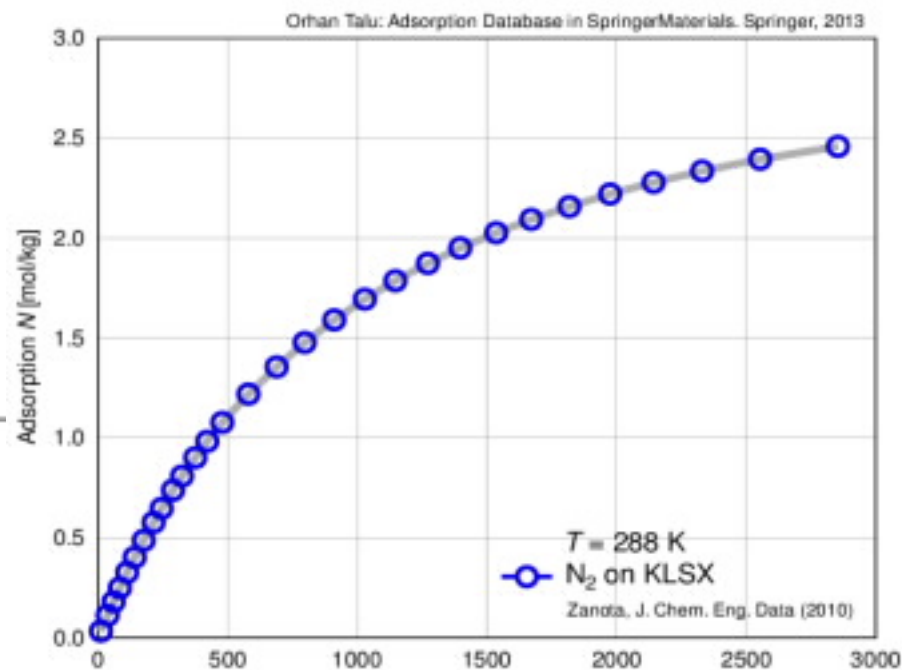
Access to the full data set [ads000526.html](#) requires subscription.

Adsorbate: Nitrogen

Sum Formula	N ₂
Molecular Weight	28.0134
CAS Number	7727-37-9
Normal Boiling Point T_{bp}	77.34 K
Critical Temperature T_c	126.19 K
Critical Pressure p_c	3398 kPa
Critical Volume V_c	89.45 cm ³ /mol

Adsorbent: KLSX

Solid Class	Zeolite
Solid Subclass	FAU
Form	powder
Supplier	Tricat Zeolites GmbH K
Description	zeolite Area: 501 m ² /g Volume: 0.201 cm ³ /g Si/Al = 1.0



Data Downloads

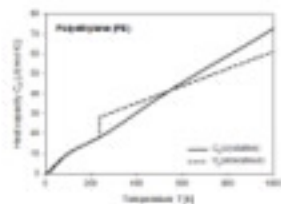
Data Points as CSV file	ads000526-data.csv
Data Points as TXT file	ads000526-data.txt
Figure as EPS file	ads000526-plot.eps
Figure as PDF file	ads000526-plot.pdf
Figure as PNG file	ads000526-plot-large.png

Reference

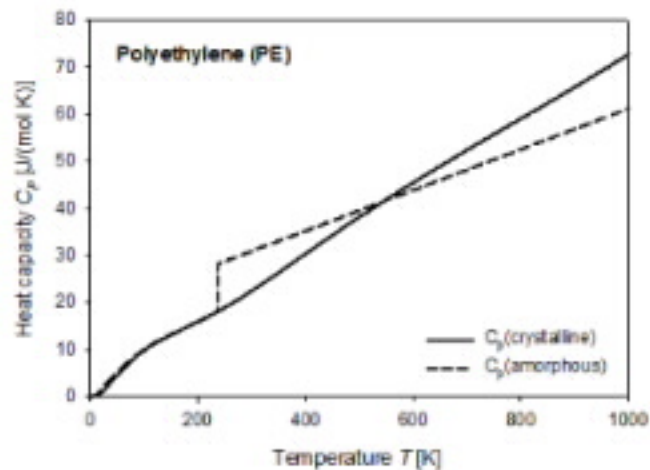
Zanota, M.L., Heymans, N., Gilles, P., Su, B.L., Frans, M., De Weireld, G.: J. Chem. Eng. Data **55** (2010) 448.

Thermal properties

- Monomer
- Polymer
- Polymer
- CAS Registry Number
- Glass transition temperature
- Melting temperature
- Temperature range of experimental heat capacity



Polyethylene (PE): Experimental and Calculated Heat Capacity – Amorphous State



T [K]	Solid Experimental [J·K ⁻¹ ·mol ⁻¹]	Solid Index	Solid Calculated [J·K ⁻¹ ·mol ⁻¹]	Solid Deviation [%]	Melt Experimental [J·K ⁻¹ ·mol ⁻¹]	Melt Index	Melt Calculated [J·K ⁻¹ ·mol ⁻¹]	Melt Deviation [%]
0.100	0.0000	1	0.0000	-	-	-	-	-
0.200	0.0000	1	0.0000	-	-	-	-	-
0.300	0.0000	1	0.0000	-	-	-	-	-
0.400	0.0000	1	0.0000	-	-	-	-	-
0.500	0.0000	1	0.0000	-	-	-	-	-
0.600	0.0000	1	0.0000	-	-	-	-	-
0.700	0.0000	1	0.0000	-	-	-	-	-
0.800	0.0000	1	0.0000	-5.3240	-	-	-	-
0.900	0.0000	1	0.0000	-2.2550	-	-	-	-
1.000	0.0000	1	0.0000	-0.2090	-	-	-	-
1.200	0.0010	1	0.0010	1.2400	-	-	-	-
1.400	0.0010	1	0.0010	1.0130	-	-	-	-
1.600	0.0020	1	0.0020	-0.1020	-	-	-	-
1.800	0.0020	1	0.0020	-1.4760	-	-	-	-
2.000	0.0030	1	0.0030	-3.3420	-	-	-	-

[Home](#)[Bookshelf](#)[Periodic Table Search](#)[Structure Search](#)[Help](#)[For Librarians](#)[Feedback](#)[Particles, Nuclei and Atoms](#)[Molecules and Radicals](#)[Electronic Structure and Transport](#)[Magnetism](#)[Semiconductivity](#)[Superconductivity](#)[Crystallography](#)[Thermodynamics](#)[Multiphase Systems](#)[Advanced Materials](#)[Advanced Technologies](#)[Astro- and Geophysics](#)[Substance Profiles](#)[Inorganic Solid Phases](#)[Thermophysical Properties](#)[Adsorption](#)[Polymer Thermodynamics](#)[Chemical Safety](#)

Search in

SpringerMaterials

[User Guide](#)[Search Help](#)[Sample Searches](#)[Survey](#)[Structure Search](#)[Tutorial](#)[Demo Video](#)

The World's Largest Resource for Physical & Chemical Data in Materials Science:
250,000 Substances & Material Systems | 3,000 Properties | 1,200,000 Literature Citations

+++ what's new +++ what's new +++ what's new +++ what's new +++ what's new +++ what's new +++

Available March 31, 2014

- 2 Landolt-Börnstein Volumes ([more ...](#))
- Thermophysical Properties updated ([more ...](#))
- Transmission Electron Microscopy Characterization of Nanomaterials ([more ...](#))

[News archive](#)

感谢您对Springer的支持

谢谢！

上海施普林格信息咨询服务有限公司北京分公司
中国北京海淀区北四环西路58号
理想国际大厦408-409室，100080

电话：0086 10 82670211

传真：0086 10 82670212

www.springer.com

link.springer.com