



ScienceDirect

# ScienceDirect最新界面介绍及使用 与Elsevier期刊投稿常识

Elsevier培训师：王飞  
herokingfly@gmail.com  
2014-03-20



## 内容

- **Elsevier**出版社及**ScienceDirect**简介
- **ScienceDirect**最新界面介绍
- **ScienceDirect**的使用
- **Elsevier**期刊投稿常识
- 资源与信息

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# ScienceDirect简介

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- 得到**130**多个国家**1100**万科研人员的认可
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接近3000  
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至1823年

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种电子图书

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Articles in Press



# ScienceDirect期刊及书籍覆盖的领域及数量

- 物理科学与工程(1087,8647)

化学工程学(139,755)

化学(176,1674)

计算机科学(195,1360)

地球和行星学(161,493)

能源(98,425)

工程(324,3027)

材料科学(217,1079)

数学(126,304)

物理学和天文学(175,1399)

- 生命科学(1019,4827)

农业和生物学(288,1958)

生物化学/遗传学/分子生物学

(443,1929)

环境科学(189,645)

免疫学和微生物学(182,230)

神经科学(189,488)

- 健康科学(1588,2868)

医科和牙科(1395,2127)

护理与卫生保健(204,516)

药理学/毒理学/制药科学(164,439)

兽医学和兽医用药(70,246)

- 社会科学及人文(636,3350)

艺术与人文(58,612)

商业/管理/会计学(142,969)

决策科学(77,39)

经济学/计量经济学/金融(130,254)

心理学(174,673)

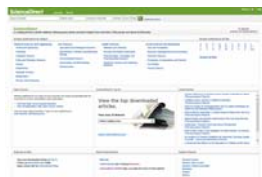
社会科学(318,1022)

数据截至2013.12.19，括号中前者为期刊数目(共3328种)，后者为书籍(单行本、丛书、手册，参考书)数量(共17885本)。

## 2. ScienceDirect最新界面介绍

# 新界面的几项关键升级（2014.2.1）

# ScienceDirect

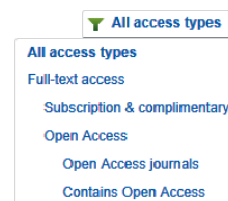


简单直观的界面提供轻松高效的  
用户体验

1

2

优化开放获取内容的筛选

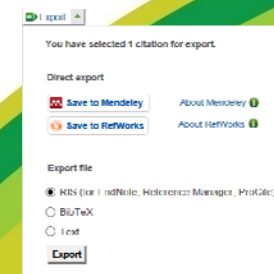


通过搜索引擎和其他探索服务寻找  
**ScienceDirect**的相关内容更容易

3

4

将引文或**PDF**格式全文无缝导入**Mendeley**





# 主页界面的变化——旧界面

# ScienceDirect

The screenshot displays the ScienceDirect website interface. At the top, there is a navigation bar with links for Home, Publications, Search, My settings, My alerts, and Help. A search bar is located in the top right corner, with a 'Search' button. Below the navigation bar, there is a section for 'Articles' and 'Images' with various search filters. A prominent red banner in the center reads 'Instantly add articles from ScienceDirect to Mendeley' with the Mendeley logo. The main content area is divided into several sections: 'ScienceDirect 12,082,291 Articles' with a 'Browse by title' section; 'ScienceDirect's Top 25' section with a 'View the top downloaded articles' link and a 'Your area of interest' dropdown menu; 'Open Access' section with a list of articles; 'Customize ScienceDirect' section with a list of features; 'Latest Articles' section with a list of recent publications; 'Keep Up to Date' section with links to top 25 articles, Twitter, and the ScienceDirect Blog; 'About ScienceDirect' section with links to help, training resources, and InfoSite; and 'Explore Elsevier' section with links to ElsevierConnect, Open Access, Content Innovation, Mendeley, Scopus, and Reaxys. The interface is clean and professional, typical of a scientific database website.

# 新界面——简洁、直观

# ScienceDirect

The screenshot displays the ScienceDirect website interface. At the top, there is a navigation bar with the ScienceDirect logo, links for Journals and Books, and options for Sign in and Help. A search bar is prominently featured with the text "Search all fields" and a search icon. Below the search bar, there are several columns of subject categories for browsing publications, including Physical Sciences and Engineering, Life Sciences, Health Sciences, and Social Sciences and Humanities. A central section titled "View the top downloaded articles" features a dropdown menu for "Your area of interest" and a link to "top25.sciencedirect.com". To the right, there is a list of "Latest articles" with titles such as "Nicotinamide pelletization by fluidized hot melt granulation: L18...". The bottom section contains three columns: "Keep Up to Date" with links to top 25 articles and social media, "About ScienceDirect" with links for help and training resources, and "Explore Elsevier" with links to ElsevierConnect, Open Access, and other services.

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Pharmacology, Toxicology and Pharmaceutical Science  
Veterinary Science and Veterinary Medicine

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• Nicotinamide pelletization by fluidized hot melt granulation: L18... *international Journal of Pharmaceutics*  
• Polymorphic L1 retrotransposons are frequently in strong linkag... *Gene*  
• Electromyographic and Strength Analyses of Activation Patterns... *Journal of Acupuncture and Meridian Studies*  
• Immunogenicity and safety of a trivalent inactivated 2010–2011 i... *Vaccine*  
• without exogenous adjuvant *Vaccine*  
• Induced N-limitation of bacterial growth in soil: Effect of carbon l... *Soil Biology and Biochemistry*  
• OATP and MRP2-mediated hepatic uptake and biliary excretion... *Pharmacological Reports*  
• Handheld and automated ultrasonic spray deposition of conducti... *Organic Electronics*  
• Economic Outcomes in the Study of Myocardial Perfusion and C...

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  - Chemistry
  - Computer Science
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  - Energy
  - Engineering
  - Materials Science
  - Mathematics
  - Physics and Astronomy
- Life Sciences
  - Agricultural and Biological Sciences
  - Biochemistry, Genetics and Molecular Biology
  - Environmental Science
  - Immunology and Microbiology
  - Neuroscience
- Health Sciences
  - Medicine and Dentistry
  - Nursing and Health Professions
  - Pharmacology, Toxicology and Pharmaceutical Science
  - Veterinary Science and Veterinary Medicine
- Social Sciences and Humanities
  - Arts and Humanities
  - Business, Management and Accounting
  - Decision Sciences
  - Economics, Econometrics and Finance
  - Psychology
  - Social Sciences

**Browse all**

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All (100) |  |  |

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<input type="checkbox"/> Electrochemistry for Technologists	25 Nov
<input type="checkbox"/> Electrochemistry for Materials Science	25 Nov
<input type="checkbox"/> Electrochemistry at Metal and Semiconductor Electrodes	25 Nov
<input type="checkbox"/> Electrochemistry	25 Nov
<input type="button" value="Search (16 results) electrochemistry"/>	25 Nov
<input type="checkbox"/> A Surface Structural Approach to Ion Adsorption: The Charge Distribution (CD) Model	02 Jul

This list displays your recent actions (up to the last 100) while you are logged in.

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  - Interface Science and Technology
  - Journal of Electroanalytical Chemistry
  - Journal of Electroanalytical Chemistry and Interfacial Electrochemistry
  - Progress in Surface Science
  - Studies in Surface Science and Catalysis
  - Surface Science
  - Scientific Bases for the Preparation of Heterogeneous Catalysts - 175 of Studies



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- ScienceDirect Info site

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  - Submit an article
- Scopus - database of research literature
- Hub - SciVerse's integrated search platform
- Elsevier

been described in det  
Paul et al., 0; Fern  
laire, 2011; Bekker-Jen  
2009; Svetlova et al., 2  
Briefly the earliest

# 标题栏的变化

ScienceDirect

The image shows a screenshot of the ScienceDirect website interface with several annotations. At the top left, it says "Publications: 1858 titles found". Below this are filters for "Titles starting with 'A'", "Display series volume titles", "All publications", and "All access types". A list of publications is shown, including "Ab Initio Valence Calculations in Chemistry" and "Absorption Spectra and Chemical Bonding in Complexes".

In the center, there is a navigation menu with buttons for "Home", "Publications", "Search", "My settings", and "My alerts". An annotation box labeled "Electronic holdings reports" points to the "My settings" button. Another annotation box points to the "My alerts" button, which is linked to a dropdown menu. This menu includes options: "Change personal details & settings", "Manage my alerts", "Change password", "View electronic holdings reports", and "Sign out".

At the bottom, there is a search bar with the ScienceDirect logo and "Journals | Books" tabs. The search bar contains fields for "Search all fields", "Author name", "Journal or book title", "Volume", "Issue", and "Page", followed by a search icon and an "Advanced search" button. Below the search bar is a secondary search form with radio buttons for "Articles" (selected) and "Images", and input fields for "All fields", "Journal/Book title", "Author", "Volume", "Issue", and "Page", with a "Search" button.

# 书籍信息的变化

### Achieving Market Integration

Best Execution, Fragmentation and the Free Flow of Capital  
A volume in Securities Institute Global Capital Markets

About this Book  
Author(s): Scott McCleskey  
ISBN: 978-0-7506-5745-7  
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## 图书简介

#### Table of Contents

**Acknowledgements, Page xi**  
Show preview | PDF (31 K) | Recommended articles | Related reference work articles

**Preface, Pages xii-xiii**  
Show preview | PDF (45 K) | Recommended articles | Related reference work articles

**Foreword, Page xiv**  
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## 子标题目录

**1 - Introduction, Pages 1-3**  
Show preview | PDF (49 K) | Recommended articles | Related reference work articles

**Part I: Best execution**

**2 - Is this regulation necessary?, Pages 7-13**  
Show preview | PDF (74 K) | Recommended articles | Related reference work articles

**3 - Fundamental issues, Pages 14-30**  
Show preview | PDF (145 K) | Recommended articles | Related reference work articles

**4 - Putting it together: Elements of a sound best execution policy, Pages 31-40**  
Show preview | PDF (97 K) | Recommended articles | Related reference work articles

**5 - Comparing approaches, Pages 41-65**  
Show preview | PDF (200 K) | Recommended articles | Related reference work articles

**6 - A legal approach, Pages 66-73**  
Show preview | PDF (87 K) | Recommended articles | Related reference work articles

**7 - Technological considerations, Pages 74-96**  
Show preview | PDF (196 K) | Recommended articles | Related reference work articles

**Part II: Market integration**

**8 - Liquidity, market fragmentation and price formation, Pages 99-105**  
Show preview | PDF (90 K) | Recommended articles | Related reference work articles

**9 - Fragmentation and concentration, Pages 106-115**  
Show preview | PDF (104 K) | Recommended articles | Related reference work articles

#### Book description

Best execution, market integration, and other major financial market issues have traditionally been dealt with as separate matters requiring individual solutions. In **Achieving Market Integration** the author demonstrates the interrelated nature of these and other imperative problems, and sensibly reduces them to their common fundamental principles. Beginning with an in-depth examination of best execution in today's multiple-market environment, the book moves logically into an examination of market structure and the problems of achieving genuine integration. The book makes the case that order interaction is fundamental to addressing each of these issues, and develops a unified regulatory approach to achieve true market integration based on intermarket linkages and a cross-market best execution policy. This unique approach culminates in a coherent set of policy recommendations and an innovative framework for assessing the effectiveness of future policy proposals.

\*The first book on this important subject for the finance community  
\*Explains the aims and proposes solutions to the difficulties of establishing a stock market that integrates the diverse national exchanges around Europe  
\*Provides a discussion point for those lobbying the European Commission on formulating regulation for an integrated European capital market

# 文章主页的变化

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**Article outline**  Show full outline

- Highlights
- Summary
- Graphical Abstract
- Introduction
- Results
- Discussion
- Experimental Procedures
- Author Contributions
- Acknowledgments
- Supplemental Information
- References
- Supplemental References

**Figures and tables**

**Cell**

Volume 155, Issue 7, 19 December 2013, Pages 1451–1463

Article

## Microbiota Modulate Behavioral and Physiological Abnormalities Associated with Neurodevelopmental Disorders

Elaine Y. Hsiao<sup>1,2</sup>, Sara W. McBride<sup>1</sup>, Sophia Hsien<sup>1</sup>, Gil Sharon<sup>1</sup>, Embriette R. Hyde<sup>3</sup>, Tyler McCue<sup>3</sup>, Julian A. Codelli<sup>2</sup>, Janet Chow<sup>1</sup>, Sarah E. Reisman<sup>2</sup>, Joseph F. Petrosino<sup>3</sup>, Paul H. Patterson<sup>1,4</sup>, Sarkis K. Mazmanian<sup>1,4</sup>

<sup>1</sup> Division of Biology and Biological Engineering, California Institute of Technology, Pasadena, CA 91125, USA  
<sup>2</sup> Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA 91125, USA  
<sup>3</sup> Alkek Center for Metagenomics and Microbiome Research, Baylor College of Medicine, Houston, TX 77030, USA

Received 20 August 2013, Revised 3 October 2013, Accepted 18 November 2013, Available online 5 December 2013  
Published: December 5, 2013

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**Referred to by** Jack A. Gilbert, Rosa Krajmalnik-Brown, Dorota L. Porazinska, Sophie J. Weiss, Rob Knight  
**Toward Effective Probiotics for Autism and Other Neurodevelopmental Disorders**  
*Cell*, Volume 155, Issue 7, 19 December 2013, Pages 1446–1448  
PDF (364 K)

Highlights

**Recommended articles**

**Activation of the Maternal Immune System During P...**  
2014, Biological Psychiatry more

**Toward Effective Probiotics for Autism and Other N...**  
2013, Cell more

**Maternal immune activation causes age- and region...**  
2013, Brain, Behavior, and Immunity more

**Citing articles (4)**

**Microbiome: B. fragilis and the brain**  
2014, Nature Reviews Microbiology more

**Neurodevelopmental disorders: The gut-microbiom...**  
2014, Nature Reviews Neuroscience more

**Neurodevelopmental disorders: The gut-microbiom...**  
2014, Nature Reviews Drug Discovery more

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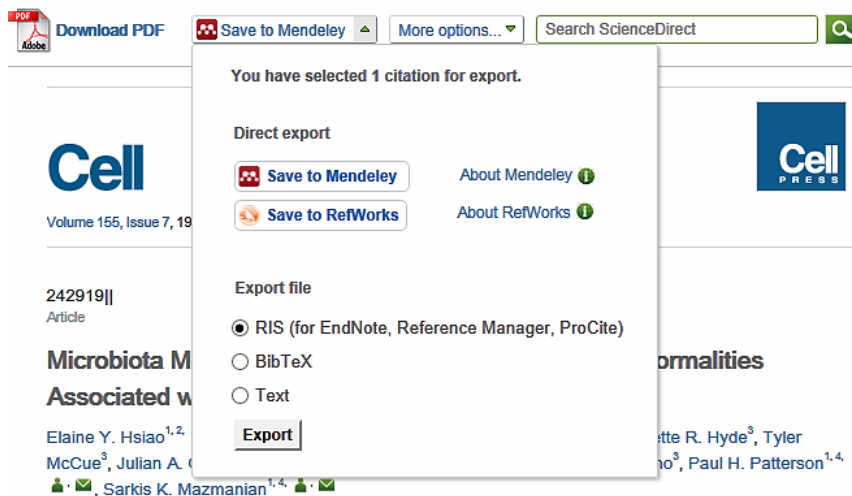
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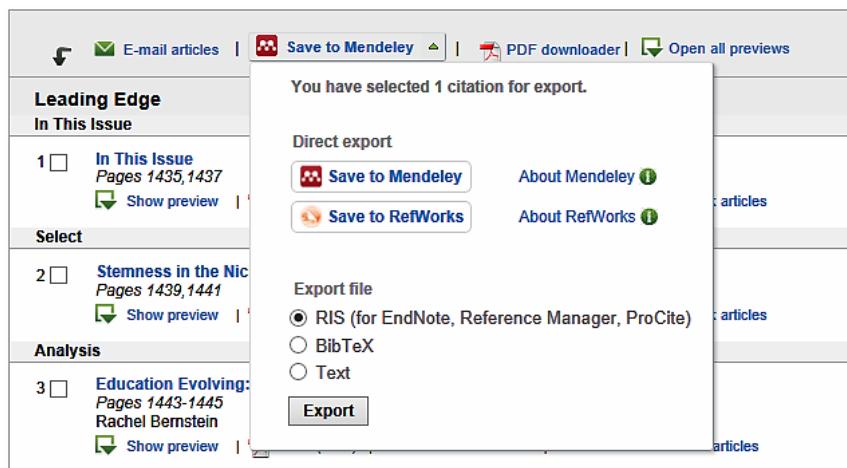
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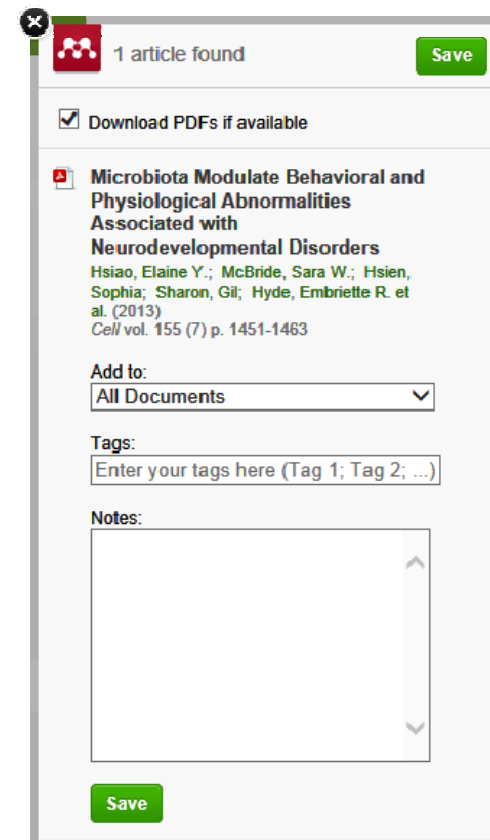
# ScienceDirect



This screenshot shows the ScienceDirect interface for a single article. The article title is "Microbiota Modulate Behavioral and Physiological Abnormalities Associated with Neurodevelopmental Disorders". The authors listed are Elaine Y. Hsiao, Julian A. McCue, Sarkis K. Mazmanian, and others. A modal window is open over the article, titled "You have selected 1 citation for export." It offers two main paths: "Direct export" with buttons for "Save to Mendeley" and "Save to RefWorks", and "Export file" with radio buttons for "RIS (for EndNote, Reference Manager, ProCite)", "BibTeX", and "Text". An "Export" button is located at the bottom of the modal.



This screenshot shows a list of articles in the ScienceDirect interface. The list includes items like "In This Issue", "Stemness in the Nic...", and "Education Evolving: Rachel Bernstein". A modal window is open over the list, identical to the one in the previous screenshot, showing the "You have selected 1 citation for export." options for direct export or file export.



This screenshot shows the Mendeley import dialog box. At the top, it says "1 article found" with a "Save" button. Below this, there is a checked option "Download PDFs if available". The article title "Microbiota Modulate Behavioral and Physiological Abnormalities Associated with Neurodevelopmental Disorders" is displayed, along with the authors and publication details. There is a dropdown menu for "Add to:" currently set to "All Documents". A "Tags:" field contains the text "Enter your tags here (Tag 1; Tag 2; ...)". A "Notes:" section has a large empty text area. A "Save" button is at the bottom right.



## 3. ScienceDirect的使用



Search all fields  Author name  Journal or book title  Volume  Issue  Page   Advanced search

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- Early maternal separation: a rodent model of depression and anxiety. *Pharmacological Reports*
- Biotechnology and genetic engineering in the new drug development. *Pharmacological Reports*
- Hyaluronan: Towards novel anti-cancer therapeutics. *Pharmacological Reports*
- Role of nitric oxide in the regulation of endothelial function. *Pharmacological Reports*
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- A Study into the Effects of Art Education on Student Learning. *Procedia - Social and Behavioral Sciences*

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The screenshot displays the ScienceDirect website interface. At the top, there is a navigation bar with 'ScienceDirect' logo, 'Journals | Books', and links for 'Shopping cart', 'Sign in', and 'Help'. A search bar is present with the text 'Search all fields' and a search button. Below the search bar, there are input fields for 'Author name', 'Journal or book title', 'Volume', 'Issue', and 'Page', along with an 'Advanced search' button.

The main content area shows 'Publications: 9864 titles found' and 'Electronic holdings reports'. On the left, there is a 'Filter by subject' sidebar with a tree view of subjects. The 'Physical Sciences and Engineering' category is expanded, and 'Engineering' is selected. Under 'Engineering', 'Control and Systems Engineering' is selected. An 'Apply' button is at the bottom of the sidebar.

In the center, there is a 'Filter by' section with a grid of letters: A, B, C, D, E, F, G; H, I, J, K, L, M, N; O, P, Q, R, S, T, U; V, W, X, Y, Z, 0-9, All. Below this, a list of publications is shown, including titles like 'Absorption', 'Absorption Spectra and Chemical Bonding in Complexes', 'AC Power Conditioners', 'Academia to Biotechnology', 'Academic Press Library in Biomedical Applications of Mobile and Wireless Communications: Wireless UWB Body Area Networks', 'Academic Press Library in Signal Processing', 'Accelerated Quality and Reliability Solutions', 'Accelerated Testing and Validation', 'Accelerating Matlab with GPUs', 'Accelerator Health Physics', 'Access Control and Personal Identification Systems', 'Accident Analysis & Prevention', 'Acidosis', 'The Acoustic Bubble', 'Acoustic and Electromagnetic Scattering Analysis Using Discrete Sources', 'The Acoustic Reflex', and 'Acoustic Wave Sensors - A volume in Applications of Modern Acoustics'.

On the right, there are two dropdown menus: 'All publications' and 'All access types'. The 'All access types' dropdown is open, showing options: 'Full-text access', 'Subscription & complimentary', 'Open Access', 'Open Access journals', and 'Contains Open Access'. The 'Open Access' option is highlighted.

At the bottom, there is a taskbar showing 'Internet' and a zoom level of '100%'.



Advanced search



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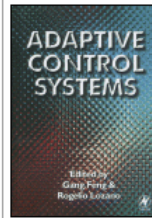
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## Adaptive Control Systems

About this Book

Author(s): Gang Feng and Rogelio Lozano  
ISBN: 978-0-7506-3996-5

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### Book description

Adaptive control is no longer just an important theoretical field of study, but is also providing solutions to real-world problems. Adaptive techniques will transform the world of control. The leading world practitioners of adaptive control have contributed to this handbook which is the most important work yet in this field. Not only are techniques described in theory, but detailed control algorithms are given, making this a practical cookbook of adaptive control for both control professionals and practising engineers.

The book presents the most advanced techniques and algorithms of adaptive control. These include various robust techniques, performance enhancement techniques, techniques with less a-priori knowledge, nonlinear adaptive control techniques and intelligent adaptive techniques. Each technique described has been developed to provide a practical solution to a real-life problem. This volume will therefore not only advance the field of adaptive control as an area of study, but will also show how the potential of this technology can be realised and offer significant benefits.

Practical cookbook of adaptive control  
Contains important research



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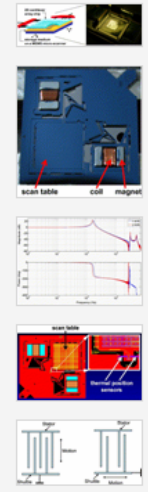
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Annual Reviews in Control  
Volume 36, Issue 2, December 2012, Pages 244–254

## Nanopositioning for storage applications <sup>☆</sup>

Evangelos Eleftheriou

<http://dx.doi.org/10.1016/j.arcontrol.2012.09.006> [Get rights and content](#)

Abstract

In nanotechnology applications, nanopositioning, i.e., nanometer-scale precision control at dimensions of less than 100 nm, plays a central role. One can view nanopositioners as precision mechatronics systems aiming at moving objects over a certain distance with a resolution that could be as low as a fraction of an Ångström. Actuation, position sensing and feedback control are the key components of nanopositioners that determine how successfully the stringent requirements on resolution, accuracy, stability, and bandwidth are achieved. Historically, nanopositioning has played a critical role in scanning probe microscopy (SPM), and it appears that it will play a crucial role in emerging applications such as lithography tools and semiconductor inspection systems, as well as in molecular biology, nanofabrication, and nanomanufacturing. Moreover, it is becoming an important requirement in storage systems, ranging from novel probe-based storage devices to mechatronic tape-drive systems, to support the high areal density or storage capacity needs. This paper will review control-related research in nanopositioning for two extreme cases of data-storage systems, namely, in probe and in tape storage.

Keywords

Probe storage; Tape storage; Voice-coil actuators; Piezoelectric actuators; Nanopositioning; Mechatronics; Feedback control technologies

1. Introduction

The past two and a half decades have witnessed the emergence and explosive growth of nanoscience and nanotechnology (Bushan, 2004, Crandall, 1996, Shapiro, 2005 and Sheetz et al., 2005). In all these applications, nanopositioning, i.e., nanometer-scale precision control at dimensions of less than 100 nm, plays a central role. One can view nanopositioners as precision mechatronics systems aiming at moving

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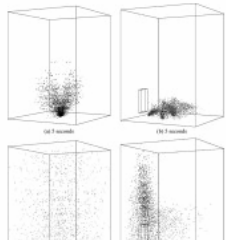
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Highlights

- Solving the nonlinear differential equation of a hydronic radiator analytically.
- Deriving a first order control oriented model of the radiator for controller design purposes.
- Dealing with the stability-performance dilemma of TRV-controlled radiators by designing a gain scheduled controller.
- Comparison of the proposed controller with a typical PI.
- Excellent improvements in the performance and stability using the proposed controller.

- Numerical comparison of airborne particles deposition and dispersion in radiator and floor heating systems** Original Research Article  
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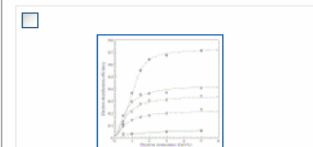
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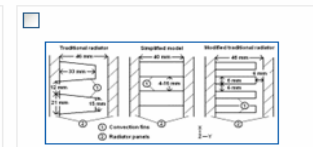
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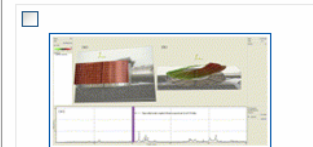


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Sections of radiators with dimensions and geometries seen from above. At left, traditional two-panel radiator geometry...



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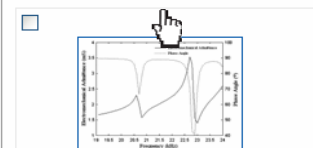
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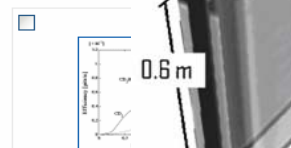
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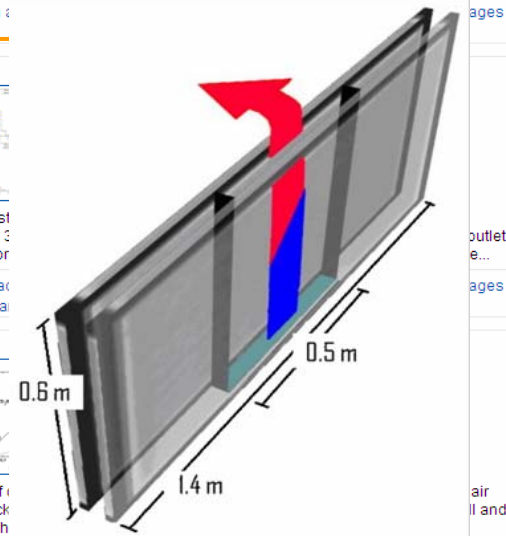
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# 高级检索

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The screenshot shows the ScienceDirect advanced search interface with several Chinese annotations:

- 所有资源** (All Resources): A red box on the left points to the "All" tab in the top navigation bar. Below it, a list includes: 期刊 (Journals), 书籍 (Books), 参考书 (Reference Works), and 图片/视频 (Images/Videos).
- 检索词** (Search Term): A blue callout bubble points to the search input field containing "electrodeposit\*".
- 检索字段** (Search Field): A blue callout bubble points to the dropdown menu showing "Abstract, Title, Keywords".
- 资源类型** (Resource Type): A blue callout bubble points to the "Refine your search" section, which includes checkboxes for Journals, Books, All, My Favorites, Subscribed publications, and Open Access articles.
- 所属领域** (Subject Area): A blue callout bubble points to the subject area dropdown menu, which is currently set to "- All Sciences -".
- 出版时间** (Publication Time): A blue callout bubble points to the date range selection area, which is set to "All Years".

The search interface includes a "Search for" section with two search terms: "electrodeposit\*" and "ZnO", connected by an "AND" operator. The search terms are in input fields, and the search fields are in dropdown menus. The "Refine your search" section has checkboxes for "Journals", "Books", "All", "My Favorites", "Subscribed publications", and "Open Access articles". The subject area dropdown menu is currently set to "- All Sciences -" and includes options for "Agricultural and Biological Sciences", "Arts and Humanities", and "Biochemistry, Genetics and Molecular Biology". The date range selection area has radio buttons for "All Years", "2004", and "Present".



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**Subject** (select one or more)


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标题	title	ttitle
摘要	abstract	abs
关键词	keywords	key
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<b>OR</b>	检索词中的任意一个或多个出现在文章中
<b>AND NOT</b>	后面所跟的词不出现在文章中
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通配符?	取代单词中的1个字母 如wom?n 可以检索到woman, women
<b>W/n</b> <b>PRE/n</b>	两词相隔不超过n个词，词序不定    quick w/3 response 两词相隔不超过n个词，词序一定    quick pre/2 response
“”	宽松短语检索，标点符号、连字符、停用字等会被自动忽略 “heart-attack”
{ }	精确短语检索，所有符号都将被作为检索词进行严格匹配 {c++}

# 检索语言

## 拼写方式

当英式与美式拼写方式不同时，可使用任何一种形式检索

例：**behaviour** 与**behavior**；**psychoanalyse** 与**psychoanalyze**

## 单词复数

使用名词单数形式可同时检索出复数形式

例：**horse -horses, woman -women**

## 希腊字母

支持  $\alpha$  ,  $\beta$  ,  $\gamma$  ,  $\Omega$  检索（或英文拼写方式）

## 法语、德语

重音、变音符号，如 **é, è, ä** 均可以检索

## 大小写

英文字母不区分

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Biochemistry, Genetics and Molecular Biology

Hold down the Ctrl key (or Apple Key) to select multiple entries.

Article  
 Review Article  
 Short Survey

Short Communication  
 Correspondence, Letter  
 Discussion

Book Review  
 Product Review  
 Editorial

Publisher's Note  
 Erratum

All Years  2004 to Present  Articles in Press

| [Recall search](#)



# 设置提醒或同步追踪 Alert or RSS Feed

173 articles found for: ALL(ZnO) AND SRCTITLEPLUS(Electrochemistry Communications) [Save this search](#) [Save as search alert](#) | [RSS Feed](#)

## Available Topic Alerts

**Step 1 :** To sign up for a Topic Alert, select a category from the drop-down menu below, and then click Go. You will then see a list of the available Topic Alerts within that category.

Please select your category of interest.

Chemistry

**Step 2 :** Select the checkbox next to each topic alert you want to receive. To remove topic alerts, clear the checkbox next to each topic alert you no longer want to receive. Once your changes have been made, click "Save Settings".

Alert name	Alert view	Alert frequency	Topic feed
<input type="checkbox"/> Analytical Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input checked="" type="checkbox"/> Electrochemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Inorganic Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Nanoscience and Technology - Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Organic Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Spectroscopy	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	
<input type="checkbox"/> Theoretical Chemistry	<a href="#">Latest Results</a> <a href="#">Archive/Details</a>	Weekly	



## Electrochemistry Communications

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某搜索或某特定领域最新发表的文章，某期刊或丛书最新出版的期或卷

# My alert

## 检索提醒

**Search alerts** [Add search alert](#)

Alert name	Alert view	Alert frequency	Alert actions	Search feed
TITLE-ABSTR-KEY(buffer layer) and TITLE-ABSTR-KEY(solar)	<a href="#">Latest results</a>   <a href="#">Archive</a>	Weekly	<a href="#">Modify</a>   <a href="#">Delete</a>	
ZnO in solar cells	<a href="#">Latest results</a>   <a href="#">Archive</a>	Weekly	<a href="#">Modify</a>   <a href="#">Delete</a>	
Douglas-cancer cell-transgenic mice	<a href="#">Latest results</a>   <a href="#">Archive</a>	Weekly	<a href="#">Modify</a>   <a href="#">Delete</a>	
Douglas-cancer cell-transgenic mice	<a href="#">Latest results</a>   <a href="#">Archive</a>	Weekly	<a href="#">Modify</a>   <a href="#">Delete</a>	

\* Search Alerts will be set to inactive if they are not used for an extended period of time. Click on Modify link to activate an Inactive Search Alert.

If you are unsure of how to create a Search Alert, please try one of our pre-made [Topic Alerts](#).

## 主题提醒

**Topic alerts** [Add/Delete topic alerts](#)  
These alerts are sent to lycoco@126.com. Modify the e-mail address and e-mail format setting in your [profile](#).

Alert name	Alert view	Alert frequency	Alert actions	Topic feed
Electrochemistry	<a href="#">Latest results</a>   <a href="#">Archive/Details</a>	Weekly	<a href="#">Delete</a>	

## 期刊/丛书提醒

**Journal and book-series alerts**  
These alerts are sent to lycoco@126.com. Modify the e-mail address and e-mail format setting in your [profile](#).

Alert name	Publication type	Alert view	Alert frequency	Alert actions	Article feed
<a href="#">Applied Surface Science</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Cell</a>	Journal	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Electrochemistry Communications</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Interface Science and Technology</a>	Book Series	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Progress in Surface Science</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Studies in Surface Science and Catalysis</a>	Book Series	<a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Surface Science</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	
<a href="#">Thin Solid Films</a>	Journal	<a href="#">Articles in Press</a>   <a href="#">Latest Volume/Issue</a>	As Published	<a href="#">Delete</a>	

# Top 25 Hottest Articles

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Chemistry 

[all journals] 

browse top 25 archive

Current: April to June 2013 

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
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## Top 25 Hottest Articles

Chemistry  
April to June 2013

 [RSS](#)  [Blog This!](#)  [Print](#) [Show condensed](#)

- Efficient chemoselective deprotection of silyl ethers using catalytic 1-chloroethyl chloroformate in methanol** • Article   
*Tetrahedron*, Volume 61, Issue 52, Pages 12227-12237  
Yeom, C.E.; Kim, Y.J.; Lee, S.Y.; Shin, Y.J.; Kim, B.M.  
[Cited by Scopus \(10\)](#)
- Recent advances in graphene based polymer composites** • Review article   
*Progress in Polymer Science*, Volume 35, Issue 11, Pages 1350-1375  
Kuilla, T.; Bhadra, S.; Yao, D.; Kim, N.H.; Bose, S.; Lee, J.H.  
[Cited by Scopus \(364\)](#)
- Surface modification of inorganic nanoparticles for development of organic-inorganic nanocomposites-A review** • Review article   
*Progress in Polymer Science*  
Kango, S.; Kalia, S.; Celli, A.; Njuguna, J.; Habibi, Y.; Kumar, R.
- The surface science of titanium dioxide** • Review article   
*Surface Science Reports*, Volume 48, Issue 5-8, Pages 53-229  
Diebold, U.  
[Cited by Scopus \(2387\)](#)
- Surface plasmon resonance sensors: review** • Article   
*Sensors and Actuators B: Chemical*, Volume 54, Issue 1-2, Pages 3-15  
Homola, J.; Yee, S.S.; Gauglitz, G.
- Carbon nanotube-polymer composites: Chemistry, processing, mechanical and electrical properties** • Review article   
*Progress in Polymer Science*, Volume 35, Issue 3, Pages 357-401  
Spitalsky, Z.; Tasis, D.; Papagelis, K.; Galiotis, C.  
[Cited by Scopus \(516\)](#)
- Some organo-compounds of calcium, strontium and barium** • Article   
*Journal of Organometallic Chemistry*, Volume 32, Issue 3, Pages 279-284  
F.A.; M.A.  
[Cited by Scopus \(16\)](#)
- TiO<sub>2</sub> photocatalysis and related surface phenomena** • Review article   
*Surface Science Reports*, Volume 63, Issue 12, Pages 515-582  
Fujishima, A.; Zhang, X.; Tryk, D.A.  
[Cited by Scopus \(1438\)](#)
- TiO<sub>2</sub> photocatalysis: Design and applications** • Review article   
*Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, Volume 13, Issue 3, Pages 169-189  
Nakata, K.; Fujishima, A.  
[Cited by Scopus \(78\)](#)
- Organic-inorganic hybrid solar cells: A comparative review** • Review article   
*Solar Energy Materials and Solar Cells*, Volume 107, Pages 87-111  
Wright, M.; Uddin, A.
- A review of chitin and chitosan applications** • Review article   
*Reactive and Functional Polymers*, Volume 46, Issue 1, Pages 1-27  
Ravi Kumar, M.N.  
[Cited by Scopus \(1316\)](#)
- Polymer nanoparticles: Preparation techniques and size-control parameters** • Review article 

<http://top25.sciencedirect.com/>

## 4.Elsevier期刊投稿常识

# 内容

- 1) Elsevier期刊投稿流程
- 2) EES及EVISE投稿平台
- 3) 爱思唯尔作者权利与责任



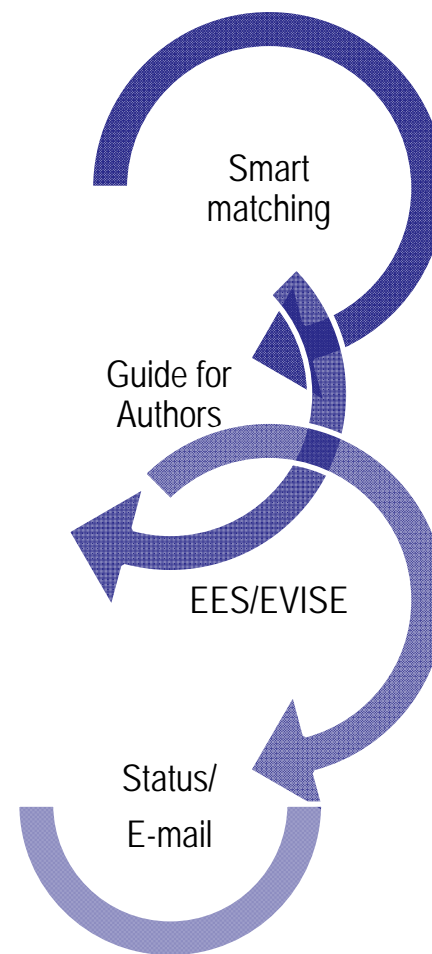


# 1) Elsevier期刊投稿流程



# Elsevier学术期刊出版流程

- a. 寻找合适的期刊
- b. 准备论文
- c. 提交论文
- d. 检查状态





## a.寻找合适的期刊

### 期刊寻找:

- 参考文献的期刊
- 期刊排名与影响力 **Journal Ranking**
- 寻求导师或同事的帮助  
导师或同事通常也是合作作者，对论文负共同责任
- 寻找热点主题 **top25.sciencedirect.com**
- Elsevier Journal Finder**

### 对于目标期刊:

- 研读期刊的 **Aims & Scope**及**Guides for Authors**  
并检查文章是否符合期刊要求
- 查看期刊是否只接受邀请投稿
- 查看期刊的出版是否满足需求
- 查看期刊是否符合资助机构的要求



# Elsevier Journal Finder

The screenshot shows a web browser window with the URL <http://journalfinder.elsevier.com/>. The page features the Elsevier logo in the top left and a "Send us feedback" button in the top right. The main heading is "Find the perfect journal for your article <sup>BETA</sup>". Below this, a paragraph explains the tool's purpose: "Elsevier Journal Finder helps you find journals that could be best suited for publishing your scientific article. Powered by the Elsevier Fingerprint Engine™, Journal Finder uses smart search technology and field-of-research specific vocabularies to match your article to Elsevier journals." A sub-heading reads "Simply insert your title and abstract and select the appropriate field-of-research for the best results." The form contains three main sections: "Paper title" with a text input field containing the placeholder "Enter your paper title here"; "Paper abstract" with a larger text area containing the placeholder "Copy and paste your paper abstract here."; and "Fields of research" with the instruction "Select up to three fields of research" and a grid of checkboxes for Agriculture, Economics, Materials Science and Engineering, GeoSciences, Humanities and Arts, Life and Health Sciences, Mathematics, Physics, and Social Sciences, plus a separate checkbox for Chemistry. A "Filter" section includes a checkbox for "Limit to journals with Open Access options". At the bottom of the form is a blue button labeled "FIND JOURNAL".

ELSEVIER [Send us feedback](#)

## Find the perfect journal for your article <sup>BETA</sup>

Elsevier Journal Finder helps you find journals that could be best suited for publishing your scientific article. Powered by the Elsevier Fingerprint Engine™, Journal Finder uses smart search technology and field-of-research specific vocabularies to match your article to Elsevier journals.

Simply insert your title and abstract and select the appropriate field-of-research for the best results.

**Paper title**

**Paper abstract**

**Fields of research**  
Select up to three fields of research

<input type="checkbox"/> Agriculture <a href="#">↗</a>	<input type="checkbox"/> Economics <a href="#">↗</a>	<input type="checkbox"/> Materials Science and Engineering <a href="#">↗</a>
<input type="checkbox"/> GeoSciences <a href="#">↗</a>	<input type="checkbox"/> Humanities and Arts <a href="#">↗</a>	<input type="checkbox"/> Life and Health Sciences <a href="#">↗</a>
<input type="checkbox"/> Mathematics <a href="#">↗</a>	<input type="checkbox"/> Physics <a href="#">↗</a>	<input type="checkbox"/> Social Sciences <a href="#">↗</a>
<input type="checkbox"/> Chemistry <a href="#">↗</a>		

**Filter**

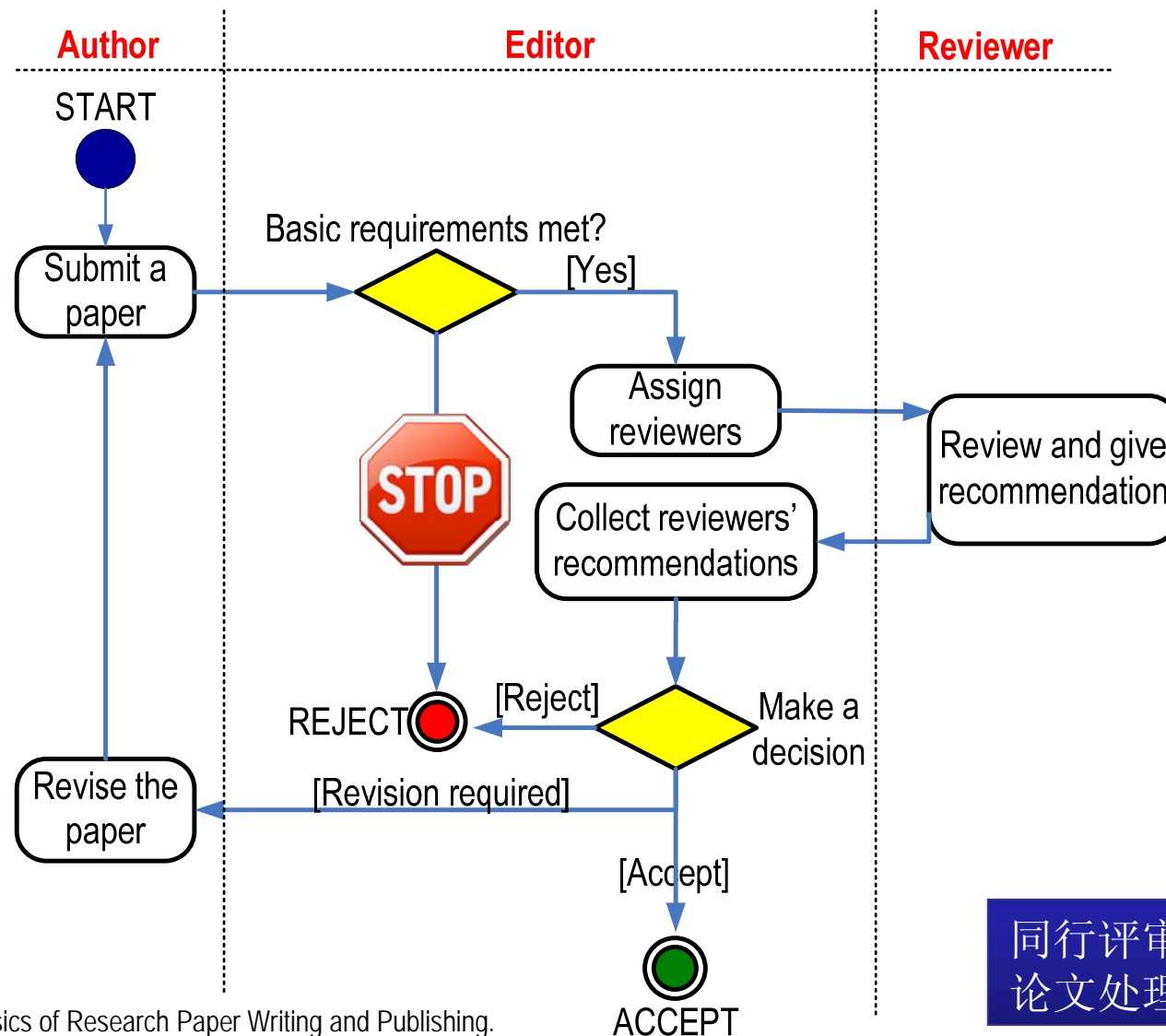
Limit to journals with Open Access options

**FIND JOURNAL**

## b.准备论文

- 文章结构及语言
- 严格按照**Guide for Authors**的要求修改
  - 文章字数
  - 文字处理软件
  - 标题、摘要、关键词的具体要求
  - 图片格式、分辨率、尺寸、文档大小、彩图
  - 公式和表格
  - 术语、缩略语
  - 参考文献格式
- 准备投稿所需其他材料
  - **Cover letter**
  - **Highlights**
  - **Graphic abstract**
  - **Select reviewers**

# c.提交论文



同行评审体系  
论文处理流程

## d. 检查状态



# Communication with Editor and Reviewers

提交新稿: **Cover letter**

提交修改稿: **Rebuttal Letter**

被拒后: **Appeal Letter**

提醒: **Reminder Letter**



# Cover Letter

- Read by **editors**
- A **crucial** part of the manuscript submission package.
- An **opportunity** to convey important information to the editors.
- Help the editors reach a **quicker decision**.
- Tip the balance **for peer review**.

## Basic information:

- ✓ Editor Addressing
- ✓ Research originality & innovation
- ✓ Main conclusion
- ✓ Any supportable info to your submission
- ✓ Recommended reviewer
- ✓ Any conflict of interest in producing the research
- ✓ Details of any previous or concurrent submissions

Professor H. D. Schmidt  
School of Science and Engineering  
Northeast State University  
College Park, MI 10000  
USA

Example

所有作者的最终同意

Dear Professor Schmidt,

Enclosed with this letter you will find an electronic submission of a manuscript entitled "Mechano-sorptive creep under compressive loading - a micromechanical model" by John Smith and myself. This is an original paper which has neither previously nor simultaneously in whole or in part been submitted anywhere else. Both authors have read and approved the final version submitted.

Mechano-sorptive is sometimes denoted as accelerated creep. It has been experimentally observed that the creep of paper accelerates if it is subjected to a cyclic moisture content. This is of large practical importance for the paper industry. The present manuscript describes a micromechanical model on the fibre network level that is able to capture the experimentally observed behaviour. In particular, the difference between mechano-sorptive creep in tension and compression is analysed. John Smith is a PhD-student who within a year will present his doctoral thesis. The present paper will be a part of that thesis.

Three potential independent reviewers who have expertise in the area of this paper are:

Dr. Fernandez, Tennessee Tech, [email1@university.com](mailto:email1@university.com)  
Dr. Chen, University of Maine, [email2@university.com](mailto:email2@university.com)  
Dr. Singh, Colorado School of Mines, [email3@university.com](mailto:email3@university.com)

I would very much appreciate if you would consider the manuscript for publication in the *International Journal of Science*.

Sincerely,

推荐审稿人

A. Professor

阐述研究的重要性

# 注意事项

- 一稿多投(**multiple/simultaneous submissions**)
- 通信作者和第一作者
- 合适的审稿人
- 论文的新意(**cover letter**)
- 逻辑性，合理性
- 语言及图片的质量





## 2) EES投稿平台



# Elsevier Editorial System (EES)

- Elsevier Editorial System (EES), 集在线投稿、评审和编辑功能于一体的电子平台。
- **2002建立, 3.2million active end users per year**
- **1900 journals use EES**
- **100,000 new manuscripts received per month**
- EES 支持:
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  - 指派编辑
  - 编辑部/编辑在线邀请审稿专家
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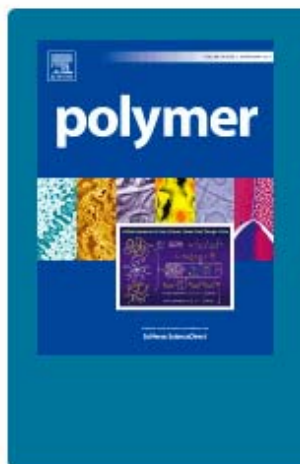
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*Polymer* publishes original research from all areas of **polymer science** and **technology** with emphasis on molecular or meso-scale interpretation of data. Papers from new emerging areas of the field are particularly...

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Senior Editors: S.Z.D. Cheng, A.H.E. Müller

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期刊的目标和范围

Impact Factor:

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5-Year Impact Factor:

4.009

Imprint: ELSEVIER

ISSN: 0032-3861

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Winners announced of THE 6TH Feng Xinde Polymer Prize for the Best Chinese Paper published in *Polymer* during 2011

Frontiers in  
polymer  
science  
21-23 May 2013

Speakers announced for Third International Symposium: Frontiers in Polymer Science

VIEW ALL

# 期刊EES主页 <http://ees.elsevier.com/jpol/>

The screenshot shows the Polymer journal's online submission and editorial system. At the top, there is a navigation bar with the journal title 'polymer' and links for 'home', 'main menu', 'submit paper', 'guide for authors', 'journal info', 'register', and 'log in'. A blue box labeled '期刊简介' (Journal Introduction) has an arrow pointing to the 'journal info' link. Below the navigation bar, there are three main sections: a journal cover image, a 'Polymer' welcome message, and a 'Hints' section. To the right, there are three panels: 'Author Information', 'Reviewer Information', and 'Editor Information', each containing a 'Log in' link and various utility links. At the bottom, there are logos for 'cross check' and 'ethics', and a footer with links for 'Help', 'Privacy Policy', 'Terms and Conditions', and 'About Us'.

**polymer**  
menu image map

Contact us Help ?

[home](#) | [main menu](#) | [submit paper](#) | [guide for authors](#) | [journal info](#) | [register](#) | [log in](#)

**polymer**

**Polymer**

Welcome to the online submission and editorial system for *Polymer*.

*Polymer* publishes original research from all areas of polymer science and technology with emphasis on molecular or meso-scale interpretation of data. Papers from new emerging areas of the field are particularly welcome. In addition to regular articles and communications, the journal also publishes review articles - usually invited by the Editors.

**Hints:**

We strongly suggest you regularly check your spam folder for EES notifications. Update your '**Safe Senders**' list to ensure that emails from EES are not filtered into your spam folder. For information on how to do this, click [here](#).

**Are you a new EES user?** Please select [register](#) from the menu at the top and enter the requested information.

**Are you an existing EES user for this journal?** If you are already registered as an author or a reviewer, please do not register again. Select [log in](#) from the menu at the top, enter your username and password and then click the appropriate log in button. If you wish to change your email, password or other details, you can update your EES account by selecting "change details" after you log in.

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[Tutorial for Authors](#)

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# 初次使用需注册/登陆

The image shows a sequence of three screenshots from the Elsevier Polymer journal website, illustrating the registration and login process. The top navigation bar includes links for home, main menu, submit paper, guide for authors, journal info, register, and log in. The 'register' link is highlighted with a red box in the first screenshot. A callout bubble with the Chinese characters '注册' (Register) points to the 'register' link. The second screenshot shows the registration form with fields for First Name (Yao) and Last Name (Xiulin). A callout bubble with the Chinese text '用户名和密码会自动发送至注册邮箱' (Username and password will be automatically sent to the registered email) is positioned over the form. The third screenshot shows the login page with fields for Username (judy) and Password. A callout bubble with the Chinese text '忘记用户名密码点击“Send Username/Password”' (Click 'Send Username/Password' if you forget your username and password) points to the 'Send Username/Password' link. The 'log in' link in the navigation bar is also highlighted with a red box. A red banner at the bottom of the third screenshot reads: 'Important Message: Site under development. Do not use for live manuscript submission.' The footer of the page includes the text 'Software Copyright © 2008 Aries Systems Corporation.'

**注册**


**用户名和密码会自动发送至注册邮箱**

**忘记用户名密码点击“Send Username/Password”**

**Important Message: Site under development. Do not use for live manuscript submission.**

# 作者主页

Journal of Genetics and Genomics 遗传学报

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Username: ju  
Role: Author

[home](#) | [main menu](#) | [submit paper](#) | [guide for authors](#) | [register](#) | [change details](#) | [log out](#)

## Author Main Menu

投递新稿

### New Submissions

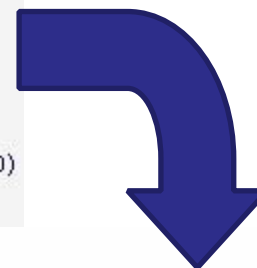
[Submit New Manuscript](#)

Submissions Sent Back to Author (0)

Incomplete Submissions (0)

Submissions Waiting for Author's Approval (0)

Submissions Being Processed (0)



### New Submission

[Frequently Asked Questions](#)

Select Article Type

Enter Title

Add/Edit/Remove Authors

Submit Abstract

Enter Keywords

Select Classifications

Additional Information

Enter Comments

Attach Files

### Please Enter The Full Title of Your Submission

Entering a Full Title is Required for Submission.

Please enter the title of your manuscript. You cannot submit a manuscript without a title.

Full Title

test article

投稿步骤

[Insert Special Character](#)

# 稿件源文件需分别上传

**Journal of Genetics and Genomics** 遗传学报

Contact us Help ?

This site will be unavailable on Saturday 07:00 until 12:00 GMT due to maintenance.

home | main menu | submit paper | guide for authors | register | change details | log out

Username: judy  
Role: Author

**Attach Files**

Note 1: Do not embed figures, graphics or photos in the manuscript text file. Please upload each figure file individually. Elsevier's preferred file formats are [EPS](#), [TIFF](#) and [PDF](#). [MS Office](#) file formats are only allowed under certain conditions.

Note 2: Please remove individually uploaded figures and tables from your manuscript text file. Otherwise, each figure will appear twice in your PDF file.

We allow compressed files (in the formats zip, tar, tar.gz, tgz), which may be used for normal and LaTeX submissions alike.

Please upload your files in the following order: Cover letter; Manuscript (including title page and summary/abstract); Figures; Tables.

Mandatory Items are marked with an asterisk \*.

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Enter a **Description** and then click the **Browse** button to select the file you wish to upload, then click the **Attach This File** button.

Description: Cover Letter

File Name:  Browse...

Attach This File

**文档类型包括:**

- ✓ MS Office files (Word / Powerpoint / Excel)
- ✓ LaTeX
- ✓ TIFF
- ✓ PDF

# 系统将稿件生成PDF文件

## New Submission

### Frequently Asked Questions

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- ✓ [Submit Abstract](#)
- ✓ [Enter Keywords](#)
- ✓ [Select Classifications](#)
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- ✓ [Enter Comments](#)
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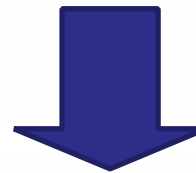
### Summary Following Attach Files

Listed below is the summary of the number of items to be delivered online and the number of items to be delivered offline. Required Items are marked with \*.

	Online	Offline		Online	Offline
* Cover Letter	1	0	Author Agreement	0	0
Figure	0	0	* Manuscript	1	0
Table	0	0	Supplemental Material	0	0

[Previous](#)

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### New Submissions

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- Submissions Sent Back to Author (0)
- Incomplete Submissions (0)
- [Submissions Waiting for Author's Approval \(1\)](#)
- Submissions Being Processed (0)



# 确认投稿

## Submissions Waiting for Approval by Author Judy Bai

If no Actions appear for your submission, please wait a few

Plagi  
guide

The 'new f

The 'the s


View Submission 浏览文件  
文件确定生成的PDF文档  
正确无误

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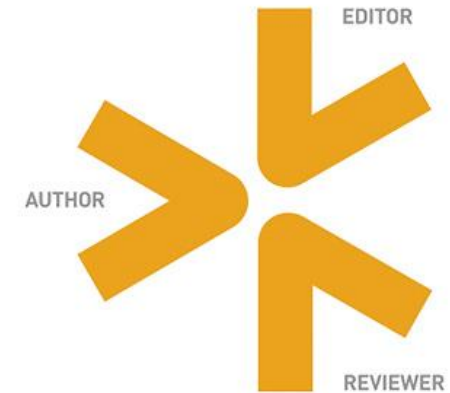
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Ali Rahmatpour\*

*Polymer Science and Technology Division, Research Institute of Petroleum Industry (RIPI), 14665-1137 Tehran, Iran*

**ARTICLE INFO**

**ABSTRACT**

A new and environmentally friendly method for preparation of *N*-substituted pyrroles via one-pot condensation reaction of 2-hexanedione with amines and diamines in the presence of polystyrene-supported gallium trichloride (PS/GaCl<sub>3</sub>) as a highly active and reusable heterogeneous Lewis acid catalyst is presented. This simple protocol has the advantages of easy availability, stability, reusability and eco-friendliness of the catalyst, high to excellent yields, simple experimental and work-up procedure.

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Polymer-supported catalyst  
Pyrrole  
Paal–Knorr condensation reaction  
Heterogeneous Lewis acid catalyst

## 1. Introduction

Functionally substituted pyrroles are an important class of nitrogen-containing heterocyclic compounds. They constitute the core unit of many natural products, synthetic materials, and serve as building blocks for porphyrin synthesis [12]. Members of this family have wide applications in medicinal chemistry, being used as anti-inflammatory, anti-inflammatory agents, antibacterial, and antiviral [3–5]. These compounds can be prepared from the classical Hantzsch procedure [6], 1,3-dipolar cycloaddition reactions [7], aza-Wittig reactions [8], annulations reactions [9], and other multistep operations [10]. Despite these new developments, the Paal–Knorr reaction remains one of the most significant and simple methods for the synthesis of pyrroles. It consists of the cyclocondensation of primary amines with 2-hexanedione to produce *N*-substituted pyrroles. Several catalysts have been used to promote this reaction including HCl [11], p-TSA [12], H<sub>2</sub>SO<sub>4</sub> [13], Sc(OTf)<sub>3</sub> [14], B(NO<sub>2</sub>)<sub>2</sub>·5H<sub>2</sub>O [15], SnCl<sub>2</sub>·2H<sub>2</sub>O [16], Ti(OPr)<sub>4</sub> [17], RuCl<sub>3</sub> [18], InCl<sub>3</sub>, InBr<sub>3</sub>, In(OTf)<sub>3</sub> [19], zeolite [20], Al<sub>2</sub>O<sub>3</sub> [21], montmorillonite K10 [22], silica sulfuric acid [23], layered zirconium phosphate and phosphonate [24], montmorillonite [25], montmorillonite KSF-clay and I<sub>2</sub> [26]. Recently, the above cyclocondensation process could proceed in ionic liquid [27] or ultrasonic and microwave irradiation [28]. However, despite the potential utility of these catalysts, many of

these methodologies for the synthesis of pyrroles are associated with several shortcomings such as low yields, prolonged reaction time, harsh reaction conditions, the requirement of excess of catalysts, the use of toxic and detrimental metal precursors as catalysts, and relatively expensive reagents and high temperature, and tedious work-up leading to the generation of large amounts of toxic metal-containing waste. The main disadvantage of almost all existing methods is that the catalysts are destroyed in the work-up procedure and their recovery and reuse is often impossible, which limit their use under the aspect of environmentally benign processes. Heterogeneous supported catalysts have been gained much attention in recent years, as they possess a number of advantages in preparative procedures [29,30]. Immobilization of catalysts on solid support improves the available active site, stability, hygroscopic properties, handling, and reusability of catalysts which all factors are important in industry [31]. Therefore, use of supported and reusable catalysts in organic transformations has economical and environmental benefits. A large number of polymer supported Lewis acid catalysts have been prepared by immobilization of the catalysts on polymer via coordination or covalent bonds [32]. Such polymeric catalysts are usually as active and selective as their homogeneous counterparts while having the distinguishing characteristics of being easily separable from the reaction mixture, recyclability, easier handling, non-toxicity, enhanced stability, and improved selectivity in various organic reactions. Polystyrene is one of the most widely studied heterogeneous and polymeric supports due to its environmental stability and hydrophobic nature

\* Tel.: +98 21 44739518; fax: +98 21 44739517.  
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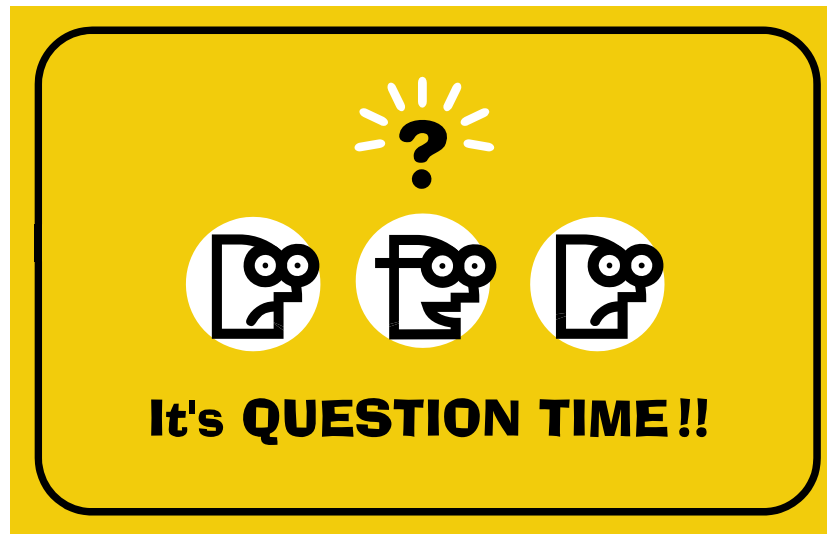
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