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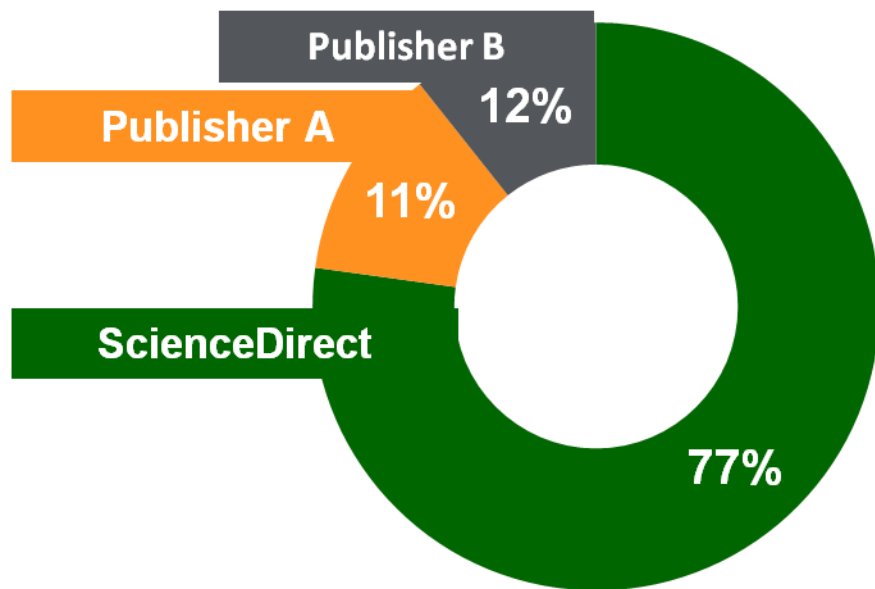
## 内容简介

- 作为一个有**400**多年出版历史的出版社，爱思唯尔拥有丰富的图书资源，涉及科学、技术、医学、社会科学等领域的**24**个学科。
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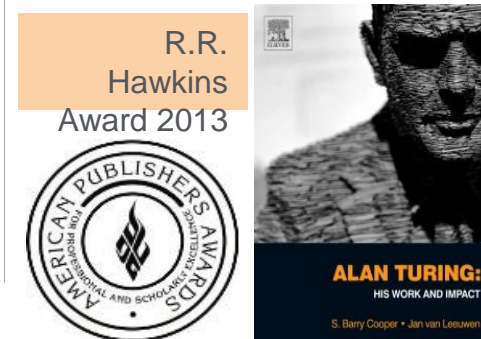
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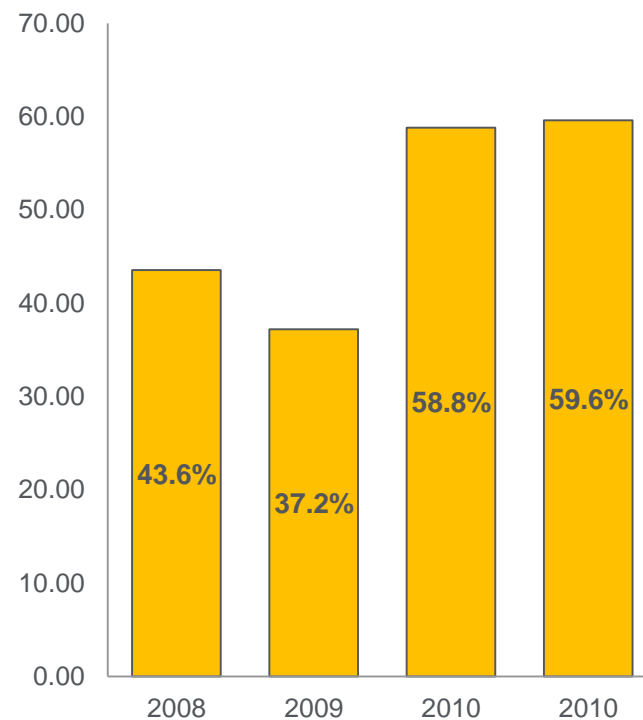
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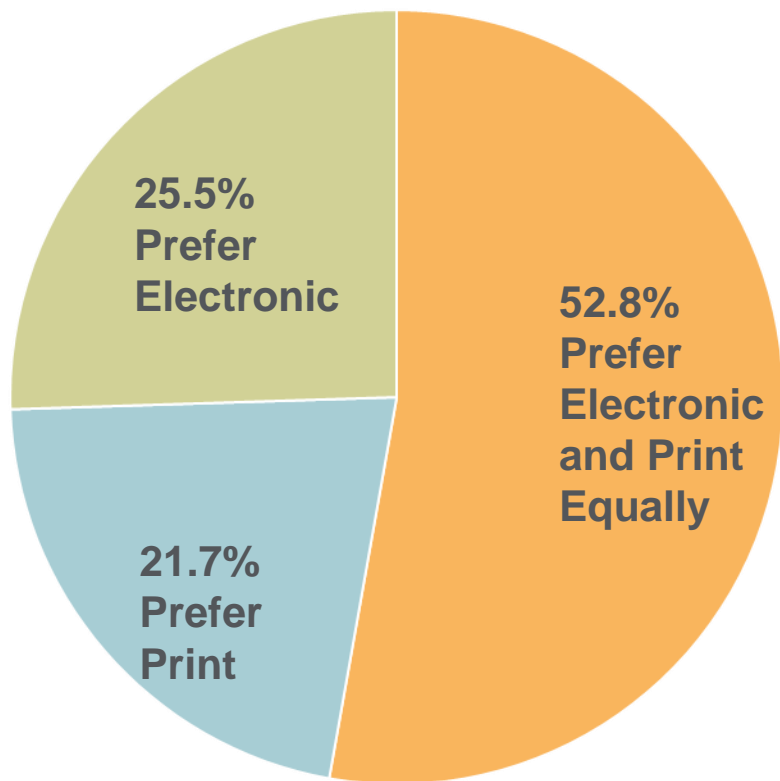
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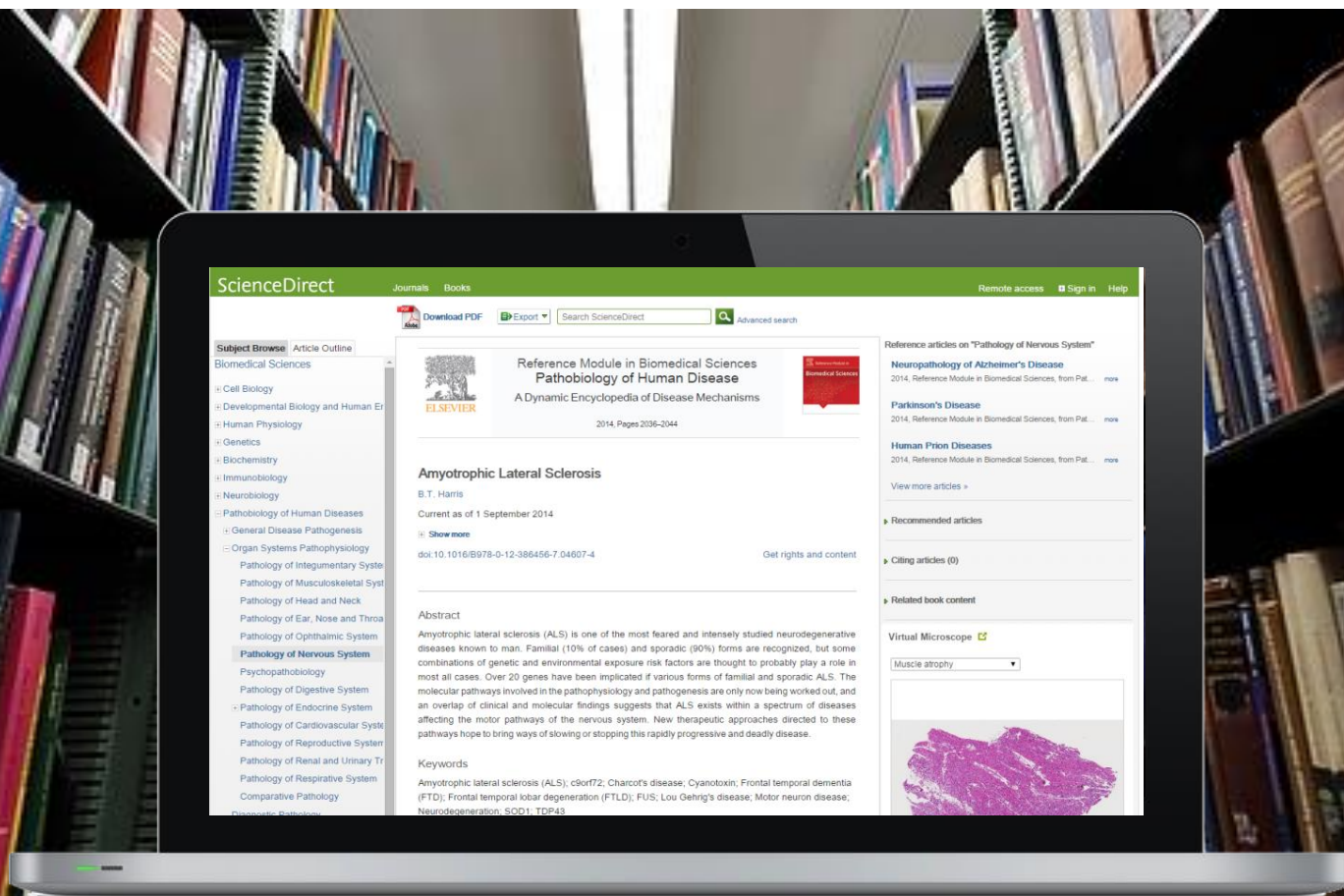
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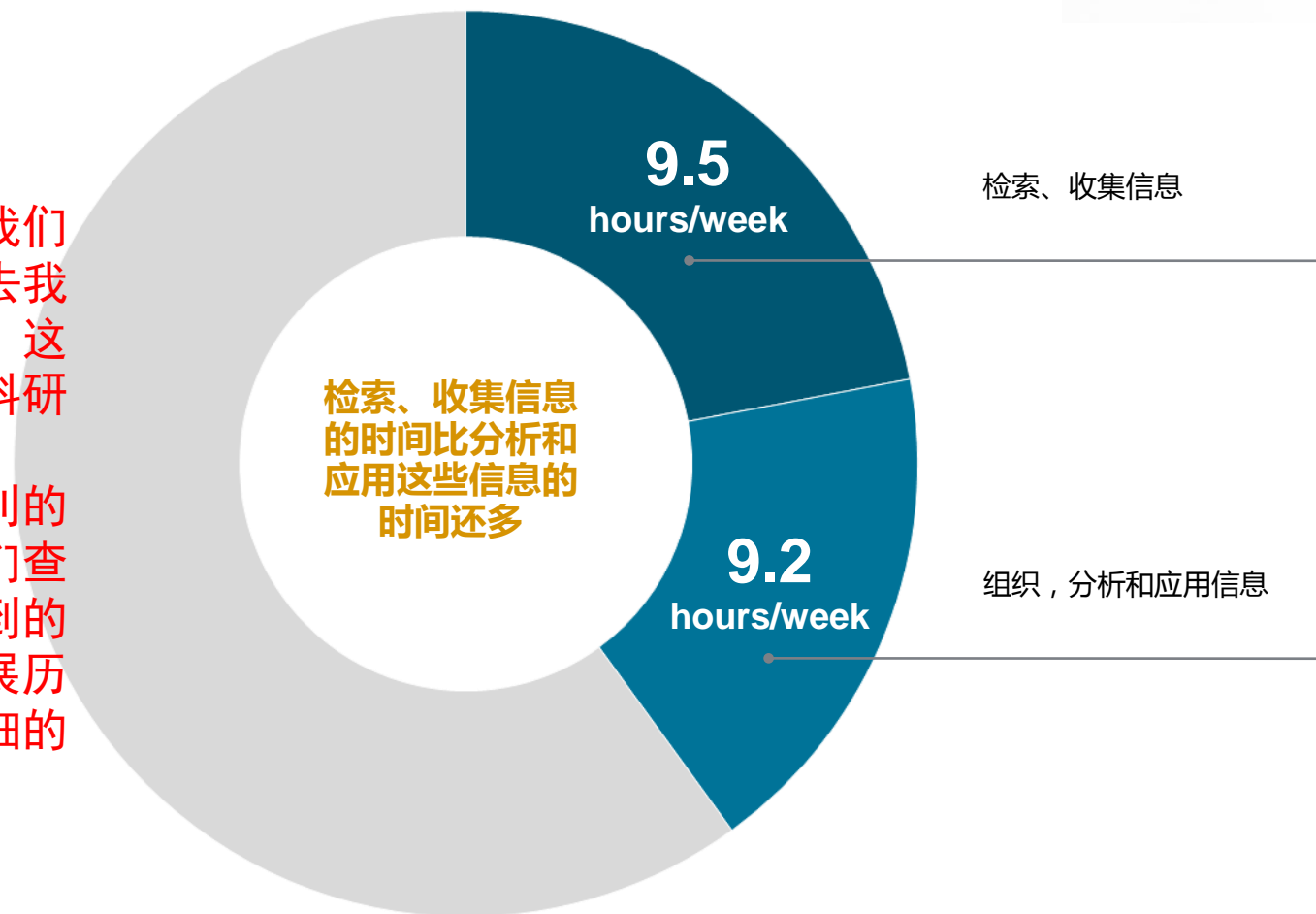




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
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3. Near-term progress of the lithium ion...
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References

## Journal of Power Sources

Volume 195, Issue 9, 1 May 2010, Pages 2419–2430

Review

### Lithium batteries: Status, prospects and future

Bruno Scrosati , Jürgen Garche

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**Abstract**

Lithium batteries are characterized by high specific energy, high efficiency and long life. These unique properties have made lithium batteries the power sources of choice for the consumer electronics market with a production of the order of billions of units per year. These batteries are also expected to find a prominent role as ideal electrochemical storage systems in renewable energy plants, as well as power systems for sustainable vehicles, such as hybrid and electric vehicles. However, scaling up the lithium battery technology for these applications is still problematic since issues such as safety, costs, wide operational temperature and materials availability, are still to be resolved. This review focuses first on the present status of lithium battery technology, then on its near future development and finally it examines important new directions aimed at achieving quantum jumps in energy and power content.

**Keywords**

Lithium batteries; New materials; Electrolyte; Anode; Cathode

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**1. Introduction**

The present energy economy based on fossil fuels is at a serious risk due to a series of factors, including the continuous increase in the demand for oil, the depletion of non-renewable resources and the dependency on politically unstable oil producing countries. Another worrying aspect of the present fossil fuel energy economy is associated with CO<sub>2</sub> emissions, which have increased at a constant rate, with a dramatic jump in the last 30 years, the CO<sub>2</sub> level has almost doubled passing from 1970 to 2005, this resulting in a rise in global temperature with associated series of dramatic climate changes.

The urgency for energy renewal requires the use of clean energy sources at a much higher level than that

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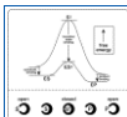
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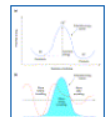
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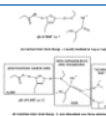
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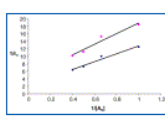
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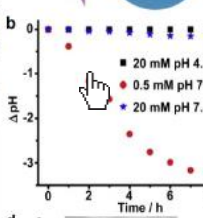
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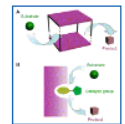
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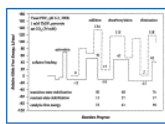
(a) Schem...  
 (b)  $\Delta$ pH vs Time / h. Legend: 20 mM pH 4.0 (blue squares), 0.5 mM pH 7.4 (red circles), 20 mM pH 7.4 (purple triangles).  
 (c) Abs (652 nm) vs Time / h. Legend: 0.5 mM pH 7.4 (red circles). Shows self-activation.  
 (d) Absorbance vs Wavelength (nm). Shows peaks at ~400 nm (1) and ~650 nm (2).  
 (e) Absorbance vs Wavelength / nm. Shows peaks at ~400 nm (1) and ~650 nm (2).  
 (a) Enzym...

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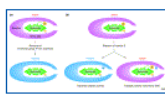
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(a) Natural substrate assisted catalysis, Different types of enzymatic reactions.

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# 高级检索

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**All** Journals Books Reference Works Images Advanced search | Expert search

? Search tips

Search for

electrodeposit\* in Abstract, Title, Keywords

AND

ZnO in All Fields

Refine your search

Journals  All

Books  My Favorites

Subscribed publications

Open Access articles

- All Sciences -  
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Biochemistry, Genetics and Molecular Biology

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

All Years  2004 to: Present

**Search** | Recall search

检索词

检索  
字段

资源  
类型

所属  
领域

- All Fields
- Abstract, Title, Keywords
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出版  
时间

# 高级检索

The image displays a multi-step 'Advanced search' process. Each step is represented by a screenshot of the search interface, with the source type selected in the top navigation bar:

- Journals:** Shows the initial search interface with a search box and a 'Search tips' link.
- Books:** Shows the search interface with a search box and a 'Search tips' link.
- Reference Works:** Shows the search interface with a search box and a 'Search tips' link.
- Images:** Shows the search interface with the following details:
  - Search:** Two search boxes with a dropdown menu set to 'Images' and a connector set to 'AND'.
  - Limit To:** A section with checkboxes for 'Figures' and 'Videos'.
  - Subject:** A dropdown menu with options: '- All Sciences -', 'Agricultural and Biological Sciences', 'Arts and Humanities', and 'Biochemistry, Genetics and Molecular Biology'. A note indicates: 'Hold down the Ctrl key (or Apple Key) to select multiple entries.'
  - Date Range:** Radio buttons for 'All Years' (selected) and '2003' to 'Present'.
  - Buttons:** 'Search' and 'Recall search' buttons.

On the left side of the 'Images' screenshot, there is a 'Refine your search' section with a list of source types: '- All Sciences', 'Agricultural and Biological Sciences', 'Arts and Humanities', and 'Biochemistry, Genetics and Molecular Biology'. Below this list are checkboxes for 'Article', 'Review', and 'Short communication'.

**All** Journals Books Reference Works Images [Advanced search](#) | [Expert search](#)

[? Search tips](#)

**Search for** (Enter terms using Boolean connectors e.g. "heart attack" AND stress)

**Refine your search**

Journals  All  
 Books  My Favorites  
 Subscribed publications  
 Open Access articles

- All Sciences -  
Agricultural and Biological Sciences  
Arts and Humanities  
Biochemistry, Genetics and Molecular Biology

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

All Years  2003 ▼ to: Present ▼

| [Recall search](#)


使用布尔语法、邻近运算符和通配符建立搜索  
优先考虑搜索字段  
同时搜索多个领域  
Tips: 使用文档类型、时间及主题精简搜索



# 检索语言与检索技巧

AND	默认算符，要求多个检索词同时出现在文章中
OR	检索词中的任意一个或多个出现在文章中
AND NOT	后面所跟的词不出现在文章中
通配符 *	取代单词中的任意个 (0,1,2...) 字母 如transplant* 可以检索到transplant, transplanted, transplanting...
通配符 ?	取代单词中的1个字母 如wom?n 可以检索到woman, women
W/n PRE/n	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++}
( )	定义检测词顺序，例：(remote OR satellite) AND education


# 灵活利用检索语言提升检索效率



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# 检索语言

- 可以使用：

## 希腊字母

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

## 法语、德语等其他语言

重音、变音符号，如 $\acute{e}$ ,  $\grave{e}$ ,  $\ddot{a}$  均可以检索

- 不区分：

## 大小写

英文字母不区分

## 上下标

To search  $H_2O$ , enter H2O

## 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