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# eBooks: Benefits, Challenges and the Future

## 電子書：益處、挑戰和未來

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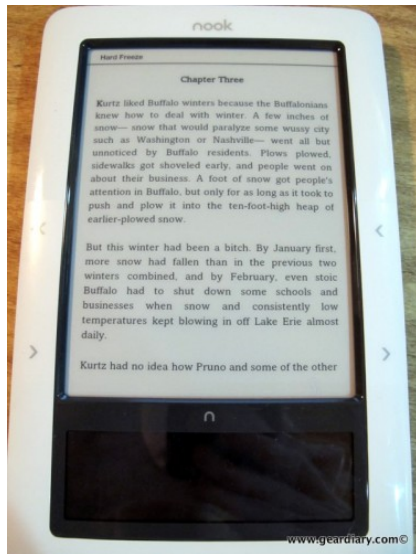
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# Benefits

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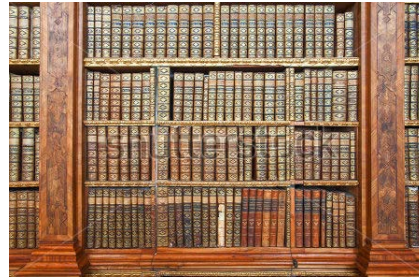


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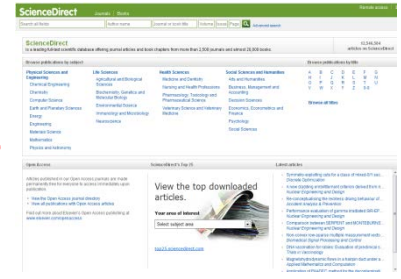
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**VS**



Large Physical

**VS**



Small Electronic

**Searching**



Hours Spent

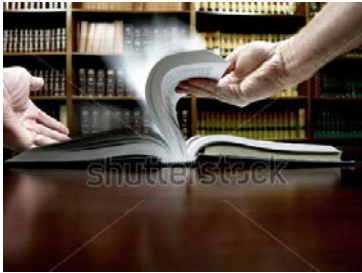
**VS**



Minutes Spent

# Challenges

## Discoverability



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Keyword Search

## Changing role of Librarians



Physical handling

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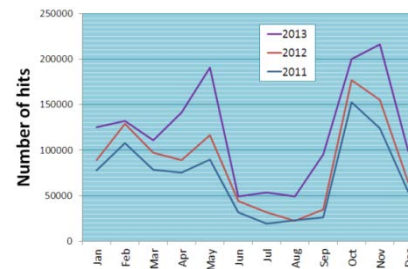
Marketer, Information Specialist

## Usage



1 Book per person

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1 Book many chapters,  
multiple users



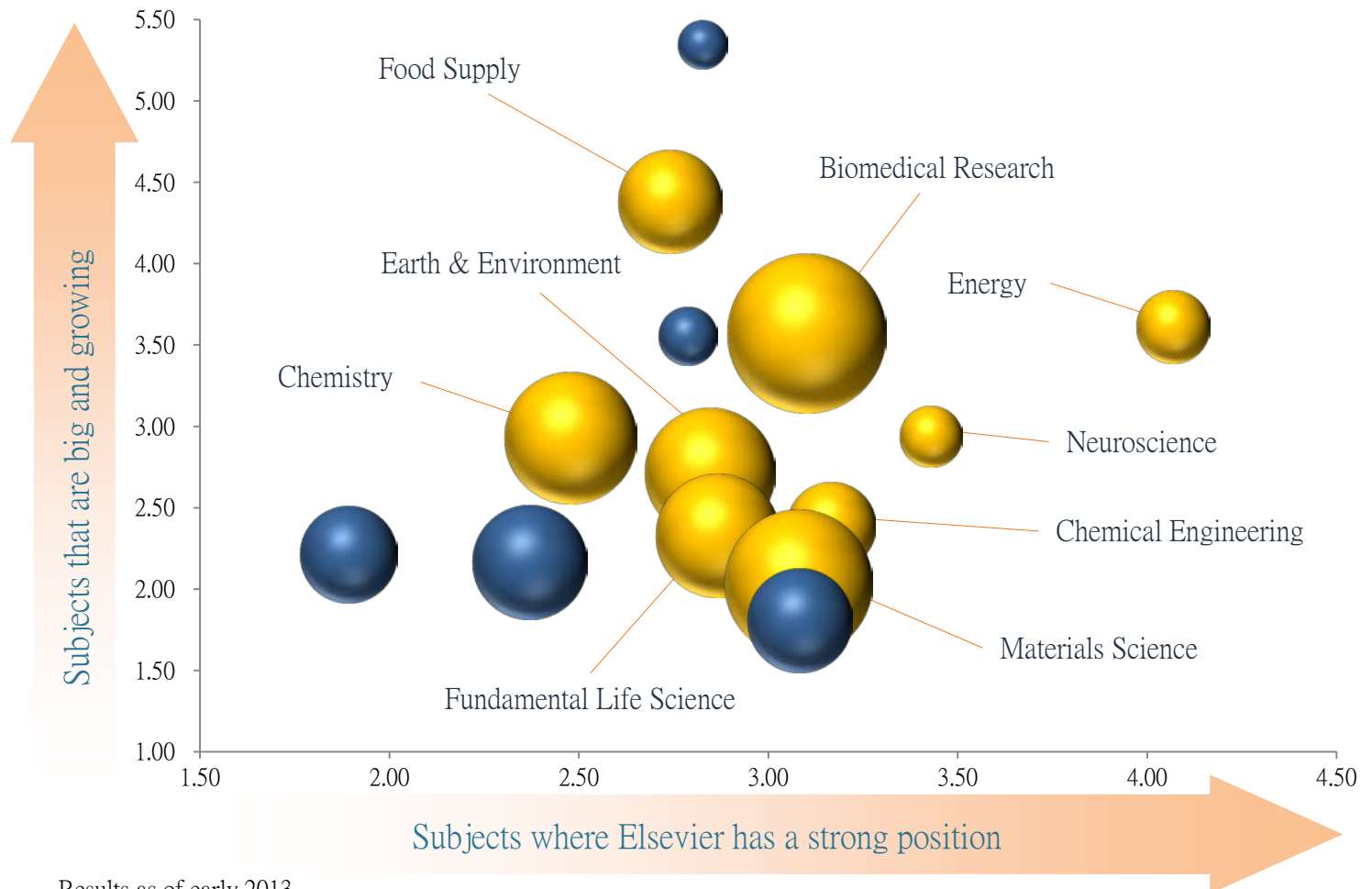
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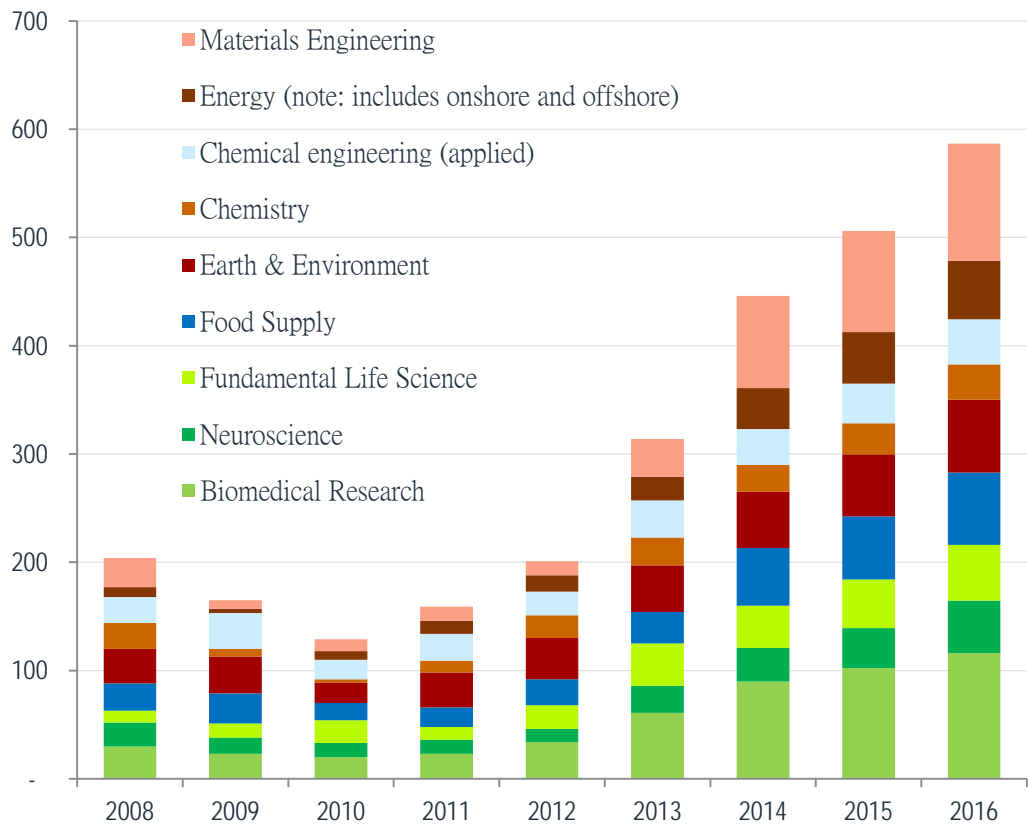


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\* Referral growth to Full Text Chapter Q2 2013 vs Q2 2011 (data: Elsevier web analytics)





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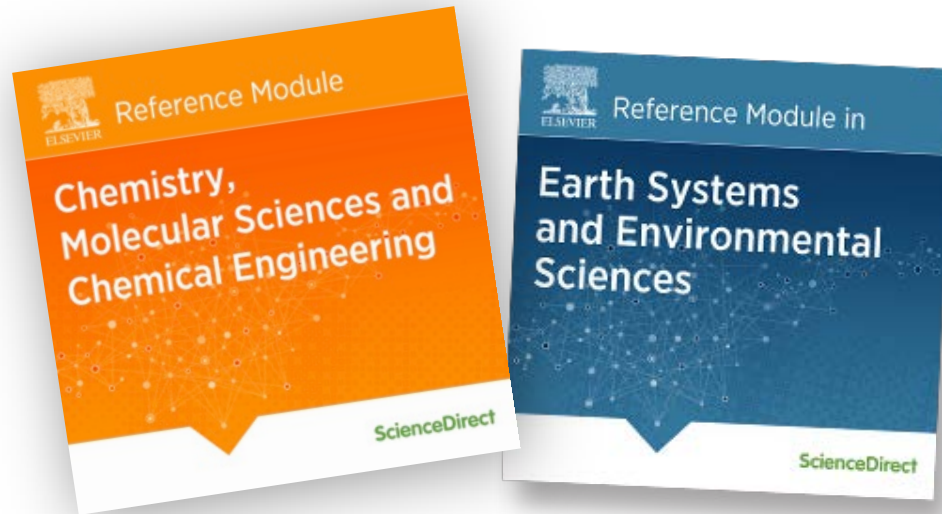
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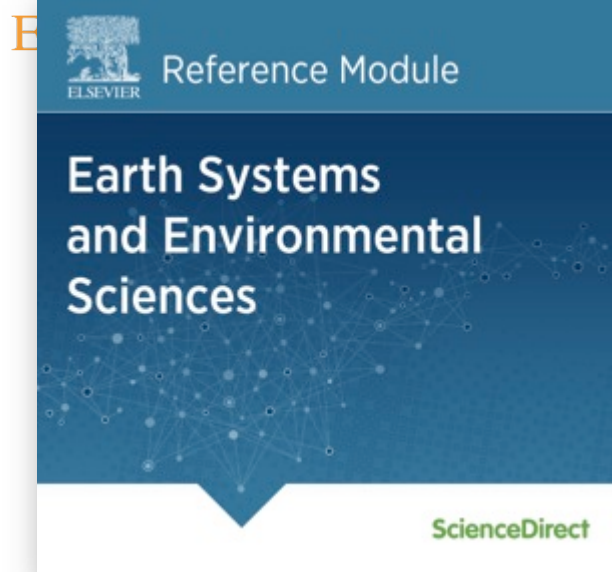
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• Encyclopedia of Energy	1
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• Natural Resource and Environmental Economics	1
• Encyclopedia of Environmental Health	1
• Encyclopedia of Geology	1
• Encyclopedia of Inland Waters	1
• Encyclopedia of Ocean Sciences	2
• Encyclopedia of Physical Science and Technology	4
• Encyclopedia of Quaternary Science	2
• Encyclopedia of Soils in the Environment	1
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• Treatise on Geomorphology	1
• Treatise on Geophysics	1
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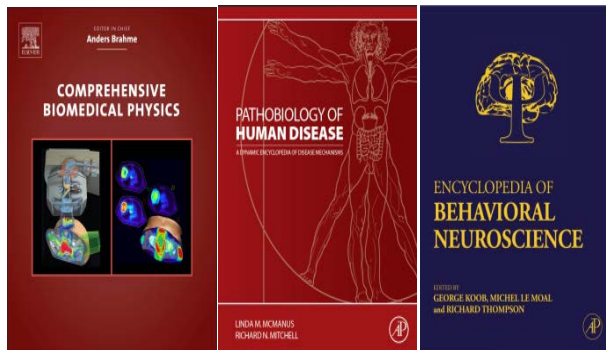


Reference Module

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ScienceDirect

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## Reference Module in Chemistry, Molecular Sciences and Chemical Engineering

ISBN: 978-0-12-409547-2

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1 *Reference Module in Chemistry, Molecular Sciences and Chemical Engineering, from Comprehensive Chirality, Volume 2, 2012, Pages 97-121, Current as of 29 April 2014*

L.F. Tietze, M.A. Dufert, S.C. Schild

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J.A. Marco, M. Carda, J. Murga, E. Falomir

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Interfacial Chemistry - Surfaces and Electrochemistry



## Reference Module in Chemistry, Molecular Sciences and Chemical Engineering

2014



## CHEMILUMINESCENCE | Liquid Phase☆

J.L. Adcock, N.W. Barnett, P.S. Francis

Deakin University, Geelong, VIC, Australia

Available online 6 February 2014

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Update of N.W. Barnett, P.S. Francis

## CHEMILUMINESCENCE | Liquid-Phase

*Encyclopedia of Analytical Science (Second Edition), 2005, Pages 511-521*

PDF (195 K)

## Abstract

The chapter provides a concise introduction to the liquid-phase chemiluminescence reagents that are responsible for the majority of analytical applications; namely acidic potassium permanganate, acridinium esters, diaryloxalates, dioxetanes, hypohalites, luminol, manganese(IV), and tris(2,2'-bipyridyl)ruthenium(III). The substantial body of theoretical and practical work on the determination of reaction mechanisms and characterization of the key intermediates for these chemiluminescent processes is also described. This knowledge affords optimization and analyte selectivity to be achieved on a fundamental basis. The utility of these detection chemistries coupled to flow analysis, high-performance liquid chromatography (HPLC), capillary electrophoresis (CE), immunoassay, and DNA assays is briefly discussed.

## Keywords

Acridinium ester; Aminobutylethylisoluminol; bis-(2,4,6-trichlorophenyl)oxalate; Capillary electrophoresis;

## Reference articles on "Luminescence"

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The background of the slide is a wide-angle aerial photograph of Taipei, Taiwan, taken during the "golden hour" of sunset. The sky is filled with soft, orange and yellow light, with some light clouds. The city's dense urban landscape is visible, with numerous high-rise buildings. The most prominent feature is the Taipei 101 skyscraper, which stands tall on the right side of the frame, its facade reflecting the warm light of the setting sun. In the distance, the silhouette of a mountain range is visible against the horizon.

**Thank You.**